



# Compartment Review Presentation

## Pigeon River Country Forest Management Unit

Compartment 53050

Entry Year 2021

Acreage: 1,418

County Otsego

Management Area: Pigeon River Country

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**Revision Date:** 2019-04-05

**Stand Examiner:** Greg Rekowski

**Legal Description:**

T31N R01W Sections 20, 21, and 22

**Identified Planning Goals:**

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

**Soil and topography:**

A large proportion of this Compartment is lowland and characterized by Tawas-Lupton muck organic soils. Upland areas are a mix of sands and sandy loams and predominantly fall into the following types; Ossineke fine sandy loam, Mossback sandy loam, Rubicon sand, and Croswell-Augres sand.

Terrain is flat throughout the majority of the Compartment with the exception of some isolated rolling terrain found in a few upland stands.

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

A large portion of this Compartment was previously under private ownership and has since been acquired by the State. The most recent acquisition was the Thies property in 2012 which comprised the majority of Section 20. A large amount of private/State land interface does still occur in Section 22.

**Unique Natural Features:**

MNFI staff have identified several element occurrences of natural communities within this Compartment including northern shrub thicket, wet meadow, and rich conifer swamp.

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

There are no known historical or archeological features within the Compartment.

**Special Management Designations or Considerations:**

The Black River and Saunders Creek are both identified as Cold Water Streams.

**Watershed and Fisheries Considerations:**

The Black River flows through Sections 20 and 21 and is joined by Saunders Creek along with numerous other tributaries that flow out of adjacent swamp conifer stands.

**Wildlife Habitat Considerations:**

A Wildlife representative will be available for comment at the Open House and Compartment Review.

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

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. The compartment is within the Antrim Shale gas play as well as the Niagaran reef trend, and nearly all of the state-owned mineral rights are currently leased and held by production. There may be potential for additional wells within the compartment. 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:**

Access is limited throughout this Compartment as most roads are closed and used primarily for timber management purposes.

**Survey Needs:**

A survey request has been submitted to establish numerous corners in Section 22.

**Recreational Facilities and Opportunities:**

No designated recreational facilities exist within the Compartment. The north spur of the Shore-to-Shore trail follows Tin Shanty and Sawdust Pile Roads.

**Fire Protection:**

Fire risk is very low throughout the Compartment with the exception of a few upland white pine stands.

**Additional Compartment Information:**

Beaver activity is widespread throughout the majority of the lowland areas in Sections 20 and 21. Past and current damming activity has flooded and killed many acres of cedar and swamp conifer stands.

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

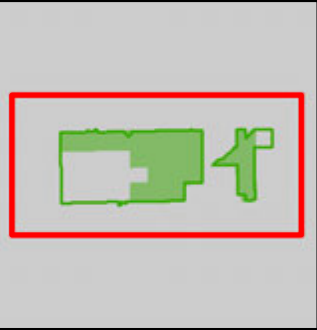
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

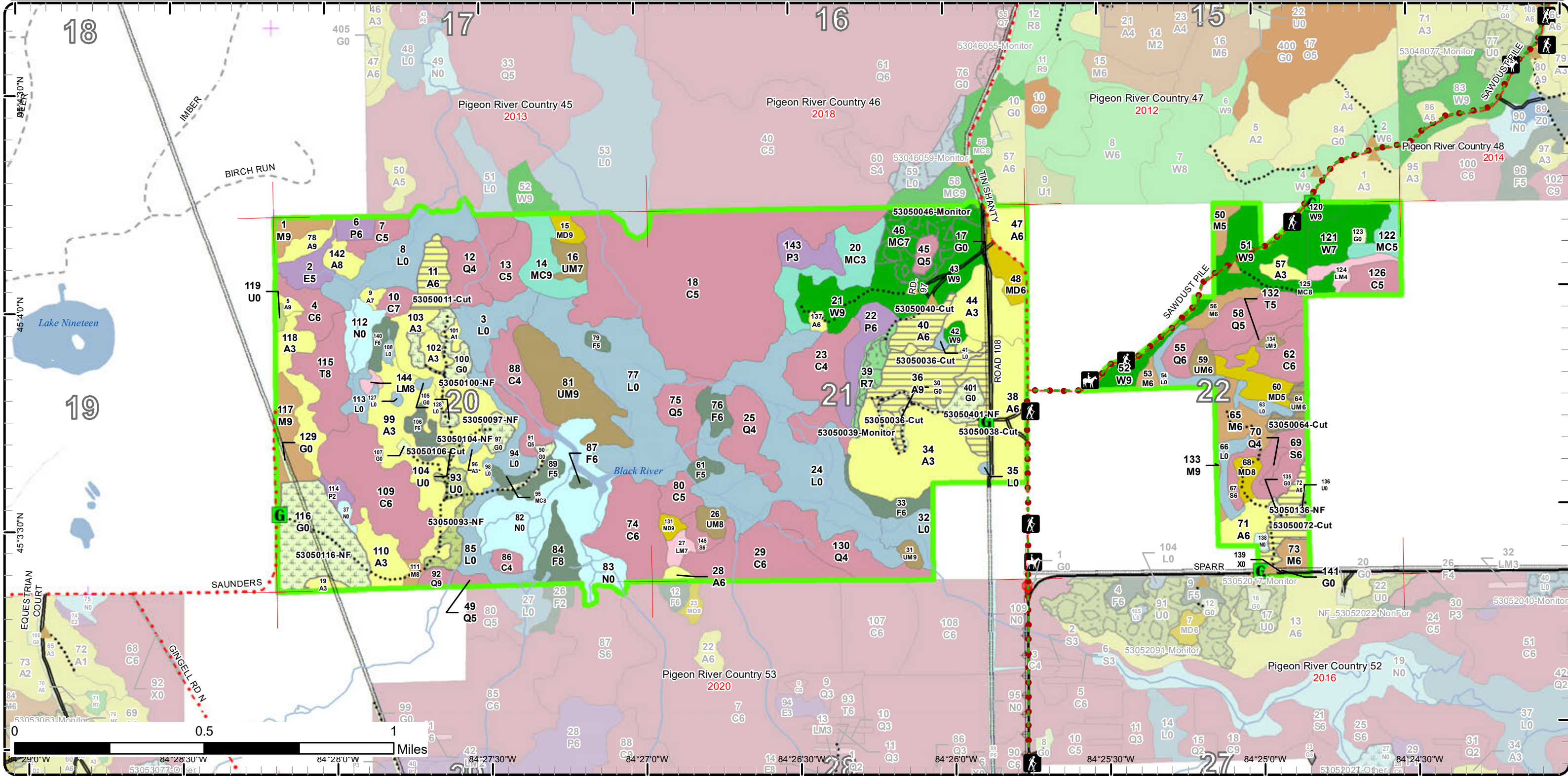
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 50  
 T31N, R01W, Sec: 20, 21, 22  
 County: Otsego  
 Unit: Pigeon River Country  
 Mgmt Area: Pigeon River Country  
 YOE: 2021  
 Acres: 1,418 GIS Calculated  
 Examiner: Greg Rekowski  
 Map Revised: 6/12/2019  
 Map Phase: Web-Post

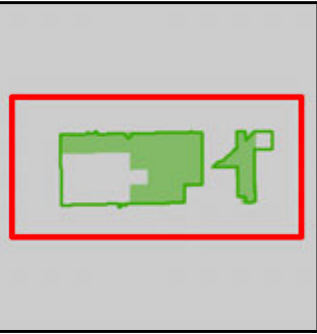


- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- DNR - Management Access (NLP)
- 🚶 Hiking Trails
- 🐎 Horse Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- ▲ Berms
- Ⓜ Gate
- Ⓢ Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- ⚡ Powerline
- ▭ Compartment Boundary
- ▭ Other Treatment - See Comments
- ▭ Clearcut (w/Reserves)
- ▭ Regeneration Survey
- ▭ 411 - Northern Hardwood
- ▭ 413 - Aspen
- ▭ 419 - Mixed Upland Deciduous
- ▭ 421 - Planted Pines
- ▭ 422 - Natural Pines
- ▭ 423 - Other Upland Conifers
- ▭ 429 - Mixed Upland Conifers
- ▭ 430 - Upland Mixed Forest
- ▭ 611 - Lowland Deciduous Forest
- ▭ 612 - Lowland Coniferous Forest
- ▭ 613 - Lowland Mixed Forest
- ▭ 122 - Roads/Parking Lot
- ▭ 310 - Herbaceous Openland
- ▭ 320 - Upland Shrub
- ▭ 622 - Lowland Shrub
- ▭ 623 - Emergent Wetland
- ▭ Lakes

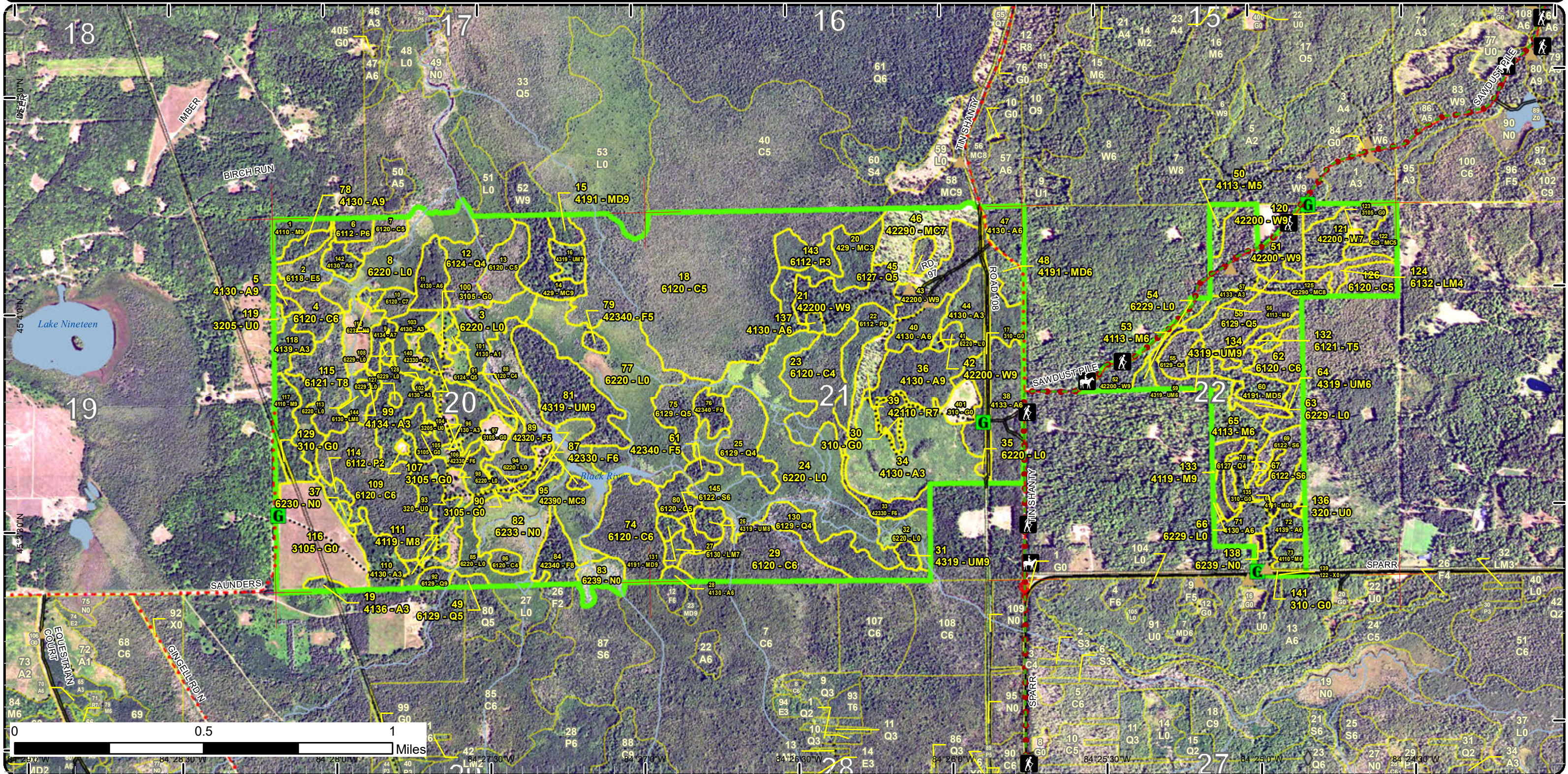


# Stand Boundary Map

Compartment: 50  
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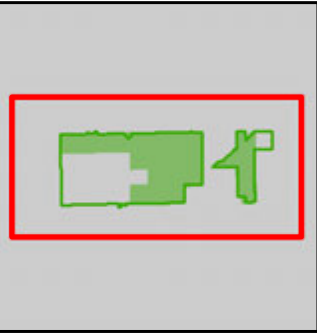


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- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- DNR - Management Access (NLP)
- Hiking Trails
- Horse Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- ▲ Berms
- G Gate
- STOP Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- Powerline
- Compartment Boundary
- Stand Boundaries
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
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- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous

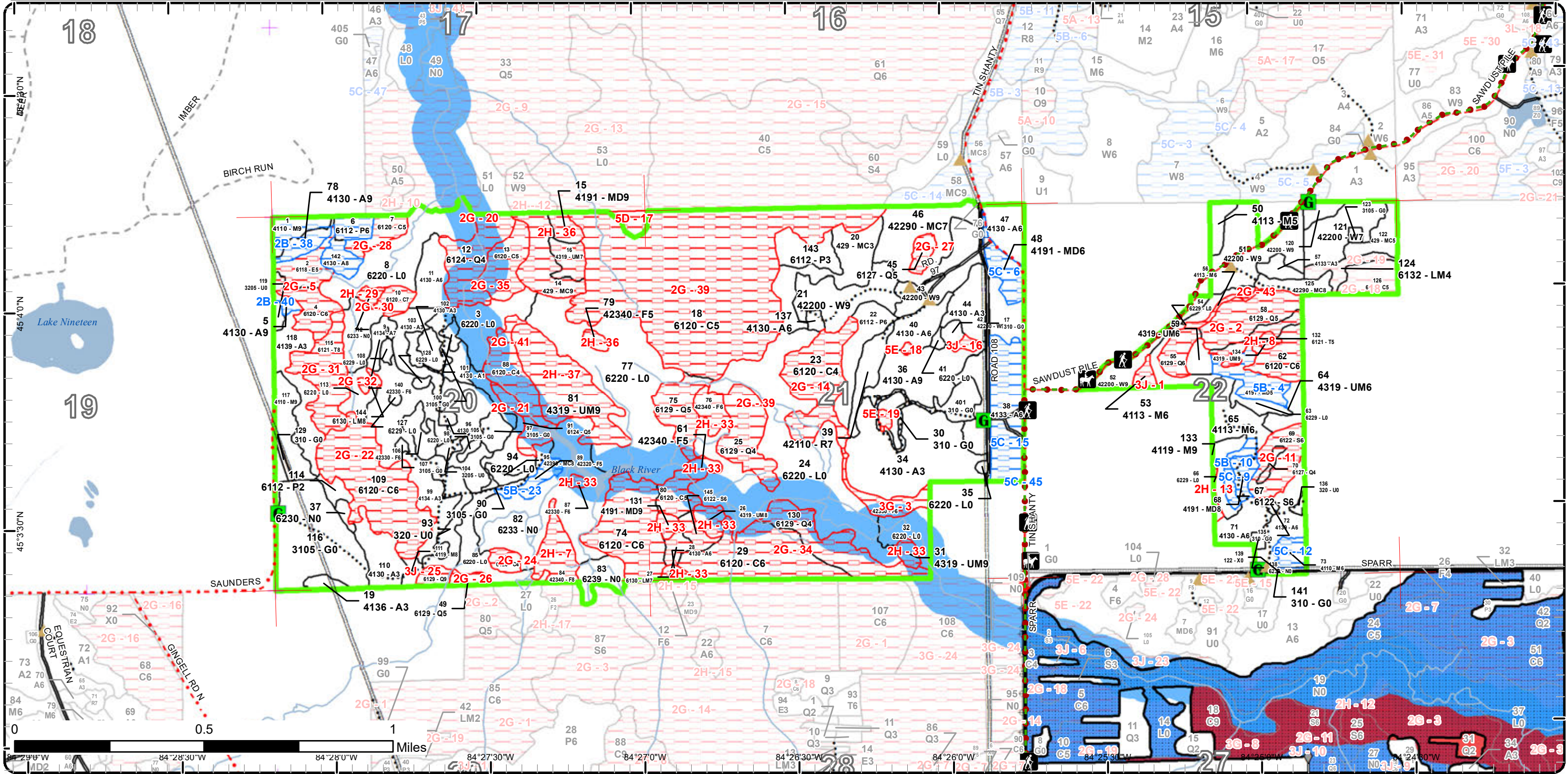


# Special Conservation Areas & Site Conditions Map

Compartment: 50  
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- ▲ Berms
- 🚪 Gate
- 🛑 Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- ⚡ Powerline
- 🟩 Compartment Boundary
- 🟦 Available w/ Constraints
- 🔴 Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- 🏠 Stand Boundaries
- 🏠 SCA
- 🟥 Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Riparian 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	40	104	11	20	9	54	0	0	12	10	0	0	0	0	0	0	0	260
Cedar	0	0	0	0	0	0	0	0	0	32	19	194	15	54	0	0	0	0	314
Herbaceous Openland	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Lowland Aspen/Balsam Poplar	0	0	0	7	19	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Lowland Conifers	0	0	0	0	0	0	3	15	6	27	0	46	0	0	0	0	0	0	96
Lowland Deciduous	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Lowland Mixed Forest	0	0	0	0	0	0	0	0	8	1	0	0	0	0	0	0	0	0	9
Lowland Shrub	220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	220
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	3	14	0	0	0	0	0	0	0	0	17
Marsh	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	16	9	0	0	0	0	0	0	0	25
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	26
Northern Hardwood	0	0	0	0	0	0	0	4	2	18	10	11	0	0	0	0	0	0	45
Red Pine	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Tamarack	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	22
Upland Conifers	0	0	0	0	17	0	0	7	0	13	2	0	0	0	0	0	0	0	38
Upland Mixed Forest	0	0	0	0	0	0	0	28	0	14	4	2	0	0	0	0	0	0	48
Upland Shrub	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Upland Spruce/Fir	0	0	0	0	0	9	10	11	0	9	0	0	0	0	0	0	0	0	38
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	0	0	0	22	14	3	43	0	0	0	0	0	0	0	82
<b>Total</b>	<b>359</b>	<b>40</b>	<b>104</b>	<b>18</b>	<b>56</b>	<b>18</b>	<b>67</b>	<b>109</b>	<b>33</b>	<b>192</b>	<b>104</b>	<b>253</b>	<b>15</b>	<b>54</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1418</b>



## Report 2 – Treatment Summary

### Acres of Harvest

Commercial Harvest - 65  
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	56	0	0	0	0	0	0	0	0	56
Northern Hardwood	4	0	0	0	0	0	0	0	0	4
Upland Spruce/Fir	5	0	0	0	0	0	0	0	0	5
<b>Total</b>	<b>65</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>65</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	65	0	0	0	0	26	0	66		157
Next Step	0	0	0	0	0	65	0	0		65
<b>Total</b>	<b>65</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>92</b>	<b>0</b>	<b>66</b>		<b>223</b>



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
11	53050011-Cut	8.9	4130 - Aspen	Poletimber Well	48	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut all species. Mark to leave 1-2 poor form aspen per acre as cut and leave trees. Exclude the two interior wetland/vernal pool areas.  
Specs:

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

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

Other Potential for both browse and beaver damage here.

Comment: Move up to current YOE to get the fir harvested.

Proposed Start Date: 4 /23/2019

36	53050036-Cut	21.6	4130 - Aspen	Sawtimber Well	56	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut all species except for the 2 or 3 legacy size basswood. Mark a few leave trees around these basswood to avoid blowdown. Also leave any cherry greater than 5 inches DBH. Mark 1-2 poor quality aspen per acre as cut and leave trees. Place retention around the areas already excluded in MiFi. The retention area to the north is seasonally wet. Stay a 1/2 chain away from the wet areas at the northeast stand edge.  
Specs:

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

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

Other Place the landing in the G type (stand 401).

Comment:

Proposed Start Date: 10/1 /2020

38	53050038-Cut	7.7	4133 - Aspen, Mixed Pine	Poletimber Well	56	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut all species except leave any sawlog-size white pine or white spruce if present. Utilize small retention pockets or mark to leave small clumps of white pine poletimber along the edges of the managed opening (stand 401) and pipeline ROW to discourage illegal entry around the gate. Mark 1-2 poor quality aspen per acre as cut and leave trees.  
Specs:

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

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

Other Place the landing in the G type, stand 401.

Comment:

Proposed Start Date: 2 /19/2019

39	53050039-Monitor	5.5	42110 - Planted Red Pine	Sawtimber Poor	90	1-50	Monitoring	Natural Regen (Intermediate)	42498 - Red Pine (OI)	Two-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Regen survey  
Specs:

Next Step  
Treatments:

Acceptable RED AND WHITE PINE , ASPEN, RRED MAPLE AND SPRUCE AND FIR WOULD BE ACCEPTABLE REGENERATION.  
Regen:

Other Percent to Treat = 100%

Comment:

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
40 53050040-Cut	8.3	4130 - Aspen	Poletimber Well	36	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut all species. Place the treatment boundary a 1/2 chain away from the wetland at the southeast corner, this will serve as retention. Be sure to also include the small vernal pool which is in that area as well.

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

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

Other Although there is only a trace amount, try to protect the hawthorn from harvesting damage, maybe flag it out beforehand.  
Comment:

Proposed Start Date: 10/1 /2020

46 53050046-Monitor	20.6	42290 - Natural Mixed Pine	Sawtimber Poor	83	1-50	Monitoring	Natural Regen (Intermediate)	42290 - Natural Mixed Pine	Two-Aged	Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Natural regen survey.  
Specs:

Next Step  
Treatments:

Acceptable Mixed pine that meets acceptable stocking guidelines with any additional mix of species acceptable.  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

65 53050064-Cut	4.4	4113 - R.Maple, Conifer	Poletimber Well	82	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut, reserve any rare species.  
Specs:

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

Acceptable Meets aspen stocking guidelines.  
Regen:

Other Percent to Treat = 100%  
Comment:

Proposed Start Date: 10/1 /2014

72 53050072-Cut	9.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	90	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Cut all species except for white pine and orange-marked trees.  
Specs:

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

Acceptable Meets aspen stocking guidelines.  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2014



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
90	53050090-NF	2.2	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	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/or soft mast.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

93	53050093-NF	8.4	320 - Upland Shrub	Nonstocked		Unspec ified	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/or soft mast.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

97	53050097-NF	3.9	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	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/or soft mast.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

100	53050100-NF	8.1	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	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/or soft mast.

Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
104	53050104-NF	1.6	3205 - Mixed Upland Shrub	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/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

105	53050105-NF	1.1	3105 - Mixed Upland Herbaceous	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/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

106	53050106-Cut	4.8	42330 - Upland Fir	Poletimber Well	56	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Proposal
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**Habitat Cut: No**

**Site Condition:**

Prescription Cut all species except for any cedar, basswood, or birch. Mark to leave one clump of spruce/fir per acre to retain a seed source. No area retention due to the small size of the stand. Add 2" spec to get all regen knocked down.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Fully-stocked stand with any mix of fir, spruce, pine, aspen, and hardwoods being acceptable.

Regen:

Other Use the U type stand to the east (#104) as a landing.

Comment:

Move up to current YOE to get the fir harvested.

Proposed Start Date: 4 /23/2019

116	53050116-NF	33.6	3105 - Mixed Upland Herbaceous	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/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020



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
135	53050135-NF	0.6	310 - Herbaceous Openland	Nonstocked		Unspec ified	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/or soft mast.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

136	53050136-NF	0.7	320 - Upland Shrub Openland	Nonstocked		Unspec ified	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/or soft mast.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

401	53050401-NF	5.6	310 - Herbaceous Openland	Nonstocked		Unspec ified	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/or soft mast.  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2020

**Total Treatment  
Acreage Proposed: 157.3**

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions						
		With Condition				2B	5B	5C	2G	2H	3G	3J
259	221	32	6	Aspen	10		21	0	3	0	1	1
312	0	0	312	Cedar				312				
66	66	0	0	Herbaceous Openland								
26	22	4	0	Lowland Aspen/Balsam Poplar	4							
97	0	0	97	Lowland Conifers				94			3	
7	0	0	7	Lowland Deciduous				7				
9	0	0	9	Lowland Mixed Forest				9				
220	220	0	0	Lowland Shrub		0						
17	0	4	14	Lowland Spruce/Fir			4	14				
60	60	0	0	Marsh				0	0			
25	0	20	6	Mixed Upland Deciduous		13	7		6			
26	25	0	0	Natural Mixed Pines			0					
45	30	10	5	Northern Hardwood	6		4	2	1		2	
7	7	0	0	Red Pine								
22	0	0	22	Tamarack				22				
39	26	0	13	Upland Conifers				0	13			
48	8	0	40	Upland Mixed Forest					40			
12	12	0	0	Upland Shrub								
39	8	4	26	Upland Spruce/Fir		4		0	20	6		
1	1	0	0	Urban								
82	82	0	0	White Pine				0				
1,418	789	73	557	Total Forested Acres	20	17	36	460	82	6	6	1
	56%	5%	39%	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	3J: Water quality / BMPs (stream, river, or lake)	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Much of this stand has lowland characteristics and is seasonally wet.							

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit  
Greg Rekowski : Examiner

Compartment: 50  
Year of Entry: 2021

2	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer for the Black River that was requested by Fisheries Division when the stand to the north (#34) was clearcut.							
4	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold off on treatment until the aspen component matures.							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	16	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet ground. A stream travels west-east through most of stand 2. Two small streams originate in stand 4.							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

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Year of Entry: 2021

8	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand may be too wet, need to look at in snow-free conditions.							
10	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 2nd age class of aspen is only 29 years old.							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Too small to thin on it's own, manage when adjacent stands are harvested.							

## Report 4 – Site Conditions

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13	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Narrow strip of a stand that is not feasible to harvest with the exception of the far southern end which could potentially be grouped with the aspen stand to the south when it is harvested.							
14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Maintain for visual purposes. The aspen is still vigorous.							
16	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Area of very wet ground that should be excluded from the harvest in stand 36.							
17	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

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Greg Rekowski : Examiner

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19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Wet, low quality. Borders Black River.							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	36	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> At least two streams flow through this stand.							
23	Available	5B: Maintain for regeneration purposes	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Maintain until 2nd age class of young aspen matures.							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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25	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Borders Saunders Creek to the east. Appears to be several seeps that drain down into the creek.							
26	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Poor quality, wet stand that borders Saunders Creek on the west side.							
27	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is a bog.							
28	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
33	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> These are a series of upland islands that are isolated and will never be available for harvest.							
34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	84	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> All of these stands are wet and contain multiple tributaries to the Black River.							

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

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35	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	11	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> These are a series of upland islands that are isolated and will never be available for harvest.							
37	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Accessing this stand would not only require a bridge over the Black River but significant road development would be needed as there is really no good way to enter the stand. There are remnants of a small, elevated grade but that disappears quickly once you get in the stand.							
38	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> The only way to access these stands would be through the back yard of the adjacent landowner to the north which is unknown if they would agree to. Would prefer to wait ten years for a harvest at which time stand 6 will be merchantable and can be grouped together with these stands. The existing aspen in stands 78 and 142 should hold up fine until then. In the meantime, contact the landowner and attempt to gain access.							
39	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	159	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Very wet and low quality.							

## Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 50

Greg Rekowski : Examiner

Year of Entry: 2021

40	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	2	2E: Road needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b> A new road would have to be constructed across private land to get to this stand. The other option is to wait until the adjacent A3 stand (#118) becomes mature and then manage at the same time.							
41	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	13	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
43	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This part of stand 56 is lowland and very wet.							
45	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Maintain for visual purposes. The aspen is still vigorous.							

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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
1	4110 - Sugar Maple Association	Sawtimber Well	5.5	97	111-140	N/A	Nice stand of hardwoods that hasn't been thinned before. Difficult to tell with the snow on the ground but there may be a few seeps along the eastern edge of the stand. Terrain slopes gently down to the east. Trace of yellow birch, elm, cedar, and one white ash sawlog tree that is still alive. Most beech have BBD. Average ba/acre from 6 plots = 128 square feet. Corner is in.																																																					
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2	6118 - Lowland Deciduous with Cedar	Poletimber Medium	7.1	86	51-80	N/A	Strange stand that is a mixed bag of everything. A couple upland islands are present but lowland is dominant. A stream, that sits in somewhat of a small ravine, runs west-east through the middle of the stand and appears to originate at the far west end. There are numerous other seeps/drainages that flow into the stream. Terrain slopes down to the east/southeast. A vein of cedar is present along the entire northern edge of the stand. Many of the smaller ash still appear to be alive. Trace of yellow birch and basswood. Average ba/acre from 8 plots = 79 square feet. No management due to wet ground and stream influence.																																																					
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3	6220 - Alder/willow	Nonstocked	13.4	0	Unspecified	No	Stand of thick alder. The portion east of the Black River looks like it was forested at one time (see 98DOQ imagery) but most trees are now dead. The eastern stand boundary follows what looks like an old beaver dam.																																																					
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4	6120 - Lowland Cedar	Poletimber Well	8.7	83	81-110	N/A	Moderate quality cedar stand, most of which appears healthy. The south half of the stand becomes more of a Q type and has a few upland areas mixed in. Two small streams originate in the stand, one in the middle and one near the south end, both flowing east. Terrain slopes down to the east. Trace of yellow birch and basswood. Average ba/acre from 7 plots = 107 square feet.																																																					
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5	4130 - Aspen	Sawtimber Well	1.6	86	141-170	N/A	Nice stand of aspen with some areas of very dense stocking. A couple of large diameter, gnarly aspen. Trace of paper birch, red maple, and sugar maple in the overstory. Average ba/acre from 3 plots = 150 square feet.																																																					
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6	6112 - Lowland Aspen	Poletimber Well	4.1	29	51-80	N/A	Although difficult to tell with all of the snow on the ground, this stand appears to have more lowland than upland. Regen is almost fully-stocked with the exception of a few small areas that are mostly tag alder. Pretty diverse sapling layer underneath the aspen, although much of the ash appears to be getting EAB. Overall the stand is just approaching merchantability. Average ba/acre from 4 plots = 75 square feet.																																																									
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7	6120 - Lowland Cedar	Poletimber Medium	5.8	115	81-110	N/A	Some areas of nice, healthy cedar in the southwester half of the stand but the remainder of the stand has dead and declining cedar. Although difficult to tell with the snow, it looks like the stand is being flooded, likely from beaver activity that is visible on imagery in the north end of stand #8. Average ba/acre from 6 plots = 98 square feet.																																																									
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8	6220 - Alder/willow	Nonstocked	25.2		Unspecified	No	A stream flows northeast through the length of this stand with several small feeder streams dumping into it along the way. There is an active beaver dam in the middle area of the stand and then it looks from imagery like there is one at the far north end, although I didn't visit that part of the stand. A few clumps of fir, spruce, and cedar are present.																																																									
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9	4134 - Aspen, Spruce/Fir	Sawtimber Poor	1.6	81	1-50	N/A	Poorly-stocked upland island. About half of the aspen is dead. The northeast portion of the stand has some dense balsam but the remainder of the stand doesn't have much of an understory. Average ba/acre from 3 plots = 40 square feet.																																																									
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<b>10</b>	6120 - Lowland Cedar	Sawtimber Poor	3.8	102	1-50	N/A	Wet, poorly-stocked stand. Quite a bit of cedar blowdown although the cedar that is standing appears healthy. There used to be a lot of black ash in this stand but it is now all dead from EAB. Thick alder understory. Average ba/acre from 4 plots = 48 square feet.																																									
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<b>11</b>	4130 - Aspen	Poletimber Well	8.9	48	81-110	N/A	Nice stand of nearly pure aspen/fir. Two relatively large wetland/vernal pools are present in the interior, the red maple component is mostly found here. Far north end of the stand is somewhat open without any aspen as I'm guessing beavers removed them years ago. Trace of paper birch, elm, and white spruce in the overstory. Average ba/acre from 8 plots = 104 square feet.																																									
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<b>12</b>	6124 - Lowland Spruce-Fir	Poletimber Poor	16.5	102	1-50	N/A	Poorly-stocked, wet stand. Most of the cedar is in the south half and is in decline. This is likely a result of a large beaver dam near the southern end of the stand that caused the water level to rise. This dam was removed a few years ago. A black ash component of about 10 square feet was formerly present but EAB has killed them all. Some portions of the stand resemble more of an E type. Trace of American elm. Average ba/acre from 7 plots = 36 square feet. *Only looked at the part of the stand west of the river.																																									
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Tag Alder	Full	5 - 10 feet	Tall Shrub																																													
<b>13</b>	6120 - Lowland Cedar	Poletimber Medium	10.9	105	81-110	N/A	This used to be a densely-stocked, good quality cedar stand however now the majority of the cedar is in significant decline and appears close to death. This is likely a result of flooding when the Black River was dammed by beavers a few years ago, the dam has since been removed. Average ba/acre from 5 plots = 84 square feet.																																									
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<b>14</b>	429 - Mixed Upland Conifers	Sawtimber Well	12.9	89	81-110	N/A	Moderate quality mixed-species stand that is part of a larger upland island with adjacent stands. The south half of the stand has some scattered areas of lower BA, white pine quality tends to be lower here as there are several open-grown stems. BAs increase in the north half and as a result so does white pine quality. Areas of wet ground are present along the west edge with some cedar mixed in. There used to be some hemlock at the northern end but porcupines have killed the majority of them. Average ba/acre from 11 plots = 90 square feet.																																									
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<b>15</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	3.4	82	81-110	N/A	Moderate quality red maple stand that is part of a larger upland island with the adjacent stands to the west and south. Some areas of lowland along the eastern edge. Trace of hemlock, quaking aspen, and cedar. Average ba/acre from 5 plots = 86 square feet.																																									
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16	4319 - Mixed Upland Forest	Sawtimber Poor	5.1	82	1-50	N/A	Poorly-stocked stand that is mostly low-quality, open-grown red maple and white pine with clumps of fir mixed in. Fir regen is starting to fill in a few places. Average ba/acre from 4 plots = 28 square feet. Trace of white spruce. Previous notes do not indicate why this stand is in an open condition, maybe a WLD cut long ago or there was an aspen component that beavers removed?																																																																
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17	310 - Herbaceous Openland	Nonstocked	4.6	0	Unspecified	No	Pipeline ROW																																																																
18	6120 - Lowland Cedar	Poletimber Medium	132.4	105	51-80	N/A	Poor-quality, wet swamp conifer stand. Most of the cedar is either dead or in decline and appears to be stagnant in many places. Tamarack is the only species that displays decent growth. Average ba/acre from 7 plots = 59 square feet. Multiple streams pass through the stand. Only looked at the west half of the stand. The far east/northeast portion of the stand, from imagery, appears to be much better quality.																																																																
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19	4136 - Aspen, Mixed Conifer	Sapling Well	2.1	19	Immature	N/A	Stand was harvested while under private ownership. There is a pocket of wet ground with cedar and basswood in the middle of the stand as well as a small non-forested wetland. Trace of elm, white spruce, and paper birch in the overstory.																																																																
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20	429 - Mixed Upland Conifers	Sapling Well	17.4	35	51-80	N/A	Stand was put up for sale in Spruce Budworm Jungle, #53-011-82-01, but was never cut by the purchaser A-E Wood Products. Instead, WLD cut the stand with KG blades in 1984. Regeneration came back well to a wide mix of species and is generally well-stocked, except for a few open areas along the far western finger. Ground is about 60% upland and 40% lowland, with the wet ground being more prevalent in the northeastern area of the stand.																																																																
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<b>22</b>	6112 - Lowland Aspen	Poletimber Well	11.0	35	51-80	N/A	Stand was put up for sale in Spruce Budworm Jungle, #53-011-82-01, but was never cut by the purchaser A-E Wood Products. Instead, WLD cut the stand with KG blades in 1984. The stand regenerated well to a wide mix of species. In general, the southern half of the stand is more of a true P type and dominated by aspen and red maple while the northern half has a higher conifer component. The ground seems to be about 60% lowland and 40% upland, with most of the drier soils along the eastern edge. Average ba/acre from 8 plots = 60 square feet.																																																							
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<b>23</b>	6120 - Lowland Cedar	Poletimber Poor	23.0	81	51-80	N/A	Very poor-quality, wet stand. Most of the cedar is in decline or dead and there is quite a bit of blowdown. Black ash used to be a component of the stand but is now all dead. Average ba/acre from 7 plots = 60 square feet. Did not visit the western edge of the stand or the far southwestern corner where it looks from imagery that two streams pass through.																																																							
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<b>24</b>	6220 - Alder/willow	Nonstocked	74.1		Unspecified	No	Large alder complex that has numerous streams running through it as well as the Black River. Did not visit many areas of the stand other than the southeast and west sides. The southeast portion is currently being flooded by beavers, numerous flowing channels are present. As can be seen on imagery, clumps of timber are scattered throughout the entire stand.																																																							
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25	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	15.3	81	1-50	N/A	Poorly-stocked swamp conifer stand with a lot of small diameter trees. There used to be a much larger component of cedar, especially in the north half, but much of it has died and fallen over. What live trees remain do not appear healthy and are in decline. The southern arm of the stand has some nice spruce although not very well stocked. Streams border the eastern and western sides of the stand. Average ba/acre from 7 plots = 44 square feet. Difficult stand to navigate through with the blowdown and alder, probably not worth revisiting for a long time.																																								
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26	4319 - Mixed Upland Forest	Sawtimber Medium	3.6	98	51-80	N/A	Upland island stand that is not very well-stocked and has quite a bit of older blowdown. Spruce and fir regen is quite thick in areas and is starting to recruit into the overstory. Average ba/acre from 4 plots = 63 square feet.																																								
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27	6130 - Fir, Aspen, Maple	Sawtimber Poor	3.0	73	1-50	N/A	Strange stand in that there is a supercanopy of overstory aspen with a dense understory of fir and alder. There used to be a lot more of the aspen but much of it has fallen over. Next time this can likely be coded as a young fir stand. Average ba/acre from 4 plots = 35 square feet. The ground is mostly lowland but there are some areas that don't appear too wet.																																								
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28	4130 - Aspen	Poletimber Well	1.7	39	51-80	N/A	Dense aspen/fir stand that was cut by WLD and at the same time as adjacent stands to the south in Compartment 53. Trace of black spruce. Average ba/acre from 3 plots = 73 square feet.																																								
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29	6120 - Lowland Cedar	Poletimber Well	28.3	126	141-170	N/A	A generally high-quality cedar stand except for wetter areas along the north and eastern sides which have some areas of decline. Two streams flow north through the stand. Trace of hemlock and tamarack. Average ba/acre from 9 plots = 154 square feet.																																								
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30	310 - Herbaceous Openland	Nonstocked	2.6	56	Unspecified	No	Winding opening complex that was created in 1983, was apparently called the Spaghetti Opening. Has not been maintained since. Most recently it was opened back up and used as a skid and haul route for the adjacent clearcut to the south. A few of the trails have filled in considerably and were merged in with the adjacent A9 stand. Some aspen sprouts from the adjacent clearcut are re-sprouting along the edges.																																								
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<b>31</b>	4319 - Mixed Upland Forest	Sawtimber Well	2.3	107	81-110	N/A	Small upland island stand with some large diameter red maple present. Some scattered mortality on the larger trees and fir is filling in the lower stocked areas. Cedar is mostly along the edges where the ground becomes wetter. Heavy porcupine damage on the hemlock. Very high deer use in the stand. Average ba/acre from 4 plots = 93 square feet. Found a single red oak sapling (3') in the middle of the stand.																																														
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<b>32</b>	6220 - Alder/willow	Nonstocked	8.3		Unspecified	No	Only visited the edges of this stand as it is currently being flooded by beavers and very wet.																																														
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<b>33</b>	42330 - Upland Fir	Poletimber Well	6.3	68	111-140	N/A	This stand was excluded from the adjacent clearcut to the north, as requested by Fisheries Division. Mostly healthy and good quality spruce and fir. Old notes indicate there was a much higher aspen percentage at one time but beavers have been removing it throughout the years. The west half of the stand is a little elevated above the marsh, while portions of the east half dip down into wetter ground. Average ba/acre from 6 plots = 118 square feet.																																														
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<b>34</b>	4130 - Aspen	Sapling Well	39.8	5	Immature	N/A	Stand cut in winter of 2013-14, Kerfluffe Aspen, #53-004-11-01, bought by AJD and cut by Haskill, roundwood crew. Regeneration looks very good so far, stand is fully-stocked. Little tree species diversity other than quaking aspen and black cherry. Some of the cherry will likely become merchantable based on some cherry volume that was removed when the stand was cut. A few areas of white spruce regeneration closer to the swamp edge. There are a few browse impacts from elk but not very significant as of yet.																																														
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<b>35</b>	6220 - Alder/willow	Nonstocked	0.6		Unspecified	No																																															
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<b>36</b>	4130 - Aspen	Sawtimber Well	24.4	56	111-140	N/A	Excellent stand of nearly pure quaking aspen. Site quality is obviously good as most of the aspen appear healthy and there are a couple of enormous basswood. Spruce/fir component is mostly at the far western end. A large area of wet ground is present at the northeast corner and there are a few other areas of wet ground along the northern stand edge. Trace of sugar maple, ironwood, basswood, and paper birch. Average ba/acre from 13 plots = 118 square feet. Flat terrain. A little bit of blowdown along the edges from the high wind events of the past year.																																														
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37	6230 - Cattail	Nonstocked	1.4		Unspecified	No																																													
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38	4133 - Aspen, Mixed Pine	Poletimber Well	29.1	56	111-140	N/A	Moderate quality quaking aspen stand with pockets of excellent white pine regeneration mixed in. While the majority of the stand is dominated by quaking aspen and white pine, the far north/northeast portion in between the ROW and Tin Shanty Road transitions to more bigtooth aspen and is where most of the red maple, oak, and red pine are located. There is a small pocket of mostly dead jack pine in the interior, north of the east/west running road that splits the stand. Some pockets of wetter ground are located at the far southern end, this is where the spruce/fir component is located. Although rare, there are a couple legacy size white pine mixed in throughout. Average ba/acre from 23 plots = 111 square feet. Trace of balsam poplar, balsam fir, paper birch, sugar maple, and red oak. Terrain is mostly flat.																																												
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39	42110 - Planted Red Pine	Sawtimber Poor	7.4	90	1-50	N/A	Stand was harvested in the fall of 2015 in the sale Tin Shanty Bridge Pine, bought by Diversified and cut by Randy Nash. Quite a bit of scarification took place from the whole-tree skidding operation but not much regeneration other than aspen has shown up yet. The aspen is being heavily browsed by elk. Average ba/acre from 4 plots = 40 square feet. More white pine and a heavier residual in the thin southern part of the stand.																																												
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40	4130 - Aspen	Poletimber Well	8.3	36	81-110	N/A	Good looking young aspen stand with hardly any overstory diversity. Spruce/fir component is mostly along the south edge. Small pocket of white pine poletimber at the northeast corner. Trace of red pine and red oak. Average ba/acre from 5 plots = 90 square feet. Stand was harvested in 1983 in the sale Kinde Corner Aspen, #53-024-082-01, bought by George Kimball.																																												
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42	42200 - Natural White Pine	Sawtimber Well	1.9	90	171-200	N/A	Small stand of dense, high quality pine. Although rare, there are a few legacy size red pine and white pine mixed in. Average ba/acre from 4 plots = 195 square feet.																																									
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43	42200 - Natural White Pine	Sawtimber Well	15.2	90	111-140	N/A	Nice pine stand with some variability in diameters and stocking. A few small areas of very dense stocking, other areas are more open. The spruce/fir component is mostly at the far west end, there is also a small area of wet ground here on the north stand line, adjacent to stand 46 that was recently cut. Aspen component is declining with some large diameter wildlife trees. Old notes indicate a thinning took place here in 1975. A wildfire also took place in the east half of the stand, plow lines are still visible. A popular camping spot is in the middle of the stand. Average ba/acre from 11 plots = 128 square feet. No treatment this entry.																																									
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44	4130 - Aspen	Sapling Well	16.7	18	Immature	N/A	Healthy and densely-stocked aspen stand however there is basically no overstory diversity. The bigtooth component seems to be more common east of the right-of way. Trace of sugar maple and red oak in the overstory. A lot of cherry in the understory, most will be non-merchantable but there are a few nicer stems that look like they will be merchantable. White pine saplings are mostly along the edges of the stand. Small amount of residual hemlock along the western stand line.																																									
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45	6127 - Lowland Pine	Poletimber Medium	3.2	55	51-80	N/A	This is a forested leatherleaf bog that has filled in with primarily white pine.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
<b>46</b>	42290 - Natural Mixed Pine	Sawtimber Poor	20.6	83	1-50	N/A	Stand was cut in the fall of 2014 in the sale Tin Shanty Bridge Pine, bought by Diversified and cut by Randy Nash with his whole-tree crew. A lot of ground scarification took place through the whole-tree skidding process. Pine regeneration isn't showing up yet however. Some aspen has sprouted back but is being browsed hard. Diameters of the residual pine tend to vary quite a bit with some large diameter trees mixed in, more so along the western edge. Residual ba/acre from 8 plots = 31 square feet.  A small area of rutting took place at the far south end of the stand near the landing. This area was a part of the interior bog (stand #45) and should have been excluded from the harvest boundary. In addition, BMPs weren't followed for the interior bog as there was no buffer placed around it.																																																																
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<b>47</b>	4130 - Aspen	Poletimber Well	8.4	36	51-80	N/A	Good looking young aspen stand. Diameters on the quaking are still quite small. Scattered oak residual, tends to be a higher amount along the private line to the east. The maple component increases here as well. A few clumps of larger pine were left, most next to the road and the NW corner of the stand. Trace of red pine and beech residual as well as a few paper birch poletimber trees. Average ba/acre from 6 plots = 73 square feet.																																																																
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<b>48</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	7.0	91	111-140	N/A	Moderate quality hardwood stand with a lot of species diversity. Site quality declines somewhat in the north finger of the stand and transitions to more of a pine/aspen type. Some clumps of hemlock along the east and west edges. A few very large diameter white pine and red oak are present. There used to be some white ash in the stand but it is all dead from EAB. Average ba/acre from 8 plots = 129 square feet.																																																																
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<b>49</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	2.1	85	1-50	N/A	Poorly-stocked, low quality stand that is wet and borders Saunders Creek on the west stand line. Black spruce is mostly in the eastern third of the stand and the remainder is mostly small fir mixed in with larger cedar. There is a small north-south running upland strip adjacent to the creek at the west end which could be an old railroad grade. Trace of paper birch. Average ba/acre from 3 plots = 43 square feet.																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>50</b>	4113 - R.Maple, Conifer	Poletimber Medium	3.8	69	51-80	N/A	Stand was harvested while under private ownership. The northwest corner was not included and is the only area of good stocking and quality. There are a few very large red and white pine located here as well as a couple of hemlock. The remainder of the stand is sparsely stocked with an overstory of small red maple with some white pine mixed in. Average ba/acre from 5 plots = 70 square feet. Nice white pine regeneration, allow this to continue to fill in.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Oak		7	Log	12		White Pine		High	Variable	Sapling
White Pine		22	Log/Pole/XLog	11		Beech		Trace	Variable	Sapling
Red Maple		65	Pole	7	69	Witch Hazel		Low	5 - 10 feet	Tall Shrub
<b>51</b>	42200 - Natural White Pine	Sawtimber Well	22.1	68	111-140	N/A	Nice stand of primarily white pine that had all the aspen removed while under private ownership. A variety of sizes and ages of white pine are present including some very large legacy size trees. Red pine is more common north of the road. Following the harvest, aspen regenerated in only a few areas, mostly in the east half of the stand. High deer use as evidenced by the heavy browse on the red maple understory. Trace of paper birch and white spruce in the overstory. Average ba/acre from 15 plots = 119 square feet. Let the pine grow some more and consider thinning next entry.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		9	Pole/Log	8		White Pine		Medium	Variable	Sapling
Red Pine		17	Log/XLog	13	90	Bigtooth Aspen		Low	>20 feet	Sapling
White Pine		69	Log/Pole/XLog	12	68	Quaking Aspen		Low	>20 feet	Sapling
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						Balsam Fir		Trace	Variable	Sapling
						White Spruce		Trace	Variable	Sapling
						Witch Hazel		Trace	5 - 10 feet	Tall Shrub
<b>52</b>	42200 - Natural White Pine	Sawtimber Well	8.7	90	111-140	N/A	Nice stand of white pine with some large diameters present. Stand apparently had all aspen removed in 1990 while under private ownership. Areas of heavy browse in the understory although there are a few nice red oak saplings that have made it. Average ba/acre from 9 plots = 131 square feet. Did not find corner at the SW end of the stand. Manage this stand for big diameters and a long rotation due to the travel influence.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		7	Log/XLog	13		Red Maple		Medium	Variable	Sapling
Red Maple		13	Pole/Log	8		Beech		Medium	Variable	Sapling
White Pine		76	Log/Pole/XLog	13	90	Red Oak		Low	Variable	Sapling
						White Pine		Low	Variable	Sapling
						Black Cherry		Medium	Variable	Tall Shrub
						Serviceberry (Juneberry)	Trace	Variable	Tall Shrub	
<b>53</b>	4113 - R.Maple, Conifer	Poletimber Well	2.2	76	111-140	N/A	Small stand of moderate quality red maple. Near 50/50 mix of upland and lowland as there are several wet areas mixed in. Evidence of high deer use which is likely the reason for the mostly barren understory. Average ba/acre from 3 plots = 127 square feet.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		8	Pole	7		Beech		Low	Variable	Sapling
White Pine		13	Log/XLog	14		Black Cherry		Low	Variable	Tall Shrub
Red Maple		74	Pole/Log	9	76					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
54	6229 - Mixed lowland shrub	Nonstocked	5.3		Unspecified	No	Very thick shrub layer, difficult to get through.																																																				
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55	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	5.6	83	111-140	N/A	Treed bog with leatherleaf and sphagnum in the understory. Nice component of white pine. Diameters are a little bigger than the similar stand (#58) to the east. Average ba/acre from 4 plots = 125 square feet.																																																				
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56	4113 - R.Maple, Conifer	Poletimber Well	4.6	82	51-80	N/A	Stand is on an upland/lowland transition with the east/southeast edge becoming very wet. Red maple is moderate quality with mostly poletimber diameters at this point. Average ba/acre from 6 plots = 77 square feet.																																																				
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57	4133 - Aspen, Mixed Pine	Sapling Well	3.1	29	Immature	N/A	Stand was harvested while under private ownership. Aspen regenerated well. The south half of the stand is quite wet. A couple of red oak saplings made it to the overstory. Trace of tamarack.																																																				
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<b>58</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	15.2	62	51-80	N/A	Treed leatherleaf bog. Very nice representation of white pine. Diameters are small for the most part, except for the west end where they start to increase. Average ba/acre from 9 plots = 62 square feet. An old fence line runs N-S through the west end of the stand. Numerous deer trails crisscross throughout the stand.																																																		
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<b>59</b>	4319 - Mixed Upland Forest	Poletimber Well	3.2	81	81-110	N/A	Small mixed species stand that wasn't harvested when the adjacent stand to the east was while under private ownership. Not great stocking as some of the aspen and birch have naturally senesced. Majority of the black spruce is along the edges where the ground becomes wetter. Inclusion of pine at the east end. A few very large white pine are present. Average ba/acre from 4 plots = 108 square feet.																																																		
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<b>60</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	8.9	82	51-80	N/A	Moderate quality mixed species stand with some areas of poor stocking. Stand had all the aspen removed while under private ownership and some aspen did regenerate, more so in the east half of the stand. A few small wet pockets mixed in throughout and also along the edges. Similar to other stands in the area there is evidence of heavy deer use. Both species of spruce appear to be present. Average ba/acre from 9 plots = 67 square feet. Manage this stand when the aspen matures with the hopes of expanding that component.																																																		
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<b>61</b>	42340 - Upland Spruce/Fir	Poletimber Medium	2.7	43	51-80	N/A	Small upland island stand that has a lot of small fir with a supercanopy of larger white pine, spruce, and red maple. Stocking is not great in all places as some of the larger trees have fallen over, however the fir understory is thick and filling in. The stand is mostly upland except for along the edges. Average ba/acre from 5 plots = 64 square feet.																																																		
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<b>62</b>	6120 - Lowland Cedar	Poletimber Well	9.1	115	81-110	N/A	Poor-quality, declining cedar stand. Very wet. Thick understory makes it tough to get through. Trace of paper birch and red maple. Average ba/acre from 6 plots = 98 square feet.																																																		
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63	6229 - Mixed lowland shrub	Nonstocked	3.4		Unspecified	No	Very thick Holly in the west half, the east half transitions to more of a bog with more leatherleaf.
		<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
		Balsam Fir	Low	Variable	Sapling		
		Black Spruce	Low	Variable	Sapling		
		Red Maple	Low	Variable	Sapling		
		Tamarack	Trace	Variable	Sapling		
		Tag Alder	Low	5 - 10 feet	Tall Shrub		
		Michigan Holly	High	5 - 10 feet	Tall Shrub		
		Leatherleaf	Medium	< 5 feet	Tall Shrub		
64	4319 - Mixed Upland Forest	Poletimber Well	4.7	86	81-110	N/A	Stand under contract, Acapella Aspen Take 2, #53-010-16-01, bought by Precision.
		<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
		Balsam Fir	Medium	Variable	Sapling		
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Black Spruce	20	Pole/Log	8		
		Quaking Aspen	23	Log/Pole	11	86	
		Balsam Fir	30	Pole/Log	8	86	
		Red Maple	22	Log/Pole	10		
65	4113 - R.Maple, Conifer	Poletimber Well	10.1	82	51-80	N/A	Moderate quality red maple stand. Numerous wet potholes and drainages are mixed in throughout. Stand apparently had all of the aspen removed while under private ownership but there is no aspen regeneration present. Very high deer use in the stand, even the white pine is being browsed. A browse line is evident on the fir. Trace of cedar, hemlock, red oak, tamarack, and red pine. Average ba/acre from 8 plots = 78 square feet. An old road travels through the stand but is largely overgrown and barely visible in spots. No management at this time, let the red maple continue to grow. The high deer population should also be taken into account when considering any management.
		<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
		White Pine	Medium	Variable	Sapling		
		Black Spruce	Low	Variable	Sapling		
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		Balsam Fir	Low	Variable	Sapling		
		Red Oak	Trace	Variable	Sapling		
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		White Pine	12	Log/XLog	14		
		Black Spruce	7	Pole	7		
		Red Maple	70	Pole/Log	8	82	
66	6229 - Mixed lowland shrub	Nonstocked	5.0		Unspecified	No	Thick stand of alder and holly although there are a decent amount of saplings growing. The northern end becomes more bog-like and is where most of the spruce is growing.
		<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
		Red Maple	Medium	Variable	Sapling		
		Paper Birch	Low	Variable	Sapling		
		Tamarack	Trace	Variable	Sapling		
		White Pine	Low	Variable	Sapling		
		White Pine	Trace	>20 feet	Pole		
		Black Spruce	Medium	Variable	Sapling		
		Black Spruce	Low	>20 feet	Pole		
		Tag Alder	Medium	5 - 10 feet	Tall Shrub		
		Michigan Holly	High	5 - 10 feet	Tall Shrub		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
<b>67</b>	6122 - Black Spruce	Poletimber Well	3.6	83	81-110	N/A	Nice stand of black spruce with a large component of white pine, which is most prevalent in the middle part of the stand. Trace of paper birch. Average ba/acre from 7 plots = 107 square feet. The ground doesn't seem too wet except for along the western edge, where most of the Holly is located, and the far northern end which has some bog characteristics. However, this is difficult to tell with all of the snow on the ground at time of inventory.																																																				
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<b>68</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	3.7	82	1-50	N/A	Stand had all of the aspen removed in 1990 while under private ownership. The aspen regen is patchy and not uniform throughout. Overall this is not a well-stocked stand as the average ba/acre from 5 plots = 48 square feet. There used to be a larger component of paper birch but most of it has now died. Pockets of wet ground are present, mostly in the eastern half of the stand. High deer use in the area as most of the white pine regen has been browsed. Wait until the 2nd age class of aspen matures and then manage this stand for aspen.																																																				
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<b>69</b>	6122 - Black Spruce	Poletimber Well	10.7	81	81-110	N/A	Nice spruce stand although diameters vary considerably. The southern part of the stand tends to have much smaller diameters. A few areas of dry ground are present, mostly along the eastern and northern stand boundaries. The remainder of the stand appears to be a bog and has a leatherleaf understory. Basal areas are lower in the southwest and northeast portions of the stand. Average ba/acre from 9 plots = 94 square feet.																																																				
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<b>70</b>	6127 - Lowland Pine	Poletimber Poor	1.2	81	1-50	N/A	This is a leatherleaf bog that is filling in with trees. More of the white pine is in the north half of the stand with quite a bit of regen present. The south half has more of the spruce and tamarack. Average ba/acre from 4 plots = 38 square feet.																																																				
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<b>71</b>	4130 - Aspen	Poletimber Well	7.8	29	81-110	N/A	Fully-stocked aspen stand that was harvested in 1990 while still under private ownership. However it was not a complete clearcut as there are some larger aspen, hardwoods, and conifers mixed in throughout. Larger conifers are more common on the west side while the hardwoods are mostly clumped around the southern well pad. A few white ash poletimber trees still seem to be alive. A small wetland is present at the southeast corner near the well pad. Average ba/acre from 6 plots = 92 square feet.																																																				
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<b>72</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	10.3	90	81-110	N/A	Stand is currently under contract, #53-010-16-01, Acapella Aspen Take 2, bought by Precision.																																														
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<b>73</b>	4110 - Sugar Maple Association	Poletimber Well	4.2	91	111-140	N/A	Nice stand of hardwoods that was apparently thinned in 1990 while under private ownership. Trace of white pine. Average ba/acre from 5 plots = 116 square feet.																																														
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<b>74</b>	6120 - Lowland Cedar	Poletimber Well	25.4	126	111-140	N/A	Moderate to low quality cedar stand. Quality is best in the south half. Most of the cedar is healthy except for some localized areas of decline along the stand edges or near streams. Trace of red maple, hemlock, and quaking aspen. Average ba/acre from 7 plots = 137 square feet.																																														
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<b>75</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	11.4	105	51-80	N/A	Poorly-stocked swamp conifer stand with most of the cedar being dead or in decline. The middle part of the stand is heavier to spruce, with some large diameters present. A few pockets of ground in this area are a little drier than the rest of the stand. The southern end of the stand has more fir and most of the paper birch. Average ba/acre from 5 plots = 66 square feet. Two small streams pass through the stand, one at the north end and the other at the south end.																																														
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<b>76</b>	42340 - Upland Spruce/Fir	Poletimber Well	5.0	58	51-80	N/A	Upland island stand that has a lot of smaller fir mixed in with larger red maple, birch, and spruce. Good quality and stocking at the northeast part of the stand. The remainder has some areas of lower BA where some of the larger trees have died and smaller fir has filled in. Stand is mostly upland except for along the edges, which is where most of the cedar, black spruce, and tamarack can be found. Average ba/acre from 6 plots = 78 square feet.																																														
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77	6220 - Alder/willow	Nonstocked	56.0		Unspecified	No	Large alder stand, only visited a few areas while passing through on the way to other stands. There is an active beaver flooding on the south side of the upland island stand (#79) towards the north part of the stand. Several streams pass through the stand as well as the Black River at the south end.																																							
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78	4130 - Aspen	Sawtimber Well	4.3	86	81-110	N/A	Moderate quality aspen growing on a hardwood site. Some variation in diameters as there appears to be two age classes of aspen. Several larger aspen have significant amounts of decay and are good wildlife trees. Terrain slopes gently down to the east. There is a small seep/drainage complex in the middle of the stand, draining east down into stand #2. A few small ash are present throughout and appear to be hanging on. Average ba/acre from 5 plots = 100 square feet.																																							
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79	42340 - Upland Spruce/Fir	Poletimber Medium	1.8	48	1-50	N/A	Upland island. Moderate quality spruce and fir with a lot of small stems. Trace of quaking aspen, red pine, and paper birch. Average ba/acre from 4 plots = 35 square feet.																																							
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80	6120 - Lowland Cedar	Poletimber Medium	6.1	98	81-110	N/A	Poorly-stocked stand with a lot of old blowdown in the southern half. As a result, BAs are highly variable. The north half has some better quality and stocking and also has a small knob of upland closer to the river. One very large, old white pine on the northeast side of the stand. Trace of quaking aspen. Average ba/acre from 6 plots = 82 square feet.																																							
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<b>81</b>	4319 - Mixed Upland Forest	Sawtimber Well	27.5	63	51-80	N/A	Upland island stand that has a mix of species but is mostly dominated by aspen and fir. Quality is generally high for all species and there are some large diameter trees present. For the aspen it almost appears that there are two age classes as there some pockets of smaller poletimber trees. Many of the largest aspen are dead providing good snag habitat. Signs of old beaver activity are present along all edges of the stand. Heavy fir understory in many places. Spruce and white pine tend to be more common in the south half of the stand. Two small non-forested areas near the southwest corner of the stand closer to the river. Terrain is mostly flat and the majority of the stand is dry except for the far southern "bubble" of the stand which becomes a little wet. Trace of hemlock. Average ba/acre from 18 plots = 77 square feet. Very high deer use throughout and as a result there is virtually no deciduous species regeneration present, other than a few black cherry.																																														
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<b>82</b>	6233 - Wet Meadow	Nonstocked	42.1		Unspecified	No	Large wet meadow complex. The Black River and Saunders Creek, as well as a few tributaries, flow through the stand. A few areas of dead standing timber, mostly in the southwestern part. A decent size area (1-2 acres) in the middle of the stand, south of the island stand #87, is filling in with a lot of tamarack. This could potentially be mapped out separately next time.																																														
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<b>83</b>	6239 - Mixed Emergent Wetland	Nonstocked	6.6		Unspecified	No	Standing dead cedar throughout the stand. Two streams converge in the middle and it looks like they may have been dammed by beavers at one point, which flooded the stand and killed all the trees. The streams appear to be free-flowing now.																																														
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<b>84</b>	42340 - Upland Spruce/Fir	Sawtimber Medium	9.4	80	51-80	N/A	Unique stand in terms of it's landscape position, as it is surrounded on 3 sides by marshland. The stand itself is mostly upland with only a few wetter areas, mostly at the south end. Somewhat sporadic stocking. Variety of diameters on the fir. Some big diameter trees of all species are present. Old fire charred stumps scattered throughout. Trace of red pine. Average ba/acre from 7 plots = 57 square feet.																																														
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85	6220 - Alder/willow	Nonstocked	10.7		Unspecified	No	Thick alder stand. Saunders Creek passes through the stand as well as a tributary to Saunders Creek.																																																			
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86	6120 - Lowland Cedar	Poletimber Poor	2.9	105	1-50	N/A	Very poor-quality, wet stand. Most of the cedar is in decline. Average ba/acre from 4 plots = 33 square feet.																																																			
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87	42330 - Upland Fir	Poletimber Well	1.0	62	51-80	N/A	Nice stand of mixed conifers on an upland knob. The stand is mostly all dry except for the edges. Heavy deer use. Average ba/acre from 3 plots = 80 square feet.																																																			
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88	6120 - Lowland Cedar	Poletimber Poor	12.6	95	1-50	N/A	This stand used to have some good quality cedar but it is now mostly dead, likely a result of flooding from when the Black River was dammed by beavers a few years ago. The dam has since been removed. The healthy timber that remains is scattered infrequently throughout. Quite a bit of blowdown has taken place and alder has taken over much of the stand. Black ash used to be a moderate component of the stand but it is now all dead as well. Average ba/acre from 6 plots = 27 square feet. If the remaining cedar continues to die off, this stand should be coded as non-forested next entry.																																																			
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89	42320 - Upland Spruce	Poletimber Medium	4.3	60	51-80	N/A	Two-aged stand that must have had all the aspen cut out while still under private ownership. Pockets of aspen and BAM regen are mixed in throughout. The spruce is nice quality and healthy, although there are quite a few small diameter trees. Some areas of poor stocking closer to the swamp edge, I'm guessing beavers removed the aspen regen in these areas. A few pockets of wet ground mixed in. Average ba/acre from 7 plots = 63 square feet.																																																			
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90	3105 - Mixed Upland Herbaceous	Nonstocked	2.2		Unspecified	No	Old Thies hunting camp was located at the north end of stand. Demolished in 2013 upon State acquisition of the property.																																																				
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91	6124 - Lowland Spruce-Fir	Poletimber Medium	5.6	79	1-50	N/A	Poorly-stocked stand with both species of spruce present. White spruce is more prevalent at the south end where there is a small upland inclusion. Black spruce and fir become more common in the north half. Most of the cedar is in decline. There used to be a large component of black ash but that is now all dead from EAB. Dead standing timber of all species along the eastern stand boundary which borders the Black River. This is likely a result of flooding from beaver dams downstream. Trace of yellow birch and balsam poplar. Average ba/acre from 6 plots = 48 square feet.																																																				
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92	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	2.7	85	81-110	N/A	Unique stand in that although the ground is mostly wet it sits at a much higher elevation than the adjacent Q stand to the east (stand 49). Saunders Creek borders the stand to the east and is in somewhat of a ravine. Seeps are present in the southeast portion of the stand and drain down into Saunders Creek. Most trees display good growth and are high quality although there is quite a bit of tamarack mortality, likely from the eastern larch beetle. Trace of American elm and quaking aspen. Average ba/acre from 5 plots = 102 square feet. No management due to sensitive soils and seeps.																																																				
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93	320 - Upland Shrub	Nonstocked	8.4		Unspecified	No	Natural opening, no evidence of recent harvests.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
94	6220 - Alder/willow	Nonstocked	9.0	0	Unspecified	No	This used to be a stand dominated by black ash but EAB has killed them all. Now there is a thick layer of tag alder with scattered trees. Cedar is mostly at the south end and is in decline.					
								Canopy Species	Density	Avg. Height	Size	
								Northern White Cedar	Low	>20 feet	Log	
								Red Maple	Trace	>20 feet	Log	
								Quaking Aspen	Trace	>20 feet	Log	
								Balsam Fir	Medium	Variable	Sapling	
								Balsam Fir	Low	>20 feet	Pole	
								Black Spruce	Trace	Variable	Sapling	
								White Spruce	Trace	Variable	Sapling	
								Balsam Poplar	Low	Variable	Sapling	
								Quaking Aspen	Trace	Variable	Sapling	
								Black Spruce	Trace	>20 feet	Pole	
								Black Cherry	Low	Variable	Tall Shrub	
								Tag Alder	Full	5 - 10 feet	Tall Shrub	
American Elm	Trace	>20 feet	Pole									
95	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Medium	1.9	97	81-110	N/A	Mostly an upland stand except for along the edges. The cedar and spruce are nice quality. The aspen may have been cut out of this stand at the same time as surrounding stands based on a few clones of regeneration at the southwest side. Heavy deer use which has resulted in a lack of understory development. Trace of paper birch, yellow birch, and white pine. Average ba/acre from 5 plots = 94 square feet.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	23	Log	12	
								Balsam Fir	6	Pole	7	
								White Spruce	19	Log/Pole	10	
								Northern White Cedar	50	Log/Pole	11	97
								Canopy Species	Density	Avg. Height	Size	
								White Spruce	Low	Variable	Sapling	
								Balsam Fir	Low	Variable	Sapling	
								Balsam Poplar	Trace	Variable	Sapling	
Quaking Aspen	Trace	Variable	Sapling									
96	4130 - Aspen	Sapling Well	16.1	19	Immature	N/A	Stand was harvested while under private ownership and it looks like they cut all aspen and left everything else. Aspen regenerated well with the exception of the far northeast side which has had some damage from elk browse. Some scattered non-forested wetlands are mixed in throughout. Trace of residual red pine, white pine, white spruce, basswood, and tamarack in the overstory.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	70	Sapling	2	19
								Balsam Fir	9	Pole/Sap/Log	7	
								Balsam Poplar	12	Sapling	3	
								Canopy Species	Density	Avg. Height	Size	
								Balsam Fir	Low	Variable	Sapling	
								Black Cherry	Medium	Variable	Tall Shrub	
								Tag Alder	Trace	5 - 10 feet	Tall Shrub	
								Michigan Holly	Trace	5 - 10 feet	Tall Shrub	
White Pine	Trace	Variable	Sapling									
Red Pine	Trace	Variable	Sapling									
Black Spruce	Trace	Variable	Sapling									
97	3105 - Mixed Upland Herbaceous	Nonstocked	3.9		Unspecified	No	There is an active gas well here.					
								Canopy Species	Density	Avg. Height	Size	
								Mixed Grasses	Full		Non-Wood	
Spotted Knapweed	Medium		Non-Wood									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**98**      6220 - Alder/willow      Nonstocked      1.0           Unspecified      No      There used to be some black ash in this stand but it is now all dead from EAB.

Canopy Species	Density	Avg. Height	Size
Tag Alder	Full	5 - 10 feet	Tall Shrub
Willow spp.	Trace	Variable	Tall Shrub
Quaking Aspen	Trace	Variable	Sapling
Balsam Poplar	Trace	Variable	Sapling
American Elm	Trace	Variable	Sapling
Balsam Fir	Trace	Variable	Sapling
Red Maple	Trace	Variable	Sapling
Balsam Fir	Trace	>20 feet	Pole
Black Spruce	Trace	>20 feet	Pole
Northern White Cedar	Trace	>20 feet	Pole
Northern White Cedar	Trace	>20 feet	Log

**99**      4134 - Aspen, Spruce/Fir      Sapling Well      30.6      19      51-80      N/A      This stand was harvested while under private ownership and it looks like they removed all aspen and left everything else. The residual averages about 50 square feet and is primarily fir, although there are a few areas with quite a bit of red maple. A couple clumps of dense fir are present, one at the southeast end of the stand is several acres in size and could probably be mapped out on its own. Overall, aspen regen looks good with minimal browse impacts and is only absent in those areas with a higher residual BA. A couple of small wetland inclusions are mixed in throughout. Terrain is mostly flat to gently rolling. Trace of sugar maple and white pine sawtimber-sized trees as well as a few black spruce of poletimber size.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	7	Log	14	
Quaking Aspen	52	Sapling	2	19
Balsam Fir	29	Pole/Sap/Log	7	56

Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Black Cherry	Medium	Variable	Tall Shrub

**100**      3105 - Mixed Upland Herbaceous      Nonstocked      8.1           Unspecified      No      An active gas well is in the west finger of the stand. Some portions of the east half of the stand resemble a U type.

Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	Variable	Sapling
White Pine	Trace	Variable	Sapling
Mixed Grasses	Full		Non-Wood
Cladonia (Reindeer moss)	Low		Non-Wood
Balsam Fir	Trace	>20 feet	Pole
Balsam Fir	Low	Variable	Sapling
White Spruce	Trace	Variable	Sapling
Red Pine	Trace	Variable	Sapling
White Spruce	Trace	>20 feet	Pole
Basswood	Trace	>20 feet	Log
Red Maple	Trace	>20 feet	Log
Black Cherry	Low	Variable	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
<b>101</b>	4130 - Aspen	Sapling Poor	1.5	12	1-50	N/A	Not sure when this stand was harvested since it was only recently acquired by the State. Evidence of heavy browse as there are a lot of dead aspen stems. Heavy cherry component, if browse continues this will be a U stand.																																				
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<b>102</b>	4130 - Aspen	Sapling Well	3.8	19	Immature	N/A	Stand was cut while under private ownership but after the 98DOQ's were taken so age is an estimate. Aspen regeneration looks good. Small wetland inclusion in the south end. Included some black cherry in the overstory as it looks like a few will be merchantable.																																				
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<b>103</b>	4130 - Aspen	Sapling Well	8.4	19	Immature	N/A	Stand was cut while under private ownership and regenerated well to nearly pure aspen. Not much diversity at all in this stand, in either the overstory or understory. Balsam fir and a few residual hardwoods were left. The fir tends to be in clumps. A few black cherry stems look like they will become merchantable. Trace of basswood and white spruce residual in the overstory.																																				
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<b>104</b>	3205 - Mixed Upland Shrub	Nonstocked	1.6		Unspecified	No	<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Mixed Grasses</td> <td>Full</td> <td></td> <td>Non-Wood</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Autumn Olive</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Scotch Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Basswood</td> <td>Trace</td> <td>&gt;20 feet</td> <td>Log</td> </tr> </tbody> </table>	Canopy Species	Density	Avg. Height	Size	Mixed Grasses	Full		Non-Wood	Black Cherry	Medium	Variable	Tall Shrub	Autumn Olive	Trace	5 - 10 feet	Tall Shrub	Balsam Fir	Low	Variable	Sapling	Black Spruce	Trace	Variable	Sapling	Red Pine	Trace	Variable	Sapling	Scotch Pine	Trace	Variable	Sapling	Basswood	Trace	>20 feet	Log
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<b>106</b>	42330 - Upland Fir	Poletimber Well	4.8	56	51-80	N/A	Stand had most of the aspen removed while under private ownership. This took place mostly in the northern half of the stand. The remainder has some nice patches of fir. A small hardwood component is mixed in as there are areas of better site quality in the stand. Some of the younger white ash is still alive at this point. A small wet depression is present along the western edge with a couple of cedar along the edges. Average ba/acre from 7 plots = 70 square feet. Somewhat unique stand, manage with the surrounding aspen stand (#99) when it becomes mature.																																																			
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<b>108</b>	6229 - Mixed lowland shrub	Nonstocked	1.2		Unspecified	No	Dense lowland shrub stand. Some clumps of cedar are present. Stand is connected to the small northern finger via a small channel.																																																			
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<b>109</b>	6120 - Lowland Cedar	Poletimber Well	36.0	108	111-140	N/A	-Pockets of nice cedar in this stand, mostly at the north and south ends. The central part of the stand becomes less productive with more black spruce and a heavier sphagnum understory. There is a small upland island at the north end, this is where most of the aspen is located.-A permanent stream flows north through the stand.																																																			
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<b>110</b>	4130 - Aspen	Sapling Well	10.1	19	Immature	N/A	Stand was harvested while under private ownership. Regeneration looks good, although there is not much in the way of diversity. Heavy deer browse in the understory. A few scattered lowland pockets. Trace of sugar maple sawlog trees, black spruce poletimber, and American elm saplings.																																																			
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<b>111</b>	4119 - Mixed Northern Hardwoods	Sawtimber Medium	1.9	85	51-80	N/A	Mixed species stand that is about a 50/50 upland/lowland mix. More wet ground is present north of the road. A lot of small ash is in the stand but due to the time of year it's difficult to tell how much is still alive, it looks like quite a bit is trying to hang on. A lot of cherry on the south side of the road, some may become merchantable. Average ba/acre from 4 plots = 73 square feet.																																								
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<b>112</b>	6233 - Wet Meadow	Nonstocked	8.7		Unspecified	No	Old beaver pond that is now dry.																																								
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<b>113</b>	6220 - Alder/willow	Nonstocked	4.8		Unspecified	No	A stream passes through this stand lengthwise and it looks like it has been dammed by beavers in the middle area of the stand. Not sure if active or not, did not see any recent signs of tree felling.																																								
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<b>114</b>	6112 - Lowland Aspen	Sapling Medium	2.5	21	Immature	N/A	Stand was harvested while under private ownership. Looks like it was cut prior to the 98DOQ imagery. Stand is a mix of upland and lowland with pockets of both wet and dry non-forested areas. The stand gradually slopes down to the east. Trace of paper birch. It appears that a stream originates in the northwest corner of the stand.																																								
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<b>115</b>	6121 - Tamarack	Sawtimber Medium	17.2	69	81-110	N/A	Somewhat unique lowland stand that sits on a slight east-facing slope. Numerous seeps originate within the stand, draining down into the adjacent wetland stands. A few of the wettest areas are non-forested, with mostly cattails growing in them. The tamarack component is heavier in the lower, eastern half of the stand. The western half has most of the cedar as well as some scattered clumps of lowland hardwoods. The cedar along the western edge is healthy but there are pockets of declining trees in the wettest areas of the interior. The far southern end has a 1-2 acre pocket of mixed softwoods and hardwoods and has some upland mixed in, this could be mapped out as a separate stand next time. Average ba/acre from 11 plots = 84 square feet.																																																										
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<b>116</b>	3105 - Mixed Upland Herbaceous	Nonstocked	33.6		Unspecified	No	Small active well site in the middle.																																																										
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<b>117</b>	4110 - Sugar Maple Association	Sawtimber Well	11.3	104	81-110	N/A	Nice hardwood stand with some big diameters, especially in the south half which has a higher BA. The north half of the stand looks like it had a partial harvest at some point as BAs are lower and there are pockets of advanced ironwood and white ash regeneration that look like old canopy gaps. Some of the younger poletimber-size ash still appears to be alive. Trace of American elm, yellow birch, hemlock, and bigtooth aspen. Average ba/acre from 9 plots = 108 square feet.																																																										
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<b>118</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	14.2	19	Immature	N/A	This stand was harvested while under private ownership and while the exact date of harvest is unknown, it was likely only a few years after the 98DOQ imagery as it shows that the stand hadn't yet been cut. Aspen regenerated well throughout most of the stand and everything was cut except for some scattered residual hardwoods and clumps of fir. Ash regenerated well although it is difficult to tell how much of it is still alive at this point. Trace amount of cedar and yellow birch in the residual. Most of the stand sits on a slight east-facing slope and there appears to be a few seasonal drainages that go down into the adjacent lowland stands. One of these at the south end is a seep, adjacent to the cedar stand (#109), and forms a small stream. A small non-forested opening is present near the south end of the stand.																																																										
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<b>119</b>	3205 - Mixed Upland Shrub	Nonstocked	1.2		Unspecified	No	<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Poplar</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Mixed Grasses</td> <td>High</td> <td></td> <td>Non-Wood</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Quaking Aspen</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Trace</td> <td>&gt;20 feet</td> <td>Log</td> </tr> <tr> <td>Serviceberry (Juneberry)</td> <td>Trace</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Autumn Olive</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>	Canopy Species	Density	Avg. Height	Size	Balsam Poplar	Trace	Variable	Sapling	Mixed Grasses	High		Non-Wood	Black Cherry	Medium	Variable	Tall Shrub	Quaking Aspen	Trace	Variable	Sapling	Sugar Maple	Trace	>20 feet	Log	Serviceberry (Juneberry)	Trace	Variable	Tall Shrub	Autumn Olive	Low	< 5 feet	Tall Shrub																										
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<b>120</b>	42200 - Natural White Pine	Sawtimber Well	3.1	82	81-110	N/A	Nice white pine stand with a lot of small diameters. All aspen and red maple were removed from this stand while under private ownership. Trace of balsam fir, white spruce, and red pine in the overstory. Average ba/acre from 4 plots = 90 square feet. Areas of very heavy browse in the understory, even on the white pine and black cherry.																																																		
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<b>121</b>	42200 - Natural White Pine	Sawtimber Poor	13.8	77	1-50	N/A	This stand had all of the aspen, hardwoods, and largest pine removed while under private ownership. As a result, residual BAs tend to vary considerably. The half of the stand north and east of the well pad has a much lower BA and has most of the aspen regeneration. The remainder of the stand has a higher BA of residual white pine and also has a few clumps of dense white pine regeneration. There is a small pocket of wet ground with a few cedar at the northeast corner. Some areas of very heavy browse scattered throughout. Average ba/acre of the residual equals 41 square feet from 7 plots.																																																		
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<b>122</b>	429 - Mixed Upland Conifers	Poletimber Medium	6.5	60	81-110	N/A	Moderate quality mixed conifer stand with a lot of small diameters. This stand had a partial harvest while under private ownership and it looks like they removed most aspen and hardwoods. However, there are a few pockets that were missed, particularly in the southwest corner. Average ba/acre from 7 plots = 91 square feet.																																																		
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<b>123</b>	3105 - Mixed Upland Herbaceous	Nonstocked	1.0		Unspecified	No	Gas well																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**124** 6132 - Mixed Lowland Forest with Cedar Poletimber Poor 4.8 75 1-50 N/A Most of the stand is very wet with low stocking. Used to be a lot of black ash but all of it is dead from EAB. Aspen mostly in the far west end.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	13	Log/Pole	10	
Quaking Aspen	21	Pole	6	
Balsam Poplar	9	Pole	7	
Balsam Fir	14	Pole/Sapling	6	
Northern White Cedar	38	Pole/Log	9	75

Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Tag Alder	Full	5 - 10 feet	Tall Shrub

**125** 42290 - Natural Mixed Pine Sawtimber Medium 4.9 85 51-80 N/A Stand sits on a small east-west running ridge that is slightly elevated compared to the surrounding lowland stands. West end of the stand is much more open with most of the trees along the edges. Small inclusion of pure red pine near the middle of the stand, there is a large stick nest in this area. Small red maple and aspen pocket at the far east end. Trace of paper birch and red oak. Average ba/acre from 6 plots = 77 square feet.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	6	Pole	7	
White Pine	58	Log/XLog/Pole	14	85
Red Pine	28	Log	12	85

Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
White Pine	Medium	Variable	Sapling
Black Spruce	Low	Variable	Sapling

Stand was formerly split by multiple private ownerships and there is still an old fenceline running east-west through the stand as well as old posts running south to the corner. Did not find the corner however. An old deer blind is still on site in the red pine inclusion.

**126** 6120 - Lowland Cedar Poletimber Medium 7.7 103 81-110 N/A -Very wet stand, declining cedar.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	7	Pole/Log	8	
Balsam Fir	9	Pole/Sapling	7	
Northern White Cedar	81	Pole/Log	8	103

Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Tag Alder	Medium	Variable	Tall Shrub

**127** 6229 - Mixed lowland shrub Nonstocked 0.7 0 Unspecified No Heavy deer browse on the holly and willow.

Canopy Species	Density	Avg. Height	Size
Red Maple	Trace	>20 feet	Log
Paper Birch	Trace	>20 feet	Log
Balsam Fir	Trace	>20 feet	Pole
Balsam Fir	Low	Variable	Sapling
Quaking Aspen	Trace	Variable	Sapling
American Elm	Trace	Variable	Sapling
Cattail spp.	Low	Unspecified	Non-Wood
Willow spp.	Low	Variable	Tall Shrub
Michigan Holly	Medium	5 - 10 feet	Tall Shrub
Tag Alder	High	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**128** 6229 - Mixed lowland shrub Nonstocked 0.8 0 Unspecified No

Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	Log
Red Maple	Low	>20 feet	Pole
Red Maple	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Tamarack	Trace	Variable	Sapling
Black Spruce	Trace	Variable	Sapling
Paper Birch	Trace	Variable	Sapling
Cattail spp.	Medium	Unspecified	Non-Wood
Michigan Holly	High	5 - 10 feet	Tall Shrub
Northern White Cedar	Trace	>20 feet	Log

**129** 310 - Herbaceous Openland Nonstocked 1.0 0 Unspecified No Pipeline ROW

**130** 6129 - Mixed Coniferous Lowland Forest Poletimber Poor 18.1 109 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole/Sapling	6	
White Spruce	6	Pole/Log	8	
Balsam Fir	33	Pole/Sapling	5	
Northern White Cedar	47	Pole/Log	8	109

Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Paper Birch	Trace	Variable	Sapling
Balsam Poplar	Trace	Variable	Sapling
Red Maple	Trace	Variable	Sapling
White Spruce	Trace	Variable	Sapling
Tag Alder	Full	5 - 10 feet	Tall Shrub

Very poor-quality stand that is being flooded by adjacent beaver activity to the north along the Black River. A lot of the cedar has died and blown over. That, along with the tag alder and water, make this a very difficult stand to get through. A lot of young fir is present and if the cedar continues to die this will eventually be a fir stand. The healthiest patches of timber are along the western stand boundary where the flooding isn't quite as bad and these areas include a component of paper birch. The far eastern end has somewhat different characteristics as the ground becomes a little drier and there are some nice patches of balsam poplar and red maple regeneration. Trace of elm throughout. Average ba/acre from 8 plots = 43 square feet. Probably no reason to revisit this stand for quite some time.

**131** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 2.1 98 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	9	Pole	8	
Balsam Fir	25	Pole/Sapling	5	

Canopy Species	Density	Avg. Height	Size
Balsam Fir	Full	Variable	Sapling
Black Spruce	Trace	Variable	Sapling

Upland island stand that sits on a small knob and slopes gently down to lower ground on all sides. The interior is well-stocked with some decent quality red maple. BAs decrease a little around the edges and have more of the conifer component. Dense understory of fir. Average ba/acre from 4 plots = 78 square feet.

**132** 6121 - Tamarack Poletimber Medium 4.8 62 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	10	Pole/Log	8	
Black Spruce	25	Pole	6	
Tamarack	62	Pole/Log	8	62

Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Michigan Holly	High	5 - 10 feet	Tall Shrub
Tag Alder	Medium	5 - 10 feet	Tall Shrub

Very wet stand with a thick understory of mixed shrubs. Different character than the stand to the north as this does not have bog indicator species in the understory, rather more sedge and grass in addition to the holly and alder. Variable stocking, many areas are closed to non-forested. Small bubble of mostly cedar the southwest end. Average ba/acre from 4 plots = 75 square feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
<b>133</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	1.1	82	81-110	N/A	Small strip of a stand that is dominated by moderate quality red maple. North half of the stand has more sawtimber while the south half has more red maple poletimber mixed in. Wet ground along the edge adjacent to the lowland shrub stand. Average ba/acre from 5 plots = 86 square feet.																																					
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<b>134</b>	4319 - Mixed Upland Forest	Sawtimber Well	1.3	82	81-110	N/A	Small upland island stand separated from stand 60 and I don't think it had a partial harvest while under private ownership like the rest of the upland stands. Cedar is mostly on the edges but there are a few in the interior. Average ba/acre from 3 plots = 83 square feet.																																					
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<b>135</b>	310 - Herbaceous Openland	Nonstocked	0.7		Unspecified	No	High deer population in the area, there is a browse line on the white pine regen. This stand is not currently maintained as a food plot.																																					
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<b>136</b>	320 - Upland Shrub	Nonstocked	0.7		Unspecified	No	High deer population in the area, there is a browse line on the white pine.																																					
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<b>137</b>	4130 - Aspen	Poletimber Well	1.4	35	51-80	N/A	Stand was put up for sale in Spruce Budworm Jungle, #53-011-82-01, but was never cut by the purchaser A-E Wood Products. Instead, WLD cut the stand with KG blades in 1984. Aspen regenerated well and is just reaching merchantability. Average ba/acre from 3 plots = 70 square feet.																																					
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<b>138</b>	6239 - Mixed Emergent Wetland	Nonstocked	1.0		Unspecified	No	Active well pad that is also essentially a wetland. Ward Lake Energy, Surnow D3-22. It looks like they dug this site out as there are mounds of soil that form a ring around the pad.																																					
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139	122 - Road/Parking Lot	Nonstocked	0.7	0	Unspecified	No	Sparr Road																																																
140	42330 - Upland Fir	Poletimber Well	3.6	45	51-80	N/A	Balsam fir dominated stand that sits on a dry ridge. Mostly well-stocked except for a few areas of lower BA closer to the western edge. I don't think that this stand had an aspen removal harvest when the adjacent stands to the east were cut while under private ownership. Rather I'm betting that beavers removed the aspen component when stand 112 to the west was being flooded (see 98DOQ imagery). Trace of cedar, paper birch, and tamarack. Average ba/acre from 6 plots = 68 square feet.																																																
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141	310 - Herbaceous Openland	Nonstocked	0.9	0	Unspecified	No	Cleared right of way for Sparr Road.																																																
142	4130 - Aspen	Sawtimber Medium	4.4	81	51-80	N/A	Moderate quality aspen stand sitting on mostly dry soils. There is a seep on the western side which drains down into the small stream which borders the southern edge of the stand. Terrain gently slopes down to the east. A few ash appear to be alive. Average ba/acre from 7 plots = 64 square feet. BAs tend to be lower in the southeastern half of the stand which I'm guessing is a result of beavers removing some trees over the years.  A two-story permanent blind is present in the middle of the stand. A small ORV trail seems to have been cut through the stand as well, heading north to the house on private property, although this is difficult to tell with all of the snow on the ground. There is also a tree stand at the north end of the stand.																																																
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143	6112 - Lowland Aspen	Sapling Well	8.4	35	81-110	N/A	Stand was put up for sale in Spruce Budworm Jungle, #53-011-82-01, but was never cut by the purchaser A-E Wood Products. Instead, WLD cut the stand with KG blades in 1984. This stand regenerated well to aspen and is just approaching merchantability. There is some variety in diameters as the aspen does not appear to be doing well in all areas of the stand. Ground is mostly lowland but not overly wet. A species of willow is present, not sure which one, that has some stems of merchantable form.																																																
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144	6130 - Fir, Aspen, Maple	Sawtimber Medium	1.3	81	51-80	N/A	Stand is about a 50/50 mix between upland and lowland. The west half is an upland island, the majority of the east half is lowland. A small stream flows through the middle with some signs of old beaver activity. Trace of hemlock and sugar maple. Average ba/acre from 5 plots = 62 square feet.																																																
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<b>145</b>	6122 - Black Spruce	Poletimber Well	3.1	73	51-80	N/A	Nice black spruce stand although there are some areas of small diameter trees. Somewhat unique characteristic of the stand is that there are scattered large diameter quaking aspen mixed in. Average ba/acre from 4 plots = 60 square feet.			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Spruce		75	Pole/Sap/Log	7	73	Balsam Fir		Medium	Variable	Sapling
Northern White Cedar		8	Pole/Log	8		Tag Alder		Low	5 - 10 feet	Tall Shrub
Quaking Aspen		13	Log	13						
<b>401</b>	310 - Herbaceous Openland	Nonstocked	5.6		Unspecified	Managed Opening	Wildlife opening, not sure when it was last planted. Quite a bit of knapweed is present.			
<b>Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>						
Black Cherry		Trace	Variable	Tall Shrub						
Spotted Knapweed		High	Unspecified	Non-Wood						