



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53057

Entry Year 2024

Acreage: 1,853

County Otsego

Management Area: Pigeon River Country

Stand Examiner: Jake Halabut

Legal Description:

T32N - R02W Sections 19, 20, 21, 22 and 29

Identified Planning Goals:

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

Soil and topography:

In general the topography is flat or gently rolling. With a few minor exceptions, the only steep terrain is located on the east valley slopes of the Sturgeon River. Upland soils are dominated by Rubicon sands, Blue Lake loamy sands, Lindquist sands, and Leelanau loamy sands, respectively. Tawas-Lupton much is the primary organic soil along the Sturgeon River watercourse.

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

No private in-holdings, however, the compartment does adjoin privately owned land along many of the exterior boundaries.

Unique Natural Features:

none identified.

Archeological, Historical, and Cultural Features:

This entire compartment was purchased in `980 from McClouth Steel.

Special Management Designations or Considerations:

The entire compartment is closed to all public motorized vehicle use, including snowmobiles. Areas ling within Sturgeon River valley corridor have been designated as a Special Conservation Area (SCA).

Watershed and Fisheries Considerations:

The Sturgeon River flows through section 21. A small tributary of the Sturgeon Rlver flows along the southern border of section 20. There are some signs of beaver activity along both of these streams.

Wildlife Habitat Considerations:

This compartment is primarily upland with blocks of northern hardwood, aspen, oak, mixed conifer, and upland brush. The Sturgeon River runs through the compartment with a stand of mixed swamp conifer adjacent to it. The oak on the east side of the river is part of the long ridge of oak that will be maintained by management prescriptions. A relatively large (over 200 acres) are is prescribed to be burned to help promote oak regeneration, maintain the upland brush type, and increase growth of some lower quality aspen that will be clearcut. Other stands of aspen will be clearcut to maintain the type and provide early successional habitat. Openings will be maintained using farming practices.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-texture glacial till and glacial outwash sand and gravel, and postglacial alluvium. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Devonian Antrim Shale, quarried for clay/shale and cement products elsewhere in the State. The nearest gravel pit is one-half mile to the south, and potential is considered good on the upland areas. The Antrim Shale has been developed around this compartment and some of the State and is leased and in production. The Guelph (Niagaran) reef trend produces the southeast and potential is minimal. There is oil and gas potential for known producing formations in this compartment.

Vehicle Access:

No public motorized vehicle use is permitted within the compartment.

Survey Needs:

None required

Recreational Facilities and Opportunities:

Parking areas for the public are maintained off of Fontinalis Road and Sturgeon Valley Road. Cross-country ski

enthusiasts use many of the closed trail roads in the winter.

Fire Protection:

Fire potential in this compartment is low as current fuel types do not pose a severe wildfire threat. Gated service roads provide good access for fire suppression.

Additional Compartment Information:

Beech bark disease (BBD) has been found in most stands inventoried, with some rapid deterioration of beech observed. Ash is a rare tree species throughout this compartment; however, stand 78 has a small amount of black ash which has been killed by emerald ash borer (EAB).

The following reports from the Inventory are attached:

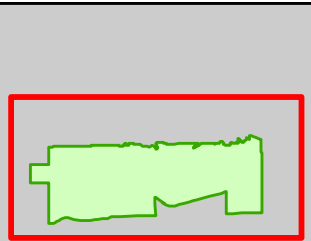
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

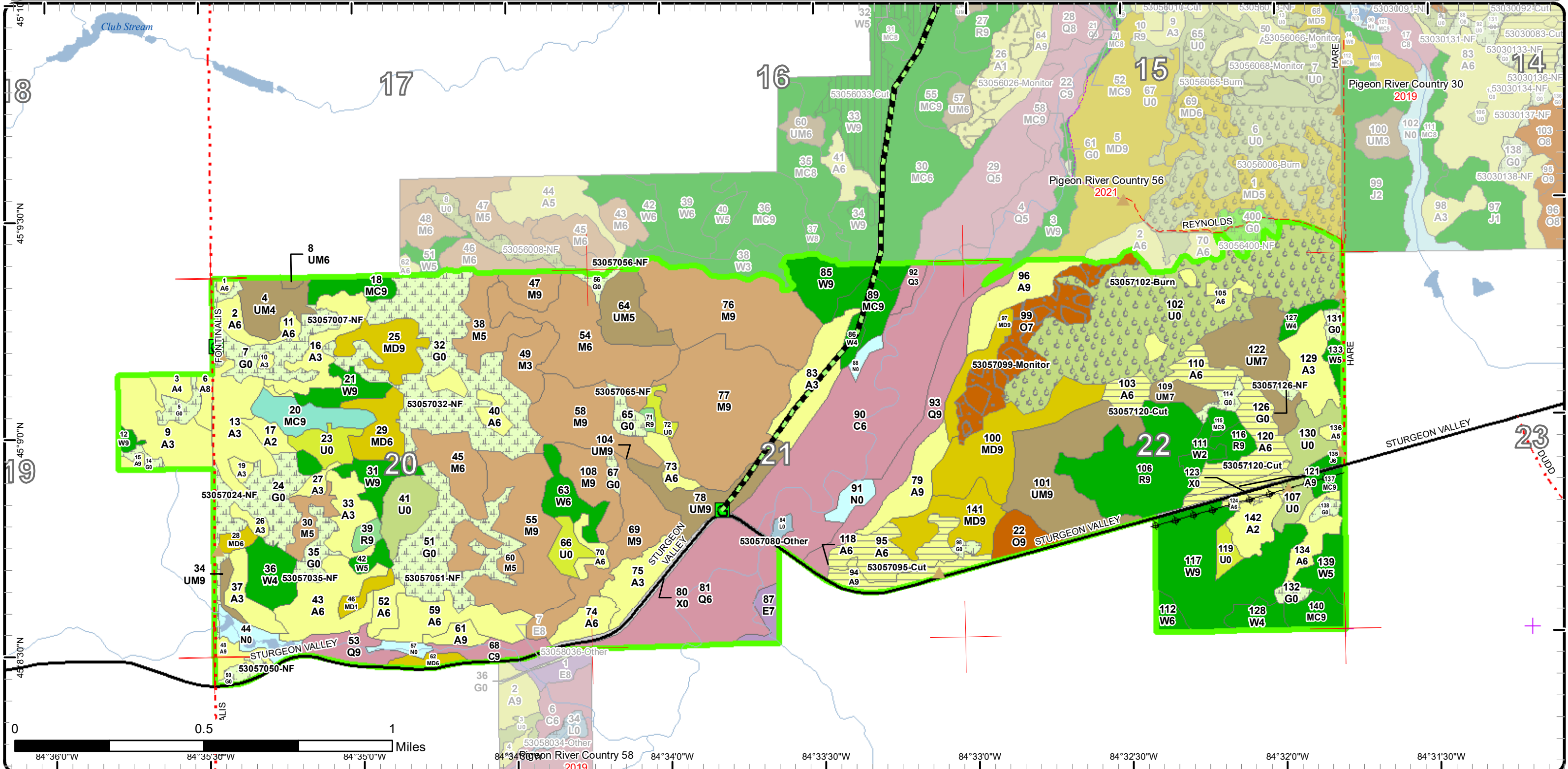
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 57
 T32N, R02W, Sec: 20, 21, 22
 County: Otsego
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2024
 Acres: 1852.6 GIS Calculated
 Examiner: Jake Halabut
 Map Revised: 6/17/2022
 Map Phase: Web-Post

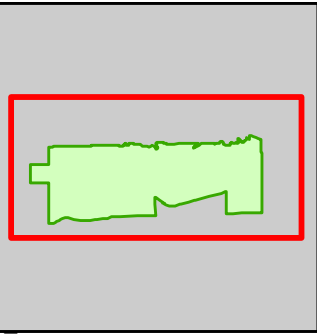


- Miris Corners
- Remonumented Section Corners
- Counties
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Non-DNR Trails - User Created
- Berms
- Gate
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Non-Designated Recreational Trail
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Prescribed Burn
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

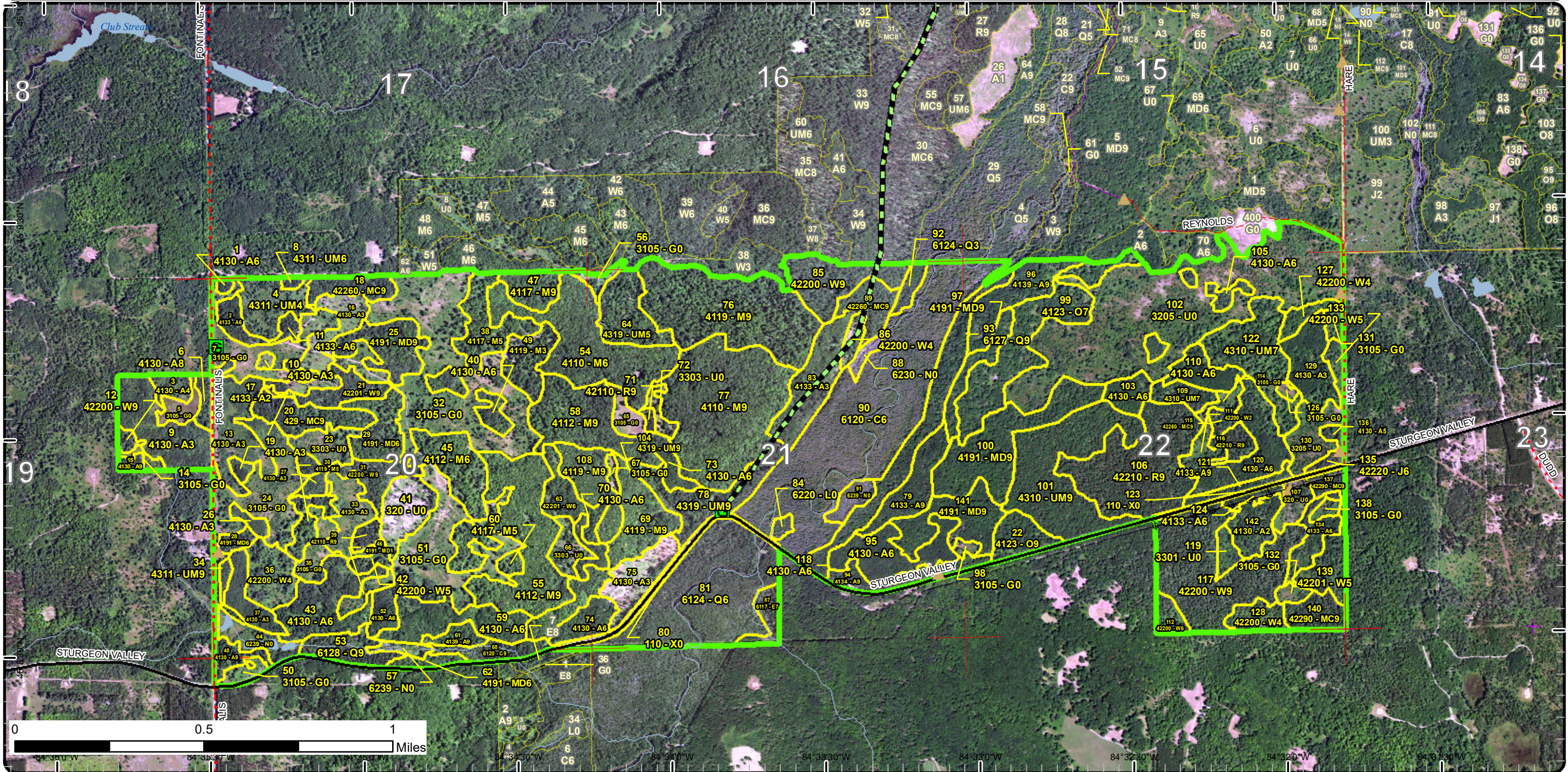


Stand Boundary Map

Compartment: 57
 T32N, R02W, Sec: 20, 21, 22
 County: Otsego
 Unit: Pigeon River Country
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 YOE: 2024
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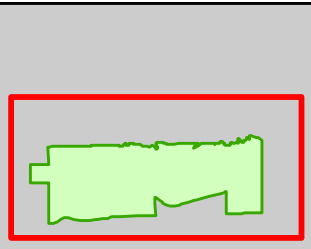


- Miris Corners
- + Remonumented Section Corners
- Counties
- Federal / State / County - Paved Road
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- Stand Boundaries
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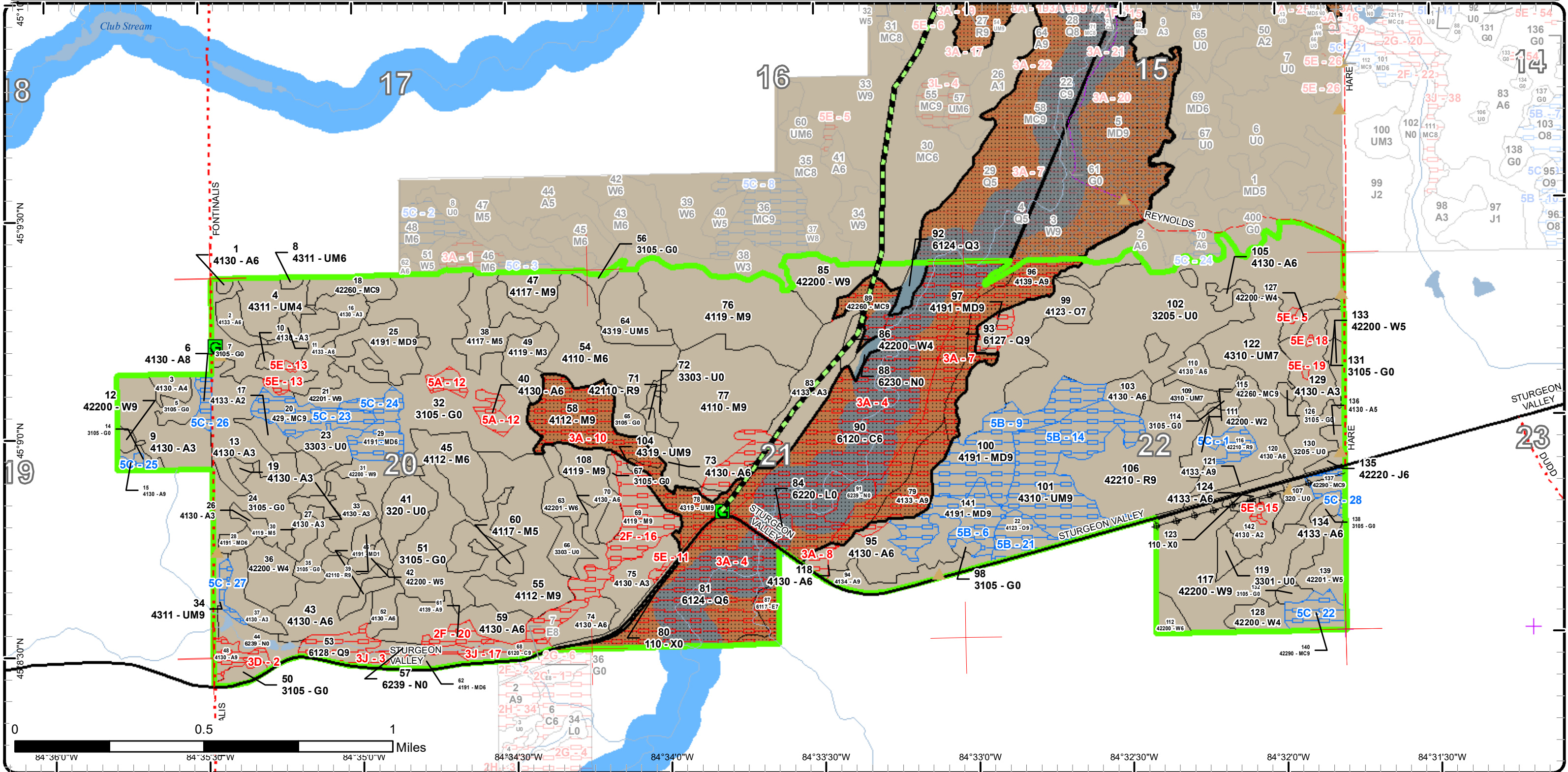


Special Conservation Areas

Compartment: 57
 T32N, R02W, Sec: 20, 21, 22
 County: Otsego
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2024
 Acres: 1852.6 GIS Calculated
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- Miris Corners
- + Remonumented Section Corners
- Counties
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Non-DNR Trails - User Created
- ▲ Berms
- G Gate
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- - - Non-Designated Recreational Trail
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- SCA Removal
- Dedicated Management Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Other Habitat Area



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	56	34	63	74	73	13	0	0	9	10	41	0	0	0	0	0	0	372
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	117	0	0	0	0	117
Herbaceous Openland	187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	187
Jack Pine	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Low-Density Trees	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Conifers	0	0	0	0	0	4	0	0	0	28	0	0	0	0	70	0	0	0	102
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Marsh	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	0	0	4	0	0	0	0	15	13	7	61	0	0	0	0	0	0	99
Natural Mixed Pines	0	0	0	0	0	0	0	0	4	3	8	10	0	0	0	0	0	9	34
Northern Hardwood	0	0	0	12	0	0	0	0	15	76	42	196	0	0	0	0	0	0	341
Oak	0	0	0	0	0	0	0	0	0	0	0	44	0	0	0	0	0	0	44
Red Pine	0	0	0	0	0	0	0	0	50	5	0	0	0	0	0	0	0	0	55
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	13
Upland Mixed Forest	0	0	0	30	1	0	0	27	6	68	0	0	0	0	0	0	0	0	132
Upland Shrub	143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	143
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
White Pine	0	0	0	13	30	3	17	0	3	69	19	0	0	0	0	0	0	0	154
Total	383	56	34	122	105	80	32	27	93	271	86	371	0	0	187	0	0	9	1854



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 72
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		72	0	0	0	0	0	0	0	0	72
	Total	72	0	0	0	0	0	0	0	0	72

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		72	0	0	0	113	0	35	3	185	408
Next Step		0	0	0	0	0	0	192	0	0	192
	Total	72	0	0	0	113	0	227	3	185	600



Standard

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

5	53057005-NF	4.5	3105 - Mixed Upland Herbaceous	Nonstocked	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2023</p>										
7	53057007-NF	20.1	3105 - Mixed Upland Herbaceous	Nonstocked	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2023</p>										
14	53057014-NF	2.0	3105 - Mixed Upland Herbaceous	Nonstocked		NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
24 53057024-NF	25.2	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
32 53057032-NF	68.5	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
35 53057035-NF	7.1	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> General opening maintenance which may include mechanical, herbicide, or Rx fire.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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50	53057050-NF	3.6	3105 - Mixed Upland Herbaceous	Nonstocked	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

51	53057051-NF	34.4	3105 - Mixed Upland Herbaceous	Nonstocked	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

56	53057056-NF	2.7	3105 - Mixed Upland Herbaceous	Nonstocked	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
65 53057065-NF	5.0	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> -Maintain the non-forested condition of this stand by burning, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
67 53057067-NF	1.5	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
95 53057095-Cut	29.7	4130 - Aspen	Poletimber Well	41	111-140	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut with retention, focus on lesser abundant species when considering retention: Red pine, White Pine, and Red Oak. All retention considered will abide by the retention guidelines. Mark wildlife trees to be dropped and left as drumming logs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with a mix of species meeting a moderate stocking level will be acceptable in determining regeneration success.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
98 53057098-NF	1.6	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
99 53057099-Monitor	34.6	4123 - Red Oak	Sawtimber Poor	102	1-50	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> Continue to monitor post oak shelterwood and burn to see what regen develops. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Moderate mixture of oak, pine, and other hardwood species would be acceptable. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>										
102 53057102-Burn	113.4	3205 - Mixed Upland Shrub	Nonstocked		Unspecified	Burn	Opening	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Opening maintenance prescribed burn to help set back encroaching woody vegetation and encourage new growth of native shrubs and herbs. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Wildlife funded <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
114 53057114-NF	3.2	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
120 53057120-Cut	42.3	4130 - Aspen	Poletimber Well	44	111-140	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear cut with retention, focus on lesser abundant species when considering retention: Red Pine, White Pine, and Red Oak. Retention considerations will be in accordance with retention guidelines. Mark some wildlife trees to be dropped and left as drumming logs. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> Aspen with a mix of species meeting a moderate stocking level will be acceptable in determining regeneration success. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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126	53057126-NF	1.1	3105 - Mixed Upland Herbaceous	Nonstocked	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

131	53057131-NF	2.5	3105 - Mixed Upland Herbaceous	Nonstocked	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

132	53057132-NF	2.4	3105 - Mixed Upland Herbaceous	Nonstocked	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
138 53057138-NF	2.0	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2023</p>										

Approved Treatments:

80 53057080-Other	2.5	110 - Low Intensity Urban	Nonstocked			Other	Other	122 - Road/Parking Lot		No
<p><u>Prescription</u> Treat wild parsnip along the ROW of Sturgeon Valley Road. This treatment will stay open until the parsnip is eradicated. It is associated with</p> <p><u>Specs:</u> FTP # W53-459 and is being done in conjunction with Huron Pines.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2020</p>										

Total Treatment 409.9
Acreage Proposed:

Availability for Management

Total Acres **Acres Avail** Acres
 Acres Available **With Condition** Not Available

Dominant Site Conditions

				5B	5C	2F	3A	3D	3J	5A	5E	
372	315	5	52	Aspen		5	4	31	5		8	4
117	0	0	117	Cedar				109		8		
187	187	0	0	Herbaceous Openland					0			
2	2	0	0	Jack Pine								
22	22	0	0	Low-Density Trees								
102	4	0	98	Lowland Conifers				87		11		
6	0	0	6	Lowland Deciduous				6				
2	2	0	0	Lowland Shrub								
19	19	0	0	Marsh					0	0		
100	26	65	9	Mixed Upland Deciduous	52	13		9				
34	11	13	10	Natural Mixed Pines		13		10				
341	279	0	62	Northern Hardwood			27	35				
44	35	9	0	Oak	9							
55	50	5	0	Red Pine		5						
13	0	13	0	Upland Conifers		13						
131	64	48	20	Upland Mixed Forest	45	2	1	19				
143	143	0	0	Upland Shrub	0							
10	10	0	0	Urban								
154	153	0	1	White Pine				0				1
1,853	1,321	158	373	Total Forested Acres	106	52	32	305	5	19	8	4
	71%	9%	20%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Jake Halabut : Examiner

Compartment: 57

Year of Entry: 2024

2	Unavailable	3D: Recreational / Scenic values	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand provides a nice visual buffer along Fontinalis Road. In addition, the volume of harvestable timber is quite low in this stand.							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	2G: Too wet (sensitive soils, does not include access issues)	3D: Recreational / Scenic values	Unspecified	Unspecified
Comments: A permanent-flowing stream runs through this stand. In addition, this stand provides aesthetic values along Sturgeon Valley Road.							
4	Unavailable	3A: Conservation Values incompatible with harvest at this time	185	2G: Too wet (sensitive soils, does not include access issues)	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments: This stand is included as part of a larger Sturgeon River Valley SCA. The Sturgeon River buffer also is included in this site condition.							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3A: Conservation Values incompatible with harvest at this time	64	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: The stands in this site condition are part of the Sturgeon River Valley SCA. Most occur along a steep side-slope.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 57

Jake Halabut : Examiner

Year of Entry: 2024

8	Unavailable	3A: Conservation Values incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The stands in this site condition are part of the Sturgeon River Valley SCA.							
9	Available	5B: Maintain for regeneration purposes	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: There is quite a bit of sapling/pole size aspen and red maple that should be left to grow. A treatment could be considered during the next entry period.							
10	Unavailable	3A: Conservation Values incompatible with harvest at this time	54	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Sturgeon River Valley SCA. Stream and vernal pools.							
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5A: Not able to obtain desirable regeneration	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Two small, isolated aspen pockets that would not be able to regenerate due to the high browse pressure in the area.							
13	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5B: Maintain for regeneration purposes	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Jake Halabut : Examiner

Compartment: 57

Year of Entry: 2024

15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2F: Too steep	28	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Part of Sturgeon River Valley SCA.							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Jake Halabut : Examiner

Compartment: 57

Year of Entry: 2024

22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
1	4130 - Aspen	Poletimber Well	1.0	38	Unspecified	N/A	Small acreage stand with decent looking aspen that is lacking diversity. Red maple advanced regeneration is having some success in this stand, like some others in the area, in getting recruitment to the midstory. Likely have to bundle this stand in with another to justify harvesting.																																													
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2	4133 - Aspen, Mixed Pine	Poletimber Well	5.2	38	Unspecified	N/A	There is a nice distribution of aspen size classes throughout most of this stand, except for a clone of nearly all pulp sized stems in the north east corner. White pine is quite prevalent in this stand as well. The understorey is very dense with ironwood, black cherry, and witch hazel stems making it difficult to traverse through certain parts of the stand. Trace amounts of red pine are also found in the canopy. Ten plots were recorded using a 10 BAF prism for an average of 76 sq ft per acre.																																													
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3	4130 - Aspen	Poletimber Poor	4.3	48	Unspecified	N/A	Low quality and density stand of an aspen and pine complex. Open areas have sporadic black cherry upland shrub and white pine saplings slowly beginning to fill in.																																													
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4	4311 - Pine, Aspen Mix	Poletimber Poor	14.1	25	1-50	N/A	A mix of openings and trees. Formerly a forested stand but browsing wiped out most regen. Scattered pole/log white pine throughout in clumps, with WP saplings beginning to fill in spaces between along with a high percentage of upland black cherry shrub.																																													
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5	3105 - Mixed Upland Herbaceous	Nonstocked	4.5		Unspecified	No	Some volunteer red pine and aspen seeding in along the edges, with the aspen slowly beginning to migrate further into this stand. Aerial photography suggests this site is wet, however it did not reflect such on the ground or with the species present. Not sure if this is due to it being seasonally wet or just unseasonably wet at the time of the aerial photography.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
6	4130 - Aspen	Sawtimber Medium	3.4	84	Unspecified	N/A	Poor quality aspen with white pine mixed in. A few scattered red pine present as well. Overall decent diameter size of stems present in the stand but lacking in BA. Especially given the relatively old age of the stand.																																										
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7	3105 - Mixed Upland Herbaceous	Nonstocked	20.1		Unspecified	No	Scattered white pine and cherry. Aspen is beginning to encroach into the stand from adjacent clear cuts. Spotted knapweed is slowly starting to spread and become more prevalent in this stand.																																										
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8	4311 - Pine, Aspen Mix	Poletimber Well	1.0	38	51-80	N/A	Variable sizes of white pine and quaking aspen. No desirable regen present in the understory aside for small amounts of red maple recruitment into the mid story. This is a low acreage stand that I would recommend letting grow longer.																																										
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9	4130 - Aspen	Sapling Well	22.4	27	Unspecified	N/A	Majority of the aspen here is still borderline merchantable, with a dense understory of white pine. Site seems to be of poor quality for aspen growth but reassess during the next inventory cycle. Good regeneration in most parts, only a few areas where elk browsing seemed to cause an impact. Scattered pockets of hypoxylon canker causing mortality.																																										
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10	4130 - Aspen	Sapling Well	1.0	6	Immature	N/A	Stand cut in winter of 2015-16 as part of Green Timbers Mix, bought by AJD, cut by a handcrew. All white pine were left. Aspen regeneration looks good despite the fact its a small acreage stand.																																																	
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11	4133 - Aspen, Mixed Pine	Poletimber Well	2.5	38	Unspecified	N/A	Variable size range for aspen and there is a centralized pocket of aspen present in the middle of the stand, before feathering out into more of a predominant white pine and aspen mix along the perimeter. White pine has established itself quite a bit here in competing with aspen. Despite the age and size of stems in this stand, the overall density is relatively low. As five plots were recorded for an average BA of 68 sq ft per acre.																																																	
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12	42200 - Natural White Pine	Sawtimber Well	1.9	88	81-110	N/A	Predominately white pine with some older, sawlog sized aspen still present within the stand. Some 18"+ aspen are prevalent, though the aspen is beginning to show signs of deterioration. Small acreage and the mixed aspen/pine complex brings a nice contrast of age diversity (along with S15) to the surrounding stands.																																																	
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13	4130 - Aspen	Sapling Well	21.9	15	Unspecified	N/A	-Cut in 2007. -A few scattered mature aspen and white pine. -Overall, regeneration is quite good with only a few areas that were impacted by browse. - A small pocket of scotts pine is beginning to establish itself in an area where aspen regen is not as dense, likely a pocket affected by browse.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
15	4130 - Aspen	Sawtimber Well	1.6	88	Unspecified	N/A	Low acreage and variable density mixed aspen and pine stand. Nice white pine saplings and poles are present, creating a nice mature aspen stand to compliment the surrounding young aspen stand (S9). Leave stand for age diversity, could consider harvesting once S9 is ready for harvest to maintain aspen age diversity.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Pole/Log	8		White Pine		High	>20 feet	Pole
White Pine		10	Log/Pole/XLog	12		Beech		Low	< 5 feet	Sapling
Quaking Aspen		85	Log/Pole	10	88	Balsam Fir		Low	Variable	Sapling
						Quaking Aspen		Medium	< 5 feet	Sapling
						Red Maple	Medium	< 5 feet	Sapling	
16	4130 - Aspen	Sapling Well	15.5	6	Immature	N/A	Stand cut in winter 2015-16 as part of Green Timbers Mix, bought by AJD, cut by a hand crew. Scattered white pine left as well as some aspen. Regeneration looks good, with a few small pockets of poor regeneration around the stand. Most stems are already 10-15 feet tall and stocking looks good. Not much blow down loss recorded yet with regards to residual trees left.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		92	Sapling	1	6	Black Cherry		Medium	< 5 feet	Sapling
Black Cherry		2	Sapling	1		White Pine		Low	< 5 feet	Sapling
White Pine		6	Sapling/Pole/Log	2		Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub
17	4133 - Aspen, Mixed Pine	Sapling Medium	4.7	27	Unspecified	N/A	Patchy regeneration. Quaking aspen is not doing well, lots of hypoxylon canker. Small amount of bigtooth aspen, but it is growing well. White pine is almost beginning to take over this stand due to the poor quality of the aspen present. Some merchantable stems are present but the overall size of the majority of stems are still sapling.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		38	Sapling/Pole	4		White Pine		High	Variable	Sapling
Black Cherry		3	Sapling	2		Black Cherry		Low	< 5 feet	Sapling
Bigtooth Aspen		10	Sapling/Pole	4		Red Pine		Low	5 - 10 feet	Sapling
Quaking Aspen		49	Sapling/Pole	4	27					
18	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	8.1	97	81-110	N/A	This is a diverse stand in terms of species and sizes. Appear to be some larger aspen (saw log) sized in the east side of the stand, among saw log sized white pine as well. The middle of the stand has adjacent red/white pine thickets of pulp/saw sized stems, while the west side of the stand has a higher population of XL super canopy white pine present. Here you'll find smaller diameter aspen (5-6") and some small components of other hardwoods. Some deteriorated remnants of large diameter black cherry suggest this site could produce higher quality hardwoods if given the chance. Eight plots were recorded for an average BA of 101 sq ft per acre, although the highest amounts are in denser white pine pockets.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		3	Pole/Log	9		White Spruce		Trace	< 5 feet	Sapling
Red Pine		5	Log	12		Serviceberry (Juneberry)		Low	< 5 feet	Sapling
Black Cherry		2	Log/Pole	10		White Pine		Medium	>20 feet	Sapling
White Pine		55	Log/Pole	13	97	Ironwood		Medium	5 - 10 feet	Sapling
Quaking Aspen		35	Pole	7		Black Cherry		Medium	Variable	Sapling
						Balsam Fir		Medium	10 - 20 feet	Sapling
						Quaking Aspen		Medium	< 5 feet	Sapling
						Beech		Medium	< 5 feet	Sapling
19	4130 - Aspen	Sapling Well	1.8	27	1-50	N/A	Nice looking small acreage aspen stand, portions of this stand are already merchantable while others are still sapling sized. White pine and black cherry dominate the understory while there are lesser components of fir and ironwood. Minor red maple regen is present however browse is keeping it from advancing above 5'. - Four plots were recorded using a 10 BAF prism for an average of 37 sq per acre.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		95	Sapling/Pole	4	27	Balsam Fir		Low	10 - 20 feet	Sapling
White Pine		5	Pole/Sap/Log	6		Ironwood		Medium	10 - 20 feet	Sapling
						Red Maple		Medium	< 5 feet	Sapling
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						White Pine	Medium	10 - 20 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
20	429 - Mixed Upland Conifers	Sawtimber Well	13.4	100	81-110	N/A	Two-aged stand. White pine poles and saplings underneath an overstory of primarily red maple and larger white pine. Stand has several small openings. -Took nine basal area plots with an average basal area per acre of 97 sq ft.																																																						
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21	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	8.7	54	51-80	N/A	A mixed white pine and aspen stand with lesser components of red and sugar maple present. This stand is not very dense with ten plots being recorded for an average of 72 sq ft per acre. This stand does have substantial red maple regeneration, however browsing has severely stunted it's recruitment into the midstory. The aspen that is present is variable in size; more towards the west are sawlog sized stems, where as pulp sized stems that are 5-6" dbh are found more prevalent as you travel east. In either case, the aspen is beginning to deteriorate, regardless of size.																																																						
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22	4123 - Red Oak	Sawtimber Well	9.4	102	51-80	N/A	-Portions of this stand appeared to have been treated in the past while other parts of the stand were not (highly variable). A few untouched areas with a hardwood component. The past treatment likely removed all aspen and red maple based on the amount of pole/sapling sized regeneration of these two species. Desirable species regeneration is lacking in the understory due to heavy browse impacts. Beech and ironwood present in the understory has even been browsed; while no successful oak regeneration appears to be present.																																																						
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23	3303 - Mixed Low Density Trees	Nonstocked	8.3		Unspecified	No	Formerly a forested stand but browsing wiped out regen. White pine is regenerating well due to surrounding stands and saplings are abundant in some places. Some pockets of log and pole sized white pine, red maple, and cherry are found across this stand. Appears this stand is on it's way to becoming reforested if the trajectory continues as is.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
24	3105 - Mixed Upland Herbaceous	Nonstocked	25.2		Unspecified	No	Formerly a forested stand but browsing wiped out most regen. This stand includes the powerline R.O.W. that runs parallel to Fontinalis Road.	
		Sub-Canopy Species		Density	Avg. Height	Size		
		Red Pine		Trace	>20 feet	Pole		
		Balsam Fir		Low	10 - 20 feet	Sapling		
		Quaking Aspen		Medium		Sapling		
		White Pine		High	Unspecified	Sapling		
		Black Cherry		High		Sapling		
		Spotted Knapweed		Medium	Unspecified	Non-Wood		
		Red Pine		Low	10 - 20 feet	Sapling		
		Bracken Fern		Full		Non-Wood		
		White Pine		Low	>20 feet	Log		
25	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	15.4	70	81-110	N/A	Hardwood stand with a lot of poor quality stump sprouts. Aspen is mostly along the perimeter of the stand. White pine pole-timber is of good quality. Let grow and manage for white pine/mixed hardwood stand. Browse pressure too high to do even-aged management with the hardwoods. In which there is a pure hardwood pocket in the middle of the stand, with a good distribution of diameters present between pulp and saw.	
		Canopy Species		% Cover	Size Class	DBH		Age
		Ironwood		2	Pole	6		
		Red Maple		36	Log/Pole	10		70
		Sugar Maple		10	Log/Pole	10		
		Quaking Aspen		22	Log/Pole	10		
		White Pine		30	Log/Pole/XLog	11		
		Sub-Canopy Species		Density	Avg. Height	Size		
		Ironwood		Medium	5 - 10 feet	Sapling		
		Red Pine		Low	10 - 20 feet	Sapling		
		Quaking Aspen		Low	< 5 feet	Sapling		
		Hawthorn (spp.)		Trace	5 - 10 feet	Tall Shrub		
		White Pine		High	Variable	Sapling		
		Beech		High	10 - 20 feet	Sapling		
26	4130 - Aspen	Sapling Well	2.5	27	Unspecified	N/A		
		Canopy Species		% Cover	Size Class	DBH		Age
		Black Cherry		5	Sapling	3		
		Quaking Aspen		95	Sapling/Pole	4		27
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		White Pine		Medium	5 - 10 feet	Sapling		
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		Black Cherry		Medium	5 - 10 feet	Sapling		
27	4130 - Aspen	Sapling Well	2.8	27	1-50	N/A	Aspen within this stand is just beginning to reach merchantability, with a good portion of the composition as saplings. Dense white pine saplings dominate the understory with lesser components of black cherry and ironwood also being present. I would reassess this stand during the next inventory cycle but it may be two cycles till this stand is ready for treatment.	
		Canopy Species		% Cover	Size Class	DBH		Age
		White Pine		5	Pole	6		
		Quaking Aspen		95	Sapling/Pole	4		27
		Sub-Canopy Species		Density	Avg. Height	Size		
		Black Cherry		Medium	5 - 10 feet	Sapling		
		Ironwood		Low	5 - 10 feet	Sapling		
		White Pine		High	Variable	Sapling		
		Serviceberry (Juneberry)		Low	< 5 feet	Sapling		
		Balsam Fir		Low	10 - 20 feet	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
28	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	2.9	90	81-110	N/A	-Small acreage with good decent diversity and trace hemlock. Leave this stand permanently for aesthetics and vertical structure for the surrounding landscape.																																																					
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29	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.8	80	51-80	N/A	Stand has scattered openings in the north end with a lower stocking of residual timber. Six basal area plots were taken using a 10 BAF prism with an average of 75 sq ft per acre. Poor quality maple stump sprouts should be removed in future to allow better growth for white pine. As well as a species removal for any surviving aspen or beech if still alive at time of treatment.																																																					
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30	4119 - Mixed Northern Hardwoods	Poletimber Medium	7.1	86	51-80	N/A	-Diverse mix of species. -Pocket of large white pine at NE end of stand. -Stand becomes much more open to the south as it transitions between forested and non-forested. The composition also starts to become more of solid hardwoods as you travel south in the stand, as well as the small finger that juts out to the east. -Most of the hardwoods are low-quality stump sprouts. - Six plots were recorded using a 10 BAF prism for an average of 97 sq ft per acre																																																					
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31	42200 - Natural White Pine	Sawtimber Well	11.1	82	51-80	N/A	Six basal area plots were taken with an average of 78 sq ft per acre. Nice white pine that has a good distribution of pole and sawlog sized stems, along with the occasional super canopy XL sized tree. The aspen in the stand is rapidly deteriorating, as the BA didn't change from last inventory to this cycle, due to the percentage of aspen that has died. There are some red maple stems that are becoming sawlog size, and there is moderate red maple regen in the understory. Though heavy browse is keeping the red maple seedlings from reaching the midstory. No other desirable species are present in the understory, as beech is the only other dominate regeneration occurring.																																																					
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32	3105 - Mixed Upland Herbaceous	Nonstocked	68.5		Unspecified	No	Some very large white pine stumps indicate what this stand used to be like.																																																		
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33	4130 - Aspen	Sapling Well	11.6	15	Unspecified	N/A	Initial assessment last inventory cycle indicated some areas of heavy browse damage but overall aspen regeneration will result in a medium to well-stocked stand. Upon inspection this inventory cycle, it would appear as though the stand is trending more in the trajectory of a medium stocked stand. Aspen appears to be of average quality and inconsistent density, the latter is likely due to the previously indicated browse. White pine, black cherry, or red pine will likely fill in the areas where aspen stems are lacking, as surrounding stands with red pine and white pine complexes will likely seed in.																																																		
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34	4311 - Pine, Aspen Mix	Sawtimber Well	2.4	85	81-110	N/A	Small acreage stand with some decent stem size and diversity. Looks to have been left previously as a visual management stand. Due to small acreage and no other stands being harvested around it, would recommend leaving for now, so that it may be lumped in with other adjacent stands that are likely to be ready for harvest next inventory cycle. Six plots were recorded for an average BA of 95 sq ft per acre.																																																		
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36	42200 - Natural White Pine	Poletimber Poor	12.8	25	1-50	N/A	-This stand is filling in with white pine, cherry, and aspen. -There is a good mixture of openings and forested clumps for cover.																																																		
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37	4130 - Aspen	Sapling Well	8.9	27	1-50	N/A	-Nice aspen regeneration. -Lack of any tree species diversity. Understory is thick with white pine regen and some modest red maple below that; although the red maple appears to be held in check by browse.																																																																		
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38	4117 - Mixed N. Hardwood - Pine	Poletimber Medium	15.3	70	51-80	N/A	Pretty low stocking through most of the stand. This stand is a transition between the opening to the west and the fully-stocked hardwood stand to the east. While it is a diverse stand, the hardwoods are of pretty low quality, with lots of crooked stump sprouts.																																																																		
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39	42110 - Planted Red Pine	Sawtimber Well	3.1	73	81-110	N/A	-Thinned in 2005 as a separate payment unit when the adjacent aspen was clearcut. It is a almost entirely a pure red pine stand lacking diversity. Some remnant aspen timber resides in the stand, as well as some log sized red maple stems.																																																																		
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40	4130 - Aspen	Poletimber Well	7.6	52	Unspecified	N/A	The perimeters of both parts of this multi-poly stand have a lot of ironwood and black cherry saplings, but the ironwood is severely out competing the black cherry. The interior of the stands are primarily quaking aspen pole/log timber in the overstory; however, white pine, red maple, and sugar maple are composition is slowly growing. Some areas are still dominated by saplings, ironwood doing extraordinarily well on this site. White pine will likely persist as regen over time with no other desirable regen present in the understory.																																																																		
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41	320 - Upland Shrub	Nonstocked	13.1	0	Unspecified	4116 - Mixed N. Hardwood - Aspen	Stand cut in winter 2015-16 as part of Green Timbers Mix. Bought by AJD, cut by handcrew. Scattered beech, maple, white pine, and aspen left. - Eight regen plots were conducted for an average of 875 seedlings per acre. - This stand has been heavily hit by browse, with almost every aspen, beech, and cherry sapling showing signs of browse stunting its growth. This stand does not meet the stocking requirements to exit out of the monitoring stage of the treatment. - Some of the retention trees have since died, either snapping in half or blown over - Beech regen is dominating the stand																																																											
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42	42200 - Natural White Pine	Poletimber Medium	3.4	70	81-110	N/A	There is a pocket of predominately white pine in the western portion of the stand, with lesser components of red maple, aspen, and beech. What appears to be red pine leave trees are spattered about the rest of the stand to the east. These, along red pine stand located to the north in S39, appears to be influencing a small amount of natural red pine regen. There is a line/hedge row aspen buffer left between this stand and S41. - Small acreage, let this stand grow.																																																											
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43	4130 - Aspen	Poletimber Well	22.6	38	Unspecified	N/A	- Variable aspen sizes throughout this stand. Some areas of 8"+ aspen whereas other areas are in the 4-5" DBH range. Areas of dense, larger diameter aspen exists, primarily in the western and central portion of the stand, as well as in the far north eastern portion. Throughout the rest of the stand is sparsely filled aspen, some with log sized trees and others that are predominately saplings. - Fifteen plots were recorded using a 10 BAF prism for an average BA of 93 sq ft per acre.																																																											
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44	6239 - Mixed Emergent Wetland	Nonstocked	8.6		Unspecified	No	A creek passes through this stand and widens out in several places. It is likely that this area floods each spring.																																																											
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45	4112 - Maple, Beech, Cherry Association	Poletimber Well	24.0	80	81-110	N/A	- Variable stocking throughout the stand as most of it is in a transition with the surrounding herbaceous openings. - Nine basal area plots were taken with an average of 73 sq ft per acre. - Majority of the maple is of stump sprout origin and poor quality. - Favor white pine and hardwood diversity if future treatments are considered																																																											
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46	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	4.1	20	Immature	N/A	Aspen and black cherry are taking over this stand. Especially in the south western portion of the stand, as well as a higher composition of ironwood. White pine is also prevalent but moreso in the western part of the stand.																																																																																										
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47	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	8.2	106	81-110	N/A	This stand consists of a white pine complex surrounded by hardwoods, except for a small pocket of white pine also in the NW corner of the stand. Variable stocking levels with some open areas, and the hardwoods are of nice quality sugar and red maple, as well as basswood. This stand has been thinned in the past (at least 10 years ago), looks like they created a few canopy gaps. - 6 variable area plots were recorded for an average of 85 sq ft per acre.																																																																																										
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48	4130 - Aspen	Sawtimber Well	5.2	91	Unspecified	N/A	-Small stand with variable stocking. More open areas of stand are filling in with aspen saplings. The stand becomes more lowland as you head east, where you'll find some much larger, XL sized aspen. Recent beaver damage is prevalent on the aspen component. -Leave for aesthetics.																																																																																										
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49	4119 - Mixed Northern Hardwoods	Sapling Well	11.6	20	1-50	N/A	This is a highly variable stand in terms of stocking. The past harvest removed the majority of stems in some areas, but left a higher stocking of hardwoods and conifers in other areas. In general, the north end of the stand was cut much harder, essentially a hardwood clearcut with some scattered log-sized trees left. Parts of the south end appear to be more of a hardwood thinning. Severe browse pressure. The only species that regenerated were ironwood and black cherry. Beech is growing but it has been browsed very hard. There also exists a small pocket of both spruce and big tooth aspen to the southern extent of this stand, just north of the drain that exists through S32 and S58.																																																																																										
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52	4130 - Aspen	Poletimber Well	5.7	42	81-110	N/A	-Lack of tree species diversity. Although there is a pocket of white pine in the NE corner of the stand, and in the SW corner of the stand boundary with S53; there is also a minor composition of balsam fir as you travel south in the stand. There is a bit of diversity in size classes within this stand, as there is a valley that travels along the border of S52 and S43 where the majority of quaking aspen stems are in the 3-5" DBH range and barely merchantable. -Future treatments should look at expanding upon pine abundance. - There were eight plots recorded using 10 BAF prism for an average BA of 85 sq ft per acre.																																																																								
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53	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	10.8	137	Unspecified	N/A	-Transitions to an upland stand as you get closer to Sturgeon Valley Road. -At least a two-aged stand.																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
54	4110 - Sugar Maple Association	Poletimber Well	43.3	88	81-110	N/A	- Stand thinned in summer of 2017 as part of Dull Chain Hardwoods, #53-025-14-01, bought by Precision. Nice job of thinning, a little residual damage but not much overall. East 1/3rd of stand was not thinned due to lower BA in this area. See treatment history layer for old sale line. Residual ba/acre = 88 square feet. - Site index= 59 for a Red maple - 75 years old, 80 feet tall. - A couple of natural openings created from a blowdown event in the early '90's. These natural gaps have only filled in with ironwood and severely browsed beech.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Hemlock		1	Pole/Log	9		Beech		Medium	Variable	Sapling	
Red Oak		1	Log/XLog	15		Hemlock		Low	10 - 20 feet	Pole	
Basswood		33	Log	10	88	White Ash		Low	< 5 feet	Sapling	
Beech		3	Log	12		Sugar Maple		Medium	>20 feet	Sapling	
Red Maple		10	Pole	8		Ironwood		Medium	Variable	Sapling	
Sugar Maple		50	Pole	8	88						
Ironwood		2	Pole	7							
55	4112 - Maple, Beech, Cherry Association	Sawtimber Well	41.6	91	81-110	N/A		-Seventeen basal area plots were taken with an average of 105 sq ft per acre. Heavy to beech in some areas. Diverse in diameter as pockets of purely pole timber exist, primarily as you travel north within the stand. - A few mature aspen are scattered throughout. -Scattered hemlock pockets in the SE corner of the stand. -A small slope is present in the NE corner of the stand, going up to adjacent stand 70. -Site index = 56 for a red maple 78 years old and 78 feet tall.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Sugar Maple		36	Pole/Log/Sap	9	91	Sugar Maple			Medium	>20 feet	Sapling
Beech		11	Log/XLog/Pole	12		White Pine			Low	10 - 20 feet	Sapling
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Basswood		15	Log	11		Balsam Fir			Low	10 - 20 feet	Sapling
						Ironwood			Medium	>20 feet	Pole
56	3105 - Mixed Upland Herbaceous	Nonstocked	2.7		Unspecified	No	- Stand thinned in summer of 2017 as part of Dull Chain Hardwoods, #53-025-14-01, bought by Precision. Nice job of thinning, a little residual damage but not much overall. East 1/3rd of stand was not thinned due to lower BA in this area. See treatment history layer for old sale line. Residual ba/acre = 88 square feet. - Site index= 59 for a Red maple - 75 years old, 80 feet tall. - A couple of natural openings created from a blowdown event in the early '90's. These natural gaps have only filled in with ironwood and severely browsed beech.				
Sub-Canopy Species		Density	Avg. Height	Size							
Black Cherry		Medium	5 - 10 feet	Sapling							
White Pine		Medium	Unspecified	Pole							
White Pine		Low	>20 feet	Log							
Scotch Pine		Trace	10 - 20 feet	Sapling							
Spotted Knapweed		Medium	Unspecified	Non-Wood							
Quaking Aspen		Low		Pole							
57	6239 - Mixed Emergent Wetland	Nonstocked	2.7		Unspecified	No	Formerly a beaver pond but the dam that held back the stream has been breached. Sedge like vegetation dominates the areas around the stream that used to be flooded. Only low amounts of alder at this point.				
Sub-Canopy Species		Density	Avg. Height	Size							
Tamarack		Medium	10 - 20 feet	Sapling							
White Pine		Low	>20 feet	Log							
Cattail spp.		Low	Unspecified	Non-Wood							
Black Spruce		Low	5 - 10 feet	Sapling							
White Pine		Low	5 - 10 feet	Sapling							
Alder		Trace		Tall Shrub							
Balsam Fir		Low	10 - 20 feet	Pole							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
58	4112 - Maple, Beech, Cherry Association	Sawtimber Well	27.2	106	81-110	N/A	<p>-A unique northern hardwoods stand that is on a wetter site. An intermittent stream originates in this stand and flows through the center portion, draining down into stand 78. Numerous other wet areas in the stand give this a lowland hardwoods appearance in places.</p> <p>-There is a high quality vernal pond near the northwest part of the stand.</p> <p>-Quite a bit of blowdown; a result of a windstorm in the early 1990's. As a result the residual basal area is quite variable.</p> <p>-Current pit and mound topography suggests a history of blowdown in this stand.</p> <p>-Recommend no treatment for this stand due to wet soils and the fact that this stand is starting to exhibit some old-growth characteristics. As the stand gets drier to the north (approaching S54) there exists substantial ironwood and beech advanced regen.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Beech		5	Log	12		Ironwood		High	>20 feet	Sapling	
Bigtooth Aspen		6	Log	14		White Spruce		Low	< 5 feet	Sapling	
Sugar Maple		30	Pole	8		Sugar Maple		Low	>20 feet	Sapling	
Red Maple		45	Log	12	106	Beech		High	Variable	Sapling	
Basswood		12	Log	14							
Yellow Birch		2	Pole/Log	9							
59	4130 - Aspen	Poletimber Well	19.8	27	1-50	N/A	<p>Primarily bigtooth aspen stand on the top and mid slopes of this stand, with quaking aspen making up a greater composition of the stand on the toe slope. This stand is diverse in diameter, with some areas being primarily still saplings in size.</p> <p>- Fourteen plots were recorded using a 10 BAF prism for an average BA of 47 sq ft per acre.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		40	Sapling/Pole	4	27	Ironwood		Medium	5 - 10 feet	Sapling	
Bigtooth Aspen		55	Pole/Sapling	5	27	Beech		Medium	5 - 10 feet	Sapling	
White Pine		5	Pole/Sap/Log	6		Witch Hazel		Low	5 - 10 feet	Tall Shrub	
						White Pine		Medium	Variable	Sapling	
						Black Cherry		Medium	< 5 feet	Sapling	
60	4117 - Mixed N. Hardwood - Pine	Poletimber Medium	2.3	86	51-80	N/A	<p>-Low density hardwoods and white pine.</p> <p>-Transition zone between hardwoods and wildlife opening, very similar to stand(s) 45 and would consider merging them.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Beech		2	Log/Pole	10		Black Cherry		Low	< 5 feet	Sapling	
White Pine		28	Log/Pole/XLog	12		Red Pine		Low	10 - 20 feet	Sapling	
Red Maple		40	Pole/Log	9	86	Northern White Cedar		Trace	>20 feet	Pole	
Sugar Maple		30	Log/Pole	10		Ironwood		Medium	10 - 20 feet	Sapling	
						Balsam Fir		Low	5 - 10 feet	Sapling	
						White Pine		Medium	Variable	Sapling	
61	4139 - Aspen, Mixed Deciduous	Sawtimber Well	4.4	87	51-80	N/A	<p>-Stand lies on a very steep hill.</p> <p>- Seven plots were recorded using 10 baf prism for an average of 71 sq ft per acre.</p> <p>As you move from west to east in the stand, you move up the slope from more of a lowland with a higher balsam fir and white pine composition, to more of a aspen hardwoods complex. The aspen and beech along the slope is beginning to deteriorate and overall is very thin with no successful desirable regen occurring in the understory.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Beech		8	Pole/Log	9		Beech		Medium	5 - 10 feet	Sapling	
Balsam Fir		7	Pole/Sapling	5		Balsam Fir		Medium	Variable	Sapling	
Sugar Maple		5	Pole/Log	9		Ironwood		Medium	5 - 10 feet	Sapling	
Bigtooth Aspen		50	Log/XLog	15	87	Sugar Maple		Low	>20 feet	Sapling	
Red Maple		30	Pole/Log	9		Hemlock		Trace	>20 feet	Pole	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
62	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.0	90	111-140	N/A	-Many of the hardwood stems are still quite small. -Lots of porcupine damage on the sugar maple. - this appears to be stand of split composition, where the western half represents that of a lowland hardwood, fir complex with some log sized hardwoods and aspen. While the east side of the stand has super canopy white pine with primarily hardwood saplings in the under and mid story.																																																				
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63	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	10.8	37	51-80	N/A	-Variable size ranges for white pine with some log-sized trees and a few XL super canopy white pine stems present. -Several open areas where browsing must have impeded regeneration. - More aspen as you travel north in the stand and white pine is thinner.																																																				
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64	4319 - Mixed Upland Forest	Poletimber Medium	15.8	28	51-80	N/A	Previous harvest cut the majority of hardwoods while leaving white pine and hemlock. Scattered log size hardwoods such as red maple, sugar maple, and basswood. Clumps of hemlock left at the north end. Severe browse pressure has resulted in a lack of diversity in the regenerating stand with a poor representation of desirable species.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
66	3303 - Mixed Low Density Trees	Nonstocked	6.3		Unspecified	No	Severe browse damage, even on beech and ironwood. This stand is being encroached in on by natural regen, fueled in part by surrounding stand influence. Pockets of pole aspen exist, while white pine persists throughout, and pockets of ironwood and beech saplings have made it above browse lines. Stand is very close to be considered forested.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Spotted Knapweed	Low	Unspecified	Non-Wood					
								Quaking Aspen	Low	Unspecified	Pole					
								Ironwood	Medium		Sapling					
								Beech	Low		Sapling					
								Bigtooth Aspen	Low	Unspecified	Pole					
								White Pine	Low		Sapling					
								Red Maple	High		Sapling					
67	3105 - Mixed Upland Herbaceous	Nonstocked	1.5		Unspecified	No										
								Sub-Canopy Species	Density	Avg. Height	Size					
								Red Maple	Trace	Unspecified	Log					
								White Pine	Low		Log					
								White Pine	Medium	5 - 10 feet	Sapling					
								Blackberry/Raspberry	High		Tall Shrub					
								Beech	Medium	5 - 10 feet	Sapling					
								Sugar Maple	Trace	Unspecified	Log					
								Black Cherry	Low		Sapling					
68	6120 - Lowland Cedar	Sawtimber Well	8.0	137	Unspecified	N/A	-Alder is more common near the stream that passes through this stand.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	5	Pole	8		Northern White Cedar	Low	>20 feet	Pole
								Quaking Aspen	15	Log	14		Balsam Fir	Medium	Variable	Sapling
								Balsam Fir	5	Pole	8		Tag Alder	Medium	10 - 20 feet	Tall Shrub
								White Spruce	8	Log	14		Hemlock	Low	>20 feet	Pole
								Northern White Cedar	65	Log/Pole	12	137				
								Sugar Maple	2	Pole	8					
69	4119 - Mixed Northern Hardwoods	Sawtimber Well	27.0	106	81-110	N/A	-Undulating terrain consisting of ridges and valleys throughout the stand. Some very steep slopes. Only a few parts in the stand that would be operable.-Several of the valleys have natural seepages.-Beech is a heavy component of this stand. Beech scale was present on scattered trees. And the health of beech in this stand is beginning to rapidly deteriorate.-In addition to the species listed, there were scattered XL red oak and pole size yellow birch, although both were uncommon. - Sugar maple site index = 60, for a 75 year old tree, 78 feet tall.-Red maple site index = 63, for a 86 year old tree, 89 feet tall.-15 basal area plots were taken with a stand average of 113 sq ft per acre.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Bigtooth Aspen	12	Log	14		Hemlock	Low	10 - 20 feet	Pole
								White Pine	2	Log/XLog	13		Ironwood	Medium	< 5 feet	Sapling
								Red Maple	22	Pole	9	88	Beech	High	5 - 10 feet	Sapling
								Basswood	7	Log	11		White Spruce	Trace	< 5 feet	Sapling
								Beech	35	Log/Pole/XLog	10	106	White Pine	Low	Variable	Sapling
								Sugar Maple	22	Pole	8	106				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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70 4130 - Aspen Poletimber Well 4.3 44 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	70	Pole	5	44	Beech	Medium	5 - 10 feet	Sapling
Beech	2	Pole	8		Ironwood	High	10 - 20 feet	Sapling
Quaking Aspen	20	Pole	5					
Sugar Maple	8	Pole	7					

71 42110 - Planted Red Pine Sawtimber Well 1.1 74 111-140 N/A -Acreage too small to thin or cut on its own.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	1	Log	15		Ironwood	Medium	10 - 20 feet	Sapling
Red Pine	99	Log	14	74	Balsam Fir	Low	10 - 20 feet	Sapling
					Red Pine	Low	Variable	Sapling
					White Spruce	Low	< 5 feet	Sapling
					Beech	Full	Variable	Sapling

72 3303 - Mixed Low Density Trees Nonstocked 3.2 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low		Pole
Quaking Aspen	Low		Pole
Bracken Fern	Medium		Non-Wood
Black Cherry	Low	10 - 20 feet	Pole
Sugar Maple	Low		Log
Red Pine	Low		Seeding
Black Cherry	Medium		Sapling
Blackberry/Raspberry	Medium		Tall Shrub

73 4130 - Aspen Poletimber Well 5.5 45 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	83	Pole/Log	9	45	Black Cherry	Medium	5 - 10 feet	Sapling
Sugar Maple	6	Log/Pole	10		White Spruce	Low	< 5 feet	Sapling
Red Maple	11	Log/Pole	10		Beech	Medium	Variable	Sapling
					Balsam Fir	High	Variable	Sapling
					Hemlock	Low	>20 feet	Pole
					Ironwood	Low	5 - 10 feet	Sapling

Nice aspen stand that has near equal parts of pole and log stems. Higher proportions of pole exist along the slopes that extend down to the drain in S78. Along these slopes you'll also find a higher composition of balsam fir with limited white pine mixed in. On the top slope, this stand has a nice composition of log sized sugar and red maple, along with a pocket of hemlock.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
74	4130 - Aspen	Poletimber Well	8.0	37	Unspecified	N/A	Decent aspen pole stand, with more quaking aspen in the central, northern part of the stand, as well as along the road where white pine and balsam fir have a larger presence. Big tooth aspen seems to be doing better on this site, with quaking aspen still lacking in diameter. As the quaking aspen in this stand still has a decent amount of stems at or just below merchantability. Beech, ironwood, and white pine are the predominant regen underneath the aspen.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		53	Pole/Sap/Log	6	37	White Pine		Medium	Variable	Sapling
Quaking Aspen		30	Pole/Sap/Log	5		Balsam Fir		Medium	Variable	Sapling
White Pine		15	Pole/Sap/Log	9		Ironwood		Low	Variable	Sapling
Balsam Fir		2	Sapling/Pole	4		White Spruce		Trace	Variable	Sapling
						Beech		Medium	< 5 feet	Sapling
						Red Maple		Trace	< 5 feet	Sapling
						Black Cherry		Medium	5 - 10 feet	Sapling
75	4130 - Aspen	Sapling Well	13.5	6	Immature	N/A	Stand cut in early summer of 2016 as part of Green Timbers Mix, bought by AJD, cut by a hand crew. Aspen regen looks good, although there are a few areas where the regen is lighter. In these areas beech and red maple are taking advantage. Red maple stump sprouting is showing modest success in certain areas.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		5	Sapling	1	6					
Beech		3	Sapling	1	6					
Bigtooth Aspen		90	Sapling	1	6					
White Pine		2	Log/Pole	10						
76	4119 - Mixed Northern Hardwoods	Sawtimber Well	55.0	102	51-80	N/A	-Thinned in 1993-94 by a prison crew (marked to leave). Some blowdown took place after a wind event in 1998. -Thinning in '90's was heavy in some areas, resembling more of a shelterwood or heavy group selection. Regeneration of white pine has been excellent but seems most prominent to the west. Some sugar maple made it past the browse level but the majority of hardwood regeneration is ironwood and beech. Hemlock groves persist throughout the stand, with intermittent areas of pure hardwoods. -Very unique 3-aged stand. Supercanopy white pine are present followed by the overstory hardwoods and finally the regeneration growing in the gaps.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		6	Log/Pole/XLog	15		Sugar Maple		Low	5 - 10 feet	Sapling
Red Maple		10	Log	15		Beech		High	10 - 20 feet	Sapling
Basswood		6	Log	14		Ironwood		High	10 - 20 feet	Sapling
Beech		8	Log	15		Hemlock		Medium	>20 feet	Pole
Sugar Maple		40	Log	15	102	White Pine		High	10 - 20 feet	Sapling
Hemlock		15	Log/Pole	10		Red Maple		Low	>20 feet	Sapling
White Pine		15	XLog	20	136					
77	4110 - Sugar Maple Association	Sawtimber Well	63.6	108	81-110	N/A	- Stand thinned in summer of 2017 as part of Dull Chain Hardwoods, #53-025-14-01, bought by Tulgetska. Nice job of thinning, only minimal residual damage. Residual ba/acre = 93 square feet. - - Previously thinned in 1995 (marked to cut). Stand still looks good following the recent harvest. Went through to check regeneration as gaps were silviculturally used to try and spur regen or more desirable species. However these gaps were still predominantly filled with beech, ironwood, and white ash seedling/saplings. In some instances, white pine and established sugar maple saplings were present. -Other species that were present but rare included hemlock, yellow birch, white pine, black cherry and elm. -Sugar maple site index values = 65 for a 98 year old tree, 92 feet tall; and 79 for a 94 year old tree that was 101 feet tall.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		44	Log/Pole	10	108	Sugar Maple		Low	10 - 20 feet	Sapling
Basswood		40	Log	12		Beech		Medium	< 5 feet	Sapling
Red Maple		10	Pole/Log	9		Ironwood		Medium	Variable	Sapling
Beech		4	Log	12		White Ash		Medium	< 5 feet	Sapling
Red Oak		2	XLog	18		White Pine		Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
78	4319 - Mixed Upland Forest	Sawtimber Well	20.1	87	81-110	N/A	-Stand is a hodgepodge mix of everything. The NW finger of this stand is wet and has a small intermittent stream which drains southeasterly down to Sturgeon Valley Road. The upper part of this finger contains small balsam fir and black ash which has been killed by the Emerald Ash Borer. There is a pocket of white spruce and cedar up the slope adjacent to the boundary of S73. The aspen component is beginning to deteriorate.-There are two small pockets of planted red pine in this stand. One small (1 ac) pocket south of the drain, and then a vein of red pine that extends from the parking lot up long the trail to the NE.-A day-use parking lot is a part of this stand and is located off of the sharp corner on Sturgeon Valley Road.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	8	Log	12		White Spruce	Low		Variable	Sapling
Red Pine	25	Log	14	72	Ironwood	Low		5 - 10 feet	Sapling
Red Maple	5	Log/Pole	10		White Pine	Low		>20 feet	Pole
Basswood	8	Log	12		Beech	Medium		5 - 10 feet	Sapling
Quaking Aspen	25	Log	12	87	Balsam Fir	High		Variable	Sapling
White Spruce	5	Log	12						
Balsam Fir	18	Pole/Log	8						
White Pine	6	Log/Pole/XLog	16						
79	4133 - Aspen, Mixed Pine	Sawtimber Well	14.0	100	Unspecified	N/A		-Stand lies on a ridge that grades down to the west. Some steep slopes are present along this ridge. This stand primarily exists along this gradual slope, a transition zone between primarily oak dominated stands on the top slope and white pine dominated stands to the toe slope. Diverse aspen stand with super canopy RP and WP present, as well as moderate regeneration of both in the understory. -Recommend leaving this stand as a part of the Green Timbers Old Growth Area.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Maple	5	Pole	7		Beech	Medium	< 5 feet		Sapling
Bigtooth Aspen	59	Log/Pole	10	100	Balsam Fir	Low	5 - 10 feet		Sapling
Red Oak	10	Log/Pole	14		White Pine	High	Variable		Sapling
White Pine	3	Log/XLog/Pole	16		Red Pine	Low	Variable		Sapling
80	110 - Low Intensity Urban	Nonstocked	7.0			No	Sturgeon Valley Road		
81	6124 - Lowland Spruce-Fir	Poletimber Well	59.4	137	Unspecified	N/A	-Unable to access all of the stand due to water, but from the imagery the central part of the stand appears to have a higher cedar component.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	2	Log	12		Balsam Fir	Low		Variable	Sapling
Balsam Fir	2	Pole	7		Tag Alder	Medium		5 - 10 feet	Tall Shrub
White Spruce	26	Log/Pole	10						
Black Spruce	30	Pole	8						
Northern White Cedar	30	Log/Pole	11	137					
Tamarack	10	Log	12						
83	4133 - Aspen, Mixed Pine	Sapling Well	19.7	37	Unspecified	N/A	-Stand part of OI Green Timbers Old Growth Area. - Nice aspen pole stand, predominately big tooth but transitions more to quaking as the stand moves SW. This stand exists primarily along the eastern aspect of the slope, stretching down towards the Sturgeon River valley. A stretch of planted red pine extends through a portion of this stand, north of the trail. Towards the top slope exists a higher composition of red and sugar maple, along with a pocket of white pine pole/log stems. A higher composition of balsam fir and quaking aspen can be found where the stand meets the transition to cedar. Consider thinning the red pine upon treating the aspen.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	17	Pole/Sapling	5	37	Ironwood	Low		Variable	Sapling
White Pine	12	Pole	6		Red Maple	Low		>20 feet	Sapling
Red Maple	5	Pole/Log	8		Beech	Medium		< 5 feet	Seeding
Bigtooth Aspen	43	Pole/Sapling	6	37	Balsam Fir	Low		Variable	Sapling
Sugar Maple	1	Pole/Log	8		White Pine	High		>20 feet	Sapling
Red Pine	22	Log/Pole	13	72	Black Cherry	Medium		5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
84	6220 - Alder/willow	Nonstocked	1.7		Unspecified	No																																																															
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85	42200 - Natural White Pine	Sawtimber Well	18.7	97	51-80	N/A	-Stand was thinned in 1995. Canopy gaps created by thinning have filled in with white pine regeneration. Previous thinning seems to be more prevalent as you head west within the stand. - Seven basal area plots were taken with an average of 105 sq ft per acre.																																																														
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86	42200 - Natural White Pine	Poletimber Poor	3.5	35	1-50	N/A	White pine has take over this site. Aspen and balsam poplar have a presence along the southern and western boundaries due to the addition due to the adjacent aspen stand. Balsam fir composition is found along the eastern boundary where the stand borders lowland conifer. Black cherry shrub inhabit the interior where white pine hasn't filled in yet.																																																														
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87	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Poor	5.9	107	1-50	N/A	-High quality and very diverse lowland hardwoods. -A stream enters this stand from the private property to the southeast. Flooding has increased within this stand and has resulted in the gradual decline of stems. Most of the stand is now underwater except for strips of high ground along private to the East and the pipeline to the South.																																																														
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88	6230 - Cattail	Nonstocked	2.4		Unspecified	No																																																																									
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89	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	9.7	107	111-140	N/A	-Recommend leaving this stand as a part of the Green Timbers Old Growth area. Large diameter RP and WP make up this stand; aspen remaining in this stand is reaching its biological rotation as mortality of this composition is already present. Modest recruitment of white spruce, balsam fir, and red maple is present in the understory.																																																																								
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90	6120 - Lowland Cedar	Poletimber Well	108.9	137	81-110	N/A	-High quality swamp conifer complex. -Spruce becomes more prevalent as you get closer to the upland transition. -Cedar mortality in a few localized areas, probably due to flooding.																																																																								
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91	6239 - Mixed Emergent Wetland	Nonstocked	5.0		Unspecified	No	-A stream passes through this stand. It appears as if this stand was flooded at one time, lots of dead standing cedar.																																																																								
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92	6124 - Lowland Spruce-Fir	Sapling Well	3.8	47	51-80	N/A	-Cut cedar stumps are evidence of a past harvest in this stand. However, no cedar has grown back.																																																																														
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93	6127 - Lowland Pine	Sawtimber Well	27.6	85	81-110	N/A	-Recommend leaving stand as a part of the Green Timbers Old Growth Area.																																																																														
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94	4134 - Aspen, Spruce/Fir	Sawtimber Well	10.6	104	81-110	N/A	Predominately upland Aspen/pine/hardwood complex with a small lowland, spruce/fir composition towards the west side of the stand. Stand was previously left for aesthetics but planning on treating this time around due to age and adjacent stand 95 being cut.																																																																														
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95	4130 - Aspen	Poletimber Well	19.2	41	111-140	N/A	-Nice pole stand with limited saw log sized trees-A few scattered white pine, red oak, and red maple. Seventeen plots were recorded using a 10 BAF prism for an average of 107 sq ft per acre																																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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96 4139 - Aspen, Mixed Deciduous Sawtimber Well 16.6 100 81-110 N/A

-Stand lies on a ridge that grades down to the west. Some steep slopes are present along this ridge.
-Recommend leaving this stand as a part of the Green Timbers Old Growth Area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	58	Log/Pole	12	100	Red Pine	Low	Variable	Sapling
White Pine	10	Log/Pole/XLog	14		Beech	Low	< 5 feet	Sapling
Paper Birch	2	Pole	9		Black Cherry	Low	< 5 feet	Seeding
Red Pine	7	Log	14		White Pine	High	Variable	Sapling
Red Oak	14	Log	14		Balsam Fir	Medium	5 - 10 feet	Sapling
Red Maple	9	Pole	8		Serviceberry (Juneberry)	Low	< 5 feet	Seeding
					White Spruce	Low	Variable	Sapling

97 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 8.5 102 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	46	Log/XLog	16	102	Red Maple	Medium	>20 feet	Sapling
Bigtooth Aspen	17	Pole/Sapling	5	51	Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Pine	20	Pole/Log/Sap	7		Red Pine	Low	Variable	Sapling
Red Pine	5	Log	10		White Pine	Medium	10 - 20 feet	Sapling
Red Maple	12	Pole/Sapling	6					

98 3105 - Mixed Upland Herbaceous Nonstocked 1.6 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low		Pole
White Pine	Low		Sapling
Bracken Fern	High		Non-Wood
Blackberry/Raspberry	Medium	Unspecified	Tall Shrub
Bigtooth Aspen	Trace	< 5 feet	Seeding
Sweet Fern	Medium	< 5 feet	Tall Shrub

99 4123 - Red Oak Sawtimber Poor 34.6 102 1-50 N/A

Stand cut as part of Stump Sprout Special, #53-002-14-01, whole-tree harvest in winter of 2016-17, AJD. Almost no damage to the residual oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Pole/Log	9		White Pine	Medium	>20 feet	Sapling
White Pine	15	Pole/Sap/Log	6		Red Oak	Low	< 5 feet	Seeding
Red Oak	80	Log/XLog	15	102	Red Maple	Low	< 5 feet	Seeding
					Red Oak	Trace	5 - 10 feet	Sapling
					Black Cherry	Low	5 - 10 feet	Sapling
					Bigtooth Aspen	Medium	5 - 10 feet	Sapling

-Stand burned on May 21, 2018 as part of the Hare Trail Rx Burn. Fire intensity was not too great in this stand due to lack of fuels and the amount of bare ground created from the whole-tree harvest.

Oak and red maple stumps sprouts have pretty much all been killed already by deer and elk. In walking through the stand, I tallied a total of 3 oak regen stems from stump sprouts that were above 5' in height. Some encouraging pockets of big tooth aspen clumps are present around the stand. However, white pine is the predominant, mostly successful regen found here.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
100	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	32.7	102	111-140	N/A	-Previous harvest removed all aspen and red maple. Regeneration of these two species have filled in all of the gaps from the previous harvest. Some of this regeneration has finally reached merchantability. -Let the second age class grow and thin when BAs increase. Oak regen unlikely due to browse pressure. Look at stand 99 adjacent to the north for an example of that. Retain as mature forest cover along with stand 101. I recorded 17 plots throughout the stand using a 10 BAF prism for an average of 121 sq ft per acre.																																																												
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101	4310 - Pine, Oak Mix	Sawtimber Well	45.2	83	111-140	N/A	-Nice mixed natural pine stand. Variety of pine diameters. Trace of hemlock, paper birch, and sugar maple. Took 19 basal area plots with an average residual BA/acre of 121 sq. ft. but this value includes portions of the stand have been thinned previously and have a lower BA. Which is much more prevalent in the northern portion of the stand. High browse impacts in the area appear to be keeping back desirable regen outside of WP, which seems to be doing the best. Even the Beech that is present has evidence of browse.																																																												
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102	3205 - Mixed Upland Shrub	Nonstocked	113.4		Unspecified	Managed Opening	-High quality shrub complex that was burned on May 21, 2018 as part of the Hare Trail Rx Burn. Another project with Huron Pines is currently ongoing to kill some of the black cherry. Re-evaluate in 2020 to monitor shrub species health following the burn and to see if various aspen clones throughout the stand have sprouted back. Regen is inadequate as some aspen seedlings are present near the clones of aspen that are present throughout the complex. However heavy browse is observed throughout the stand and survival is limited.																																																												
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103	4130 - Aspen	Poletimber Well	6.4	39	81-110	N/A	5 BA plots were conducted for an average of 110 sq ft. Predominately pole stand with some log sized stems mixed in. No desirable regen in the understory outside of WP, which is present in various size classes. Red oak and White pine appear to have been retained in the previous harvest. Large diameter red oak logs are of high quality; however no oak regen appears to be successful.																																																												
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104	4319 - Mixed Upland Forest	Sawtimber Well	0.0	87	81-110	N/A	-Stand is a hodgepodge mix of everything. The NW finger of this stand is wet and has a small intermittent stream which drains southeasterly down to Sturgeon Valley Road. The upper part of this finger contains small balsam fir and black ash which has been killed by the Emerald Ash Borer. There is a pocket of white spruce and cedar up the slope adjacent to the boundary of S73. The aspen component is beginning to deteriorate.-There are two small pockets of planted red pine in this stand. One small (1 ac) pocket south of the drain, and then a vein of red pine that extends from the parking lot up long the trail to the NE.-A day-use parking lot is a part of this stand and is located off of the sharp corner on Sturgeon Valley Road.																																																																	
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105	4130 - Aspen	Poletimber Well	6.1	41	51-80	N/A	-This stand is a series of small isolated stands within a larger shrub complex. The stands were burned on May 21, 2018 as part of the Hare Trail Rx Burn. Desirable regen is inadequate following Hare Trail Rx Burn would recommend maintaining through continued prescribed burning. Any regen that is present has been browsed heavily.																																																																	
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106	42210 - Natural Red Pine	Sawtimber Well	45.4	74	81-110	N/A	Previous inventory recorded several different age classes of RP in this stand through coring. This stand was thinned roughly 10 years ago, removing most of the hardwood component. This predominant RP stand has lesser components of large diameter red oak and a rising population of white pine. Lesser components of residual big tooth aspen and red maple are still present from the previous harvest. No desirable regen is having success in the understory, as even the Beech is being browsed.																																																																	
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107	320 - Upland Shrub	Nonstocked	5.6		Unspecified	No	A portion of this stand was used as a landing for the adjacent cut to the west. Some aspen regeneration has begun to sprout along the clear cut that occurred in the winter of 201-17 in the adjacent S142 to the west.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
108	4119 - Mixed Northern Hardwoods	Sawtimber Well	14.6	106	81-110	N/A	-Undulating terrain consisting of ridges and valleys throughout the stand. Some very steep slopes. Only a few parts in the stand that would be operable.-Several of the valleys have natural seepages.-Beech is a heavy component of this stand. Beech scale was present on scattered trees. And the health of beech in this stand is beginning to rapidly deteriorate.-In addition to the species listed, there were scattered XL red oak and pole size yellow birch, although both were uncommon. - Sugar maple site index = 60, for a 75 year old tree, 78 feet tall.-Red maple site index = 63, for a 86 year old tree, 89 feet tall.-15 basal area plots were taken with a stand average of 113 sq ft per acre.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		22	Pole	9	88	Hemlock		Low	10 - 20 feet	Pole
Bigtooth Aspen		12	Log	14		White Spruce		Trace	< 5 feet	Sapling
Basswood		7	Log	11		Ironwood		Medium	< 5 feet	Sapling
White Pine		2	Log/XLog	13		White Pine		Low	Variable	Sapling
Beech		35	Log/Pole/XLog	10	106	Beech		High	5 - 10 feet	Sapling
Sugar Maple		22	Pole	8	106					
109	4310 - Pine, Oak Mix	Sawtimber Poor	6.1	72	1-50	N/A	Two small openings in the stand that may be a result of failed regeneration. Aspen seemed to have spread into these openings from adjacent aspen stand to the N. A shelterwood treatment was prescribed in this stand in the past. WP regeneration is abundant, with some trace RP being found as well. RM regeneration is sporadic and lacking due to heavy browse.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		26	Log/XLog	16	102	White Pine		Medium	Variable	Sapling
Red Maple		5	Pole	9		Red Maple		Low	< 5 feet	Seeding
Bigtooth Aspen		11	Pole/Sapling	6	39	Red Pine		Trace	5 - 10 feet	Sapling
White Pine		36	Log/Pole	11	72					
Red Pine		22	Log/Pole	11	72					
110	4130 - Aspen	Poletimber Well	8.9	48	Unspecified	N/A	-6 BA plots were conducted using 10 BAF prism for an average of 123 sq ft. There are scattered log-size red oak and white pine stems present in the stand, likely retention from the previous harvest. White pine regen is present in the understory in various size classes, no other desirable regen is present. This is likely due to high browse impact in the area.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		5	Log/XLog	14		Red Pine		Trace	5 - 10 feet	Sapling
Bigtooth Aspen		80	Pole/Log	8	48	Black Cherry		Low	< 5 feet	Sapling
White Pine		5	Pole	7		Red Maple		Medium	Variable	Sapling
Red Maple		10	Pole	8		White Pine		Medium	Variable	Sapling
						Serviceberry (Juneberry)		Low	5 - 10 feet	Sapling
111	42200 - Natural White Pine	Sapling Medium	5.2	36	1-50	N/A	-The majority of the overstory was removed in order to allow advanced regeneration to grow. However, there are only a few pockets of well stocked white pine regeneration. The remainder is sparsley stocked with poor quality aspen, red maple, and white pine regeneration. With the aspen regen predominately in a single clump in the south end of the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		3	Sapling	2		Black Cherry		Low	< 5 feet	Sapling
White Pine		70	Sapling/Pole	4	36					
Quaking Aspen		12	Sapling/Pole	4	36					
Red Pine		15	Log	13	83					
112	42200 - Natural White Pine	Poletimber Well	4.3	52	81-110	N/A	6 Basal Area plots using 10 BAF prism were conducted for an average of 106 sq ft. A small clone of aspen exists in the SE corner of the stand, while other stems are scarcely present throughout stand. Large diameter oak are present, predominately in the southern portion of the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		4	Log	13		White Pine		Medium	Variable	Sapling
Red Oak		8	Log/XLog	14		Black Cherry		Medium	5 - 10 feet	Sapling
Quaking Aspen		8	Pole	7		Red Maple		Low	< 5 feet	Seeding
White Pine		80	Pole/Log/XLog	8	52	Beech		Low	< 5 feet	Seeding
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
114	3105 - Mixed Upland Herbaceous	Nonstocked	3.2		Unspecified	No	The fingers to the NE and SW of this opening are beginning to fill in due to perimeter trees, as well RM and WP in the over story in the NE finger.																																																																
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115	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	2.7	83	111-140	N/A	Appears like this may have been treated as a shelterwood before. Large diameter RO share the canopy with some WP, and RP that were likely retention. Understory largely consists of recruited WP and RP sapling/pole recruitment. Heavy browse activity in this stand is extremely present when evaluating the lack of recruitment seen in the RM regen. 4 Basal area plots were conducted, yielding an average of 115 sq ft per acre.																																																																
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116	42210 - Natural Red Pine	Sawtimber Well	5.0	87	111-140	N/A	Stand was thinned roughly twenty years ago. Small acreage mature pine stand with some super canopy RP and WP present. Some of these RP appear to be native. Presence of WP is growing as WP regen appears to be the only successful in the understory. Heavy browse effects are present in the RM regen that exists.																																																																
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117	42200 - Natural White Pine	Sawtimber Well	48.6	80	111-140	N/A	-Thinned in 1993 (partial salvage from blowdown event). Some areas appeared to have been thinned heavier than others. -Red pine becomes more common in the north half of the stand and in the main portion of where the stand extends east. Also low populations of natural RP recruitment are scattered throughout stand. -A few scattered red maple and aspen are present, the latter having modest mid-story recruitment in the gaps that were more heavily thinned. - Heavy browse impact is present within stand, deer and elk bedding and sign have been found within stand. Beech has even been seen as being browsed within stand. -20 basal area plots were taken throughout the stand with an average of 122 sq. ft. per acre.																																																																
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118	4130 - Aspen	Poletimber Well	0.0	41	111-140	N/A	-Nice pole stand with limited saw log sized trees-A few scattered white pine, red oak, and red maple. Seventeen plots were recorded using a 10 BAF prism for an average of 107 sq ft per acre																																																																
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119	3301 - Low Density Deciduous Trees	Nonstocked	3.9		Unspecified	No	Small pocket of quaking aspen saplings in the NW corner of stand that is of poor quality. WP pole and saplings consist of the majority of stocking in the stand. Black cherry shrub populates the open areas within this stand. Sparse bigtooth aspen regen is found near the pocket of aspen in the north but is heavily browsed.
120	4130 - Aspen	Poletimber Well	19.7	44	111-140	N/A	Predominately big tooth aspen stand with a lesser component of quaking aspen found where the stand turns to the north. Larger diameter Oak, red pine, and white pine are also present, likely retained the last time this stand was cut. White pine regen has been successful here; although, red maple is found throughout the stand but due to heavy browse it is not find recruitment success into the mid story. I recorded 11 basal area plots across the stand for an average of 132 sq ft per acre.
121	4133 - Aspen, Mixed Pine	Sawtimber Well	4.4	98	Unspecified	N/A	This stand was left as a visual buffer when the aspen stand to the north was previously cut. Aspen within stand is heavily deteriorating and pose as hazards for adjacent Sturgeon Valley Road. There are some super canopy RP and WP present, with some of the RP appearing native. Regen in the understory is lacking outside of WP recruitment. Though some aspen seedling suggest aspen regen could be fruitful if harvested.
122	4310 - Pine, Oak Mix	Sawtimber Poor	26.7	67	1-50	N/A	This stand was cut as part of Stump Sprout Special, #53-002-14-01, whole-tree harvested in the winter of 2016-17, bought AJD. The west half of the stand was then burned on May 21, 2018 as part of the Hare Trail Rx Burn. The east half was excluded due to their being better aspen sprouting, however overall the regeneration has not responded well. There are a few small pockets of aspen regen but it is not widespread throughout the stand. Heavy browse damage was noted on aspen sprouts in the west/northwest part of the stand. Despite red maple being the primary volume removed during the harvest, I did not see any red maple stump sprouts that have survived browse. Black cherry is becoming abundant in some areas. The residual is primarily red oak and white pine and averages roughly 19 square feet per acre. The oak is mostly concentrated in the west/northwest part of the stand with some very large diameter stems. White pine is scattered throughout with all size classes being present. Do not burn this stand again, instead let this stand develop for another 10 years and monitor regeneration success during the next inventory visit. The hope is that white pine will start to seed in. If regeneration is not adequate then start the process of re-foresting the site, and leave the option open for another prescribed burn.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
123	110 - Low Intensity Urban	Nonstocked	3.2			No	Sturgeon Valley Road			
124	4133 - Aspen, Mixed Pine	Poletimber Well	2.9	52	Unspecified	N/A	Small acreage aspen stand acting as a buffer to clear cut performed in S142 to the south in the winter of 2016-17. Recommend waiting until next rotation to consider treatment and maintain as a buffer stand for aesthetics along Sturgeon Valley Road.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Sugar Maple	8	Pole/Log	8		White Pine	Medium	Variable	Sapling
		Red Maple	15	Pole/Sap/Log	7		Witch Hazel	Low	5 - 10 feet	Tall Shrub
		Bigtooth Aspen	47	Pole/Log	9	52	Black Cherry	Medium	< 5 feet	Seeding
		White Pine	15	Log/Pole	11		Red Maple	Low	< 5 feet	Seeding
		Red Pine	10	Pole/Log	9					
		Paper Birch	5	Log	11					
126	3105 - Mixed Upland Herbaceous	Nonstocked	1.1		Unspecified	No	This stand was burned on May 21, 2018 as part of the Hare Trail Rx Burn. Heavy to sweetfern.			
		Sub-Canopy Species	Density	Avg. Height	Size					
		Sweet Fern	High	< 5 feet	Tall Shrub					
		Bracken Fern	High		Non-Wood					
		Black Cherry	Trace	>20 feet	Tall Shrub					
127	42200 - Natural White Pine	Poletimber Poor	4.2	54	1-50	N/A	This stand was clearcut as part of Stump Sprout Special, #53-002-14-01, whole-tree harvest in the winter of 2016-17, bought by A.J.D. No oak or pine were cut. Average residual ba/acre from 3 plots = 20 square feet. A few poor-quality red maple and aspen were marked to leave as well. A small retention pocket was left on the west side. Prior to harvest this was a fully-stocked red maple stand. Regeneration has not come back well at this point. Most red maple stump sprouts are dead from persistent deer and elk browse. A few appear to still be alive but I doubt they will make it past the browse line. Clumps of aspen saplings are mostly in the western half of the stand but are not very numerous. Hopefully white pine will start to seed in. Monitor regeneration again during the next inventory cycle and if regeneration is not adequate then take actions to re-forest the site.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	10	Log/Pole	12		Red Oak	Trace	>20 feet	Sapling
		Bigtooth Aspen	2	Log	12		Bigtooth Aspen	Low	Variable	Sapling
		White Pine	84	Pole/Log	8	54	White Pine	Low	Variable	Sapling
		Red Oak	4	XLog/Log	18		Black Cherry	Medium	5 - 10 feet	Tall Shrub
							Quaking Aspen	Low	5 - 10 feet	Sapling
128	42200 - Natural White Pine	Poletimber Poor	7.0	80	51-80	N/A	-Variable sizes of white pine throughout. -Previous harvest in 1986 must have left the majority of the advanced white pine regeneration at that time. Aspen regeneration is sub-par with many of the browsed areas converted to non-forested inclusions.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Oak	3	Log	13	80	Beech	Low	< 5 feet	Seeding
		Quaking Aspen	10	Sapling/Pole	4	46	Red Maple	Low	< 5 feet	Seeding
		White Pine	79	Pole/Sap/Log	7	80	Black Cherry	Medium	5 - 10 feet	Seeding
		Black Cherry	1	Sapling	2		Quaking Aspen	Low	< 5 feet	Seeding
		Red Pine	7	Pole/Log	9		White Pine	High	5 - 10 feet	Sapling
129	4130 - Aspen	Sapling Well	15.6	5	Immature	N/A	This stand was cut in the winter of 2016-17 as part of Stump Sprout Special, #53-002-14-01, whole-tree harvest, bought by A.J.D. Two interior retention pockets were left and consist of mostly bigtooth aspen poletimber. All white pine and oak were left within the stand as well. Aspen has regenerated very well in most places of the stand. Browse damage on the aspen is very minimal, which is encouraging for this area.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		White Pine	12	Pole/Log	8		Black Cherry	Medium	5 - 10 feet	Tall Shrub
		Bigtooth Aspen	70	Sapling	1	5				
		Quaking Aspen	15	Sapling	1					
		Red Oak	3	XLog/Log	18					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
130	3205 - Mixed Upland Shrub	Nonstocked	11.3		Unspecified	No	High quality upland shrub stand with a lot of black cherry. This stand was burned on May 21, 2018 as part of the Hare Trail Rx Burn. Do not prescribe for another burn at this time.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	Trace	>20 feet	Pole
								Common Lowbush Blueberry	Medium	< 5 feet	Tall Shrub
								Sweet Fern	Medium	< 5 feet	Tall Shrub
								Bracken Fern	High		Non-Wood
								White Pine	Trace	< 5 feet	Seeding
								White Pine	Medium	Variable	Sapling
								Hawthorn (spp.)	Trace	10 - 20 feet	Tall Shrub
								Black Cherry	High	Variable	Tall Shrub
								Jack Pine	Trace	Variable	Sapling
								Jack Pine	Trace	>20 feet	Pole
								White Pine	Trace	>20 feet	Pole
Jack Pine	Trace	< 5 feet	Seeding								
131	3105 - Mixed Upland Herbaceous	Nonstocked	2.5		Unspecified	No	A clump of aspen splits this stand into two distinct openings. The norther half is surrounded by aspen clumps, along with two large Northern Red Oaks along the western border. The southern half has some pole and log sized white pine scattered throughout.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Bigtooth Aspen	Low	Unspecified	Pole
								Red Pine	Trace	Unspecified	Pole
								Balsam Poplar	Low	Unspecified	Seeding
								Red Oak	Low	Unspecified	Log
								Quaking Aspen	Low		Sapling
								White Pine	Medium		Log
								Bracken Fern	High		Non-Wood
								Black Cherry	Medium		Sapling
132	3105 - Mixed Upland Herbaceous	Nonstocked	2.4		Unspecified	No					
								Sub-Canopy Species	Density	Avg. Height	Size
								Bracken Fern	High	Unspecified	Non-Wood
								Red Pine	Trace	10 - 20 feet	Sapling
								Sweet Fern	Medium	< 5 feet	Tall Shrub
								White Pine	Low	10 - 20 feet	Pole
								White Pine	Medium	5 - 10 feet	Sapling
								White Pine	Low	>20 feet	Log
								Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub
								Black Cherry	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
133	42200 - Natural White Pine	Poletimber Medium	3.4	48	51-80	N/A	There is diverse stand that has two distinct aspen clones but is otherwise dominated by natural white pine poles and logs. All regeneration within the stand is lacking due to heavy browse, except the white pine seems to be doing well.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	73	Log/Pole	11	48	Balsam Poplar	Trace		< 5 feet	Seeding
Black Cherry	2	Pole	6	38	Black Cherry	Low		5 - 10 feet	Sapling
Bigtooth Aspen	6	Pole	6	38	Serviceberry (Juneberry)	Trace		5 - 10 feet	Sapling
Red Pine	2	Log	15		Red Maple	Low		< 5 feet	Seeding
Quaking Aspen	17	Pole/Sapling	6	38	Bigtooth Aspen	Low		< 5 feet	Seeding
					White Pine	Low	Variable	Sapling	
134	4133 - Aspen, Mixed Pine	Poletimber Well	8.6	36	51-80	N/A	Aspen in the pole size-class more prevalent in the north end of the stand. Decent stocking of white pine with minor components of red pine and black cherry. Southern portion of stand consists of white pine sapling and poles, with a minor component of black cherry saplings, jack pine, and aspen.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	76	Pole/Sapling	6	36	Black Cherry	Medium		5 - 10 feet	Sapling
Red Pine	5	Pole/Sap/Log	8		Red Pine	Low		5 - 10 feet	Sapling
White Pine	13	Pole/Sap/Log	8		Quaking Aspen	Low		< 5 feet	Seeding
Jack Pine	3	Sapling/Pole	4		White Pine	Low		10 - 20 feet	Sapling
Black Cherry	3	Sapling/Pole	4						
135	42220 - Natural Jack Pine	Poletimber Well	2.1	52	81-110	N/A	Small stand of jack pine adjacent to Sturgeon Valley Road and Hare Trail. Good quality jack pine for the most part with some sawtimber-sized trees mixed in. A small amount of red pine is present, mostly bordering Sturgeon Valley Road. A clump of large diameter white pine, including a legacy-size tree, can be found in the middle of the stand. The southeast corner of the stand is lowland with bog characteristics in the understory, including leatherleaf. Average ba/acre from 3 plots = 97 square feet. Due to its small size and visual aesthetics, no treatment is recommended for this stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	2	Log/Pole	14		Red Oak	Trace		>20 feet	Sapling
Jack Pine	95	Pole/Log	8	52	Black Cherry	Low		Variable	Tall Shrub
White Pine	3	Log/XLog	16		White Pine	High	Variable	Sapling	
136	4130 - Aspen	Poletimber Medium	1.9	57	51-80	N/A	Small aspen stand with a dense understory of white pine in most places. This stand was burned on May 21, 2018 as a part of the Hare Trail Rx Burn. The burn didn't impact the understory white pine much except for a small pocket in the middle of the stand that got killed. Aspen diameters are larger in the west part of the stand and smaller next to Hare Trail. Average ba/acre from 2 plots = 75 square feet. Do not manage due to its small size and let it convert to white pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	80	Log/Pole	11	57	Black Cherry	Medium		Variable	Tall Shrub
Red Pine	2	Log	12		White Pine	High		Variable	Sapling
Bigtooth Aspen	5	Pole	8						
Red Maple	5	Log/Pole	13						
White Pine	8	Pole/Log	8						
137	42290 - Natural Mixed Pine	Sawtimber Well	4.2	73	111-140	N/A	-Small acreage stand. Leave for aesthetics along Sturgeon Valley Road. There is a pocket of mature Log/XL Red Pine that borders the west side of this stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Jack Pine	4	Log	11		Serviceberry (Juneberry)	Trace		5 - 10 feet	Sapling
Red Maple	1	Pole	7		Quaking Aspen	Low		< 5 feet	Seeding
Quaking Aspen	23	Pole/Log	8		Red Maple	Low		< 5 feet	Sapling
Red Pine	33	Log	12	73	Red Pine	Trace		5 - 10 feet	Sapling
White Pine	39	Log/Pole/XLog	13	73	White Pine	Low		Variable	Sapling
					White Spruce	Trace		< 5 feet	Seeding
					Black Cherry	Medium	5 - 10 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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138 3105 - Mixed Upland Herbaceous Nonstocked 2.0 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	10 - 20 feet	Pole
Red Pine	Trace	10 - 20 feet	Pole
Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
Black Cherry	Medium	5 - 10 feet	Sapling
Sweet Fern	Medium	5 - 10 feet	Tall Shrub
White Pine	Low		Pole
White Pine	High	5 - 10 feet	Sapling
Bracken Fern	High	Unspecified	Non-Wood

139 42201 - Natural White Pine, Mixed Poletimber Medium 10.1 38 81-110 N/A

-Highly variable stocking. North end of stand has small pocket of mature red oak from previous shelterwood. Underneath oak is heavily stocked with white pine sapling and pulp. Rest of stand is a mix of forested/non-forested areas. Non-forested areas a result of elk browse on aspen regeneration and consists of WP sapling and BC shrub.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	12	Sapling/Pole	4		White Pine	Medium	5 - 10 feet	Sapling
White Pine	64	Pole/Log/Sap	8	38	Red Pine	Trace	10 - 20 feet	Sapling
Red Oak	20	Log/XLog	16	102	White Pine	Medium	10 - 20 feet	Pole
Black Cherry	1	Sapling/Pole	3		Black Cherry	Medium	5 - 10 feet	Sapling

140 42290 - Natural Mixed Pine Sawtimber Well 8.8 87 111-140 N/A

-Heavy browse damage to red maple regeneration
-Multiple size classes of pine present throughout this stand.
-9 basal area plots were recorded with an average of 138 sq. ft. per acre.
-Mature pine stand with some native XL RP and WP present with a small composition of L and XL red oak. In areas where the pine is thinner, modest recruitment of red maple and aspen poles are present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Log/XLog	14		Red Maple	Low	10 - 20 feet	Pole
Red Maple	4	Pole	7		Bigtooth Aspen	Low	>20 feet	Sapling
White Pine	51	Log/XLog/Pole	13	87	Black Cherry	Low	< 5 feet	Seeding
Red Pine	40	Log	14	101	Beech	Low	< 5 feet	Seeding
					Red Pine	Low	10 - 20 feet	Sapling
					White Pine	Medium	>20 feet	Pole
					Red Maple	High	< 5 feet	Sapling
					White Pine	Medium	Variable	Sapling

141 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 19.2 102 81-110 N/A

-Portions of this stand appeared to have been treated in the past while other parts of the stand were not (highly variable). A few untouched areas with a hardwood component. The past treatment likely removed all aspen and red maple based on the amount of pole/sapling sized regeneration of these two species. No desirable regen to speak up in the understory, as heavy browse impacts are readily evident in the area. Beech regen found in the understory was readily browsed. Aspen is likely nearing treatable size and age; however the red maple is lagging behind.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	2	Pole	6		Balsam Fir	Low	Variable	Sapling
Beech	1	Pole/Log	8		White Spruce	Trace	< 5 feet	Seeding
Red Oak	35	Log/XLog/Pole	14	102	White Pine	Medium	Variable	Sapling
Red Maple	6	Pole/Sap/Log	7		Red Maple	Medium	>20 feet	Sapling
White Pine	18	Pole/Sap/Log	8		Bigtooth Aspen	Low	>20 feet	Sapling
Bigtooth Aspen	35	Pole/Log/Sap	7	39	Beech	Medium	< 5 feet	Seeding

Some trace sugar maple saplings and pole timber is present in this complex.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
142	4130 - Aspen	Sapling Medium	9.8	5	1-50	N/A	Stand cut as part of Stump Sprout Special, #53-002-14-01, whole-tree harvest in winter of 2016-17, AJD. Retention island was left consisting of white pine, red pine, red maple, and big tooth aspen. Aspen regeneration is sporadic in this stand, as it has been heavily hit with browse; however, 11 regeneration plots were conducted for an average of 3209 seedlings per acre.																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>3</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>7</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td>85</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>80</td> <td>Sapling</td> <td>2</td> <td>5</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	3	Log	14		Red Pine	7	Log/Pole	10		White Pine	10	Log/Pole	10	85	Bigtooth Aspen	80	Sapling	2	5
Canopy Species	% Cover	Size Class	DBH	Age																												
Red Oak	3	Log	14																													
Red Pine	7	Log/Pole	10																													
White Pine	10	Log/Pole	10	85																												
Bigtooth Aspen	80	Sapling	2	5																												