



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53041

Entry Year 2025

Acreage: 1,831

County Otsego

Management Area: Wolverine Moraines

Stand Examiner: Jake Halabut

Legal Description:

T32N R01W Sections 25, 26, & 27

Identified Planning Goals:

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

Soil and topography:

The terrain ranges from predominantly lowland in Section 27 and along the Black River to rolling terrain in Sections 25 and 26. There are also lowland types along Hardwood Creek. The uplands are a mixture of pine, oak, and aspen types. The northern hardwood cover type is rare in this compartment. Roselawn and Rubicon sands make up the majority of the uplands, with some Emmet sandy loam in the northern portion of Section 26. Rifle peats are predominant in the lowlands.

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

Sections 25 and 27 are all in state ownership. In Section 26, the state acquired 226 acres (Kronlund tract, 11/30/2001). There is roughly 54 acres of private ownership located in the SE 1/4 of Section 26. This compartment is surrounded by state land on all sides with the exception of the east side of Section 25 south of Hardwood Creek, which is privately owned.

Unique Natural Features:

Hill's Thistle is the only rare species that has been documented in this compartment.

Archeological, Historical, and Cultural Features:

None identified.

Special Management Designations or Considerations:

Three stands in Section 25 have been designated as Special Conservation Areas. Each of these stands are comprised of large diameter red and white pine of natural origin, many in excess of 120 years of age.

Watershed and Fisheries Considerations:

The Black River is a designated trout stream and runs through the southern edges of Sections 26 and 27.

Wildlife Habitat Considerations:

Treatments in this compartment will maintain early successional habitat on the forest. A large oak and oak/pine area in the eastern central part of the compartment will be untreated and will continue to provide oak mast that is used by deer, elk, turkeys and bear from a large area.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel, postglacial alluvium and coarse-textured glacial till. Glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Devonian Antrim Shale. The Antrim is quarried for clay/shale and cement products elsewhere in the State. The nearest gravel pit is in Section 25 and potential is considered good, especially in the upland areas, however page 30 of the Concept of Management for the PRC says that extraction of surface minerals will rarely be allowed. This area is/was partially leased for oil and gas development with production from the Niagaran reef trend. Additional Niagaran reefs are likely in the compartment. The Antrim Shale has not been developed but has potential in the compartment. There is excellent oil and gas potential for known producing formations in this compartment, however the entire compartment is within the Consent Order Area and, as provided on page 33 of the Concept of Management, no new leases will be issued in the Area.

Vehicle Access:

There is good access throughout most of Sections 25 and 26. Section 27 has rather limited access due to the large amount of swampland.

Survey Needs:

None required at this time.

Recreational Facilities and Opportunities:

The High Country Pathway and North Spur of the Shore to Shore Riding Trail both pass through the compartment. Trout fishing is popular along the Black River with several undesignated camping spots routinely used near the shores of the Black River.

Fire Protection:

Fire risk is moderate in this compartment due to pine dominant types in Sections 25 and 26. Access is good in case of any fire suppression efforts.

Additional Compartment Information:

The following reports from the Inventory are attached:

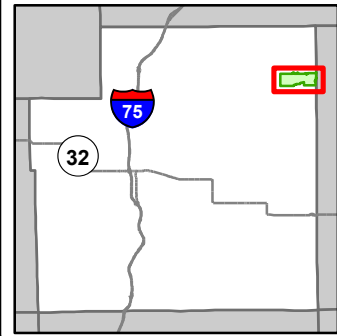
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

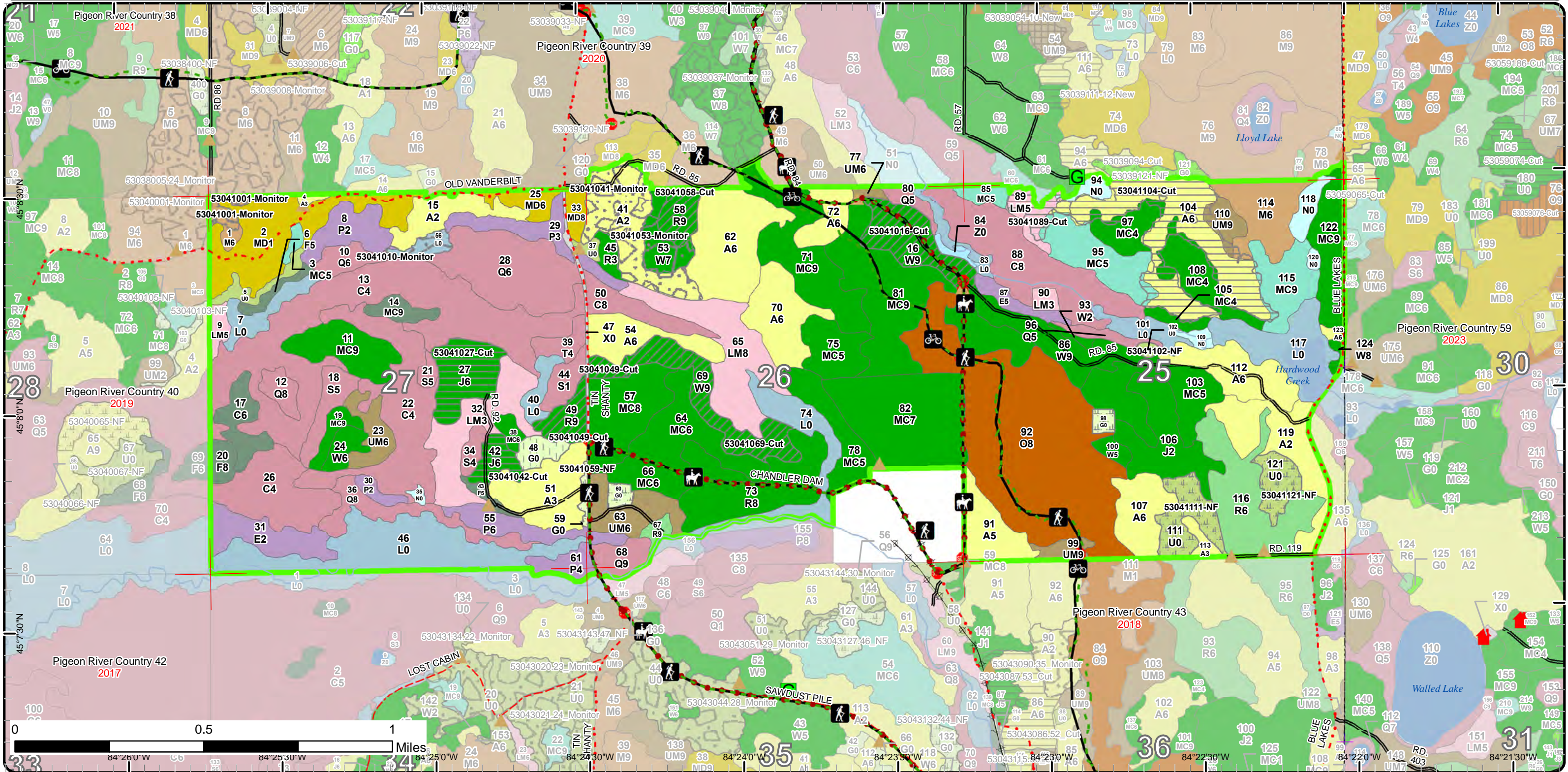
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

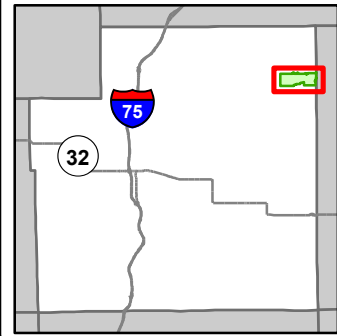
Compartment: 41
 T32N, R01W, Sec: 23, 24, 25-27,
 34, 35
 County: Otsego
 Unit: Pigeon River Country
 Mgmt Area: Wolverine Moraines
 YOE: 2025
 Acres: 1830.6 GIS Calculated
 Examiner: Jake Halabut
 Map Revised: 6/14/2023
 Map Phase: Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Hiking Trails
- Bike Trails
- Horse Trails
- Ski Trails
- - - Designated Hiking Trails
- - - Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Cabin
- Berms
- Gate
- Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Opening Maintenance
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

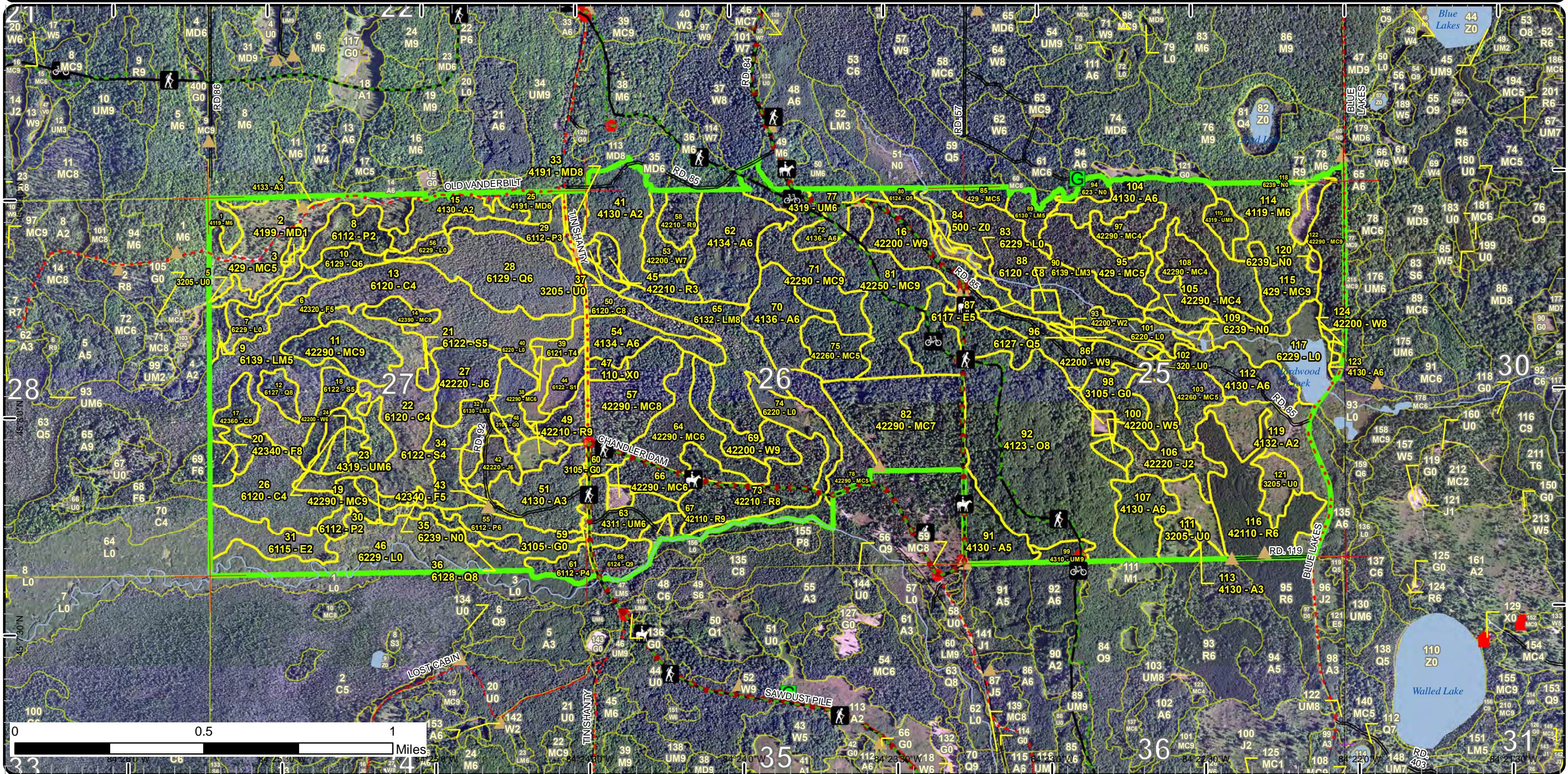


Stand Boundary Map



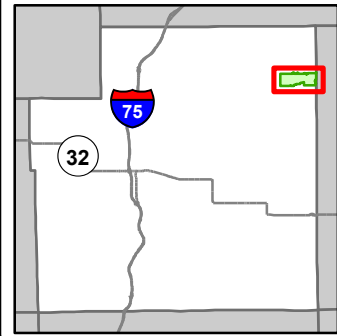
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 T32N, R01W, Sec: 23, 24, 25-27,
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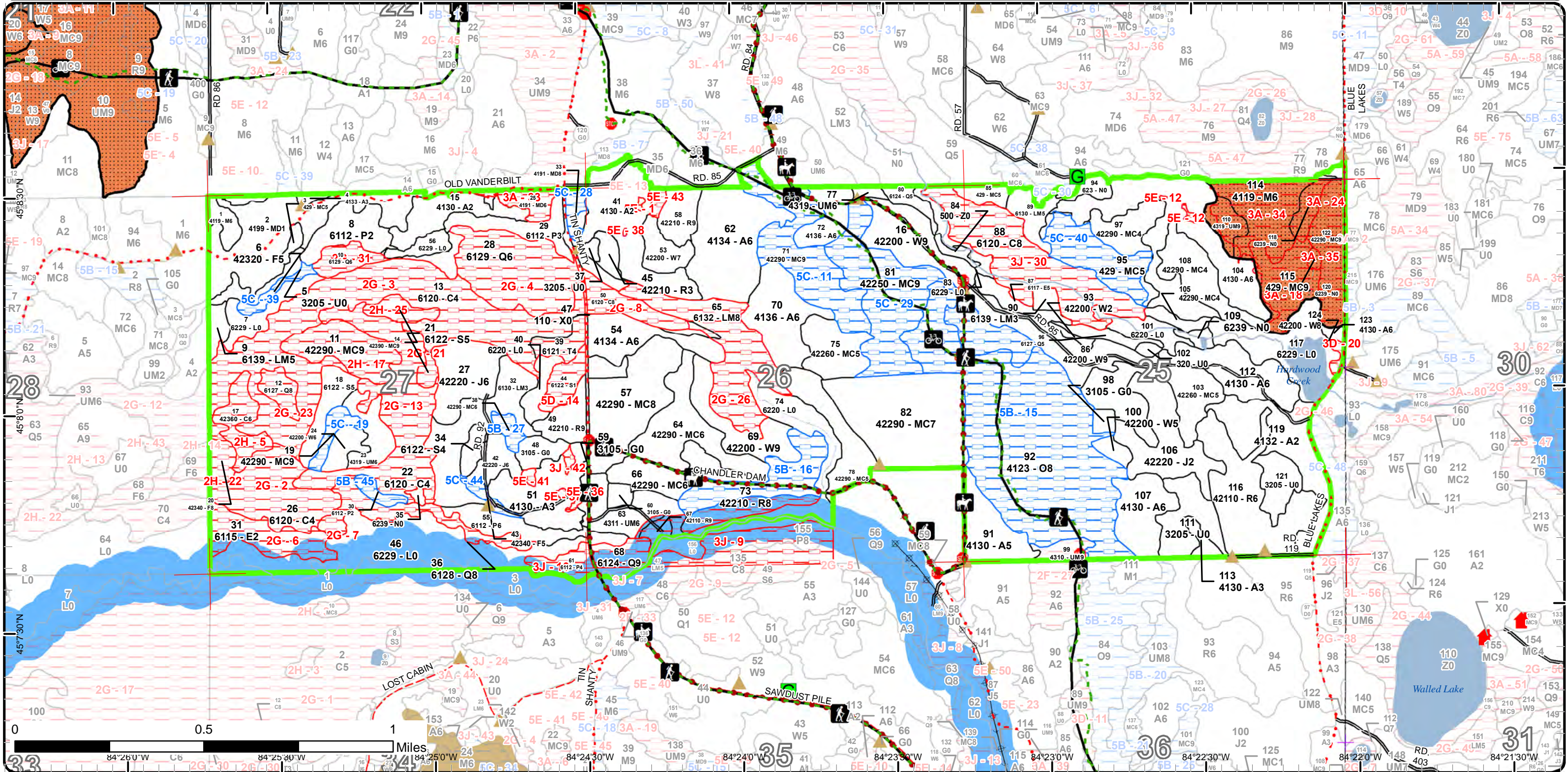


Special Conservation Areas

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 T32N, R01W, Sec: 23, 24, 25-27, 34, 35
 County: Otsego
 Unit: Pigeon River Country
 Mgmt Area: Wolverine Moraines
 YOE: 2025
 Acres: 1830.6 GIS Calculated
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- 🏠 Cabin
- 🏔 Berms
- 🚪 Gate
- 🛑 Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ⚡ Powerline
- 🟩 Compartment Boundary
- 🟦 Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- 🏠 SCA
- 🌲 Forest Habitat Core Interior
- 🌊 Cold Water Streams
- 🌊 Cold Water Lakes
- 🌊 High Priority Trout Stream Buffer
- 🏠 Other Habitat Area
- Stand Boundaries



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	69	28	1	92	48	46	0	0	0	0	0	0	0	0	0	0	0	284
Cedar	0	0	0	0	0	0	0	0	0	0	0	56	28	55	0	94	0	0	233
Herbaceous Openland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Jack Pine	0	0	0	25	0	0	26	0	0	0	0	0	0	0	0	0	0	0	51
Lowland Aspen/Balsam Poplar	0	0	0	0	44	0	7	0	0	0	0	0	0	0	0	0	0	0	50
Lowland Conifers	0	0	0	0	4	4	0	0	0	7	0	48	21	0	0	0	0	0	84
Lowland Deciduous	0	0	0	0	6	0	0	0	0	0	17	0	0	0	0	0	0	0	23
Lowland Mixed Forest	0	0	0	0	33	0	0	8	0	0	34	0	0	0	0	0	0	0	75
Lowland Shrub	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
Lowland Spruce/Fir	0	0	0	0	9	0	0	7	0	0	0	6	0	0	0	0	0	0	22
Marsh	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Mixed Upland Deciduous	0	0	0	40	0	0	7	0	0	0	4	0	0	0	0	0	0	0	51
Natural Mixed Pines	0	0	0	0	0	81	48	0	32	0	56	87	19	0	0	19	0	0	340
Northern Hardwood	0	0	0	0	0	0	0	0	0	6	0	21	0	0	0	0	0	0	27
Oak	0	0	0	0	0	0	0	0	0	0	121	0	0	0	0	0	0	0	121
Red Pine	0	0	0	0	41	0	0	0	0	11	30	12	0	0	0	0	0	0	94
Tamarack	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
Upland Conifers	0	0	0	0	0	6	21	0	0	0	5	0	0	0	0	0	0	17	49
Upland Mixed Forest	0	0	0	0	9	17	0	0	0	4	0	0	6	0	0	0	0	0	36
Upland Shrub	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Upland Spruce/Fir	0	0	0	0	0	0	0	3	5	4	0	0	0	0	0	0	0	0	11
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	1	0	0	0	10	9	0	42	16	0	2	0	0	0	0	0	80
Total	192	69	29	66	238	156	165	27	37	74	289	230	76	55	0	113	0	17	1829



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 149
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	52	0	0	0	0	0	0	0	0	52
Jack Pine	26	0	0	0	0	0	0	0	0	26
Lowland Mixed Forest	8	0	0	0	0	0	0	0	0	8
Red Pine	0	0	0	0	20	0	0	0	0	20
White Pine	0	0	0	0	43	0	0	0	0	43
Total	86	0	0	0	64	0	0	0	0	149

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	149	0	0	0	0	46	0	37	0	232
Next Step	0	0	0	0	0	86	0	0	0	86
Total	149	0	0	0	0	131	0	37	0	317



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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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Proposed Treatments:

16	53041016-Cut	20.7	42200 - Natural White Pine	Sawtimber Well	85	111- 140	Harvest	Crown Thinning	4220 - Natural White Pine	Uneven- Aged	No
<p><u>Prescription</u> -Thin down to 80-90 BA/acre. Create one 66' or greater canopy gap for every two acres.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - Try and focus placement of canopy gaps near mature oak if possible, in attempt to spur oak regeneration. -Focus thinning on WP poles and small sawtimber. - Do not cut any other species and allow the aspen to senescence. - Add trail protection specs for STS and associated signage <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2024</p>											

27	53041027-Cut	18.8	42220 - Natural Jack Pine	Poletimber Well	56	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut all species in hopes of expanding the aspen from adjacent S32.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - LTM to retain mature spruce or mixed pine species to act as seed trees to aid in regeneration. LTM should not exceed 10 BA - Retain 1-2 islands to capture denser pockets of either spruce and/or red pine. Retention may be included into the boundary, especially when targeting spruce. <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> A moderate stocking of a mixture of pine, spruce, fir and aspen will be acceptable.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2024</p>											

42	53041042-Cut	7.1	42220 - Natural Jack Pine	Poletimber Well	55	81-110	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut all species in hopes of expanding adjacent aspen.</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> - LTM to retain mature jack and red pine, as well as spruce as seed trees to aid in regeneration. - Do not exceed 10 BA with residual <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate stocking of a mixture of aspen, pine, and hardwood will be acceptable.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2024</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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48	53041048-NF	5.4	3105 - Mixed Upland Herbaceous	Nonstocked	Immature	NonForestMgt	Brush Cutting	310 - Herbaceous Openland		No
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Prescription Maintain the non-forested condition of this stand either through burning, planting, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

49	53041049-Cut	11.7	42210 - Natural Red Pine	Sawtimber Well	107	111-140	Harvest	Crown Thinning	4221 - Natural Red Pine	Uneven-Aged	No
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Prescription Utilize single tree selection to thin out this stand down to ~80-100 sq ft.

Specs:
 - Thin from below, as well as focus on high risk and poor form trees.
 - Focus on big tree management with this stand due to its small acreage

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

58	53041058-Cut	8.6	42210 - Natural Red Pine	Sawtimber Well	89	81-110	Harvest	Crown Thinning	42210 - Natural Red Pine	Uneven-Aged	No
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Prescription Utilize single tree selection to thin out this stand down to ~80-100 sq ft. Thin from below and high risk, poor form trees.

Specs:
 - Focus on big tree management due to the small acreage

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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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59	53041059-NF	1.4	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Maintain the non-forested condition of this stand either through burning, planting, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

60	53041060-NF	2.5	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription General opening maintenance which may include tilling, mowing, brush cutting, brush pile creation, Rx fire, tree planting, crop planting, brush pile creation, tree removal, and herbicide.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

69	53041069-Cut	22.5	42200 - Natural White Pine	Sawtimber Well	99	111-140	Harvest	Crown Thinning	42200 - Natural White Pine	Uneven-Aged	No
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Prescription -Thin down to 80-90 BA/acre. Create one 66' or greater canopy gap for every two acres.

Specs: -Focus thinning on WP poles and small sawtimber.

- JP and aspen comprise small percentage of BA, consider allowing these species to senescence

Next Step

Treatments:

Acceptable

Regen:

Other

Comment: East side of stand is wet but ground seems solid. Suggest harvesting in dry summer or utilize retention/alter treatment area if soil concerns persist.

Site Condition

Proposed Start Date: 10/1 /2024



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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
98 53041098-NF	2.3	3105 - Mixed Upland Herbaceous	Nonstocked		Immature	NonForestMgt	Other - Specify	3302 - Low Density Conifer Trees		No
<p><u>Prescription</u> General opening maintenance which may include tilling, mowing, brush cutting, brush pile creation, Rx fire, tree planting, crop planting, brush pile creation, tree removal, and herbicide.</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 /2024</p>										
102 53041102-NF	1.2	320 - Upland Shrub	Nonstocked		Immature	NonForestMgt	Brush Cutting	320 - Upland Shrub		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, planting, 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 /2024</p>										
111 53041111-NF	15.0	3205 - Mixed Upland Shrub	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	330 - Low-Density Trees		No
<p><u>Prescription</u> Manage stand either through burning, planting, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p>Potential good site for hard and soft mast planting</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 /2024</p>										
121 53041121-NF	9.2	3205 - Mixed Upland Shrub	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	330 - Low-Density Trees		No
<p><u>Prescription</u> Manage stand either through burning, planting, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p>Potential good site for hard and soft mast planting</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 /2024</p>										



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Approved Treatments:

1	53041001-Monitor	3.7	4119 - Mixed Northern Hardwoods	Poletimber Well	82	81-110	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Monitor canopy gaps. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Any mix of species will be acceptable. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
56	53041010-Monitor	4.3	6229 - Mixed lowland shrub	Nonstocked	0		Monitoring	Natural Regen (Intermediate)	6128 - Lowland Coniferous, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Regen survey at TCR + 4 years. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Any mix of swamp conifers resulting in a stocked stand. A non-forested stand will initially be accepted as well as regeneration may take some time to fill in. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
41	53041041-Monitor	29.8	4130 - Aspen	Sapling Medium	3	Immature	Monitoring	Natural Regen (Intermediate)	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Regen survey at TCR + 4 years <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Any mix of aspen, red maple, and conifers resulting in at least a medium-stocked stand. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <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
53 53041053-Monitor	7.8	42200 - Natural White Pine	Sawtimber Poor	56	1-50	Monitoring	Natural Regen (Intermediate)	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Regen survey at TCR + 4 years</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of aspen, red maple, and conifer species resulting in at least a medium-stocked stand.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
89 53041089-Cut	7.5	6130 - Fir, Aspen, Maple	Poletimber Medium	60	81-110	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with no area retention.</p> <p><u>Specs:</u></p> <p>This sale is being re-setup and sold. It was initially part of a sale called Amoebic Aspen (53-013-15) dropped by Precision in 2019.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of species that results in a well-stocked stand.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
104 53041104-Cut	52.1	4130 - Aspen	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention.</p> <p><u>Specs:</u></p> <p>This sale is being re-setup and sold. It was initially part of a sale called Amoebic Aspen (53-013-15) dropped by Precision in 2019.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen regeneration that meets stocking guidelines.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment 231.6
Acres Proposed:

Availability for Management

Total Acres Acres Available Acres Available Acres Not Available

Dominant Site Conditions

Total Acres	Acres Available	Acres Available		Dominant Site Condition	Dominant Site Conditions										
		With Condition	Not Available		5B	5C	2F	2G	2H	3A	3D	3J	5D	5E	
284	280	0	4	Aspen	0	0		0		0			1		3
234	1	0	233	Cedar				177	11				44		
11	11	0	0	Herbaceous Openland											
51	51	0	0	Jack Pine				0							
50	40	3	7	Lowland Aspen/Balsam Poplar	3			0		0			7		
84	12	0	71	Lowland Conifers				64					8		
22	6	0	17	Lowland Deciduous				17					0		
74	40	0	34	Lowland Mixed Forest				34					0		
128	128	0	0	Lowland Shrub				0		0			0	0	
22	13	0	9	Lowland Spruce/Fir				2						7	
13	7	0	6	Marsh				0		6					
51	41	4	6	Mixed Upland Deciduous		4				6					
342	211	95	37	Natural Mixed Pines	3	91		0	19	18			0		
27	7	0	21	Northern Hardwood						21					
121	0	121	0	Oak	121										
94	62	21	12	Red Pine	21			0					12	0	
6	0	0	6	Tamarack				6							
50	9	19	22	Upland Conifers		19		0	5	17			0		
37	26	0	11	Upland Mixed Forest	0		4	0		4			2		
32	32	0	0	Upland Shrub											
11	0	6	5	Upland Spruce/Fir		6		0	5						
5	5	0	0	Urban				0							
2	2	0	0	Water											
79	76	0	3	White Pine	0							1			2
1,831	1,059	268	503	Total Forested Acres	148	120	4	300	40	72	1	74	7		5
	58%	15%	28%	Relative Percent											

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Jake Halabut : Examiner

Compartment: 41

Year of Entry: 2025

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	28	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Very wet and poor quality.							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	100	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Most species exhibited very poor growth in these stands.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	36	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Ground is very wet in places. Poor quality.							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Ability to regenerate cedar is not possible with current deer numbers.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments: Standing water present. Growth on stems indicates that this is likely an unproductive site.							

Report 4 – Site Conditions

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Year of Entry: 2025

7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Many parts of this stand, particularly the western half, are very wet.							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Cedar regeneration not possible under current browsing pressure.							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The influence zone for the Black River.							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Influence zone of the Black River.							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Manage for large diameter trees and on a longer rotation. Possible type 2 old growth, see stand comments. Delay treatment to coincide with S81 harvest.							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	44	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Wet and very poor quality.							
14	Unavailable	5D: Unproductive Forest Land	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5B: Maintain for regeneration purposes	121	Unspecified	Unspecified	Unspecified	Unspecified
Comments: All red maple and aspen were removed in previous harvest.							
16	Available	5B: Maintain for regeneration purposes	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: All aspen was removed in previous harvest 5 years ago and regeneration is abundant in some areas.							
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Isolated stand, road construction would be significant and would have to cut through regeneration and lowland. Stand is possible type-2 old-growth.							
18	Unavailable	3A: Conservation Values incompatible with harvest at this time	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Old-growth designation.							

Report 4 – Site Conditions

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19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3D: Recreational / Scenic values	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Isolated stand. Not much timber value.							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Isolated stand. Small acreage, not much timber value. Road would cut through wetland.							
24	Unavailable	3A: Conservation Values incompatible with harvest at this time	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Old-growth designation							

Report 4 – Site Conditions

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Compartment: 41

Year of Entry: 2025

25	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Isolated stand, small acreage. Road would cut through wetland.							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	35	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	5B: Maintain for regeneration purposes	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Allow spruce to mature more in the understory.							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hardwood Creek passes through this stand. Cedar regeneration not possible due to herbivory.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

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Compartment: 41

Year of Entry: 2025

31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	3A: Conservation Values incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Large hemlock component. Leave unmanaged.							
34	Unavailable	3A: Conservation Values incompatible with harvest at this time	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Meridian Line SCA							
35	Unavailable	3A: Conservation Values incompatible with harvest at this time	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
 Jake Halabut : Examiner

Compartment: 41
 Year of Entry: 2025

38	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small acreage stand, would be best to harvest with adjacent stand							
40	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: A couple of massive white spruce in this area.							
42	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wetland pocket.							
43	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Jake Halabut : Examiner

Compartment: 41

Year of Entry: 2025

44	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Delay until next inventory cycle at least and reevaluate to try and harvest with S55 to the south.</p>							
45	Available	5B: Maintain for regeneration purposes	3	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							



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
Meridian Line Pine	Habitat Area	Other Habitat Area	SCA	69
Comments				
This area has sections of very large and old red and white pine. No management activities will take place within the area which will result in the further development of old growth structure.				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
1	4119 - Mixed Northern Hardwoods	Poletimber Well	6.0	82	81-110	N/A	Stand thinned in summer of 2018, 4 Corner Hardwoods (#53-010-15-01) bought by Precision. All ash and the majority of beech removed and the rest of the stand was thinned using hardwood selection techniques, except a small area at the south end was left unmarked for retention purposes. Average residual ba/acre from 4 plots = 95 square feet.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		50	Pole/Log	9	82	Beech		
Red Maple		13	Log/Pole	10		Ironwood		
Basswood		24	Log/Pole	11		Density		
Beech		2	Pole	7		Avg. Height		
Ironwood		2	Pole/Sapling	5		Size		
White Pine		2	XLog	25				
Red Oak		2	Log/XLog	17				
Red Pine		5	Log	15				
2	4199 - Other Mixed Upland Deciduous	Sapling Poor	39.5	25	1-50	N/A	-"Watergun RPP", sale # 53-017-08-01. All RP cut except for a few scattered trees. Bought by Northern Pressure Treated Wood. Previously thinned in 1998, that is the year of origin for the understory hardwoods that were released by the most recent treatment. Unfortunately the majority of released hardwoods are undesirable species. A few clumps of aspen are present near the center of the stand, some of which are pole sized Timber. there are some dense pockets of red pine regen, and scattered red pine saplings throughout. Quality and overall stocking of regen decreases as you head west and south. Here, you begin to see some more shrub black cherry mixed in. stand could develop into a aspen - pine mix eventually but prescribing for a treatment may be difficult due to the variability in stocking. -Other species that were present but rare included paper birch, white spruce, tamarack, sugar maple, red oak, and jack pine. Spruce and fir mostly in the east finger of stand. Black cherry sprouts are abundant in places but I doubt they will become merchantable.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		2	Sapling	2		Red Pine		
Red Pine		2	Sapling	2		Bracken Fern		
Red Maple		19	Sapling	2		Beech		
Ironwood		28	Sapling	2		Alder		
Beech		10	Sapling	1		Bigtooth Aspen		
Bigtooth Aspen		32	Sapling	4	25	Black Cherry		
Balsam Fir		5	Sapling/Pole	3				
Red Pine		2	Log/XLog	16				
3	429 - Mixed Upland Conifers	Poletimber Medium	1.9	49	1-50	N/A	-This stand was not included with the larger surrounding stand that was harvested. Potentially a retention pocket? Wide mix of species. -Some nice RO, RP, and JP saps. -Paper birch, white oak, and white spruce were also present but rare.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		30	Pole	7		Hazelnut (American)		
Red Oak		2	Pole	6		White Pine		
Balsam Fir		10	Pole	7		Jack Pine		
White Pine		33	Pole/Log	8	49	Beech		
Jack Pine		15	Pole/Sapling	5		Red Pine		
Red Pine		10	Log/Pole	10				
4	4133 - Aspen, Mixed Pine	Sapling Well	1.2	25	Immature	N/A	-Other species that were present but rare included black cherry, sugar maple, red pine, red oak, and beech. Part of a larger stand in the adjacent compartment.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		20	Sapling	2				
Bigtooth Aspen		66	Sapling	2	25			
Red Maple		4	Sapling	2				
White Pine		4	XLog/Log	18				
Ironwood		6	Sapling	2				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
5	3205 - Mixed Upland Shrub	Nonstocked	5.2			No	-Filling in with conifers: white pine, white spruce, balsam fir. Some aspen from thr adjacent CC have began to slowly creep in.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Low		Log	
								White Pine	Trace		Sapling	
								Black Cherry	High		Tall Shrub	
								Red Maple	Trace		Pole	
								Jack Pine	Medium		Sapling	
								Balsam Fir	Trace		Pole	
								Red Pine	Trace		Sapling	
								Sweet Fern	Low		Tall Shrub	
White Spruce	Trace		Pole									
6	42320 - Upland Spruce	Poletimber Medium	3.5	83	51-80	N/A	-Stand lies on a transition between upland and lowland, portions of this stand have standing water in it but it has also been a wet spring. Nice looking spruce, lowland aspen stand. Residual, large diameter red pine suggests this stand was previously harvested. -Tamarack and white pine were also present although rare.- 5 plots taken for an average BA of 94 sq ft					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	5	Log	12	
								Red Pine	9	XLog/Log	20	
								Black Spruce	81	Pole/Log	8	83
								Jack Pine	3	Pole	6	
								Balsam Fir	2	Pole/Log	8	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tag Alder	Medium	Variable	Tall Shrub	
								Balsam Fir	Medium	Variable	Sapling	
Black Spruce	Low	Variable	Sapling									
7	6229 - Mixed lowland shrub	Nonstocked	9.0		Unspecified	No	-Sparse overstory of large tamarack. Fir and spruce slowly filling in but still isn't exceeding 25% canopy cover. May qualify for a forested stand next inventory cycle but competing alder is inhibiting regen. -Stand possibly harvested in the past? No t-sale records but where did the cedar go?					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Balsam Fir	Medium		Sapling	
								Balsam Poplar	Trace		Sapling	
								Nannyberry	Low		Tall Shrub	
								Black Spruce	Trace		Sapling	
								Alder	Full		Tall Shrub	
								Tamarack	Medium		Log	
								Black Spruce	Trace		Pole	
								Red Maple	Trace		Sapling	
Paper Birch	Trace		Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
8	6112 - Lowland Aspen	Sapling Medium	13.7	34	1-50	N/A	-Cut sometime between the years of 1986-88. "Swamper's Delight", bought by Kapalla Logging. Some stems are just now reaching merchantability but overall needs time to grow. Stand has a decent amount of standing water in it. -Other species that were present but rare included red pine, white pine, red oak, black cherry, and cedar. Willow in stand will be merchantable, not a shrub.																																																											
<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 Maple</td><td>8</td><td>Sapling</td><td>3</td><td></td></tr> <tr><td>Willow spp.</td><td>4</td><td>Sapling</td><td>3</td><td></td></tr> <tr><td>Paper Birch</td><td>8</td><td>Sapling/Pole</td><td>4</td><td></td></tr> <tr><td>Balsam Fir</td><td>22</td><td>Sapling/Pole</td><td>3</td><td></td></tr> <tr><td>Tamarack</td><td>6</td><td>Sapling/Pole</td><td>4</td><td></td></tr> <tr><td>White Spruce</td><td>2</td><td>Sapling/Pole</td><td>3</td><td></td></tr> <tr><td>Quaking Aspen</td><td>30</td><td>Sapling/Pole</td><td>3</td><td>34</td></tr> <tr><td>Balsam Poplar</td><td>20</td><td>Sapling/Pole</td><td>3</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	8	Sapling	3		Willow spp.	4	Sapling	3		Paper Birch	8	Sapling/Pole	4		Balsam Fir	22	Sapling/Pole	3		Tamarack	6	Sapling/Pole	4		White Spruce	2	Sapling/Pole	3		Quaking Aspen	30	Sapling/Pole	3	34	Balsam Poplar	20	Sapling/Pole	3		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr><td>Tag Alder</td><td>Full</td><td>Variable</td><td>Tall Shrub</td></tr> <tr><td>Balsam Fir</td><td>Medium</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Full	Variable	Tall Shrub	Balsam Fir	Medium	Variable	Sapling						
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9	6139 - Mixed Lowland Forest	Poletimber Medium	3.9	32	1-50	N/A	-Stand lies on a transition between upland and lowland. Scattered pockets of alder throughout. -QA saps are much more abundant in the south half of stand. -Stand was cut at the same time as the aspen stand to the west. Quite a bit of residual spruce were left here. Moderate browse damage is found in the area.																																																											
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10	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	6.8	85	81-110	N/A	-This stand was split out from the swamp conifer stand to the east. This stand has higher quality tamarack and much less cedar than the stand to the east. There is a thin strip of upland spruce at the north end of the stand. Most of the stand is lowland with standing water. Harvestable conditions may be difficult to achieve. -Other species that were present but rare included balsam poplar, white spruce, and white pine. -5 BA points were taken with an average of 100 sq. ft. per acre. -Tamarack site index = 46 for a 9.5" DBH tree, 75 years old, 56 feet tall.																																																											
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11	42290 - Natural Mixed Pine	Sawtimber Well	18.7	116	141-170	N/A	-High quality natural pine stand with some very large white pine and red pine. Due to the remoteness of this stand, consider nominating for type 2 old-growth? Has been thinned before, but that was at least two entries ago. Old canopy gaps have filled in nicely with white pine, white spruce, and a little red pine. -Other species that were present but rare included paper birch, balsam fir, and red maple. -6 BA plots were taken with an average of 148 sq. ft. per acre. - After talking with Greg, did not make a field visit to this stand during FY23 inventory cycle.																																																											
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12	6127 - Lowland Pine	Sawtimber Medium	5.7	113	51-80	N/A	-Small pocket of upland W9 at the north end of stand, remainder of stand is lowland swamp conifers including scattered white pine. More open areas filling in with fir and spruce. -Other species that were present but rare included red maple and paper birch. -4 BA plots were taken with an average of 78 sq. ft. per acre.																																																								
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13	6120 - Lowland Cedar	Poletimber Poor	94.2	144	1-50	N/A	-Low productivity stand. Residual trees do not show much potential. Despite the openness of the stand there is hardly any regeneration of any tree species. Tamarack more prevalent in east half of stand. Quite thick lowland brush in the understory. -8 BA points were taken with an average of 48 sq. ft. per acre.																																																								
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14	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	5.4	92	81-110	N/A	-Small swamp conifer upland island surrounded by lowland. Cedar is mostly along the perimeter of the stand. No management due to small acreage and remoteness of stand. -5 BA points were taken with an average of 106 sq. ft. per acre.																																																								
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15	4130 - Aspen	Sapling Medium	14.3	5	Immature	N/A	Stand was harvested in the summer of 2018 in the sale Boreal Mix (#53-012-15-01), bought by Precision. Roundwood harvest. Very nice job on the sale. Operators went around some additional small vernal pools that were found along the south edge next to stand 56. A small seasonal drainage was found in the sale but it was too late, they had already harvested it. It is the same drainage that flows south through stand 16, which is adjacent to the north in Comp 39. Fortunately there was not much damage as the forwarder had placed down a pile of slash to cross the drainage. Per admin notes, they pulled the slash pile out following the harvest. The drainage is most obvious during spring snow melt. Stand regeneration looking very good so far. Areas of the stand away from the road are showing some browse impacts.																																																								
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17	42360 - Upland Cedar	Poletimber Well	11.1	120	141-170	N/A	-Stand lies on an upland island surrounded by lower, wetter ground. However, there are some lowland areas interspersed throughout. Some very large white pine in this stand. -An operable stand however cedar regeneration is not possible due to deer browsing. -Other species that were present but rare included red maple and paper birch. -5 BA plots were taken with an average of 146 sq. ft. per acre.																																																							
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18	6122 - Black Spruce	Poletimber Medium	9.3	36		N/A	-Clearcut in 1986 as part of "Swamper's Delight" t-sale. Bought by Kapalla Logging. -Other species that were present but rare included red maple, balsam fir, and paper birch.																																																							
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19	42290 - Natural Mixed Pine	Sawtimber Well	4.8	90	111-140	N/A	-Big diameters in this stand. Surrounded by stands of much younger age classes. Leave unmanaged for now. -Some blowdown has occurred in this stand. - After talking with Greg, did not make a field visit to this stand during FY23 inventory cycle.																																																							
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20	42340 - Upland Spruce/Fir	Sawtimber Medium	4.7	78	81-110	N/A	-Stand becomes much more open along the western edge. Cedar is present only along the perimeter of the stand. - After talking with Greg, did not make a field visit to this stand during FY23 inventory cycle.																																																							
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21	6122 - Black Spruce	Poletimber Medium	2.3	102	51-80	N/A	-Black spruce is pretty decent quality. Slowly but surely is beginning to fill in but stocking is still a little sporadic in areas. Understory has some sphagnum in spots. -Black spruce site index = 42, for a 9" DBH tree, 92 years old, 60' tall.																																															
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22	6120 - Lowland Cedar	Poletimber Poor	44.3	104	1-50	N/A	-Poorly stocked stand. Other than cedar, most species exhibited poor growth and form. Most black ash is dead due to EAB. Thick lowland shrub layer in this stand. Quite a bit of cedar decline in this stand. Possible water drainage issues? -Trace of paper birch, white pine, BAM, and red-osier dogwood. -7 BA plots were taken in this stand with an average of 41 sq. ft. per acre.																																															
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23	4319 - Mixed Upland Forest	Poletimber Well	9.4	36	1-50	N/A	-Stand clearcut as part of "Swamper's Delight" t-sale in mid 1980's. Cut by Kapalla Logging. All species clearcut, including cedar (none grew back). -Pockets of lower ground in this stand, especially as you move north to the two fingers of the stand. Tag alder and balsam, spruce, and white pine are slowly filling in these wet pockets. -Other species that were present but rare included tamarack, BAM, and red pine. -Finally becoming a pole timber stand but access will remain an issue due to increasing volatility in winter weather. - After talking with Greg, did not make a field visit to this stand during FY23 inventory cycle.																																															
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Balsam Fir	14	Pole/Log	8																																																									
Red Maple	35	Pole/Log	8	56																																																								
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26	6120 - Lowland Cedar	Poletimber Poor	28.3	113	1-50	N/A	-A lot of cedar mortality and decline in this stand. Not a heavy overstory of cedar to start with but those that are still surviving have dead tops and only their side branches still have foliage. Possible water drainage issues? -VERY thick understory of fir and alder in this stand. This will likely be an F3 next entry period. Average DBH of balsam fir is about 2 inches at this point. -A few scattered XL-sized white pine, but these are also showing signs of decline. A few scattered saps of white spruce and paper birch but they are few and far between. -Black ash is present along the south edge of this stand but most of it is dead due to EAB. Becomes very wet along this southern edge. - After talking with Greg, did not make a field visit to this stand during FY23 inventory cycle.																																																					
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27	42220 - Natural Jack Pine	Poletimber Well	18.8	56	51-80	N/A	-According to old inventory notes this is a fire origin stand. Jack pine is mostly in the interior of the stand. Spruce becomes more common along the N, W, and E edges of the stand. Some log sized stems are present of red, white, and jack pine. -Variable stocking. Some areas of thick JP, other areas are more open-grown stems. -Quite a few small stems. Consider treatment next entry period. -Jack pine site index = 44, for a 9" DBH tree, 40' tall. -9 BA plots were taken with an average of 67 sq. ft. per acre.																																																					
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28	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	39.8	106	81-110	N/A	-Site productivity decreases sharply as you move south in the stand with the majority of stems becoming very small and short. Ground is quite wet in many places. Cedar site index = 21. -Some windthrow throughout but not a significant amount. -6 BA points were taken with an average of 108 sq. ft. per acre. -Other species that were present but rare included paper birch, white pine, balsam fir, BAM, and black ash.																																																					
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29	6112 - Lowland Aspen	Sapling Well	13.8	34	Immature	N/A	-Clearcut in 1988, "Swamper's Delight", bought by Kapalla Logging. Some cedar cut out of stand, none regenerated. -Portions of this stand are a transition between upland and lowland. Scattered open areas at west end of stand which have most of the larger spruce and pine. -Other species that were present but rare included tamarack, cedar, red oak, elm, paper birch, and red maple.																																																								
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30	6112 - Lowland Aspen	Sapling Medium	3.2	36	Unspecified	N/A	-"Swamper's Delight", all species clearcut, including cedar (none grew back). Bought by Kapalla Logging. -Old road runs through this stand. -Other species that were present but rare included red pine and paper birch. - After talking with Greg, did not make a field visit to this stand during FY23 inventory cycle.																																																								
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31	6115 - Lowland Ash	Sapling Medium	16.8	90	1-50	N/A	-Very wet stand, standing water throughout. Not much merchantable ash but of the small amount that is present, is either dead/dying due to EAB. Low productivity site, other species present also did not display good growth. Small clump of mature cedar and white spruce in SW corner of stand near Black River (inclusion less than 1 acre). -Sapling size black ash doesn't appear to be affected by EAB yet. It's likely that black ash will continue to perpetuate itself as a sapling sized tree in this stand. -Stand age taken from a 7" black ash. -Trace of paper birch, red maple, and white spruce in the stand. - After talking with Greg, did not make a field visit to this stand during FY23 inventory cycle.																																																								
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32	6130 - Fir, Aspen, Maple	Sapling Well	26.1	36	Unspecified	N/A	-Stand was a part of "Swamper's Delight" clearcut. Bought by Kapalla Logging. 1986 year of origin. -Highly variable stand. Many areas are lowland, however there are pockets of upland, mostly in the north half. Scattered inclusions of lowland shrub lacking in regeneration (each less than 1 acre). Aspen regeneration is poor in many areas and does not appear to be very healthy. Some pockets of mature spruce that were not harvested, mostly in south half of stand. -Other species that were present but rare included paper birch, BAM, and white spruce.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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33 4191 - Mixed Upland Deciduous with Conifer Sawtimber Medium 4.2 94 81-110 N/A

-Stand was ignored in the past due to unlikelihood of regenerating birch. As a result, most of the birch is on its way out and spruce/fir is starting to emerge. Leave unmanaged.
-A few pockets of wetter ground along the road.
-Other species that were present but rare included hemlock, white pine, and red pine.
-There is a DNR corner in this stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	21	Pole/Log	8	
Sugar Maple	7	Pole	8	
Red Oak	4	Log/XLog	16	
Paper Birch	32	Log/Pole	10	94
White Spruce	14	Log/XLog	14	
Balsam Fir	7	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Balsam Fir	Full	Variable	Sapling
White Spruce	Low	Variable	Sapling

34 6122 - Black Spruce Poletimber Poor 3.9 101 1-50 N/A

-Low productivity site. Poles are located mostly along the outside perimeter of the stand.
-Black spruce site index = 24, for a 7" DBH tree, 34' tall, 91 years old. Stand is fairly wet and low, as a transition area from the S27 to the east and the S22 to the west. Sphagnum moss, leatherleaf, and labrador tea are all good indicators of the wet site condition.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	50	Sapling/Pole	4	101
White Pine	20	Sapling	3	
Tamarack	30	Sapling/Pole	3	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	< 5 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Labrador Tea	Medium	< 5 feet	Tall Shrub
Leatherleaf	High	< 5 feet	Tall Shrub
Tamarack	Low	Variable	Sapling

35 6239 - Mixed Emergent Wetland Nonstocked 1.0 No

-Old logging road crosses the southern portion of this stand. Looks like a small stream has cut through this road, draining down to the non-forested lowland shrub stand to the south. Some dead cedar stems present.

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Trace	< 5 feet	Sapling
Alder	Low		Tall Shrub
Balsam Poplar	Trace		Pole
Sedges	Full		Non-Wood

36 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Medium 15.3 113 51-80 N/A

-Mixed bag of pretty much everything in this stand. Varies from spruce/aspens to pure cedar to black ash/BAM. Cedar is mostly in the western half of stand. West half is also very wet, standing water throughout.
-EAB on most black ash greater than 4 inches DBH.
-Other species that were present but rare included white pine, paper birch, and elm.
-11 BA plots were taken with an average of 78 sq. ft. per acre.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	12	Log/Pole	11	
White Spruce	22	Log/Pole	10	
Balsam Poplar	17	Pole/Log	9	
Black Ash	6	Pole	7	
Balsam Fir	8	Pole/Sapling	6	77

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	Variable	Tall Shrub
Balsam Poplar	Low	Variable	Sapling
White Spruce	Low	< 5 feet	Sapling
Balsam Fir	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
37	3205 - Mixed Upland Shrub	Nonstocked	1.6		Immature	No	-Filling in with conifers.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Red Maple	Trace		Sapling					
								White Pine	Low		Pole					
								White Spruce	Trace		Pole					
								White Pine	Medium		Sapling					
								Black Cherry	Medium		Tall Shrub					
								Bigtooth Aspen	Trace		Pole					
Balsam Fir	Trace		Pole													
38	42290 - Natural Mixed Pine	Poletimber Well	3.2	98	51-80	N/A	-Two-aged stand of supercanopy pine with smaller spruce. Let the spruce grow a little more then consider a regeneration harvest. Average BA of 73 Sq ft									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								White Pine	23	XLog	22		Red Pine	Low	Variable	Sapling
								Red Pine	45	XLog	20	98	Balsam Fir	Medium	Variable	Sapling
								White Spruce	30	Pole/Log/Sap	8	62	White Spruce	High	Variable	Sapling
								Quaking Aspen	2	Pole	7		White Pine	Medium	Variable	Sapling
								39	6121 - Tamarack	Poletimber Poor	5.6	97	1-50	N/A	-Low stocking and a lot of small stems. Likely an unproductive site for timber production. Very wet, lots of standing water.	
																Canopy Species
Black Spruce	14	Pole/Sapling	5		Leatherleaf	Low	< 5 feet									Tall Shrub
Northern White Cedar	24	Pole	6		Willow spp.	Medium	Variable									Tall Shrub
Tamarack	62	Pole/Sapling	6	97	Tag Alder	Medium	Variable									Tall Shrub
					Nannyberry	Low	Variable									Tall Shrub
40	6220 - Alder/willow	Nonstocked	5.5			No										
																Sub-Canopy Species
								Black Spruce	Low		Sapling					
								Tamarack	Low		Sapling					
								Willow spp.	Low		Tall Shrub					
								Alder	High		Tall Shrub					
								Leatherleaf	Medium		Tall Shrub					
								White Pine	Low		Sapling					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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41	4130 - Aspen	Sapling Medium	30.4	3	Immature	N/A	Stand stem density is looking pretty good despite heavy browse impacts throughout the stand. There are some pockets where stem density is lighter, in particular the SE finger of the stand. Here, the browse in conjunction with higher residual (LTM) appear to be impacting the regeneration. Continue to monitor stand and see how it progresses, but overall looking good.														
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Post Sale Notes:Stand was cut in the spring and early summer of 2020 in the sale Boreal Mix (#53-012-15-01), bought by Precision. Roundwood job. Nice job on the sale. A few small instances of rutting in the far southeast side of the stand where there appeared to be a clay lense in spots with a few seasonally wet areas. Scattered pine residual throughout, heavier in the middle part of the stand. This stand was formerly two different units in the sale and had slightly different leave tree specs.

42	42220 - Natural Jack Pine	Poletimber Well	7.1	55	81-110	N/A	-Possibly fire origin? Some old charred stumps in the stand.-middle of the stand has quite a few broken tops on the JP from the Dec. 2012 heavy snowstorm. otherwise, stand is pretty dense with stocking and likely ready for treatment. Pole sized jack pine, with some L/XL sized red pine found in this stand.- 6 plots for an average of 72 sq ft-JP site index = 44.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Pole	6		White Spruce	Low	Variable	Sapling
Red Pine	4	Log/XLog	16		Balsam Fir	Medium	Variable	Sapling
White Spruce	4	Pole	5		Red Pine	Trace	Variable	Sapling
Jack Pine	77	Pole	6	55	White Pine	Medium	Variable	Sapling

43	42340 - Upland Spruce/Fir	Poletimber Medium	2.5	64	81-110	N/A	-Scattered openings throughout stand. Road runs through stand as well. -nice looking stand that is an upland/lowland transition. Nice spruce poles/logs developing while the aspen is still pretty variable. I would hold off on this stand and harvest when adjacent S55 is ready, which may be next inventory cycle.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	18	Pole	7		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	2	Pole/Sapling	6		White Spruce	Low	Variable	Sapling
White Spruce	52	Pole	7	64				
White Pine	14	Log/Pole	13					
Jack Pine	14	Log/Pole	10					

44	6122 - Black Spruce	Sapling Poor	6.9	68	Unspecified	N/A	-Low site productivity. Treed bog. -Black spruce site index = 26.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	21	Pole/Sapling	5		Leatherleaf	High	< 5 feet	Tall Shrub
Jack Pine	6	Sapling	2		Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	10	Pole/Sapling	6					
Black Spruce	60	Sapling/Pole	4	68				
Red Pine	3	Pole	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
45	42210 - Natural Red Pine	Sapling Well	3.8	32	1-50	N/A	-Red pine has possibly been planted. Found no planting records, but looks like rows in a few spots. Close to becoming a pole stand.-Mature pine mostly along the southern edge.-Other species that were present but rare included white spruce, red maple, balsam fir, and jack pine.																																														
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46	6229 - Mixed lowland shrub	Nonstocked	51.7		Immature	No	-Scattered tree species along the northern edge of stand. All merchantable size black ash is dead due to EAB. -Very wet at time of inventory. At least a foot of water (result of snowmelt). -Black River passes through this stand.																																														
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47	110 - Low Intensity Urban	Nonstocked	4.9			No	Tin Shanty Road																																														
48	3105 - Mixed Upland Herbaceous	Nonstocked	5.4		Immature	No	-In process of regeneration, aspen is very sparse. Balsam fir, white pine, and jack pine are having better success thus far. Very few aspen stems were found to successfully regenerate. which is surprising given the nature of the adjacent stand 51, where the aspen is regenerating well. This stand does not appear on a trajectory towards being an aspen stand. -Clearcut recently, couldn't find t-sale folder. Estimated age is 13 years.																																														
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49	42210 - Natural Red Pine	Sawtimber Well	11.7	107	111-140	N/A	-High quality red pine. -Aesthetics are main concern here. -Other species that were present but rare included JP, QA, WS, and BF. -RP site index = 57. -9 BA plots were taken with an average of 132 sq. ft. per acre.																																														
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50	6120 - Lowland Cedar	Sawtimber Medium	11.5	101	141-170	N/A	-Several open areas due to old blowdown. -Tamarack mortality throughout stand due to eastern larch beetle. Also mortality of some white pine and spruce present. -Heavy deer use. -Other species that were present but rare included paper birch and white pine.																																																
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51	4130 - Aspen	Sapling Well	24.1	5	Immature	N/A	Regen is looking good. Retained trees seem to be surviving well, not windthrow damage so far. Stand was cut in the summer of 2018 in the sale Boreal Mix (#53-012-15-01), bought by Precision. Roundwood harvest initially but tops were pile and they came back in the spring of 2019 to chip the tops. Minimal damage to the existing regeneration. Regeneration looks good throughout the stand so far with only minimal browse impacts. The far western end of the stand doesn't have much regen yet as this area had a lot of jack pine prior to being cut. But appears as though some aspen is beginning to take hold here as well. LTM trees have minimal damage, a couple have fell over due to windthrow.																																																
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54	4134 - Aspen, Spruce/Fir	Poletimber Well	15.8	47	51-80	N/A	-Let grow at least another 10 years, still a lot of small stems. Stand still doesn't appear to be ready. -About 1/3 of this stand is lowland, mostly around the north and west edges of the stand. -Other species that were present but rare included tamarack and paper birch. - four plots recorded average of 57 sq ft per acre																																																
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55	6112 - Lowland Aspen	Poletimber Well	12.7	36	1-50	N/A	-Stand clearcut as part of "Swamper's Delight" t-sale. 1986 year of origin. Cut by Kapalla Logging. Stand is developing into a nice pole stand. Stand remains to be in lowland and harvestability may be hampered by warmer winters. However, some high ground still exists within the stand. Reevaluate in 10 years at next inventory cycle. - Still high variability in diameters. some areas it's 7" while others are 4" and still not merchantable. -Other species that were present but rare included black ash, red maple, and white pine.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
56	6229 - Mixed lowland shrub	Nonstocked	4.2	0		No	Stand was harvested in the summer of 2018 in the sale Boreal Mix (#53-012-15-01), bought by Precision. Roundwood harvest. This is a wet stand but was cut during dry summer conditions. Rutting was minimal except for a few small areas where the forwarder sunk in.- still not much in terms of desirable regen yet.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Mixed Sedges/Grasses	Low	Unspecified	Non-Wood	
								Tag Alder	Trace	< 5 feet	Tall Shrub	
White Pine	Trace	< 5 feet	Sapling									
57	42290 - Natural Mixed Pine	Sawtimber Medium	32.3	72	81-110	N/A	-Harvested two entries ago. Looks like all aspen, maple, and jack pine was removed. Lot of small white pine stems, now becoming poles so especially as you move east within the stand. some decent red pine advanced regen in some areas. In particular thr NE corner/finger doesn't appear to have been thinned before. -6 BA plots were taken with an average of 97 sq. ft. per acre. -4 plots in NE corner at 127 sq ft - Leave as is and manage in the future for an uneven-aged stand with an emphasis on white pine.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	51	Log/Pole	10	72
								Red Pine	49	XLog/Log	19	107
Sub-Canopy Species	Density	Avg. Height	Size									
Quaking Aspen	Medium	< 5 feet	Sapling									
White Pine	Medium	Variable	Sapling									
58	42210 - Natural Red Pine	Sawtimber Well	8.6	89	81-110	N/A	-Recently thinned. Looks like most hardwoods were removed except for a few residual aspen and red maple left over. Understory is mostly non existent in the southern portion of the stand, but white pine, balsam fir, and some white pine become thicker as you head north. - thin strip left on the west, SW side of this stand that may be tendon from previous harvest. Where hardwoods (red maple, aspen were left). -Heavy browse on RM stump sprouts. -Red pine SI = 58. 4 plots at 137 sq ft					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	2	Log/Pole	11	
								Red Maple	2	Pole/Log	9	
								White Pine	24	Log/Pole/XLog	15	
								Red Pine	68	Log/Pole/XLog	15	89
								Red Oak	2	XLog/Log	18	
								Balsam Fir	2	Pole	7	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Balsam Fir	Low	Variable	Sapling	
White Spruce	Trace	Variable	Sapling									
Red Maple	Low	>20 feet	Pole									
Black Cherry	Trace	< 5 feet	Sapling									
Red Maple	Low	< 5 feet	Seeding									
White Pine	Low	Variable	Sapling									
Beech	Medium	< 5 feet	Sapling									
59	3105 - Mixed Upland Herbaceous	Nonstocked	1.4			No						
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Trace		Pole	
								Balsam Poplar	Trace		Sapling	
								Black Cherry	Low		Tall Shrub	
								Balsam Fir	Trace	Variable	Sapling	
Quaking Aspen	Trace		Pole									
60	3105 - Mixed Upland Herbaceous	Nonstocked	2.5			No	Old oil pad, plugged 1982. Past inventory notes indicate that some jack pine was planted here. Jack and white pine are slowly regenerating the site. Now it is a popular camping area, the road that goes through it also provides access to a camping/launch site on the black river.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Spotted Knapweed	Low	Unspecified	Non-Wood	
								Jack Pine	Trace		Sapling	
								Black Cherry	Trace		Tall Shrub	
								White Pine	Medium	10 - 20 feet	Pole	
White Spruce	Trace	10 - 20 feet	Sapling									



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61	6112 - Lowland Aspen	Poletimber Poor	6.6	51	81-110	N/A	-EAB present on most of the merchantable black ash. Dutch elm disease is killing a few of the elm.-Some beaver activity on the west end of stand.-Other species that were present but rare included red maple and balsam fir.-Leave unmanaged due to its proximity to the Black River and Tin Shanty Road.																																																																
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62	4134 - Aspen, Spruce/Fir	Poletimber Well	34.5	36	51-80	N/A	-Stand clearcut in 1985-1986 as part of "Swamper's Delight" t-sale. Bought by Kapalla Logging. The aspen is doing ok in the stand, and stems are becoming merchantable but still need to put on more diameter. Quite a bit of cedar was cut out of this stand as evidenced by old stumps. None grew back. Stand is a mix of upland and lowland with most upland being around the perimeter of the stand, and a drain runs through the center of it. The other areas consist of transition areas between the two. Open area at south end of stand that did not regenerate well (likely an old landing), which is filling in with some black cherry, white pine, and fir. Tag alder exists throughout the drain in the middle of the stand. -Other species that were present but rare included red pine, tamarack, paper birch, and willow.																																																																
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63	4311 - Pine, Aspen Mix	Poletimber Well	15.3	46	51-80	N/A	-Quite a few small aspen stems, let grow at least another entry period. -East 1/2 of stand is mostly pure aspen with less conifers, west 1/2 of stand has more conifers. A few clumps of larger pine are present near Tin Shanty Road. -Some nice pine regeneration in the E part of stand. -A small wetland depression is present in the SW corner of the stand. This is where most of the white spruce is located. -Other species that were present but rare included paper birch and balsam fir. -8 BA plots were taken with an average of 75 sq. ft./acre.																																																																
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64	42290 - Natural Mixed Pine	Poletimber Well	25.3	47	81-110	N/A	-Nice jack pine and white pine poles. Potential for some good sawlogs in the future. Stems are putting on more diameter, could harvest now or wait for BA and diameters to increase. Some JP mortality is occurring but overall healthy stand. -This stand has more JP in it as opposed to the adjacent pole stand which has more WP. -8 BA plots were taken with an average of 85 sq. ft. per acre.																																																																
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65	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	34.0	93	81-110	N/A	-Small stream originates somewhere in this stand and drains into the adjacent marsh. Areas of of blowdown and low stocking throughout stand that have a ton of alder.-Heavy deer and elk use. Trails everywhere.-Other than the cedar, most of the other species have poor growth and form. No management recommended.-EAB present on the black ash.																																																																											
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66	42290 - Natural Mixed Pine	Poletimber Well	15.9	47	81-110	N/A	-Two-aged stand, sparse supercanopy of log-sized RP and WP with a thick pole/sap layer of white pine and jack pine. There is a small clump of R9/W9 in the SW portion of stand. -Nice JP and WP poles. Let this stand grow.-8 plots for an average of 81 sq ft																																																																											
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67	42110 - Planted Red Pine	Sawtimber Well	2.7	84	111-140	N/A	-Undesignated recreation site. Access site to Black River. Some red pine have a lot of bole damage from campers. -Jack pine, white pine, and white spruce also present.																																																																											
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68	6124 - Lowland Spruce-Fir	Sawtimber Well	8.0	103	81-110	N/A	-At least a two-aged stand, varying sizes of all species within this stand.-Leave this stand unmanaged as it borders the Black River as well as Tin Shanty Road.-Other species that were present but rare included basswood, paper birch, white pine, and cedar.-6 BA plots were taken with 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		
69	42200 - Natural White Pine	Sawtimber Well	15.8	99	111-140	N/A	<p>-Nice white pine stems, although mostly small sawtimber at this point.</p> <p>- There is a drain or high water table present in areas of this stand. Soil still seems firm but seasonally floods.</p> <p>-East part of stand adjacent to wetland has a lower BA with smaller stems and should be excluded from thinning.</p> <p>-Other species that were present but rare included paper birch, balsam fir, red maple, red pine and black cherry.</p> <p>-9 BA plots were taken with an average of 132 sq. ft./acre.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	5	Log	12		White Spruce	Low		Variable	Sapling
White Pine	80	Log/Pole	11	99	Quaking Aspen	Low		< 5 feet	Seeding
Jack Pine	3	Log	11						
White Spruce	12	Log/Pole	11						
70	4136 - Aspen, Mixed Conifer	Poletimber Well	21.8	47	81-110	N/A	<p>-This stand acts as a transition zone along a slope down towards the adjacent swamp/lowland to the west. Big tooth aspen can be found on the top slope and along the ridge, while the quaking because more prevalent as you move down the slope west and southward. Pockets of the stand are heavy to white pine and balsam fir, in particular where quaking aspen is more dominant. Diameter size variability is still high, though the overall average diameter has grown slightly since previous inventory cycle. Browse is still a concern in the area, so just cutting this stand on it's own will not set the stand up to succeed. 6 plots at 88 sq ft.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	20	Pole/Sap/Log	8		Red Maple	Low		Variable	Sapling
White Spruce	7	Pole	6		Balsam Fir	Medium		Variable	Sapling
Quaking Aspen	40	Pole/Sap/Log	7	47	White Pine	High		Variable	Sapling
White Pine	19	Pole/Sap/Log	6		Witch Hazel	Low		Variable	Tall Shrub
Red Oak	4	Pole	7		Black Cherry	Low		Variable	Tall Shrub
Balsam Fir	10	Pole	7						
71	42290 - Natural Mixed Pine	Sawtimber Well	32.9	103	111-140	N/A	<p>-High quality natural WP stand. Lot of "legacy" size WP which are likely much older than the recorded stand age. Possible type-2 old growth? Last thinned in 1985 by Catalano. Everything except pine and oak removed.</p> <p>-Red maple understory becomes very dense in the N 1/2 of stand. Pockets of heavy WP regen also. Heavy browse pressure on the RM in some spots, where the RM cannot overcome browse height.</p> <p>-8 BA plots were taken with an average of 122 sq. ft. per acre.</p> <p>-This stand should be managed on an uneven-aged basis, retaining all trees that are equal to or greater than the "legacy" size classification of 26" DBH.</p> <p>-WP site index = 64, for a 20" DBH tree, 93 years old, 101 feet tall.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	16	Log/XLog	15		Red Maple	Medium		Variable	Sapling
White Pine	54	Log/XLog	16	103	Balsam Fir	Medium		Variable	Sapling
Red Pine	30	Log/XLog	17		White Pine	Medium		Variable	Sapling
					White Pine	Medium		>20 feet	Pole
					Balsam Fir	Low	>20 feet	Pole	
72	4136 - Aspen, Mixed Conifer	Poletimber Well	10.0	47	81-110	N/A	<p>Large oak and red maple advanced regen (pole/sapling) dominate the southern portion of this stand. The pathway that bisects this stand sort of draws the line of the switch to big tooth aspen in the northern portion of the stand. The big tooth aspen that exists in the stand is looking good, as many of the stems are almost, if not already, saw sized. Stand is too small to harvest on it's own due to browse concerns in the area. Evidence is apparent due to amount of RM regen less than 5' in height in and around this and other stands in the area. 5 plots for 91 sq ft average</p> <p>WP and RM more common in the S/SW part of stand. BTA dominant in N 1/2 of stand.</p> <p>-Some scattered mature WP and RP in addition to the RO.</p> <p>-Other species that were present but rare included PB, BW, and RO (poles).</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	27	Pole/Sapling	6		Red Maple	Medium		Variable	Sapling
Sugar Maple	5	Pole/Sapling	5		Balsam Fir	Low		Variable	Sapling
Red Oak	2	XLog/Log	19		Ironwood	Low		Variable	Sapling
Quaking Aspen	13	Pole	8		White Spruce	Low		Variable	Sapling
Bigtooth Aspen	32	Log/Pole	10	47	Black Cherry	Low		Variable	Sapling
White Pine	12	Pole/Sapling	6		White Pine	Medium		Variable	Sapling
Balsam Fir	7	Pole	6						
Red Pine	2	Log	13						



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73	42210 - Natural Red Pine	Sawtimber Medium	30.0	99	81-110	N/A	-Stand recently thinned. Couldn't find the sale folder but looks like all jack pine, aspen, and red maple were removed as well as some red pine. Much of the white pine is still quite small. Let the stand grow for another ten years and treat next entry. -Thin strip of spruce/fir along the edges of the stand that border lowlands. -Old foundation in SW part of stand near Black River. All structures have been removed. A small no-cut buffer was placed around this opening. -9 BA plots were taken with an average of 85 sq. ft. per acre.																																														
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74	6220 - Alder/willow	Nonstocked	19.2			No	-Black River flows through the south finger of this stand. North finger of stand has a small stream running through it along with a beaver dam and pond.-Scattered trees throughout, especially along the perimeter of the stand.																																														
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75	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	14.3	46	81-110	N/A	Stand is comprised of a ridge with multiple sizes of white pine, and fingers of ridges where aspen, pine, and oak in stand. Let grow and consider managing with aspen stand to the north next entry. Stand could be harvested but likely could benefit from waiting another inventory cycle when the adjacent S70 is also ready for harvest. 7 plots at 95 sq ft																																														
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77	4319 - Mixed Upland Forest	Poletimber Well	1.7	41	51-80	N/A	-Mature White pine also present.- four plots recorded for 77 sq ft																																														
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78	42290 - Natural Mixed Pine	Poletimber Medium	16.9	56	1-50	N/A	-A lot of small stems in this stand. Aspen and some more mature stems are concentrated in at the south end of the stand near Chandler Dam Road. -Quite a few of the JP have broken tops due to the heavy snowstorm in Dec. 2012. -Larger WP and RP stems are closer to the western edge of the stand near the lowland. -9 BA plots were taken with an average of 47 sq. ft. per acre.																																																				
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80	6124 - Lowland Spruce-Fir	Poletimber Medium	3.9	41	1-50	N/A	-South end of stand has a small inclusion of mature tamarack, white pine, and spruce. -A few black ash in the stand but all are dead from EAB.- some larger diameter RM along the upland/SW) edge of this stand																																																				
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81	42250 - Pine, Oak	Sawtimber Well	53.6	103	81-110	N/A	-Stand had everything but pine and oak removed in 1995. "Fire Tower Block", #53-010-95-01. Bought by Haskill. A few pockets that were untreated due to steep slopes. -Some very steep slopes along the NE edge of stand. -Heavy browse damage on RM understory in some spots. -Other species that were present but rare included white spruce and hemlock. -11 BA points were taken with an average of 106 sq. ft. per acre. -Red oak site index = 58.																																																				
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82	42290 - Natural Mixed Pine	Sawtimber Poor	48.4	90	1-50	N/A	-Stand cut in 2005, "Old Pipeline Aspen", # 53-013-05-01. All aspen and red maple cut. All pine and oak left. Residual BA's of pine highly variable throughout. with most of the oak big in the northern half of the stand. Multiple sizes of white pine. Aspen pockets have succeeded in exceeding browse height in areas. Still submerch though. -10 BA plots taken with an average of 49 sq. ft per acre. -No treatment until the aspen understory matures.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
83	6229 - Mixed lowland shrub	Nonstocked	4.9			No	-Looks like this stand used to be flooded. Quite a few old, dead trees. -Tam and white pine are seeding in. -Hardwood Creek runs through the north part of the stand.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Spruce	Trace		Sapling	
								Sedges	High		Non-Wood	
								Balsam Fir	Low	Variable	Sapling	
								Tamarack	Low		Sapling	
								Alder	High	5 - 10 feet	Tall Shrub	
White Pine	Low	Variable	Sapling									
84	500 - Water	Nonstocked	1.9		Immature	No	-Hardwood Creek runs through stand. -Old beaver dam at SE end.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tag Alder	Medium	5 - 10 feet	Tall Shrub	
								White Spruce	Low	< 5 feet	Sapling	
								Balsam Fir	Low	Variable	Sapling	
Sedges	High		Non-Wood									
85	429 - Mixed Upland Conifers	Poletimber Medium	4.2	43	1-50	N/A	-Not a very well-stocked stand, quite a few open areas. Spruce and fir are slowly filling in.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	14	Pole	8	
								Black Spruce	14	Pole/Sapling	5	
								White Pine	34	Pole/Sap/Log	7	43
								Jack Pine	2	Pole	6	
								Balsam Fir	31	Pole/Sapling	7	
Red Maple	5	Pole/Sapling	6									
Sub-Canopy Species	Density	Avg. Height	Size									
Nannyberry	Medium	Variable	Tall Shrub									
Balsam Fir	Low	Variable	Sapling									
86	42200 - Natural White Pine	Sawtimber Well	21.7	85	51-80	N/A	- A variable stand. The northern half is more dense with pine towards the north with not as much of the understory component that is found in the south. Remnants of red paint can be found along the W parts of the stand, perhaps parts of the northern side of the stand were not previously thinned in the Fire Tower Block Sale. Minor component of mature aspen is deteriorating, more common in the SE half of the stand. - 6 plots were recorded for an average of 72 sq ft. -Heavy browse pressure on the RM understory in some spots. -Other species that were present but rare included white oak, jack pine, and hemlock.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Balsam Fir	2	Log/Pole	11	
								Red Oak	6	Log/Pole	12	
								Quaking Aspen	4	Log/Pole	12	
								Red Pine	18	Log	14	
								White Pine	64	Log/Pole/XLog	14	85
Red Maple	6	Pole/Log/Sap	8	28								
Sub-Canopy Species	Density	Avg. Height	Size									
White Pine	Low	>20 feet	Pole									
Balsam Fir	Medium	Variable	Sapling									
Beech	Low	Variable	Sapling									
White Pine	Medium	Variable	Sapling									
Red Maple	High	Variable	Sapling									
87	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	5.6	35	1-50	N/A	-Far NW of stand becomes more of a sapling stand dominated by birch and spruce. -Other species that were present but rare included white pine, tamarack, balsam fir, and red pine.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	7	Pole/Log	8	
								Paper Birch	14	Pole/Sapling	5	
								White Pine	6	Pole/Sap/Log	6	
Black Spruce	18	Pole/Sapling	5									
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Low	Variable	Sapling									
Tag Alder	Low	Variable	Tall Shrub									
Balsam Fir	Medium	Variable	Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
88	6120 - Lowland Cedar	Sawtimber Medium	44.4	123	111-140	N/A	<p>-South half of stand has some nice cedar groves with some very large stems (20"+ cedar). North half of stand has quite a bit of blowdown with much less stocking. Fir is abundant in the understory throughout. Red maple and paper birch are beginning to take advantage of gaps in the cedar canopy. Along with some advanced regen of both scattered in areas of this stand.</p> <p>-Other species that were present but rare included tamarack and white spruce. Black ash was a component but only snags remain due to EAB.</p> <p>-10 BA plots were taken with an average of 133 sq. ft. per acre.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		8	Pole/Log	8	147	Tag Alder		High	Variable	Tall Shrub	
Quaking Aspen		2	Log	11		Black Spruce		Low	Variable	Sapling	
Red Maple		5	Log/Pole	11		Red Maple		Low	10 - 20 feet	Sapling	
White Pine		3	Log/XLog	16		Balsam Fir		Full	Variable	Sapling	
Paper Birch		5	Pole/Sapling	7		Paper Birch		Low	10 - 20 feet	Sapling	
Northern White Cedar		75	Log/Pole/XLog	14	123						
Balsam Fir		2	Pole	9							
89	6130 - Fir, Aspen, Maple	Poletimber Medium	7.7	60	81-110	N/A		<p>2019 - Stand was a part of the sale Amoebic Aspen, #53-013-15-01, bought by Precision. No activity ever took place and Precision dropped the sale. Lines will be refreshed and the sale will be put back up for bid.</p> <p>-Two-aged stand. Older aspen closer to the swamp edge.</p> <p>-6 BA plots were taken with an average of 90 sq. ft. per acre.</p> <p>-Stand lies on a transition between upland and lowland. Treatment acreage may be reduced due to wet ground along the western edge. Good amount of CWD in this stand.</p> <p>-Heavy deer use.</p> <p>-Other species that were present but rare included white oak and cedar.</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Pine		2	Log	12		Balsam Fir			High	Variable	Sapling
Quaking Aspen		40	Pole/Log	9	60						
Balsam Fir		19	Pole/Log	8							
White Pine		4	Pole/Log	8							
Red Maple		2	Pole	6							
White Spruce		33	Pole/Log	8	86						
90	6139 - Mixed Lowland Forest	Sapling Well	2.5	35	1-50	N/A	<p>-Cedar clearcut in 1988, 53-004-88-02, bought by Ken Boughner.</p> <p>-Cedar regeneration is non-existent.</p> <p>-Other species that were present but rare included tamarack, balsam fir, and black ash.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
White Pine		4	Pole/Sapling	5		White Pine		Low	Variable	Sapling	
Paper Birch		18	Sapling	4		Black Spruce		Low	Variable	Sapling	
Balsam Fir		13	Pole/Sapling	5		Tag Alder		High	Variable	Tall Shrub	
Northern White Cedar		5	Log	10							
Black Spruce		30	Sapling/Pole	4	35						
Red Maple		30	Sapling	4	35						
91	4130 - Aspen	Poletimber Medium	16.0	36	1-50	N/A		<p>-"Pathway Overlook Aspen", 53-020-85-01. All species clearcut. Bought by K&R Logging of Millersburg. Stand is looking good and is on a good trajectory, much like S107 and S113 to the East, but still likely 102 inventory cycles away from being ready for harvest. Several open areas in stand where browsing impacted regeneration success, these openings are filling in with black cherry, and white, red and jack pine.</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Bigtooth Aspen		80	Pole/Sapling	6	36	Serviceberry (Juneberry)			Low	Variable	Tall Shrub
Quaking Aspen		15	Pole/Sapling	6		Beech			Low	5 - 10 feet	Sapling
Red Maple		5	Sapling/Pole	4		White Pine			Medium	10 - 20 feet	Sapling
						Red Maple			Medium	Variable	Sapling
						Black Cherry			High	Variable	Tall Shrub
						Witch Hazel			Medium	Variable	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
92	4123 - Red Oak	Sawtimber Medium	121.1	98	81-110	N/A	-All species except pine and oak were cut in 1995. "Fire Tower Block", 53-010-95-01. Bought by Haskill. -Variable site quality throughout stand. Ridge tops generally have lower quality oak while valleys have better quality oak. -Regeneration is primarily red maple (both stump-sprout and seed origin) with some scattered, thick pockets of striped maple and witch hazel. A few small pockets of aspen regen but insignificant overall. Did not observe any oak regeneration. -Browse damage on red maple and witch hazel is severe in some areas. Heavy deer and elk use in this stand. Scarification in combination with fencing will be the only way to get successful oak regen in this stand. -Steep slopes in stand but most appear workable. -Other species that were present but rare included white oak, white ash, and bigtooth aspen. -18 BA plots were taken with an average of 99 sq. ft. per acre. -Red oak site index = 58, red pine site index = 52.																																																					
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93	42200 - Natural White Pine	Sapling Medium	1.3	18	Immature	N/A	-Old opening that is filling in with pine. -Age is an estimate from white pine whorl counts.																																																					
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94	623 - Emergent Wetland	Nonstocked	3.4			No	-Trees appear stunted, unproductive site for tree growth.																																																					
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95	429 - Mixed Upland Conifers	Poletimber Medium	21.0	52	51-80	N/A	-Two-aged and complex stand. Stand lies on a transition between upland and lowland. A few pockets of W9 in the SE part of the stand. The remainder of the stand has a light overstory of mature JP with a heavy understorey of fir poles. Let this stand continue to grow as the majority of stems are just now getting to pole size. -10 BA plots were taken with an average of 76 sq. ft. per acre. -Heavy deer use in this stand. Trails everywhere.																																																					
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96	6127 - Lowland Pine	Poletimber Medium	4.2	35	81-110	N/A	-Just emerging as a pole stand. Transition between upland and lowland. Very heavy stocking in the east half of stand. Small nonforested inclusion in center of stand (less than 1 acre). -Other species that were present but rare included red maple, paper birch, fir, spruce, and quaking aspen. Mostly found just west of tag alder opening.																																																		
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97	42290 - Natural Mixed Pine	Poletimber Poor	10.9	50	1-50	N/A	-A lot of open grown stems. Quite a few jack pine tops were broken off from the heavy snowstorm in Dec. 2012. -Other species that were present but rare included white oak, red maple, balsam fir, red pine, and white spruce.																																																		
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98	3105 - Mixed Upland Herbaceous	Nonstocked	2.3		Immature	No	-Old inventory notes that this was planted with jack pine. Old well site, plugged in 1983. Jack pine is just reaching merchantability, but doesn't appear to be filling further into the opening. likely due to the high amount of grass/sedge.																																																		
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99	4310 - Pine, Oak Mix	Sawtimber Well	4.4	88	111-140	N/A	-I agree with the previous comments suggest to leave unmanaged for now due to the small size of the stand. Looks like it may be an extension of a larger stand in the compartment to the south. Jack pine and aspen continues to senescence within the stand. Trail runs through this stand and evidence of old skid trails spanning ridges is evident. Operability on some slopes is questionable. Maybe consider harvesting on the same cycle as the stand to the south if/when it is proposed for treatment.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments												
101	6220 - Alder/willow	Nonstocked	7.5			No	-Hardwood Creek passes through this stand. -There is a thin strip of somewhat upland ground along the southern edge of the stand. This is where the apple, paper birch, and black cherry trees are located.												
								Sub-Canopy Species	Density	Avg. Height	Size								
								White Pine	Trace		Log								
								Jack Pine	Trace		Pole								
								Sedges	Full		Non-Wood								
								Willow spp.	Trace		Tall Shrub								
								Black Cherry	Trace		Tall Shrub								
								Alder	Full		Tall Shrub								
								White Pine	Trace		Sapling								
								Paper Birch	Trace	>20 feet	Pole								
								Tamarack	Low		Sapling								
								Apple (spp.)	Trace		Tall Shrub								
								Red Osier Dogwood	Trace		Tall Shrub								
								Tamarack	Trace		Pole								
102	320 - Upland Shrub	Nonstocked	1.2		Immature	No	Opening that is filling in with white and jack pine. There is a low, wet spot in the middle of the opening that has filled in with dense tag alder.												
								Sub-Canopy Species	Density	Avg. Height	Size								
								Tag Alder	Medium	5 - 10 feet	Tall Shrub								
								White Pine	Medium	10 - 20 feet	Sapling								
								Jack Pine	Low	10 - 20 feet	Sapling								
								Black Cherry	Trace	10 - 20 feet	Sapling								
								Sweet Fern	Low	< 5 feet	Tall Shrub								
								White Pine	Trace	>20 feet	Log								
103	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	26.4	43	51-80	N/A	-Jack pine has started to fall out of this stand. Large amount of snags and CWD. Natural succession to white pine has for the most part already taken place. Quite a few nice white pine poles, let them grow. -Other species that were present but rare included red oak, white oak, beech, and red pine.- wait and see how stand develops -10 BA plots were taken with an average of 75 sq. ft. per acre.												
								Canopy Species	% Cover	Size Class	DBH	Age							
								White Pine	49	Pole/Sap/Log	7	43							
								Quaking Aspen	4	Log	14								
								Jack Pine	12	Log	12	76							
								Red Maple	35	Pole/Sap/Log	5								
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104	4130 - Aspen	Poletimber Well	46.0	51	81-110	N/A	2023 - Stand is currently set to go back out for bid as Aspan's Labyrinth. 2019 - Stand was a part of the sale Amoebic Aspen, #53-013-15-01, bought by Precision. No activity ever took place and Precision dropped the sale. Lines will be refreshed and the sale will be put back up for bid. -Other species that were present but rare included white oak, white spruce, balsam fir, paper birch, sugar maple, and jack pine. -Witch hazel becomes more common along E end. Site quality increases as you move east. -QA site index = 79. -12 BA plots were taken with an average of 89 sq. ft. per acre.												
								Canopy Species	% Cover	Size Class	DBH	Age							
								Quaking Aspen	51	Pole/Sapling	6	51							
								Bigtooth Aspen	16	Pole	8								
								Red Oak	3	Log/XLog	16								
								Red Pine	3	Log/XLog	16								
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								White Pine	10	Pole/Log	8								
								Sub-Canopy Species	Density	Avg. Height	Size								
								Witch Hazel	Low	5 - 10 feet	Tall Shrub								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
105	42290 - Natural Mixed Pine	Poletimber Poor	3.3	55	1-50	N/A	-Some hawthorn and alder along the swamp edge.																																										
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106	42220 - Natural Jack Pine	Sapling Medium	24.6	28	Immature	N/A	- "Fire Tower Block", 53-010-95-01. All species cut. Bought by Haskill.- Open grown and deformed white pine and jack pine.-Very heavy use by deer and elk. Extreme browse pressure on red maple, aspen, oak, beech, etc.-A wet drainage runs through the north finger of the stand (see '98 DOQ imagery). Was not protected with a buffer. There is a small patch of borderline merchantable quaking aspen here, and cattails that confirm the existence of said drainage.																																										
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107	4130 - Aspen	Poletimber Well	16.9	35	51-80	N/A	-"Pathway Overlook Aspen", all species clearcut. 53-020-85-01, bought by K&R Logging of Millersburg. Stand is looking good as a pole stand but still is nowhere near being ready for harvest. Reevaluate in another 10 years to see how much growth has been put on. -Just emerging as a pole stand. Very heavy browse damage on red maple and witch hazel in some areas.-A few scattered mature red oak along the eastern edge.																																										
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108	42290 - Natural Mixed Pine	Poletimber Poor	16.3	56	51-80	N/A	-Reevaluate in the next entry. Still a lot of open grown stems, appears that this may have been selectively cut at one point, leaving some red maple and oak. Quite a few of the jack pine had broken tops from the heavy snowstorm in Dec. 2012. -White pine slowly filling in. -Let grow until there are merchantable products worth harvesting.																																										
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109	6239 - Mixed Emergent Wetland	Nonstocked	2.3		Immature	No	-Beaver dam at east edge of stand.																																										
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110	4319 - Mixed Upland Forest	Sawtimber Well	6.1	112	111-140	N/A	-This stand was formerly coded as an SCA "Potential Old-Growth". This stand should remain under this designation. -A few clumps of hawthorn in the southern portion of this stand.																																																													
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111	3205 - Mixed Upland Shrub	Nonstocked	15.0			No	-Regeneration concern.-Harvested as a part of the "Fire Tower Road Mix" t-sale, # 53-012-05-01. All oak left and is concentrated mostly in the SW finger of stand. Jack pine has lightly seeded in a few areas so this may be a J1 next entry period. Overall, this stand will not provide much timber value in the future.																																																													
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113	4130 - Aspen	Sapling Well	3.1	35	1-50	N/A	-Pathway Overlook Aspen, 53-020-85-01. All species clearcut. Bought by K&R Logging of Millersburg. Stand is emerging as a pole stand, stems have recently hit merchantability. Likely two inventory cycles way from being ready.																																																													
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114	4119 - Mixed Northern Hardwoods	Poletimber Well	21.3	107	81-110	N/A	-Besides the oak and pine, there are a lot of small stems in this stand. This stand is part of the Line Meridian SCA. No management planned. -Vernal pool in this stand towards the NE corner of the stand. There is also a stick nest on the E side of the stand next to the non-forested wetland. -Other species that were present but rare included paper birch, hemlock, and beech. -Red oak site index = 58.																																																																																
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115	429 - Mixed Upland Conifers	Sawtimber Well	17.3	110	111-140	N/A	-This stand was formerly nominated as old-growth. This nomination should be left in place. Multiple ages of pine and hardwoods. Lot of big diameters on the pine. -A small stream runs through a small ravine from the beaver pond to the north down to the wetland to the south. -7 BA plots were taken with an average of 136 sq. ft. per acre.																																																																																
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116	42110 - Planted Red Pine	Poletimber Well	37.5	37	141-170	N/A	-Looks good so far, per first thinning recommendations by Greco, I would put off for one more inventory cycle and reassess once we are closer to the ~180 sq ft for thinning. - Reassess at next inventory cycle and see what the BAs are then. -An old road runs north through this stand. - 15 pots for an average of 147 sq ft																																																																																
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117	6229 - Mixed lowland shrub	Nonstocked	26.0			No	-Hardwood Creek passes through this stand. Old imagery and inventory notes indicate that this stand used to be flooded by beavers. Not the case anymore as of summer 2022, as recently a beaver dam was removed. Some trees growing along edges of stand.																																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
118	6239 - Mixed Emergent Wetland	Nonstocked	5.5			No	-Dead cedar and black ash throughout due to flooding. This stand is connected to the smaller wetland to the south through a small channel.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Northern White Cedar	Trace		Pole	
								Cattail spp.	High	Unspecified	Non-Wood	
119	4132 - Aspen, Jack Pine	Sapling Medium	28.1	17	Immature	N/A	-Clearcut in 2005. "Fire Tower Road Mix", 53-012-05-01. Cut by Schleben Forest Products. -Per previous inventory: Browse has impacted regeneration success in a few areas. South finger along the road more of a J2. - Aspen and jack pine seem to be doing fairly well currently. Continue to let grow. Aspen seems to be growing better north of the two track, along S112. -Small depression near intersection of Road 85 and Blue Lakes Road that has some BAM in it.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	5	Pole/Sap/Log	6	
								Jack Pine	30	Sapling	3	17
								Red Pine	5	Log/Pole	10	
Quaking Aspen	60	Sapling	2	17								
120	6239 - Mixed Emergent Wetland	Nonstocked	1.1			No	-Beaver dam on south end of stand. Dead black ash throughout.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Cattail spp.	Medium	Unspecified	Non-Wood	
121	3205 - Mixed Upland Shrub	Nonstocked	9.2			No	-Regeneration concern. -This stand was formerly a jack pine/aspen stand. Was harvested as a part of the "Fire Tower Road Mix", sale # 53-012-05-01. Per previous inventory: Browse has definitely impacted regeneration success of aspen. Some jack pine seeded in, may be a J1 at next inventory cycle. Very little aspen present. Jack pine and black cherry have taken over this site.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Quaking Aspen	Trace		Sapling	
								Sweet Fern	Medium		Tall Shrub	
								White Pine	Trace		Sapling	
								Black Cherry	High		Tall Shrub	
Jack Pine	High		Seeding									
122	42290 - Natural Mixed Pine	Sawtimber Well	18.8	142	111-140	N/A	-This stand has been nominated for old-growth potential. This designation should remain in place. Nice example of a high-quality natural pine stand. Last thinned in 1985. -Heavy browse on hardwood understory. -Other species that were present but rare included red maple, hemlock, cedar, and white oak. -7 BA plots taken with an average of 129 sq. ft. per acre.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	32	XLog/Log	19	127
								Red Oak	17	Log/XLog	16	
								Red Pine	51	XLog/Log	18	142
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low	Variable	Sapling	
								White Pine	High	Variable	Sapling	
								Ironwood	Low	Variable	Sapling	
								White Ash	Low	< 5 feet	Seeding	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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123 4130 - Aspen Poletimber Well 1.3 36 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	2	XLog	20		Hawthorn (spp.)	Low	Variable	Tall Shrub
Balsam Poplar	6	Sapling/Pole	4		Black Cherry	High	Variable	Tall Shrub
Quaking Aspen	90	Pole/Sapling	5	36	White Pine	Low	Variable	Sapling
White Pine	2	Sapling	4					

124 42200 - Natural White Pine Sawtimber Medium 1.5 110 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	85	Log/Pole/XLog	15	110	White Pine	Low	Variable	Sapling
Red Pine	15	XLog/Log	18		Balsam Fir	Low	Variable	Sapling
					White Spruce	Trace	< 5 feet	Sapling
					Quaking Aspen	Low	< 5 feet	Sapling

-No opportunities for management in this stand. Blue Lakes Road runs through the stand and there is a small pull-off alongside the road that looks like an undesignated camping area.