



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52172

Entry Year 2026

Acreage: 1,932

County: Cheboygan

Management Area: Presque Isle Lake and Till Plains

Stand Examiner: Dan Morris

Legal Description:

T34N R02W Sec. 34,35,36

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

Soil and topography:

Soils in this compartment are generally Rubicon-East Lake Association. Topography varies but is mainly level with gentle slopes. Sections 34 and 36 have isolated ridges and hills that contrasts the overall less developed and more level topography in the compartment.

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

This compartment is all contiguous state ownership as is a lot of the land surrounding this compartment. The PRC abuts this compartment to the east. Limited residential development in the area.

Unique Natural Features:

Red shouldered and American Goshawks are present around the compartment. An American Goshawk nest was actively found during inventory in the compartment directly south of the unit on state land. Red Shouldered hawks were observed soaring and calling within the compartment in the spring. No nest sites of RSH within the compartment have been confirmed.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known presently. Several small openings are subject to future exploration.

Special Management Designations or Considerations:

There are unique mature natural pine stands of smaller acreages within the compartment that have potential for a future designation.

Watershed and Fisheries Considerations:

The Little Pigeon River, a designated trout stream and state-designated natural river, flows through the southeast corner of this compartment. For future planning, early successional species should be discouraged near the river to minimize beaver activity. Since no management activities are proposed near the river this YOY, Fisheries has no concerns at this time.

Wildlife Habitat Considerations:

Treatments in this compartment will maintain age class diversity in aspen stands while creating early successional habitat benefiting deer, grouse, and woodcock. Oaks will be left in these treatments to provide hard mast for elk, deer, and turkey. Openings are prescribed to be maintained in this compartment benefiting deer, turkey, grouse, and woodcock. Pine stands are providing thermal cover and native seed sources for a variety of wildlife including turkey, songbirds like crossbill and pine siskin, and grouse.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact outwash sand and gravel and coarse-textured glacial till. The glacial drift thickness varies between 50 and 400 feet. The Devonian Antrim Shale and Traverse Group subcrop below the glacial drift. The Traverse and Antrim are used for stone and cement products. The nearest oil and gas production, the Antrim Shale gas play, is located 12 miles to the south. The Antrim Shale is thin to missing in this area.

The closest known active sand/gravel pit is three miles northwest. There is some potential for sand & gravel within the compartment on the uplands, but glacial sediments may be relatively thin in the area of the compartment and are directly underlain by bedrock shale or limestone. The limestone is mined to the north of the compartment where the bedrock is at the surface. Some past exploration and testing for hydrocarbons has occurred in the area but no production, and there has

been no recent well permit activity or leasing activity involving State-owned mineral rights. There is no known potential for economic production of metallic minerals in this part of the state.

This area is leased for potential Collingwood Formation development.

Vehicle Access:

There is road access to all of this compartment. Several of the roads have become rutted and mud pits exist within locations that can restrict access or make access more difficult. There could be some road project upgrades perhaps in cohesion with harvests in the future use of this compartment.

Survey Needs:

None

Recreational Facilities and Opportunities:

There are no developed recreational facilities in this compartment though it is used a lot for hunting.

Fire Protection:

This compartment has multiple pine stands. Many of the pine stands are mature and past the threat of crown fire but could carry a surface fire of low intensity. The stands are not contiguous or covering a large land area and abut deciduous forests. The Wolverine fire department station is in close proximity on Webb Rd to the direct west of the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

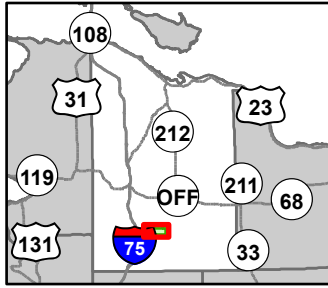
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

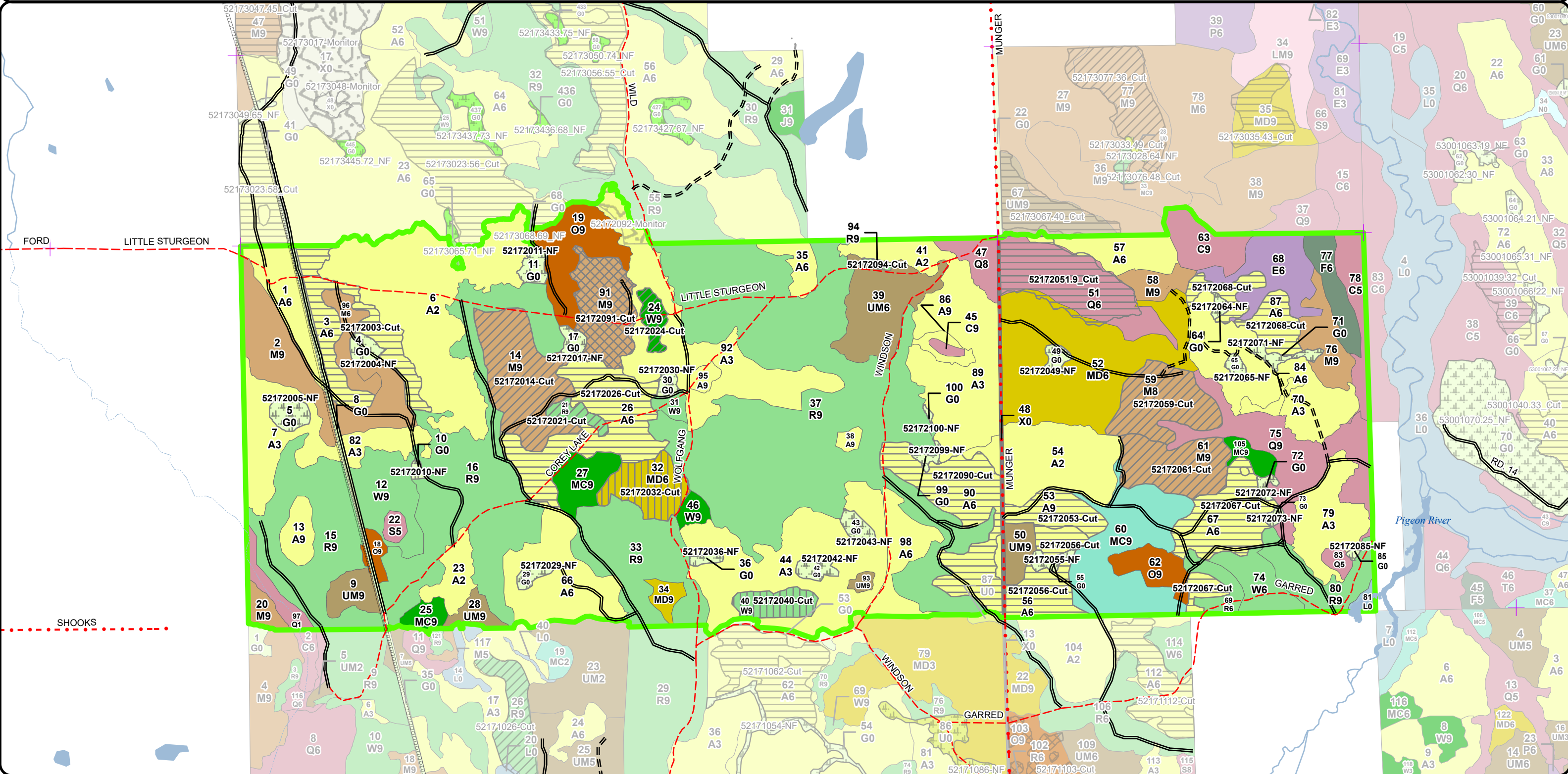
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

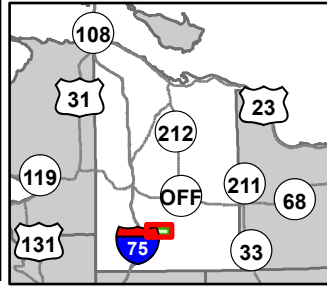
Compartment: 52172
 T34N, R2W, Sec: 27, 34-36
 County: Cheboygan
 Unit: Gaylord
 Mgmt Area: Presque Isle Lake and Till Plains
 YOE: 2026
 Acres: 1931.6 GIS Calculated
 Examiner: Dan Morris
 Map Revised: 9/30/2024
 Map Phase: Post Review



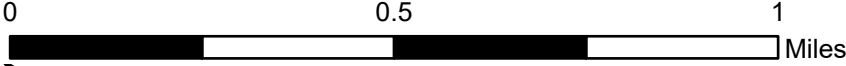
- ✚ Remonumented Section Corners
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- .-.- County - Gravel Road
- .-.- County - Dirt Road (Seasonal)
- .-.- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Pipeline
- Lakes and Rivers
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub



Stand Boundary Map



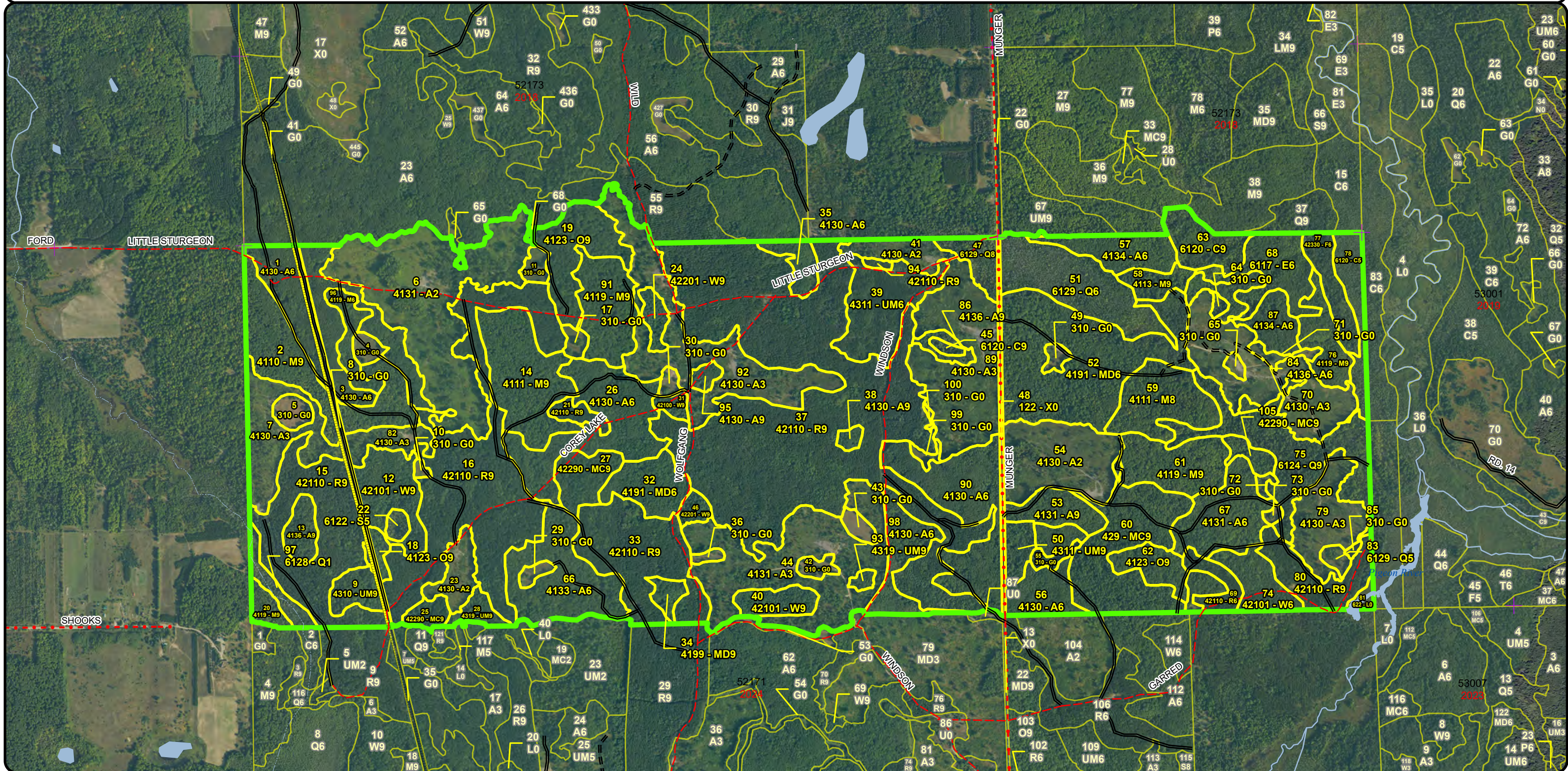
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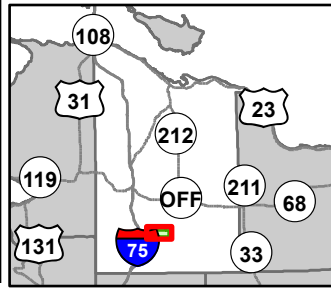
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Special Conservation Areas & Site Conditions Map



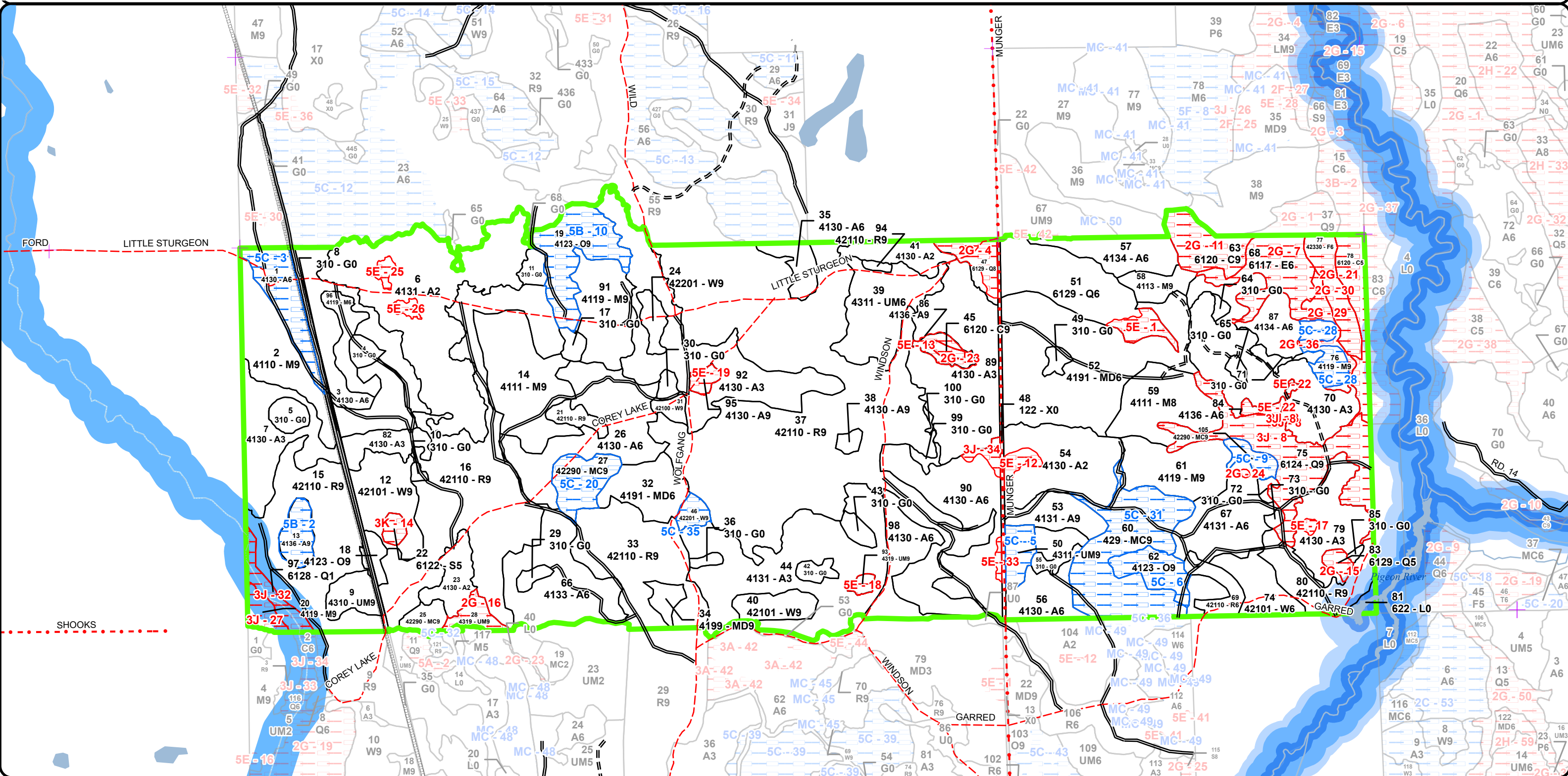
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- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River

- Pipeline
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable

- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)

- 3K: Rare or unique landforms
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer



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	429	0	0	60	95	140	3	10	0	0	0	0	0	0	0	0	0	737
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	16	0	15	0	0	0	31
Herbaceous Openland	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Lowland Conifers	0	0	0	7	0	0	0	3	0	9	42	0	0	0	0	0	37	0	98
Lowland Deciduous	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Spruce/Fir	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	0	0	75	0	0	0	0	0	17	4	0	0	0	0	0	0	96
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	18	0	0	0	5	0	0	0	23
Northern Hardwood	0	0	0	0	0	0	10	0	22	90	5	63	0	0	0	0	0	0	190
Oak	0	0	0	0	0	0	0	0	4	0	0	36	0	0	0	0	0	0	40
Red Pine	0	0	0	0	0	0	0	466	0	0	0	0	0	0	0	0	0	0	466
Upland Conifers	0	0	0	0	0	0	0	0	0	0	45	0	0	0	0	0	0	0	45
Upland Mixed Forest	0	0	0	29	0	0	0	8	0	5	7	2	0	0	0	0	0	0	51
Upland Spruce/Fir	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	12
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
White Pine	0	0	0	0	0	0	0	47	0	0	5	0	4	0	0	0	0	0	56
Total	61	429	0	36	135	95	187	527	36	104	139	105	20	0	20	0	37	0	1931



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 172

Total Compartment Acres: 1,932

Commercial Harvest - 374
 Harvests with Site Condition - 0
 Next Step Harvest - 49
 Habitat Cut - 48

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	190	0	0	0	0	0	0	0	0	190
Lowland Conifers	34	0	0	0	0	0	0	0	0	34
Mixed Upland Deciduous	0	0	0	0	17	0	0	0	0	17
Northern Hardwood	0	25	0	0	0	88	0	0	0	113
Red Pine	0	0	0	0	0	6	0	0	0	6
White Pine	0	0	0	0	9	5	0	0	0	15
Total	224	25	0	0	26	99	0	0	0	374

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	374	0	0	0	0	5	0	45	0	424
Next Step	49	0	0	0	0	226	0	0	0	275
Total	422	0	0	0	0	231	0	45	0	698



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

3	52172003-Cut	28.0	4130 - Aspen	Poletimber Well	53	141- 170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut w/ Retention: <u>Specs:</u> Cut all trees 2" and larger except incidental white oak, paper birch, and balsam fir Standard retention of 3-10% with two separate retention islands. Focus retention around capturing northern red oaks with healthy crowns or around pockets of paper birch. Standard grouse specs for capturing drumming logs Oak Wilt specs</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen is the desired cover type and should be the predominant species. A mix of aspen and mixed hardwoods is acceptable within patches <u>Regen:</u> of the cut.</p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
4	52172004-NF	3.4	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
5	52172005-NF	4.9	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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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10	52172010-NF	1.0	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

11	52172011-NF	3.5	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

14	52172014-Cut	38.1	4111 - S.Maple, Hard Mast Association	Sawtimber Well	103 111-140		Harvest	Crown Thinning	4111 - S.Maple, Hard Mast Association	Even-Aged	No
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Prescription - Mark to 80-90 BA for crown spacing, releasing crop trees, and increasing growth of quality residual trees.

Specs:

- Retain basswood and sugar maple mix with a good ratio of both species and do not species mark
- Protect yellow birch finger in the southeast that is mostly inoperable by excluding the high water table fingers from any marking
- Favor leaving some larger super-canopy red oaks as mast/seed source
- Favor leaving super-canopy over-mature quaking aspen as a future snag and wildlife tree and for structural diversity
- Retain the white pine component in stand
- Oak Wilt Spec

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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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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17	52172017-NF	2.8	310 - Herbaceous Openland	Nonstocked	Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

21	52172021-Cut	4.7	42110 - Planted Red Pine	Sawtimber Well	65	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Crown Thinning:

- Specs:
- Promote growth of residual red pines
 - Mark to 100-120 BA
 - Mark for releasing crowns and for adequate spacing
 - Combine with another larger sale
 - HRD specs

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

24	52172024-Cut	5.2	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	93	171-200	Harvest	Crown Thinning	42200 - Natural White Pine	Even-Aged	No
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Prescription -Cut maple (red / sugar maple) and aspen

- Specs:
- Leave all Red Oak and Red Pine
 - Mark to thin white pine to 120-140BA but not to exceed more than 1/3 of BA in heavy pockets. Focus thinning on release crop trees and for spacing, crown position, and health.
 - Leave all Legacy white pine trees for structural diversity
 - Avoid skidding and cutting damage to white pine regeneration pockets

Next Step
Treatments:

Acceptable
Regen:

Other Objective is to enhance the growth of white pine in the stand by leaving a healthy residual of crop trees and reducing competition for light and resources. It is secondarily to maintain the oak component in the stand. Any white pine and/or oak regeneration with the harvest is supplemental and beneficial to this stand.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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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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26	52172026-Cut	42.6	4130 - Aspen	Poletimber Well	50	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut w/ Retention:

Specs:

- Cut all trees 2" and larger in diameter except any mature red oak & white pine over 18" dbh
- Mark to leave healthy, older, mature red pine not to exceed 5BA per acre
- Leave incidental hemlock
- Standard Grouse specs
- Oak wilt specs for oak protection
- Standard Retention focusing on capturing any paper birch, white pine and or red pine pockets of regeneration in stand

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration should consist of bigtooth and quaking aspen at medium to well stocked numbers.

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

Proposed Start Date: 10/1 /2025

29	52172029-NF	2.3	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

Proposed Start Date: 10/1 /2025

30	52172030-NF	2.2	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

Proposed Start Date: 10/1 /2025



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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
32 52172032-Cut	16.8	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	90	141-170	Harvest	Shelterwood	4191 - Mixed Upland Deciduous with Conifer	Two-Aged	No
<p><u>Prescription</u> Harvest all stems 2" diameter or larger in size except incidental red pine and large legacy-sized white pines.</p> <p><u>Specs:</u></p> <p>Mark to leave 20-30 BA of Red Oak per acre. Focus on leaving large mast trees with healthy crowns.</p> <p>Pile slash on cut oak stumps.</p> <p>Mark to leave 30-50 BA of white pine per acre . Focus on best quality trees with healthy vigorous crowns.</p> <p>Standard Grouse specs for drumming logs</p> <p>Oak wilt specs</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, Pine, & Oak regeneration of medium to well stocked stand is the objective of this harvest. Pockets of red maple mix is acceptable but not the desired regeneration for the harvest.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
36 52172036-NF	1.5	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
40 52172040-Cut	9.4	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	65	141-170	Harvest	Shelterwood	4310 - Pine, Oak Mix	Two-Aged	No
<p><u>Prescription</u> - Cut red maple, aspen, jack pine, and unmarked white pine.</p> <p><u>Specs:</u></p> <p>- Leave incidental red pine and red oak trees including protection of advanced regeneration saplings and poles</p> <p>- Mark to leave white pine crop trees between 30-50 BA selecting the healthy, vigorous trees with good canopy coverage.</p> <p><u>Next Step</u> Harvest, Shelterwood</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> White pine and northern red oak are the desired cover type, but a mix including jack and red pine along with white oak, aspen, and red maple are acceptable regeneration.</p> <p><u>Other Comment:</u></p> <p>- Select the higher quality large diameter white pines displaying a full healthy canopy.</p> <p>- Mark to release on all sides and for good spacing between crop trees.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										



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42	52172042-NF	3.1	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

43	52172043-NF	3.3	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

49	52172049-NF	2.4	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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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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53	52172053-Cut	12.7	4131 - Aspen, Oak	Sawtimber Well	58	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut w/Retention

Specs:

- Capture pockets of red oaks, aspen, paper birch and white pine in retention.
- Protect retained oak by leaving non-oak "bumper trees" around crown/bowl of selected oaks. Negating the need for oak wilt spec.
- Include pocket of retention on west boundary, along Munger Road for visual management.
- Include drumming log spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate or better mixture of aspen with components of red maple, red oak, paper birch, and conifers.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

55	52172055-NF	2.7	310 - Herbaceous Openland	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

56	52172056-Cut	19.1	4130 - Aspen	Poletimber Well	58	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut w/ retention:

Specs:

- Cut all trees 2"DBH and larger except incidental white oak and paper birch
- Standard grouse drumming log specs
- Include Oak wilt specs for oak protection
- Standard retention focusing the retention on capturing red oak poles along the hill in the S-SC portion of stand
- Mark to leave white pine not to exceed 5BA avg residual across the stand

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen (quaking & bigtooth) of moderate to full stocking with a mix of red maple and red oak is our desired regeneration.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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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	52172059-Cut	26.2	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	86	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription -Combine harvest with stand 61.

- Specs:
- Mark to 80-90BA. Cut no more than 1/3 of residual BA in dense maple -basswood pockets with high BA.
 - Favor leaving white pine, red pine, and paper birch in the canopy for compositional diversity.
 - Maintain the composition of the stand by retaining the ratio of basswood, red oak, and sugar maple.
 - Do not cut or damage any hemlock in the canopy / subcanopy. Avoid marking in the heavy hemlock regeneration areas.
 - Retain Legacy sized red oak and Basswood supercanopy trees in stand.
 - Oak Wilt Specs

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

61	52172061-Cut	24.0	4119 - Mixed Northern Hardwoods	Sawtimber Well	86	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription -Combine harvest with stand 59.

- Specs:
- Thin to 80-90BA. Cut no more than 1/3 of residual BA in dense maple -basswood pockets with high BA.
 - Favor leaving white pine, red pine, and paper birch in the canopy for compositional diversity.
 - Do not cut or damage any hemlock in the canopy / subcanopy. Avoid marking in the heavy hemlock regeneration areas.
 - Retain any Legacy red oak and Basswood supercanopy trees in stand.
 - Leave steep ridge in north unmarked due to slope concerns.
 - Oak Wilt spec

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

64	52172064-NF	1.3	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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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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65	52172065-NF	1.6	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

67	52172067-Cut	30.7	4131 - Aspen, Oak	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut w/Retention

- Specs:
- Capture pockets of large, full crowned red oak, aspen, hard/soft maple, birch and white pine understory in long term retention.
 - Protect retained oak by leaving non-oak "bumper trees" around crown/bowl of selected oaks. Negating the need for oak wilt spec.
 - Leave super canopy x-log white pines. (~1 per 5 acres)
 - A low, wet, pocket of cedar has been excluded from the treatment layer (2G-24).
 - Mark, cut to leave, wolfy, x-log, weevil damaged white pines as drumming logs and nurse logs.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate or better stocking of aspen with components of hard/ soft maple, red oak, birch and conifer.

Regen:

Other Mature, large canopy oaks, suitable for retention, are present in the southern portion of the stand.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

87	52172068-Cut	18.0	4134 - Aspen, Spruce/Fir	Poletimber Well	50	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut, no retention

- Specs:
- Leave all incidental species including hemlock, white cedar, white oak, and yellow birch.
 - Keep red line out of and areas of heavy blowdown, present in the northeast of the western treatment area.
 - Include drumming log spec.
 - Include hare spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate or better mixture of aspen, maple, oak, and conifer.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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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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71	52172071-NF	3.0	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

72	52172072-NF	1.4	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

73	52172073-NF	1.2	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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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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85	52172085-NF	0.7	310 - Herbaceous Openland	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

90	52172090-Cut	39.1	4130 - Aspen	Poletimber Well	47	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with Retention:

Specs:

Cut all trees 2" and larger in diameter except incidental white oak.
 Standard grouse specs.
 Include oak wilt spec.
 Mark to leave red or white pine with the average residual not to exceed 5 BA per acre.
 Mark to leave red oaks pole with the avg residual not to exceed 5 BA per acre. Favor groups of red oaks over single tree retention.
 Leave all pine trees (greater than 26" DBH).
 Two Retention areas have been designated for the stand. Refer to the map for excluded areas that are to be retained for stand 90 (3.7 acres).

Next Step Harvest, Clearcut with Retention
Treatments:

Acceptable Bigtooth and Quaking Aspen at moderate to full stocking with a lower density mix of maple and oak.

Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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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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91 52172091-Cut	24.5	4119 - Mixed Northern Hardwoods	Sawtimber Well	103	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
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Prescription - Mark to thin to 80-90 BA marking for canopy spacing and density
Specs:
 - In the densest pockets do not cut more than 1/3 of the residual BA.
 - Maintain the species composition of the stand by focusing on retaining a balanced ratio of basswood, sugar maple, and red oak.
 - Mark out canopy gaps of 75 feet in radius (or 150 feet diameter) of which all species inside canopy gaps are to be cut unless advanced regeneration of desirable species is present.
 -GPS gaps for regeneration checks.
 - Canopy gaps should cover 10% of the forested area with there being 6 canopy gaps total (1 per every 4 acres)
 - Focus gaps around red oak and basswood to take advantage of coppicing stumps.
 -Oak wilt spec
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:
Acceptable Regen: Acceptable regeneration may consist of sugar maple, basswood, red oak, white oak, white pine, red pine, and paper birch.
Other Comment:
Site Condition:
Proposed Start Date: 10/1 /2025

94 52172094-Cut	1.1	42110 - Planted Red Pine	Sawtimber Well	65	201+	Harvest	Systematic Thinning	42110 - Planted Red Pine	Even-Aged	No
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Prescription Systematic Thinning:
Specs:
 - Third Row systematic thinning of red pine stand to lower residual density by 1/3 to promote growth of residual
 - Mark every third row
 - Combine sale with another larger sale
 -HRD specs
Next Step
Treatments:
Acceptable Regen:
Other Comment:
Site Condition:
Proposed Start Date: 10/1 /2025



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
99	52172099-NF	1.7	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
100	52172100-NF	0.5	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forest condition of this stand by prescribed burning, herbicide, or mechanical means.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

Approved Treatments:

51	52172051.9_C ut	33.6	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	182	111-140	Harvest	Clearcut with Retention	6119 - Mixed Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> A medium to fully stocked stand of any lowland species is acceptable regeneration.</p> <p><u>Other Comment:</u> Old next step comments: A medium to fully stocked stand of any lowland species is acceptable regen.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2015</p>											

Total Treatment 418.3
Acres Proposed:

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Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions						
		With Condition				5B	5C	2G	3J	3K	5E	
737	694	24		18	Aspen	8	17	0	3			15
30	0	0		30	Cedar			30				
53	53	0		0	Herbaceous Openland							
98	33	0		65	Lowland Conifers			10	49			6
22	0	0		22	Lowland Deciduous			22				
2	2	0		0	Lowland Shrub							
3	0	0		3	Lowland Spruce/Fir						3	
97	97	0		0	Mixed Upland Deciduous							
23	5	18		0	Natural Mixed Pines		18					
190	170	8		11	Northern Hardwood		8	6	5			
40	3	36		0	Oak	25	11					
466	466	0		0	Red Pine	0						
45	0	45		0	Upland Conifers		45					
52	38	7		7	Upland Mixed Forest		7	5				2
12	0	0		12	Upland Spruce/Fir			12				
6	6	0		0	Urban			0				
56	53	4		0	White Pine		4					
1,932	1,620	143		169	Total Forested Acres	33	109	87	57	3		23
	84%	7%		9%	Relative Percent							

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

Site No.	Dominant Site Cond	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
2	Available		5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand should be a diverse mix of pine, fir, oak, and maple if aspen is left to senesce over time.								

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3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Saving this stand for a 10-year age class gap and an increased volume at final harvest.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is a conifer swamp and is inundated with water locally and seasonally.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Unique, tall, mature white pines providing significant thermal habitat in area and protecting a vernal pond.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The stand contains a multitude of drainages and seeps.							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments: streams present and saturated soil.							

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9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5B: Maintain for regeneration purposes	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Quality red poles oak poles and saplings in stand are in good condition -vigorous and healthy - are consistently growing throughout the stand and should be protected from harvesting damage.							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The stand is being retained in the aspen regeneration cut and is generally too wet for harvest; also mixed conifer stand with white pine, fir, spruce, and hemlock.							
13	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3K: Rare or unique landforms	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: This is a bog with unique plants and inoperable soils.							

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15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Standing water present.							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Saturated soils, wet site species of low commercial value growing with small volume.							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: natural stand of red and white pine in mature size class should be considered for natural pine guidelines for future management. Conifer components of stand should be retained for structural diversity and wildlife considerations.							

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21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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27	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Little Sturgeon river to east un-crossable without portable bridge / mats. Access to west questionable through private property.							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The stand lacks volume and seed sources.							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand contains seeps, drainages, and standing water. Does not support conventional harvest methods.							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment to maintain natural pine stand.							
32	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stream bottom with sensitive soils.							

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33	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Boundary excluded retention for timber sale occurring in stand 90 capturing large diameter natural white pines.							
34	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Boundary excluded retention of natural drain lowland							
35	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: This is a unique white pine stand within the mosaic of the forested compartment representing significant thermal cover, structural diversity, and biological diversity. It should be guided by our natural pine guidelines.							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The stand contains a multitude of drainages and seeps.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	4130 - Aspen	Poletimber Well	16.5	53	111-140	N/A	Bigtooth aspen stand of medium to low quality. Chunks of the stand are growing slowly with smaller diameter (6-7") while other areas are larger (8-10"). Small numbers of Red Oak poles are growing into the stand. Clones of quaking aspen have grown in with the bigtooth in pockets. Sugar maple growing in with the aspen in surprising levels and in some cases making up 20 BA or more with pockets of maple scattered within.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		7	Pole	7		Beech		Medium	10 - 20 feet	Sapling
Black Cherry		1	Pole	6		Serviceberry (Juneberry)		Trace	Variable	Sapling
Red Maple		1	Pole	5		Sugar Maple		Medium	10 - 20 feet	Sapling
Red Oak		2	Pole	6		Ironwood		Trace	5 - 10 feet	Sapling
Bigtooth Aspen		73	Pole/Sap/Log	8	53					
Ironwood		1	Sapling	3						
Sugar Maple		10	Pole/Sapling	6						
Beech		5	Pole/Sapling	6						
2	4110 - Sugar Maple Association	Sawtimber Well	40.1	88	81-110	N/A		Beech scale and snap prevalent. Sugar maple dominated stand in small log size primarily. Very heavy canopy to sugar maple. Understory fully stocked with beech saplings. BA 102. Overall density is not at thinning threshold.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple		80	Log/Pole	12	88	Hemlock	Trace		10 - 20 feet	Sapling
Basswood		5	XLog/Log	20	93	Sugar Maple	Trace		< 5 feet	Sapling
Red Oak		3	Log/Pole	10		Ironwood	Trace		Variable	Sapling
Beech		8	XLog/Log	20		Beech	Full		5 - 10 feet	Sapling
Red Maple		4	Log	16						
3	4130 - Aspen	Poletimber Well	28.0	53	141-170	N/A	Medium-good quality bigtooth aspen stand. Segments of stand (NC-NE) over 12" dbh and taller growing exceptional wood, whereas rest of stand is small log / large pole size. Sugar maple poles found in surprising numbers. Very little coniferous component in stand. Red Oak not common but scattered in groups in area, mainly pole sized and small log.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		1	Pole	5		Balsam Fir		Trace	10 - 20 feet	Sapling
Quaking Aspen		7	Pole	9		Beech		Medium	10 - 20 feet	Sapling
Red Maple		2	Pole	6		Sugar Maple		Medium	10 - 20 feet	Sapling
Paper Birch		1	Pole/Log	8		Serviceberry (Juneberry)		Low	10 - 20 feet	Sapling
Sugar Maple		7	Pole	7		Ironwood		Low	10 - 20 feet	Sapling
Beech		5	Pole	5		Striped Maple		Trace	Variable	Sapling
Red Oak		2	Pole/Log	9						
Bigtooth Aspen		75	Pole/Log	9	53					
4	310 - Herbaceous Openland	Nonstocked	3.4		Unspecified	Managed Opening	Managed Herbaceous opening. Aspen is starting to get a small footprint on the south perimeter of the opening and should be considered for control in future.			
Sub-Canopy Species		Density	Avg. Height	Size						
Quaking Aspen		Low	< 5 feet	Sapling						
5	310 - Herbaceous Openland	Nonstocked	4.9		Unspecified	Managed Opening	DNR Maintained herbaceous opening in good condition. Spotted knapweed is present and growing throughout the field. There is a minimal amount of seedlings (red oak and white pine) along the edge of managed opening.			
Sub-Canopy Species		Density	Avg. Height	Size						
White Pine		Trace	< 5 feet	Sapling						
Spotted Knapweed		Medium	Unspecified	Non-Wood						
Red Oak		Trace	< 5 feet	Seeding						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
6	4131 - Aspen, Oak	Sapling Medium	87.2	4	Immature	N/A	Good regeneration of bigtooth aspen in cut areas with pockets of northern hardwood regeneration mixing in.																																																																	
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7	4130 - Aspen	Sapling Well	26.8	4	Immature	N/A	Aspen regenerating well. Red oak poles and large diameter trees scattered throughout the cut as a seed and mast source.																																																																	
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8	310 - Herbaceous Openland	Nonstocked	8.7			No	This is a utility gas pipeline that is being managed through an easement.																																																																	
9	4310 - Pine, Oak Mix	Sawtimber Well	8.3	64	81-110	N/A	White Pine - Red Oak mixed stand. Most of the white pine was planted very densely in compact rows when the adjacent red pine acreage was established, making it a planted white pine stand. The rest of the pine is seeded in with some older trees present, although not mature. The red oak component is mainly pole sized and healthy. This stand represents a high potential for long term red oak- white pine management and conversion to a natural successional mix of these two species.																																																																	
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10	310 - Herbaceous Openland	Nonstocked	1.0		Immature	Managed Opening	Managed opening. Barren area in center. occupied by knapweed and occasional mullein. White pine and aspen seeded in and advancing along perimeters. Grasses also competing with bracken fern.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
11	310 - Herbaceous Openland	Nonstocked	3.5		Immature	Managed Opening	Managed opening. Fair amount of red pine seedlings on perimeter as well as quaking aspen regen creeping into opening. Blackberry and knapweed have moved into opening. Some barren patches. Grasses are full at over 70 percent.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Sphagnum Moss	Low	Unspecified	Non-Wood					
								Spotted Knapweed	Medium	Unspecified	Non-Wood					
								Bracken Fern	Low	Unspecified	Non-Wood					
								Red Oak	Low	< 5 feet	Seeding					
								Red Pine	Low	< 5 feet	Seeding					
								Quaking Aspen	Low	5 - 10 feet	Sapling					
Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub													
12	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	21.2	64	141-170	N/A	This is a white pine stand with two age classes present. Planted white pine are smaller in diameter and many are stunted, with smaller crowns, and growing slowly. The stand was interplanted with white pine in 1959. A separate older cohort of pine is also natural to the stand with L/XL sizes present. Several legacy white pine trees are located in NW and should be maintained for their size and structural diversity. Red maple is mainly lower quality with multi-trunked trees common. The northern red oak component in the stand is of good quality and should be retained for mast and commercial value. Aspen clones are scattered but small in size and overall canopy composition.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Quaking Aspen	5	Pole/Log	9		Black Spruce	Low	10 - 20 feet	Pole
								Red Pine	2	Log/Pole	10		White Pine	High	5 - 10 feet	Sapling
								Balsam Fir	2	Pole	6		Red Maple	Medium	5 - 10 feet	Sapling
								White Pine	60	Pole	9	64	White Pine	Medium	>20 feet	Pole
								White Pine	1	XLog	18	90	Black Spruce	Low	< 5 feet	Sapling
								Red Oak	15	Log	12		Beech	High	5 - 10 feet	Sapling
13	4136 - Aspen, Mixed Conifer	Sawtimber Well	7.9	74	111-140	N/A	Poor quality, old aspen grove is being succeeded by a conifer dominated understory. There is adequate, advanced regeneration of poles of white pine, balsam fir, and red oak. Pockets of pure red oak are developing in the understory. Red oak in the canopy is present in good numbers and is second only to aspen in dominance.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Beech	2	Pole	7		Beech	High	5 - 10 feet	Sapling
								Red Maple	16	Pole/Log	9		Serviceberry (Juneberry)	Trace	5 - 10 feet	Sapling
								White Pine	10	Log/Pole	12		Balsam Fir	Low	10 - 20 feet	Pole
								Red Oak	20	Pole/Log	8		White Pine	High	10 - 20 feet	Sapling
								Bigtooth Aspen	40	Log	10	74	Red Pine	Low	Variable	Sapling
								Red Pine	2	Pole	8		Red Oak	Low	10 - 20 feet	Pole
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
14	4111 - S.Maple, Hard Mast Association	Sawtimber Well	38.1	103	111-140	N/A	This is essentially a Sugar Maple-Basswood northern hardwood stand. This is a high quality stand growing good sugar maple. There is a high percentage component of basswood. The northern red oak component is composed of large (XL,L) high quality trees and a class of smaller log and pole sized trees. Beech in the stand is infested by BBD. Stand characteristics are typified by full canopy closure and significant crown competition with density at fuller stocking (avg BA 134). Old and overmature super-canopy quaking aspen are scattered through stand along with a paper birch component. Yellow birch and red maple are growing in a lowland finger in the South-East that has had some blowdown and tipping. Water table is high making it inoperable, although small (1-2acre) in size.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
Bigtooth Aspen		1	Log	14		Red Pine		Low	< 5 feet	Seeding		
Yellow Birch		2	Log	14		White Pine		Low	< 5 feet	Sapling		
Red Maple		1	Log	11		Ironwood		High	5 - 10 feet	Sapling		
Quaking Aspen		3	Log/XLog	14		Beech		High	Variable	Sapling		
Basswood		33	Log/XLog	15		Balsam Fir		Trace	< 5 feet	Seeding		
Red Oak		8	Log/Pole/XLog	16		Sugar Maple		Medium	Variable	Sapling		
Beech		10	Log/Pole	16								
Sugar Maple		40	Log/Pole	13	103							
Paper Birch		1	Log/Pole	10								
White Pine		1	XLog/Log	18								
15	42110 - Planted Red Pine	Sawtimber Well	53.5	65	111-140	N/A		Good Quality red pine stand. Previous thinning has opened up good canopy space for future growth of stand. Trees currently not crowded with growing space on 2 sides or more. Dense understory of balsam fir and beech in portions of stand. Density well below thinning threshold - Avg BA 112 on 8pts.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
Red Oak		1	Log	12		Balsam Fir			High	Variable	Sapling	
Red Pine		98	Log/Pole	12	65	Red Pine			Low	10 - 20 feet	Sapling	
White Pine		1	Log	16		Red Oak			Medium	5 - 10 feet	Sapling	
						Beech			High	Variable	Sapling	
						White Pine			Low	5 - 10 feet	Sapling	
						Wintergreen			High	< 5 feet	Tall Shrub	
						Red Maple			Medium	10 - 20 feet	Sapling	
						Black Spruce			Trace	< 5 feet	Sapling	
16	42110 - Planted Red Pine	Sawtimber Well	99.8	65	111-140	N/A	High quality red pine stand in the small log class mainly, although diameters in the large pole size class exist in pockets. Stand average density (130BA) is below the silvicultural guideline for cutting. Red pine individual trees spacing is generally good, with crowns having typically at least two free growing sides. This stand was Selection thinned in 2010 as part of Gooseneck sale and 3rd row thinned prior to that.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
Red Oak		1	Log	10		Ironwood		Medium	Variable	Sapling		
Red Pine		96	Log/Pole	11	65	Red Oak		Medium	10 - 20 feet	Sapling		
Red Maple		1	Pole	6		Ash (spp.)		Low	10 - 20 feet	Sapling		
White Pine		1	Log	12		Sugar Maple		High	10 - 20 feet	Sapling		
Quaking Aspen		1	Log/Pole	10		Beech		High	10 - 20 feet	Sapling		
						Red Maple		Medium	Variable	Sapling		
17	310 - Herbaceous Openland	Nonstocked	2.8		Immature	Managed Opening		Red Pine and aspen seedling recruiting into stand at low intensity. DNR managed herbaceous opening.				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
18	4123 - Red Oak	Sawtimber Well	3.5	77	81-110	N/A	Relatively healthy oak stand of various sizes including some larger size diameter trees including X-logs present. Aspen and beech component are dying off due to age (aspen) and beech bark disease. This self thinning will improve growth condition for residual oaks. Some Oak poles (5 - 9 inch) present in stand. Most of the red maple is coppiced multi-trunked trees of lower quality.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		10	Pole	8		Balsam Fir		Low	Variable	Sapling	
Quaking Aspen		5	Log/XLog	16		Beech		High	5 - 10 feet	Sapling	
Red Maple		15	Log/Pole	10		Red Pine		Low	< 5 feet	Seeding	
Beech		10	Log/Pole	10		White Pine		Low	Variable	Sapling	
Red Oak		60	Log/Pole/XLog	12	77						
19	4123 - Red Oak	Sawtimber Well	25.4	101	81-110	N/A	Quality healthy Northern Red oak stand, nearly homogenous with small volume of sugar maple, aspen, and beech. Red Oak diameter generally around 20 inches or larger. Quality Red Oak poles (4-10 inches) abundant throughout the stand including some small pockets of sub-merchantable aspen. Healthy amount of red oak saplings present in subcanopy along with a low concentration of sugar maples. Large crowned mast-bearing oak trees are healthy and contributing wildlife benefits. Prior timber harvest with red oak retention obvious, producing a good cohort of younger poles.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		88	XLog/Log/Pole	20	101	Sugar Maple		Low	10 - 20 feet	Sapling	
Beech		3	Pole	8		Striped Maple		Low	10 - 20 feet	Sapling	
Quaking Aspen		4	Pole/Sapling	6	35	Ironwood		High	10 - 20 feet	Sapling	
White Oak		1	Log	10		Red Oak		Medium	5 - 10 feet	Sapling	
Sugar Maple		4	Pole/Log	8		Red Oak		High	>20 feet	Pole	
						Beech		High	10 - 20 feet	Sapling	
20	4119 - Mixed Northern Hardwoods	Sawtimber Well	5.1	90	111-140	N/A	North aspect facing community of primarily hardwoods - red maple dominant and balsam fir. A medium grade slope exists in a north-south orientation creating a north-east aspect. Balsam fir is dominant in the sub-canopy along with beech to a lesser extent. Hemlock is present as well and becomes more abundant moving north as a sub-canopy tree. Aspen and Beech are self thinning. White cedar is present on the lowland area adjacent to the creek.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		20	Log/Pole	11		Beech		Medium	5 - 10 feet	Sapling	
Balsam Fir		15	Pole/Log	8		Hemlock		Medium	10 - 20 feet	Sapling	
Yellow Birch		1	Log	14		Beech		Medium	< 5 feet	Seeding	
Red Oak		7	Log/Pole	11		Balsam Fir		Full	Variable	Sapling	
Northern White Cedar		1	Log	12		Ironwood		Medium	5 - 10 feet	Sapling	
Beech		5	XLog/Log/Pole	18							
Red Maple		45	Log/Pole/XLog	11	90						
Hemlock		1	Pole/Log	9							
Quaking Aspen		5	Log	12							
21	42110 - Planted Red Pine	Sawtimber Well	4.7	65	171-200	N/A	High quality small acreage red pine stand. Third row thinned at some point in the history as evidenced by fieldwork - no records for the sale. Most likely cutting was done with an adjacent red pine stand and lumped in as part of a larger sale. Tree heights and form are excellent. Canopy coverage and stocking is high and individual tree would benefit from thinning. BAY average 173/3pts.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		1	Sapling/Pole	4		Sugar Maple		High	10 - 20 feet	Sapling	
Red Pine		98	Log/Pole	12	65	Ash (spp.)		Low	5 - 10 feet	Sapling	
Sugar Maple		1	Sapling/Pole	4		Ironwood		Low	10 - 20 feet	Sapling	
						Red Maple		High	10 - 20 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
22	6122 - Black Spruce	Poletimber Medium	2.7	50	Unspecified	N/A	Conifer dominated bog. Bog species present in sub-canopy such as leather leaf and labrador tea. Black spruce is most abundant both as a pole and sapling species. White pine and larch also present in stand, with pine growing along the perimeter and drier hummocks.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		50	Pole/Sapling	5	50	White Pine		Medium	< 5 feet	Seeding
White Pine		38	Log/Pole	10		Black Spruce		High	Variable	Seeding
Paper Birch		2	Pole	8		Labrador Tea		Medium	< 5 feet	Tall Shrub
Tamarack		10	Pole	6		Blueberry/Bilberry/Cranberry		Medium	< 5 feet	Tall Shrub
						Leatherleaf	High	< 5 feet	Tall Shrub	
23	4130 - Aspen	Sapling Medium	10.6	4	Immature	N/A	Aspen regenerating cut with a red oak seed tree component. Regeneration is mixed with some red maple but is dominated by quaking aspen and is vigorous, past the browse line.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		3	Sapling	1		Jack Pine		Trace	< 5 feet	Seeding
Black Cherry		1	Sapling	1		Red Pine		Low	< 5 feet	Seeding
Red Oak		2	Pole/Log	9		White Pine		Low	< 5 feet	Seeding
Balsam Fir		1	Sapling/Pole	4		Nannyberry		Trace	5 - 10 feet	Tall Shrub
Quaking Aspen		93	Sapling	1	4	Balsam Fir	Low	< 5 feet	Seeding	
						Blackberry/Raspberry	Low	< 5 feet	Tall Shrub	
						Blueberry/Bilberry/Cranberry	Low	5 - 10 feet	Tall Shrub	
24	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	5.2	93	171-200	N/A	Natural White pine stand. Tall (over 90') and straight trees are the rule. Individual trees can be limby, but not weeviled and in good marketable condition. Pockets of stand are over 200 BA with self thinning evident and minor mortality occurring due to competition. Legacy white pines (subjective) over 30 inches present but rare. Red Oak (P/L) of good quality filling in canopy gaps around white pines. Red and sugar maple present mainly in large pole size class. Aspen also in gaps at low numbers. Red maple mainly low quality multi-stemmed trees. Unique stand of significant structural diversity.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		4	Log/Pole	10		Beech		High	5 - 10 feet	Sapling
Red Pine		2	Log	12		White Pine		Low	5 - 10 feet	Sapling
Red Oak		10	Log/Pole	10		Witch Hazel		Low	5 - 10 feet	Tall Shrub
White Pine		67	XLog/Log	18	93	Red Maple		High	10 - 20 feet	Sapling
Red Maple		14	Log/Pole	10		Sugar Maple		Low	5 - 10 feet	Sapling
Sugar Maple		1	Pole	6		Ash (spp.)		Medium	< 5 feet	Sapling
Beech		2	Pole	5		Ironwood	Low	5 - 10 feet	Sapling	
25	42290 - Natural Mixed Pine	Sawtimber Well	4.9	92	111-140	N/A	Basically there are two stands - 1) planted Red Pine planted occupying the East half, and 2) A White Pine stand of small log size and a few Xlog size trees (14-20 avg"). Parts of stand quite dense with canopy closure occurring.. Opening stand up with could cause windthrow concerns to white pine. Aspen is dying out of stand. Red maple is dominant in the subcanopy as a sapling. BA avg 137.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		5	Log/Pole	10		White Pine		Low	5 - 10 feet	Sapling
Red Oak		1	Log	10		Balsam Fir		Low	5 - 10 feet	Sapling
Red Maple		10	Pole/Log	9		Red Maple		Full	10 - 20 feet	Sapling
Red Pine		30	Log	12		Beech		Medium	5 - 10 feet	Sapling
White Pine		54	XLog/Log	18	92					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
26	4130 - Aspen	Poletimber Well	42.6	50	141-170	N/A	This is a higher quality stand of bigtooth and quaking aspen that is dominated by bigtooth. Significant to the stand are mature, large diameter mast-producing red oaks that are present in groups typically and localized portions of stand. These trees are supplementing wildlife with elk and deer feeding at high levels within stand. Additional mature white and red pines make up a lower concentration of the stand and are in most cases supercanopy trees of larger size. Some individual trees approaching legacy size or larger and could be considered legacy, but are adding structural diversity to the stand. BT aspen is of good form and quality with trees approaching 80" in height.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	78	Pole/Log	9	50	Ironwood	Medium		10 - 20 feet	Sapling
Paper Birch	1	Pole	6		Red Pine	Trace		< 5 feet	Sapling
Quaking Aspen	10	Log	10		Witch Hazel	Low		5 - 10 feet	Tall Shrub
White Pine	1	XLog	22		Red Oak	Low		10 - 20 feet	Sapling
Red Oak	4	XLog	24		White Pine	Medium		10 - 20 feet	Pole
Red Oak	1	Pole	9		Beech	High		5 - 10 feet	Sapling
Red Pine	1	Log	15		Serviceberry (Juneberry)	Trace		5 - 10 feet	Sapling
Red Maple	2	Pole	8		Red Maple	High		5 - 10 feet	Sapling
Sugar Maple	2	Pole/Log	9		Sugar Maple	Low		5 - 10 feet	Sapling
					White Pine	Medium		10 - 20 feet	Sapling
27	42290 - Natural Mixed Pine	Sawtimber Well	13.0	92	141-170	N/A		Natural stand of mixed white and red pine. Legacy white (39" girth) and red pine (26" girth) individuals exist within the cohort of log size trees that add structural diversity to this conifer stand. Potential barred owl nest site in white pine has not been verified but stick nest present. Red pines exhibiting old platy bark present. White and Red Pine pole regeneration is evident along with white pine and red oak sapling regeneration. Small patch aspen pockets exist from prior harvest making up a component of the stand. Within aspen pockets also are mature mast-producing red oaks of large diameter and multi-trunked red maples coppiced from prior harvest. Stand direction should be guided by our natural pine management considerations.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Red Oak	4	XLog/Log/Pole	20		Witch Hazel	Medium	10 - 20 feet		Tall Shrub
Red Pine	43	Log/XLog	16	92	Ironwood	Low	10 - 20 feet		Sapling
Quaking Aspen	1	Pole/Sapling	7		Viburnum	Trace	< 5 feet		Tall Shrub
Bigtooth Aspen	8	Pole/Sapling	6		White Pine	Low	10 - 20 feet		Pole
Red Maple	4	Log/Pole	10		Red Pine	Low	10 - 20 feet		Pole
White Pine	40	Log/Pole/XLog	13	70	Beech	Medium	5 - 10 feet		Sapling
					Red Oak	Low	5 - 10 feet		Sapling
					Red Maple	Medium	Variable		Sapling
					White Pine	Low	5 - 10 feet		Sapling
28	4319 - Mixed Upland Forest	Sawtimber Well	5.4	85	81-110	N/A	Balsam fir dominant in stand with aspen and red maple canopy associates. Balsam fir saplings regeneration high to full within the stand. High water table with some ponding occurring in spring. Adjacent to tag alder swamps with some alder creeping into stand. Sparse but scattered white pines of mature size and poles present at a low density.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	23	Pole/Sapling	6	28	Balsam Fir	Full		10 - 20 feet	Sapling
White Pine	10	Log/Pole/XLog	14		Red Maple	High		10 - 20 feet	Sapling
Balsam Fir	40	Log/Pole	10	85	Beech	Trace		5 - 10 feet	Sapling
Red Oak	2	Log	12		Serviceberry (Juneberry)	Trace		5 - 10 feet	Sapling
Red Maple	25	Log/Pole	11		Tag Alder	Low		10 - 20 feet	Tall Shrub
					Wintergreen	Medium		< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
29	310 - Herbaceous Openland	Nonstocked	2.3		Immature	Managed Opening	Managed opening. Parts of it are barren or sparsely vegetated without grass. Red oak mast trees are healthy. Grasses are competing with invasive spotted knapweed and saplings for light and nutrients. Knapweed is not dense but widespread.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Sphagnum Moss	Low	Unspecified	Non-Wood					
								Bigtooth Aspen	Low	< 5 feet	Sapling					
								Red Pine	Medium	< 5 feet	Sapling					
								Spotted Knapweed	High	Unspecified	Non-Wood					
								Sweet Fern	Low	< 5 feet	Tall Shrub					
White Pine	Medium	< 5 feet	Sapling													
30	310 - Herbaceous Openland	Nonstocked	2.2		Immature	Managed Opening	Managed opening in fair condition. Portions barren or mossy. Red oak mast trees for wildlife. Aspen (BT) mainly on east perimeter, not well established.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Bigtooth Aspen	Low	5 - 10 feet	Sapling					
								Red Pine	Trace	< 5 feet	Sapling					
								Spotted Knapweed	Low	Unspecified	Non-Wood					
								Sphagnum Moss	Low	Unspecified	Non-Wood					
Red Oak	Trace	< 5 feet	Sapling													
31	42100 - Planted White Pine	Sawtimber Well	3.1	65	111-140	N/A	White pine dominated stand with some red oak and red pine canopy associates. A second age class of white pine is established as poles increasing the prevalence of white pine in the stand. White pine varies in log size but is mainly in the small log class and has not achieved large mature sizes. Red maple and red oak poles have grown into gaps where they exist and are part of the canopy structure.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Oak	4	Pole	8		White Pine	High	Variable	Sapling
								Red Maple	2	Pole/Log	9		Red Maple	Medium	5 - 10 feet	Sapling
								White Pine	60	Log/Pole/XLog	12	65	Red Oak	Medium	< 5 feet	Seeding
								Red Oak	4	XLog	24		Balsam Fir	Low	5 - 10 feet	Sapling
								Quaking Aspen	4	Pole	7		Beech	Low	5 - 10 feet	Sapling
								Red Pine	26	Log	13					
32	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	16.8	90	141-170	N/A	Two Aged stand consisting of red oak, white pine, red maple, and bigtooth aspen predominately. White pine establishment based on planting records with a trace of much older mature trees of large diameter legacy trees (30"). Also noted a trace amount of red pine of larger size class (20-24 inch). Oak, Maple, and bigtooth aspen existing in both pole and log size classes, with mature red oak of larger diameter making up a significant proportion of the stand. Mature red oak (20" and larger) making for excellent acorn production in stand with elk and deer feeding observed. Significant aspen pockets diversifying the stand. Red maple, white pine, and beech are common in the understory. Witch hazel is abundant as a wildlife enhancing shrub.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	20	Log/Pole/XLog	13	90	Beech	Medium	5 - 10 feet	Sapling
								Quaking Aspen	2	XLog	20		Red Oak	Low	< 5 feet	Sapling
								White Pine	21	Pole/Log	8	65	White Pine	Low	Variable	Sapling
								Red Oak	30	XLog/Log/Pole	18	90	Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub
								Red Pine	2	Log/XLog	17		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
								Bigtooth Aspen	25	Pole	8		Red Maple	High	Variable	Sapling
													Witch Hazel	High	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																															
33	42110 - Planted Red Pine	Sawtimber Well	45.1	65	81-110	N/A	Stand was thinned in 10/2023 as part of Wolfgang Road Red Pine (52-133-16). Stand objective was to thin to 100 - 120BA and met the objective for this residual. Residual trees are in good condition and stem diameters are in small diameter log class.																																																																															
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34	4199 - Other Mixed Upland Deciduous	Sawtimber Well	4.3	100	111-140	N/A	Stand is characterized by larger diameter northern red oak canopy and a scattered but less common maple-aspen-pine mix. Red oak (L/XL/P) established at varying canopy levels along with white pine (L/XL/P) and red maple. Pole sized red maple- red oak - white pine scattered in openings. Small openings also growing serviceberry and chokecherry as soft mast species. BT Aspen is over mature with decay in trees and some mortality occurring.																																																																															
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35	4130 - Aspen	Poletimber Well	7.7	37	111-140	N/A	Bigtooth aspen dominant stand with lesser amounts of red maple and red oak mixed in . A pocket of nearly homogeneous oak developed in the north. Majority of this oak was white, which is rare in this compartment, with a lesser amount of red oak present. The white oak component should be maintained for wildlife and compositional value with any future treatments.																																																																															
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36	310 - Herbaceous Openland	Nonstocked	1.5	Immature	Managed Opening		DNR Managed opening. Red oak mast trees for wildlife at north end. Red pine seedlings established along south edge along with bigtooth aspen (10% coverage).																																																																															
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37	42110 - Planted Red Pine	Sawtimber Well	235.0	65	111-140	N/A	Healthy, good quality red pine stand that was row thinned in 2009. Small logs present (10 -13") and also portions of stand with much smaller diameter pole sized trees (6-9 inches) common. Sporadic locations of lower BA than the average present as well. Quaking aspen and red oak present in small numbers in gaps, along with trace amounts of red maple and white pine.																																																												
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38	4130 - Aspen	Sawtimber Well	2.1	78	Unspecified	N/A	Mature stand of bigtooth aspen with a minor oak component. White and Red Oak are both present both as a canopy associate and as a sapling species. The aspen could be described as looking older, with thick bark, and some individuals dying. Some decay present in aspen stems, although overall most trees are healthy. Advanced regeneration present with both species of oak and pine as successors.																																																												
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39	4311 - Pine, Aspen Mix	Poletimber Well	29.3	26	51-80	N/A	This stand was Clearcut in 1996. The stand regenerated to quaking aspen. Subsequently jack pine was also planted in rows in 1998. Stand also composed of small numbers of black cherry, white and red oak, balsam fir, and white pine. There are trace amounts of hawthorn and serviceberry, along with red maple. A small less than 1 acre seasonally wet pocket contains alder and fir.																																																												
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40	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	9.4	65	141-170	N/A	Planted white pine stand. Canopy associates include much older red oak and coppiced multi-trunked red maple from prior harvests. Trace amounts of jack and red pines, and white oak. Individual white pines in stand were planted densely (pockets are almost 150-170, avg ba 144.) and most are stunted with narrow, small canopies. Individual trees vary widely in diameter (3 - 11"). Although quality crop trees are present, most of the white pine is heavily branched, non-vigorous, slow growing. White pine, however, is not heavily weeviled nor is it damaged from blister rust. Red Oaks are much older with broad spreading canopies and are providing valuable mast for surrounding wildlife including elk where digging and winter scratching observed. The sub canopy is quite sparse with scattered red maple pockets and minimal amounts of oak saplings. Poles of red pine and white pine natural grown are present but rare.																																																												
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41	4130 - Aspen	Sapling Medium	10.7	4	Immature	N/A	Stand was harvested (2020) and regenerated successfully to a moderately well stocked stand of aspen and associates. Both species of aspen, bigtooth and quaking aspen are present and are the dominant regenerating species. Seed-bearing trees of mainly red oak and white pine were left in the cut to provide a future seed source, as mast, and for aesthetics. In the far western corner, the stand had a higher density of conifers that was buffered from cutting.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		10	Log/XLog	16		Sweet Fern		
White Pine		10	Pole	8		Jack Pine		
Balsam Fir		2	Pole/Sapling	5		Beech		
Jack Pine		4	Pole	7		Serviceberry (Juneberry)		
Red Maple		1	Log	10		Ironwood		
Bigtooth Aspen		50	Sapling	1	4	Red Pine		
White Oak		1	Pole/Sapling	5				
Red Maple		5	Sapling	1				
Quaking Aspen		15	Sapling	1				
Red Pine		2	Pole	8				
42	310 - Herbaceous Openland	Nonstocked	3.1			Managed Opening		DNR managed herbaceous opening. Red pine and Bigtooth aspen seedlings creep on west perimeter 10 -15 feet into opening. Low concentration overall.
Sub-Canopy Species		Density	Avg. Height	Size				
Red Pine		Low	< 5 feet	Sapling				
Goldenrod spp.		Low	Unspecified	Non-Wood				
Bigtooth Aspen		Low	< 5 feet	Sapling				
43	310 - Herbaceous Openland	Nonstocked	3.3		Immature	Managed Opening	DNR herbaceous opening. Large canopy mast-producing red oak retained in opening along with juneberry. Bigtooth aspen seedling creep along all perimeters of opening. Invading first 15 feet from edge primarily.	
Sub-Canopy Species		Density	Avg. Height	Size				
Goldenrod spp.		Low	Unspecified	Non-Wood				
Bigtooth Aspen		Low	< 5 feet	Sapling				
44	4131 - Aspen, Oak	Sapling Well	69.8	4	Immature	N/A	Vigorous well stocked stand of bigtooth aspen primarily and to a lesser extent red maple saplings are regenerating after harvest. A quality residual red oak component was retained after aspen harvest varying in size from poles to large dominant canopy trees over 20 inches in diameter. In addition, a trace of white oak poles and larger diameter (14 - 20 inches) white oak trees were left as a seed source. Small parts of stand are approaching a shelterwood type harvest with the percent of oak retained. Local and scattered white and red pine seed trees were left for wildlife and diversity reasons but are scarce. Advanced regeneration of red and white oak saplings present in trace numbers. Aspen regeneration throughout the harvest is widespread and successful.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		24	Pole/Log/XLog	8		White Oak		
Bigtooth Aspen		50	Sapling	1	4	Red Maple		
Quaking Aspen		1	Sapling	1	4	Jack Pine		
Red Maple		20	Sapling	1	4	White Pine		
White Oak		1	XLog/Log/Pole	18				
Red Pine		1	Log/XLog	14				
White Pine		1	XLog/Log	20				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																										
45	6120 - Lowland Cedar	Sawtimber Well	1.6	111	111-140	N/A	Cedar swamp. Standing water present.																																																																																										
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46	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	3.7	110	171-200	N/A	Healthy and tall white pine stand of large diameter (L/XL) trees. Individual legacy trees present (32 inch diameter WP). Parts of stand at higher density 170-200BA with gaps lower 80-100 BA. Significant structural diversity present with white pine trees over 100 ft common. Red Maple (P/L) growing in the stand with red oak (P/L) and both species of aspen filling in canopy gaps between mature pine groves. Structure of stand indicates a clearcut with WP retention about 50 years ago. Overall health of the pines is good with weevil damage or blister rust. Avg BA 173																																																																																										
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47	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	9.0	80	1-50	N/A	Mixed coniferous lowland forest consisting of a white pine super-canopy within a fir-cedar-spruce community. Blowdown, tipping, and layering occurring in high water table areas. Narrow stream exists within stand, along with organic and hydric soils. Some mortality is occurring likely to lack of oxygen amongst stand. White cedar regeneration common and abundant within bands of the stand, whereas pole sized balsam fir and regeneration is abundant throughout. Black spruce and white spruce seedlings and saplings filling in along with the tag alder with mature trees scattered throughout. Trace amounts of larch and elm present.																																																																																										
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48	122 - Road/Parking Lot	Nonstocked	5.9			No																																																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																	
49	310 - Herbaceous Openland	Nonstocked	2.4		Unspecified	Managed Opening	Large opening with grasses, single tree and clumps of white pines (pole/sap) concentrated on fringes. Single trees of log sized white pines in trace quantities dispersed throughout. Trace quantities of jack pine and cherry.																	
								Sub-Canopy Species	Density	Avg. Height	Size													
								Jack Pine	Trace	5 - 10 feet	Sapling													
								Cherry (spp.)	Trace	5 - 10 feet	Sapling													
								Bracken Fern	Medium	Unspecified	Non-Wood													
Blackberry/Raspberry	Low	< 5 feet	Tall Shrub																					
White Pine	Low	10 - 20 feet	Sapling																					
50	4311 - Pine, Aspen Mix	Sawtimber Well	6.9	99	111-140	N/A	Tall, mature white pine (L/XL) is mixed with hardwood in this stand that has a perched or higher water table presence. A few individual white pine legacy sized over 30" dbh. Red pines mixing in with hardwoods including red maple, quaking aspen, and paper birch. There is a small vernal pond within the stand that supports holly and tag alder.																	
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size								
								White Pine	41	XLog	24	99	Red Maple	Medium	Variable	Sapling								
								Red Pine	8	XLog/Log	20		Wintergreen	Low	< 5 feet	Tall Shrub								
								Bigtooth Aspen	5	Pole/Log	8		Balsam Fir	Low	Variable	Sapling								
								Red Maple	16	Pole	7		Serviceberry (Juneberry)	Low	10 - 20 feet	Sapling								
								Quaking Aspen	20	Pole	8		Michigan Holly	Low	5 - 10 feet	Tall Shrub								
								Paper Birch	10	Pole/Sapling	6		Beech	Low	5 - 10 feet	Sapling								
													Tag Alder	Low	5 - 10 feet	Tall Shrub								
								51	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	36.9	182	111-140	N/A	Stand is composed of cedar, black spruce, tamarack, and balsam fir. There is high quantity of tag alder and balsam fir in the understory. The stand is heavily saturated with standing water.									
																Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
																Black Spruce	32	Pole/Log	10	112	Tag Alder	High	5 - 10 feet	Tall Shrub
																Northern White Cedar	35	Pole/Log	10	182	Black Ash	Low	Variable	Sapling
Tamarack	30	Pole/Log	12	130	Balsam Fir	High	Variable									Sapling								
Balsam Fir	3	Pole	6																					
52	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	75.4	34	51-80	N/A	Two-aged forest stand with at least some partial clearcutting as part of logging history. Currently a quality wildlife stand with dominant mast bearing red oaks and wildlife shrubs witch hazel and baked hazel, and service berry in subcanopy. Deer and elk sign in stand abundant. Stand has higher numbers of paper birch in contrast with rest of compartment. Balsam fir, and cedar, along with white and red pine growing in both pole, log, and sapling sizes. Big tooth Aspen and Quaking aspen clones are frequent along with mature acorn bearing red oaks of large diameter. Most of aspen is under sized for harvest. Red maple appears in both pole and sawlog sizes and was left in the residual BA during the last cutting.																	
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size								
								Balsam Fir	4	Pole	6		Red Pine	Low	5 - 10 feet	Sapling								
								Northern White Cedar	4	Pole/Log/Sap	5		Witch Hazel	High	5 - 10 feet	Tall Shrub								
								Red Maple	12	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling								
								Sugar Maple	2	Pole/Log/Sap	6		White Oak	Trace	5 - 10 feet	Sapling								
								Red Oak	17	Log/XLog	14	98	Ironwood	Low	Variable	Sapling								
								Red Pine	2	Log/Pole	8		Beech	Low	5 - 10 feet	Sapling								
								White Pine	10	Log/Pole/XLog	14		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub								
								Quaking Aspen	15	Sapling/Pole	4		White Pine	High	Variable	Sapling								
								Bigtooth Aspen	24	Sapling/Pole	4	34	Maple Leaved Viburnum	Low	< 5 feet	Tall Shrub								
								Paper Birch	10	Pole	8		Red Maple	Medium	10 - 20 feet	Sapling								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
53	4131 - Aspen, Oak	Sawtimber Well	12.7	58	81-110	N/A	Stand is moderately stocked - approximate 110-120 BA - with Bigtooth and Quaking Aspen in the pole class with low quantity in the log size class. Pole size Red Maple is dispersed throughout. Aspen is densest in the northern and eastern portions of the stand. Red Oak is prominent along the southern portion of the stand. The understory contains high quantities of White Pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	13	Pole/Log	9		Red Maple	Low		Variable	Sapling
Bigtooth Aspen	35	Pole/Log	9	58	White Pine	High		Variable	Sapling
Paper Birch	2	Log	12		Balsam Fir	Trace		>20 feet	Sapling
Quaking Aspen	25	Pole/Log	9		Witch Hazel	Low		5 - 10 feet	Tall Shrub
Red Oak	25	Log/XLog	16	105	Beech	Low	10 - 20 feet	Sapling	
54	4130 - Aspen	Sapling Medium	36.2	4	Immature	N/A	Young aspen stand developing with an adequate red maple component.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Bigtooth Aspen	50	Sapling	1	4	White Pine	Low	< 5 feet	Seeding	
Quaking Aspen	25	Sapling	1	4	Balsam Fir	Low	< 5 feet	Seeding	
Red Maple	15	Sapling	1		Blackberry/Raspberry	High	< 5 feet	Tall Shrub	
Red Oak	1	Log/XLog	16		Witch Hazel	Low	< 5 feet	Tall Shrub	
White Pine	1	Sapling	1		Wintergreen	Medium	< 5 feet	Tall Shrub	
Red Pine	2	XLog/Log	20		Red Oak	Trace	< 5 feet	Seeding	
White Pine	6	XLog/Log	20		Beech	Low	< 5 feet	Seeding	
55	310 - Herbaceous Openland	Nonstocked	2.7		Unspecified	No	Primarily ferns and grasses. Starting to fill in with white pines (variable) in height, concentrated in clumps and along the perimeter of opening.		
56	4130 - Aspen	Poletimber Well	19.1	58	111-140	N/A	BT and Quaking aspen stand of full stocking. Some decay and fungus noticeable on quaking aspen near Munger road. Northern red oak (P/L) mainly large pole size present and abundant on hill in SC-SE stand area. White Oak saplings / poles also present in low numbers in stand w higher concentration on hill. White Pine (L/P) and paper birch rare in stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	2	Log	14		Red Maple	Low		Variable	Sapling
Red Maple	9	Pole/Log	8		Red Oak	Low		10 - 20 feet	Sapling
Quaking Aspen	17	Log/Pole	11		White Pine	Medium		5 - 10 feet	Sapling
White Oak	1	Log	10		Beech	Low		5 - 10 feet	Sapling
Paper Birch	1	Pole	8		White Oak	Low		5 - 10 feet	Sapling
Red Oak	10	Log/Pole	10		Witch Hazel	Medium		5 - 10 feet	Tall Shrub
Bigtooth Aspen	60	Pole/Log	9	58					
57	4134 - Aspen, Spruce/Fir	Poletimber Well	16.2	34	51-80	N/A	Young aspen stand with low amounts of mature hard and soft maple, and basswood. Moderate conifer understory that increases in density in the western portion of the stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Basswood	2	Log	14		White Pine	Low	Variable	Sapling	
Quaking Aspen	15	Pole/Sapling	6		Balsam Fir	Medium	Variable	Pole	
Red Maple	5	Log	14		Ironwood	Low	10 - 20 feet	Sapling	
Bigtooth Aspen	55	Pole/Sapling	5	34	Red Maple	Low	>20 feet	Sapling	
Balsam Fir	20	Pole	6		Bigtooth Aspen	Medium	>20 feet	Sapling	
Sugar Maple	3	Log	13		Beech	Low	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
58	4113 - R.Maple, Conifer	Sawtimber Well	7.6	72	51-80	N/A	Mature log red maple, sugar maple, and paper birch, canopy with a component of balsam fir. Mixed subcanopy dominated by fir and pine. The stand trends toward conifer dominance towards the west.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		5	Log	12		Black Cherry		Trace	Variable	Sapling
Paper Birch		15	Log	13		Paper Birch		Low	Variable	Sapling
Balsam Fir		20	Pole	9		Balsam Poplar		Low	10 - 20 feet	Sapling
Red Maple		60	Log/Pole	13	72	Balsam Fir		High	Variable	Sapling
						White Pine		Medium	10 - 20 feet	Sapling
						Red Maple		Low	Variable	Sapling
59	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	26.2	86	111-140	N/A	Sugar maple, basswood, and red oak are canopy dominants in this stand. Basswood achieving excellent form and diameter in locations of stand. Red Oak poles present along with log and X-log (20+ inch) diameter healthy supercanopy trees. Multi-trunked stems of sugar maple & basswood common in north and central stand. Stand quality higher in East and along ridges in S-SE. BBD present with beech self thinning. Ironwood presence heavy in subcanopy.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		15	XLog/Log	18		Ironwood		Full	10 - 20 feet	Sapling
Red Maple		8	Log/Pole	10		Sugar Maple		Medium	10 - 20 feet	Sapling
Balsam Fir		1	Pole	5		Striped Maple		Trace	5 - 10 feet	Sapling
Paper Birch		2	Log/Pole	12		Red Oak		Low	10 - 20 feet	Sapling
Sugar Maple		32	Log/Pole/XLog	13	86	Beech		Medium	10 - 20 feet	Sapling
Beech		3	Log/Pole	12		Balsam Fir		Low	Variable	Sapling
Bigtooth Aspen		2	Log/XLog	16		White Pine		Low	10 - 20 feet	Sapling
Basswood		37	Log/Pole/XLog	16	86					
60	429 - Mixed Upland Conifers	Sawtimber Well	44.8	99	111-140	N/A	The stand has a heavy component of red and white pine, good structural diversity, with an average BA of ~130. Upland areas contain mature (x-log) red and white pine, red oak (log/x-log), big tooth (log/x-log), red maple (pole/log) with a mixed subcanopy of balsam fir, white pine, red maple, aspen and beech. White and red pine regeneration is only present in transitional zones and along the perimeter of the stand where there is less canopy cover. The interior of the stand has a subcanopy dominated by red maple with pockets of aspen and contains the highest density of x-log white and red pines at 200+ BA. A lowland/bog component with northern white cedars, yellow and paper birch and red maple is present in the heart on the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		22	XLog	18	98	Beech		Low	10 - 20 feet	Sapling
Red Maple		15	Log/Pole	11		Oak (spp.)		Low	Variable	Sapling
Northern White Cedar		3	Log/Pole/XLog	13		White Pine		Medium	Variable	Sapling
Red Oak		6	Log/XLog	16		Red Maple		Medium	Variable	Sapling
Yellow Birch		1	Log/Pole/XLog	12		Red Pine		Low	>20 feet	Sapling
Quaking Aspen		6	Pole/Log	9		Bigtooth Aspen		Medium	>20 feet	Sapling
Paper Birch		2	Log/Pole	10		Balsam Fir		Low	10 - 20 feet	Sapling
Bigtooth Aspen		10	Log/Pole/XLog	12		Witch Hazel		Low	10 - 20 feet	Tall Shrub
White Pine		35	XLog	24	99					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
61	4119 - Mixed Northern Hardwoods	Sawtimber Well	24.0	86	111-140	N/A	This is a high-quality stand composed of sugar maple, red oak, and basswood with the presence of individual legacy trees (39" NRO & 29" Bass documented). The western part of the stand is growing a red oak mix with red maple and BT aspen and older red pines often with super-canopies. Moving east in the stand transitions to a dominance of sugar maple and basswood although northern red oak remains a common tree. Overall, the stand has a minor component of red pine and white pine with most trees at super-canopy status. Soils are high nutrient availability and site index is high. A ridge running East - West in north of stand is steep and parts inoperable. Hemlock becomes abundant in the subcanopy towards the north on ridges and near the lowland. Hemlock is healthy and of decent size will succeed into canopy with time. A Finger of lowland also in North- NE is growing trace amounts of yellow birch to add to the diversity.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		2	Log	15		White Pine		Medium	5 - 10 feet	Sapling	
Red Oak		20	XLog/Log	20		Ironwood		High	5 - 10 feet	Sapling	
Beech		7	Log/Pole	14		Balsam Fir		Low	5 - 10 feet	Sapling	
Basswood		20	Log/Pole/XLog	15		Wild Red Raspberry		Medium	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		6	Log	16		Hemlock		Medium	10 - 20 feet	Pole	
Red Maple		4	Log/Pole	10		Beech		Medium	5 - 10 feet	Sapling	
White Pine		1	XLog/Log	18							
Sugar Maple		34	Log/Pole/XLog	14	86						
White Oak		1	Log	16							
Hemlock		5	Log/Pole	10							
62	4123 - Red Oak	Sawtimber Well	10.9	104	81-110	N/A		Canopy is dominated by red oak approximately 16 to 18 DBH, white pine pole/log size in lower quantities. Well stocked white pine understory with advanced regeneration.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Oak		75	Log/XLog	17	104	Red Oak			Medium	< 5 feet	Sapling
Red Pine		5	Log/XLog	16		White Pine			High	Variable	Sapling
White Pine		20	Pole/Log	9		Beech			Low	5 - 10 feet	Sapling
63	6120 - Lowland Cedar	Sawtimber Well	15.2	130	141-170	N/A	Low, wet stand, dominated by northern white cedar. Stand contains areas of heavy blowdown. BA of 170.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		57	Log/Pole	11	130	Northern White Cedar		Medium	>20 feet	Sapling	
Hemlock		3	Log	12		Beech		Trace	5 - 10 feet	Sapling	
Black Spruce		10	Log/Pole	12		Red Maple		Low	Variable	Sapling	
Yellow Birch		5	Log/XLog	14		Balsam Fir		Low	Variable	Sapling	
Balsam Fir		15	Log/Pole	10							
Red Maple		7	Log/Pole	10							
Quaking Aspen		3	Log/XLog	16							
64	310 - Herbaceous Openland	Nonstocked	1.3		Unspecified	No	White pine (pole/sap) present in clumps. Grasses, ferns, and raspberry present.				
65	310 - Herbaceous Openland	Nonstocked	1.6			No	Few mature wolfy maples present. Opening was used as a landing for previous clearcut.				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
66	4133 - Aspen, Mixed Pine	Poletimber Well	36.3	37	81-110	N/A	Bigtooth aspen stand with red & white pine as lesser but important components. Red oaks also significant in the stand. Much of stand borderline merchantable and growing poorly with only moderate stocking. Abundant advanced white pine regeneration present in stand in variable height ranges but primarily 5-10' with red pines mixing in as well in the subcanopy.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		4	Pole/Sapling	5		Witch Hazel		
Quaking Aspen		1	Pole/Sapling	5		Serviceberry (Juneberry)		
Bigtooth Aspen		60	Pole/Sapling	5	37	Red Oak		
White Pine		15	Log/Pole	10		Red Maple		
Red Maple		4	Log/Pole	12		Beech		
Red Pine		8	XLog/Log/Pole	18		White Pine		
Red Oak		8	XLog/Log/Pole	20		Balsam Fir		
						Red Pine		
67	4131 - Aspen, Oak	Poletimber Well	31.0	49	81-110	N/A	The stand is primarily composed of bigtooth aspen and mature (x-log) red oak, with a mature white pine component (x-Log, 20+ DBH). The aspen is dispersed throughout, though heaviest concentrations are in the northern and eastern quadrants of the stand. Red oak is also found throughout, most heavily concentrated to the southwest quadrant at higher elevation. Mature white pines are found throughout in low/trace quantities. There is also a small depression with white cedar in the northeast corner of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Log/Pole	10		Red Oak		
White Pine		5	XLog	22		Sugar Maple		
Bigtooth Aspen		50	Pole/Log	8	49	Red Maple		
Red Oak		35	XLog/Log	18	108	Beech		
						White Pine		
68	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	22.0	50	81-110	N/A	Lowland stand with mature quaking aspen, red maple, balsam firs and white cedar. Bigtooth and quaking aspen are present throughout. A hardwood pocket with sugar maple, red maple, and bass wood is present in the northern portion of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		24	Pole	8	50	Oak (spp.)		
Bigtooth Aspen		15	Pole	7	50	Red Maple		
Northern White Cedar		10	Log/Pole	11	90	Paper Birch		
Red Oak		3	Log	14		Balsam Fir		
Red Maple		10	Pole/Log	8		Ironwood		
Sugar Maple		12	Log/Pole	10				
Balsam Fir		24	Pole	8				
69	42110 - Planted Red Pine	Poletimber Well	7.7	65	81-110	N/A	Stand was thinned in 10/2023 as part of Wolfgang Road Red Pine (52-133-16).	
Canopy Species		% Cover	Size Class	DBH	Age			
Bigtooth Aspen		3	Log/Pole	12				
Red Pine		97	Log/Pole	10	65			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
70	4130 - Aspen	Sapling Well	43.7	4	Immature	N/A	Moderate to well stocked Bigtooth and Quaking Aspen. Low quantities of clumps and single trees of mature Hemlock, Northern White Cedar, and Oak left as retention. Southeast portion of the stand has significantly better regeneration.																																																												
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71	310 - Herbaceous Openland	Nonstocked	3.0		Unspecified	No	The opening contains one x-log wolffy red oak, clumps of white pines (sap/pole), aspen saplings, and balsam poplar. Along with grasses and ferns.																																																												
72	310 - Herbaceous Openland	Nonstocked	1.4		Unspecified	No	White pine, ferns, grasses, and lichen. White pine (pole/sap) concentrated along perimeters.																																																												
73	310 - Herbaceous Openland	Nonstocked	1.2		Unspecified	No	White pines, ferns, moss, and lichen present. White pine (sap/pole) is concentrated along the perimeter of opening.																																																												
74	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	13.8	65	111-140	N/A	White pine dominated, 9-11 DBH. Few mature oaks present in the north. Scattered low quality red maples throughout.																																																												
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75	6124 - Lowland Spruce-Fir	Sawtimber Well	41.9	92	81-110	N/A	Mature Black Spruce up to x-log in size, Northern White Cedar, Balsam Fir, and Quaking Aspen. Saturated soils and streams flowing to the Pigeon River.																																																												
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76	4119 - Mixed Northern Hardwoods	Sawtimber Well	14.4	79	111-140	N/A	This stand is unique to the compartment with a heavy presence of log sized basswood (approximately 45% of the canopy) with the remainder of the canopy dominated by log/pole sugar and red maple, and low quantities of yellow birch, upland cedars, hemlocks and balsam fir. The stand contains multiple seeps and drains that contain moderate quantities cedar and balsam fir and should be avoided in future harvests. Active regeneration of desired species (basswood and maple) is nonexistent due to browse and the lack of a quality seed sources. However, sapling/pole approximately 3 inches are present.																																																												
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77	42330 - Upland Fir	Poletimber Well	12.3	58	81-110	N/A	Canopy dominated by Balsam Fir and White Cedar with lower quantities of Red Maple, and trace amounts of Yellow Birch and Basswood. Low area with pit and mounds and heavy blowdown.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		9	Pole/Log	9		Ash (spp.)		Low	5 - 10 feet	Sapling
Balsam Fir		75	Pole/Log	9	58	Balsam Fir		High	Variable	Sapling
Basswood		2	Log/Pole	12		Red Maple		Medium	Variable	Sapling
Northern White Cedar		10	Log/Pole	12		Beech		Low	5 - 10 feet	Sapling
Yellow Birch		4	Log/Pole	11						
78	6120 - Lowland Cedar	Poletimber Medium	13.7	112	81-110	N/A	A majority of the stand is beginning to show signs of decline. There is die back in the tops of a lot of the cedar.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		90	Pole/Log	8	112	Tag Alder		Medium	5 - 10 feet	Tall Shrub
Black Spruce		10	Log/Pole	11		Red Maple		Low	5 - 10 feet	Sapling
						Balsam Poplar		Low	5 - 10 feet	Sapling
						Balsam Fir		Low	Variable	Sapling
79	4130 - Aspen	Sapling Well	24.3	4	Immature	N/A	Successful regeneration of bigtooth and quaking aspen. Mature 24+ DBH white pines and oak spp. poles present in trace amounts. The stand does contain low areas with lowland species and standing water. Retention pock: composed of quaking aspen pole/log, balsam fir pole, and red maple pole.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		3	XLog	24	100	Balsam Fir		Low	5 - 10 feet	Sapling
Red Oak		2	Pole	7		White Pine		Low	< 5 feet	Sapling
Bigtooth Aspen		40	Sapling	1	4					
Quaking Aspen		55	Sapling	1	4					
80	42110 - Planted Red Pine	Sawtimber Well	19.5	65	81-110	N/A	Stand was thinned in 10/2023 as part of Wolfgang Road Red Pine (52-133-16).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		9	XLog	30		Red Maple		Low	Variable	Sapling
Red Pine		85	Log	12	65	Pin Oak (Southern)		Low	5 - 10 feet	Sapling
Red Maple		2	Pole	6		Pin Cherry		Medium	5 - 10 feet	Sapling
Red Oak		2	Log	16		White Pine		Low	Variable	Sapling
Bigtooth Aspen		2	Log/Pole	13		Beech		Low	5 - 10 feet	Sapling
						Blueberry/Bilberry/Cranberry		Low	< 5 feet	Tall Shrub
81	622 - Lowland Shrub	Nonstocked	2.2			No				
82	4130 - Aspen	Sapling Well	9.6	4	Immature	N/A	Good to excellent regeneration of bigtooth aspen in the stand. Red oak poles and large diameter mature trees were left as retention.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Beech		1	Sapling	1		Beech		Medium	< 5 feet	Seeding
Quaking Aspen		5	Sapling	1		Red Oak		Low	< 5 feet	Seeding
Bigtooth Aspen		80	Sapling	1	4	White Pine		Low	< 5 feet	Seeding
Red Oak		10	Pole/Log	9		Balsam Fir		Low	< 5 feet	Seeding
Red Maple		4	Sapling	1						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																							
83	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	2.7	60	51-80	N/A	Forested lowland stand composed of Tamarack, Balsam Fir, and White Cedar. Few Red Pines along the fridges. Stand is in a low depression with Tag Alder and Red Maple saplings. Standing water is present. Size class of stand is sapling, trending towards pole.																																																																							
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84	4136 - Aspen, Mixed Conifer	Poletimber Well	2.8	65	141-170	N/A	Stand has a significant Aspen component with a diverse canopy of mixed conifers and deciduous trees including Maple and Birch. Low quantities of mature log, x-log Hemlocks and White pines. The stand is in a depression.																																																																							
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85	310 - Herbaceous Openland	Nonstocked	0.7	0	Unspecified	Managed Opening	Small opening composed of ferns, grasses, with trace quantities of white pine and low quantities of aspen.																																																																							
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86	4136 - Aspen, Mixed Conifer	Sawtimber Well	3.8	47	141-170	N/A	Retention area of aspen adjacent to lowland conifers. Mature red and white pine of large size are mixed in with the aspen.																																																																							
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Stand **Level 4 Cover Type** **Size Density** **Acres** **Stand Age** **BA Range** **Managed Site** **General Comments**

87 4134 - Aspen, Spruce/Fir Poletimber Well 18.1 50 81-110 N/A

Stand is dominated by pole size quaking and big tooth, balsam fir, and red maples with low quantities of sugar maple, basswood, red oak, and hemlock.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	2	Pole/Log	9		Red Maple	Low	Variable	Sapling
Sugar Maple	12	Log/Pole	10		Oak (spp.)	Low	Variable	Sapling
Bigtooth Aspen	20	Pole	7	50	Paper Birch	Medium	>20 feet	Sapling
Red Oak	3	Log	14		Ironwood	Medium	Variable	Sapling
Balsam Fir	22	Pole	8		Balsam Fir	High	Variable	Pole
Red Maple	10	Pole/Log	8					
Northern White Cedar	5	Log/Pole	11	90				
Quaking Aspen	25	Pole	8	50				
White Oak	1	Log/Pole	12					

89 4130 - Aspen Sapling Well 53.3 4 Immature N/A

Vigorous regeneration throughout the clearcut of bigtooth and quaking aspen. Lesser amounts of red maple saplings present. Red Oak, White Pine, and Red Pine individual large diameter trees scattered left as wildlife and seed sources.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	70	Sapling	1	4	Sweet Fern	Low	< 5 feet	Tall Shrub
Red Maple	3	Sapling	1		White Pine	Trace	< 5 feet	Seeding
Red Pine	1	XLog	20		Balsam Fir	Low	< 5 feet	Seeding
White Pine	5	XLog	24		Witch Hazel	Medium	< 5 feet	Tall Shrub
Red Oak	1	Log/Pole	12		Jack Pine	Low	< 5 feet	Seeding
Quaking Aspen	20	Sapling	1	4				

90 4130 - Aspen Poletimber Well 42.7 47 141-170 N/A

Aspen stand growing vigorously good volume and density. Quaking aspen mixing in with bigtooth but Bigtooth dominant on site. Red oak (L/P) and red maple (P) are most frequent canopy associates. Stand is lacking large mast red oaks typical of the area. North east section of stand has sliver of conifer lowland with trace of hemlock, balsam fir, and paper birch.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	3	XLog/Log	18		Serviceberry (Juneberry)	Low	Variable	Sapling
Red Oak	5	Pole/Log	9		Red Maple	High	Variable	Sapling
Red Pine	1	Log	12		Witch Hazel	High	10 - 20 feet	Tall Shrub
Paper Birch	2	Pole	8		Blueberry/Bilberry/Cranberry	High	< 5 feet	Tall Shrub
Red Maple	4	Pole	7		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	14	Log	10	47	White Oak	Low	5 - 10 feet	Sapling
Bigtooth Aspen	71	Pole/Log	9	47	Wintergreen	High	< 5 feet	Tall Shrub
					White Pine	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
91	4119 - Mixed Northern Hardwoods	Sawtimber Well	24.5	103	111-140	N/A	This is a quality northern hardwoods stand. Density varies but silvical threshold is being met - avg BA -130/10 pts . Northern red oak (XL/L) in stand is large diameter with trees over 20" and high quality. Basswood (L/XL) is abundant in stand also good quality. Sugar Maple is the dominant tree by canopy coverage but a tad smaller but of good quality. The Beech component is dying out and some trees have succumbed to BBD. Beech and ironwood are most common in the subcanopy, however some areas have decent sugar maple sapling regen.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Sugar Maple	30	Log/Pole	12	103	Ironwood	High		10 - 20 feet	Sapling	
White Oak	1	Log	10		Ash (spp.)	Low		10 - 20 feet	Sapling	
Red Oak	25	Log/XLog	16	101	Striped Maple	Low		10 - 20 feet	Sapling	
Paper Birch	1	Pole/Log	8		Sugar Maple	Low		10 - 20 feet	Sapling	
Basswood	25	Log/XLog	14		Beech	High		10 - 20 feet	Sapling	
White Pine	1	Log	12							
Red Maple	1	Log/Pole	10							
Quaking Aspen	2	Log	10							
Ironwood	2	Pole/Sapling	5							
Beech	10	Pole/Log	8							
Red Pine	1	Log	16							
Yellow Birch	1	Pole	8							
92	4130 - Aspen	Sapling Well	56.4	4	Immature	N/A		Aspen regeneration is good. Overstory of red oak, white pine, and red pines are scattered as retention throughout clearcut. There is a retention pocket (stand 95) of mature aspen that was designed in with the cutting. Red maple heavily browsed by deer and elk, however most aspen regrow is well past browse line.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Red Oak	1	Pole	8		Red Oak	Low			< 5 feet	Seeding
Red Oak	1	XLog	20		Ironwood	Low			< 5 feet	Seeding
Red Pine	1	XLog/Log	18		Sweet Fern	Medium			< 5 feet	Tall Shrub
Bigtooth Aspen	67	Sapling	1	4	Blackberry/Raspberry	Low	< 5 feet		Tall Shrub	
Quaking Aspen	20	Sapling	1		Common Blackberry	High	< 5 feet		Tall Shrub	
White Pine	5	Log/XLog	15							
Beech	1	Sapling	1							
Red Maple	4	Sapling	1							
93	4319 - Mixed Upland Forest	Sawtimber Well	1.8	100	51-80	N/A	Healthy stand of retention. Red Pine super-canopy of older mature trees is the dominant component of stand. Both Red and White oak poles growing in with aspen. Several mature mast oak trees providing sustenance for wildlife.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Quaking Aspen	14	Pole/Sapling	7	47	Red Maple	High		10 - 20 feet	Sapling	
Red Maple	18	Pole	7	47	White Pine	Low		Variable	Sapling	
Red Oak	25	Pole/Log	9		Red Oak	Low		5 - 10 feet	Sapling	
White Oak	1	Pole	9		White Oak	Low		5 - 10 feet	Sapling	
Red Pine	42	XLog/Log	18	100	Witch Hazel	High		5 - 10 feet	Tall Shrub	
94	42110 - Planted Red Pine	Sawtimber Well	1.1	65	201+	N/A	Small 1 acre stand of red pine with a high density over 200BA. Stand has never been thinned or cut in the past but is healthy and growing good volume. Stand should be systematically thinned to promote growth of crop trees and concentrate resources for residual trees.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Bigtooth Aspen	2	Log	14		Red Maple	Low		5 - 10 feet	Sapling	
Jack Pine	1	Log/Pole	10		White Oak	Low		< 5 feet	Sapling	
Red Pine	97	Pole/Log	9	65	Beech	Low		5 - 10 feet	Sapling	
					Red Oak	Low		< 5 feet	Sapling	
					Red Pine	Low	10 - 20 feet	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																				
95	4130 - Aspen	Sawtimber Well	2.8	50	111-140	N/A	Retention pocket of aspen from prior clearcut.																																																																				
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96	4119 - Mixed Northern Hardwoods	Poletimber Well	9.6	54	51-80	N/A	This stand is a northern hardwood inclusion that was part of a large block clearcut that initiated aspen stands (1 and 3) to the west. A healthy number of red oak and sugar maple poles of good quality are anchoring the stand. The beech component is diseased and failing from BBD.																																																																				
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97	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	7.2	20	Immature	N/A	Creek bottom wetland. Young, mainly sapling and pole sized tree and shrub species found growing here. Balsam Fir, red maple, cedar, and tag alder abundant. Some cedar mortality occurring possibly due to flooding. Paper birch and pines also making up a significant portion of the canopy cover.																																																																				
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98	4130 - Aspen	Poletimber Well	17.6	47	111-140	N/A	Healthy stand of bigtooth aspen. Some nice white oak mast trees should be retained for long term management. Red oak and red maple the most common associates.																																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
99	310 - Herbaceous Openland	Nonstocked	1.7		Immature	No	Herbaceous opening that gives a lane of access to the opening to North (stand 100) as well as being it's own stand. Overgrown with quaking aspen aggressively taking over the NE section. Also bracken, bigtooth aspen, and pine getting a small foothold.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Blackberry/Raspberry	Low	< 5 feet	Tall Shrub					
								White Pine	Trace	< 5 feet	Seeding					
								Bracken Fern	Medium	Unspecified	Non-Wood					
								Bigtooth Aspen	Low	< 5 feet	Sapling					
								Quaking Aspen	Medium	10 - 20 feet	Sapling					
100	310 - Herbaceous Openland	Nonstocked	0.5		Immature	Managed Opening	Managed opening. Decent amount of established blackberry, although not dense . Red pine seedlings spread throughout (less than 2' tall). Moss and barren patches could be reseeded.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Sphagnum Moss	Low	Unspecified	Non-Wood					
								Bigtooth Aspen	Trace	< 5 feet	Sapling					
								Red Pine	Medium	< 5 feet	Seeding					
								White Pine	Low	< 5 feet	Seeding					
								Sweet Fern	Low	< 5 feet	Tall Shrub					
Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub													
105	42290 - Natural Mixed Pine	Sawtimber Well	4.9	130	111-140	N/A	New stand was added in 2014 YOE. Small acreage of mature natural red and white pine.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	3	Pole/Log	10		Balsam Fir	Medium	Variable	Sapling
								Red Oak	5	Log	14		White Pine	Low	Variable	Sapling
								White Pine	55	XLog	22	130	Red Pine	Medium	Variable	Sapling
								Red Pine	32	XLog	20					
								Quaking Aspen	5	Log/Pole	10					