



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53023

Entry Year 2026

Acreage: 1,894

County: Cheboygan

Management Area: Presque Isle Lake and Till Plains

Stand Examiner: Greg Rekowski

Legal Description:

T33N R01E Sections 7, 8, 9

Identified Planning Goals:

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

Soil and topography:

The Compartment is mostly flat to slightly rolling terrain. Upland soils are a mix of sands, sandy loams, loamy sands, and silt loams with the most common types being the Riggsville loamy sand (9.9%), Cheboygan loamy sand (9.6%), Ingalls loamy sand (7.9%), and the Brimley very fine sandy loam (6.5%). Many of these upland soil types retain water, have a clay component, and have a shallow depth to the water table which makes a "true" dry upland type in this Compartment rare. Lowlands are primarily Tawas peat (19%), Roscommon muck (14.1%), and Burleigh mucky sand (5.7%). All types contribute to the wet nature which prevails throughout this Compartment.

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

Solid State ownership with the exception of one private parcel in each Section.

Unique Natural Features:

Red-shouldered hawks are known to occur in this Compartment. The pine imperial moth and great blue heron rookery sites have the potential to be present in the Compartment.

Archeological, Historical, and Cultural Features:

Old homesteads and schoolhouses have previously been identified in this Compartment.

Special Management Designations or Considerations:

No designated areas are present.

Watershed and Fisheries Considerations:

Although the Compartment has extensive areas of marsh, lowland shrub and conifer swamp, there is no major stream or body of water. However, numerous intermittent streams and drainages are present throughout the Compartment, with most appearing to flow north, eventually draining into the swamp complex surrounding Duby Lake.

Wildlife Habitat Considerations:

A Wildlife Division representative will be available to participate in the formal Compartment review to address any habitat concerns.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the State. No known active sand & gravel pits exist in the area, and commercial development involving use of the surface in the Compartment is not allowed. The Compartment is outside the main Antrim Shale gas play. The Antrim Shale is thin to absent beneath the Compartment and has limited potential for gas production. The Silurian reef trend is just to the southeast, and active production is occurring approximately one mile south. There is no known history of wells drilled in the Compartment, and potential for Silurian reef reservoirs beneath the Compartment is considered low. State land in the Compartment and surrounding area cannot be utilized for future drilling operations and all State-owned mineral rights are non-leasable. Any decisions on future mineral exploration and development within the Compartment shall be consistent with the Concept of Management for the Pigeon River Country. The State does not own all the mineral rights within the Compartment.

Vehicle Access:

There is good access to most, if not all, of this Compartment via Clute Road and open State forest roads. Duby Lake Road, a county road, is in very poor condition and flooded with water just north of the Compartment boundary.

Survey Needs:

Two survey requests have been submitted for this Compartment.

Recreational Facilities and Opportunities:

Hunting is the primary recreational pursuit throughout this Compartment. No formal recreational facilities exist.

Fire Protection:

Access is good in case of any fire suppression effort, though the area is generally at very low risk to any wildfire potential.

Additional Compartment Information:

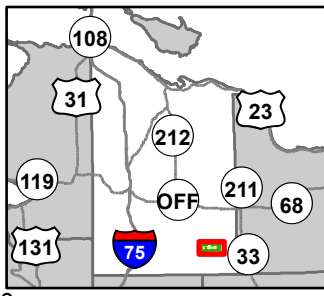
The following reports from the Inventory are attached:

- 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**

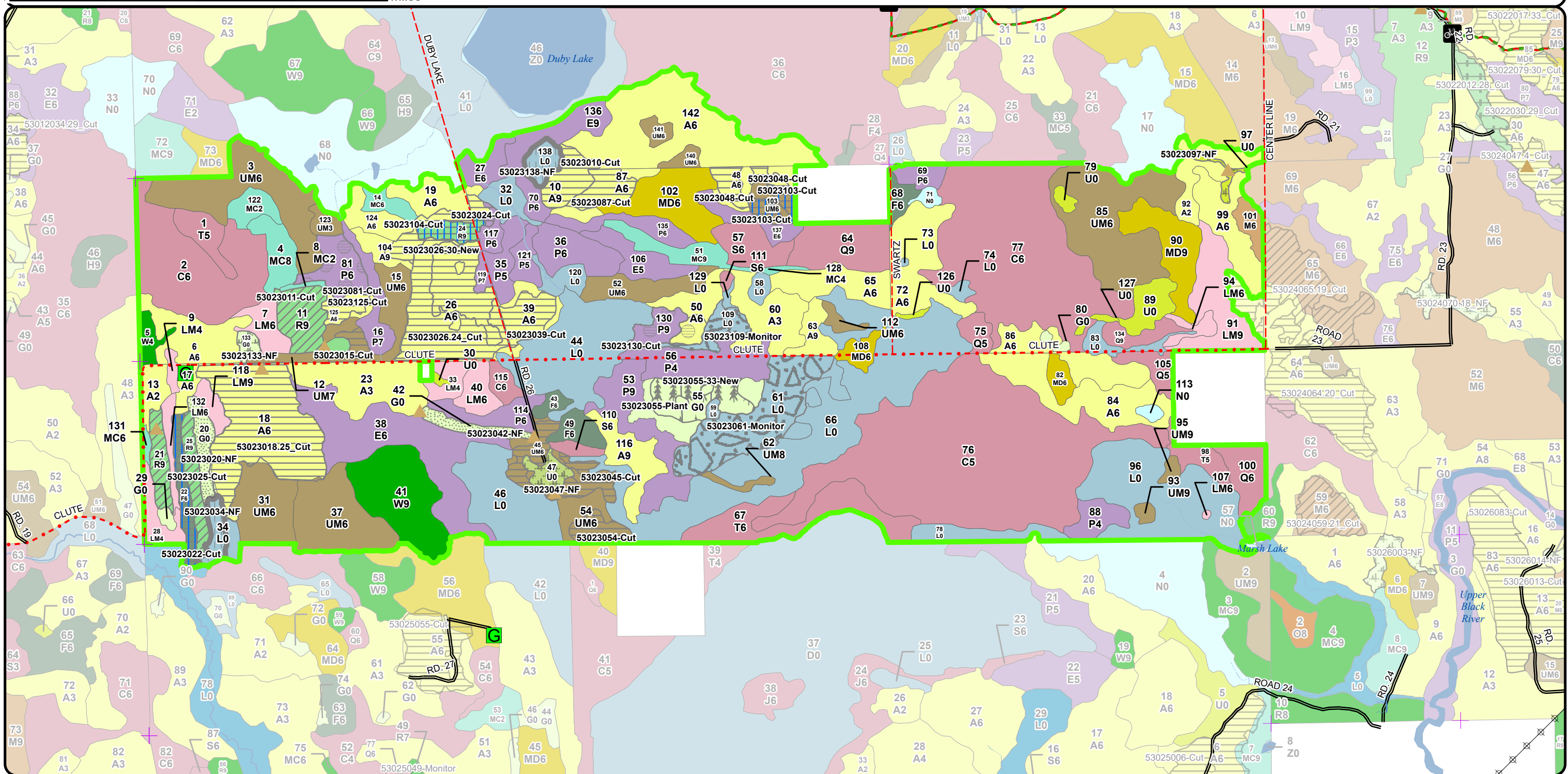
Cover Type & Treatments Map



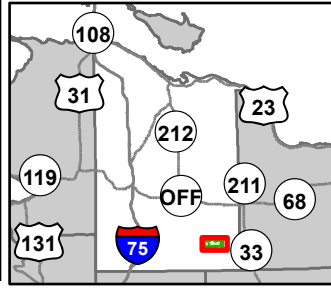
Compartment: 53023
 T33N, R1W, Sec: 7-9
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Presque Isle Lake
 and Till Plains
 YOE: 2026
 Acres: 1893.8 GIS Calculated
 Examiner: Greg Rekowski
 Map Revised: 08/27/2024
 Map Phase: Post Review



- | | | | | |
|--------------------------------|-------------------------------------|-------------------------------------|--------------------------------|-----------------------------------|
| ▲ Berms | --- Designated Bicycle Trails | ▭ Compartment Boundary | ▨ Mowing | ■ 611 - Lowland Deciduous Forest |
| ⓪ Gate | — DNR - Secondary Forest Road | ▭ Other Treatment - See Comments | ■ 411 - Northern Hardwood | ■ 612 - Lowland Coniferous Forest |
| — Culvert | - - - County - Gravel Road | ▭ Planting (Tree Species) | ■ 413 - Aspen Types | ■ 613 - Lowland Mixed Forest |
| Ⓦ Sign | - - - County - Dirt Road (Seasonal) | ▭ Clearcut (w/Reserves) | ■ 419 - Mixed Upland Deciduous | ■ 310 - Herbaceous Openland |
| ⊕ Remonumented Section Corners | — Intermittent Stream | ▭ Patch/Strip Cut (Femelschlag) | ■ 421 - Planted Pines | ■ 320 - Upland Shrub |
| 🚶 Hiking Trails | — Lake/Pond | ▭ Seed Tree (w/Reserves) | ■ 422 - Natural Pines | ■ 330 - Low Density Trees |
| 🚲 Bike Trails | — Perennial River | ▭ Thinning (Crown, Low, Systematic) | ■ 423 - Other Upland Conifers | ■ 622 - Lowland Shrub |
| 🛷 Ski Trails | — Lakes and Rivers | ▭ Regeneration Survey | ■ 429 - Mixed Upland Conifers | ■ 623 - Emergent Wetland |
| | ⚡ Powerline | ▭ Opening Maintenance | ■ 430 - Upland Mixed Forest | |



Stand Boundary Map

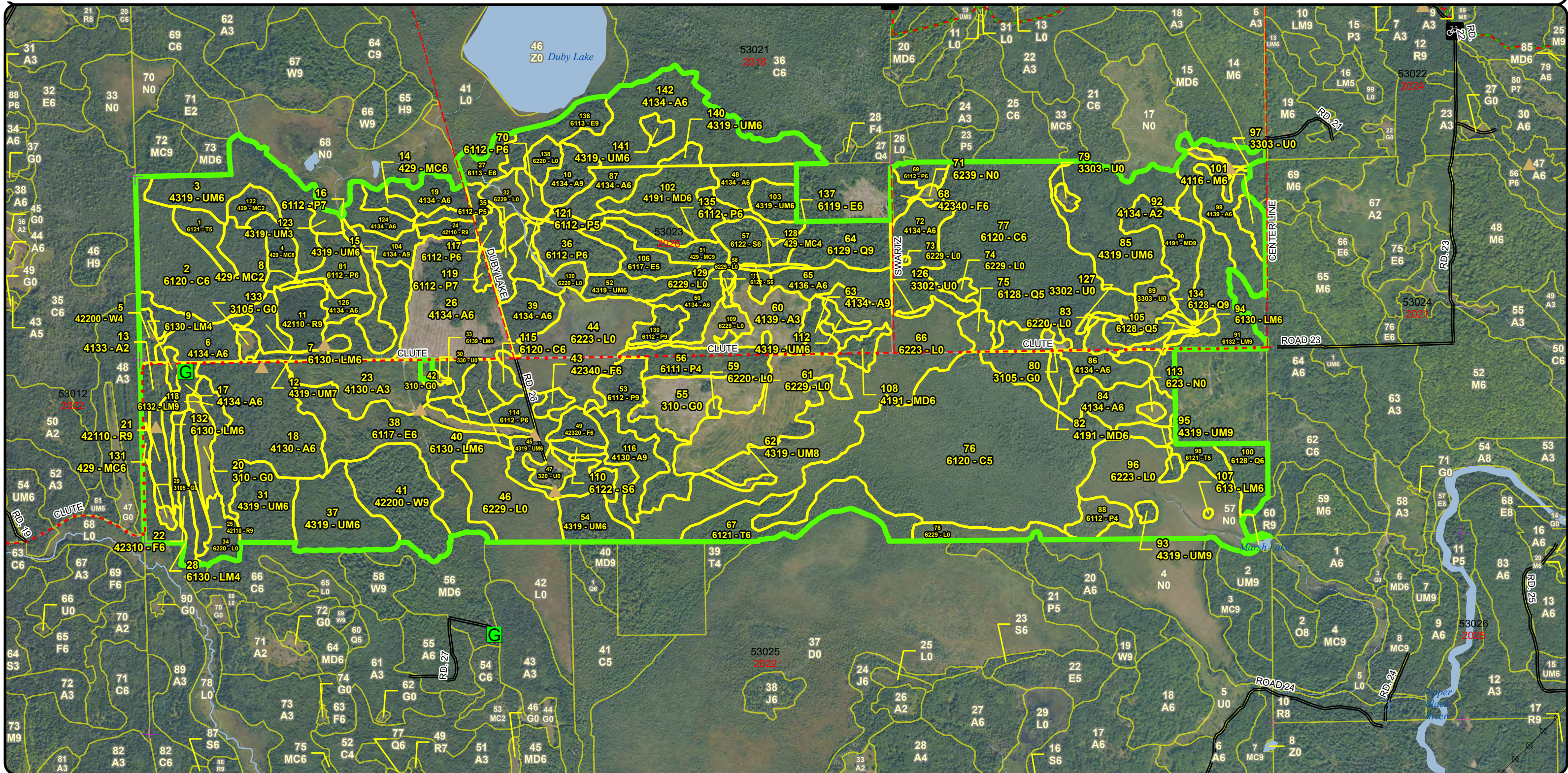


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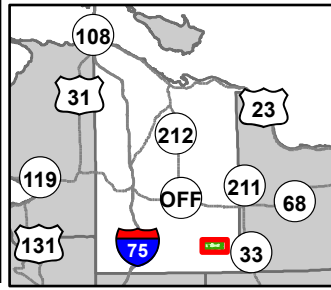


- Berms
- Gate
- Culvert
- Sign
- Remonumented Section Corners
- Hiking Trails
- Bike Trails
- Ski Trails
- Designated Bicycle Trails
- DNR - Secondary Forest Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 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
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Special Conservation Areas & Site Conditions Map

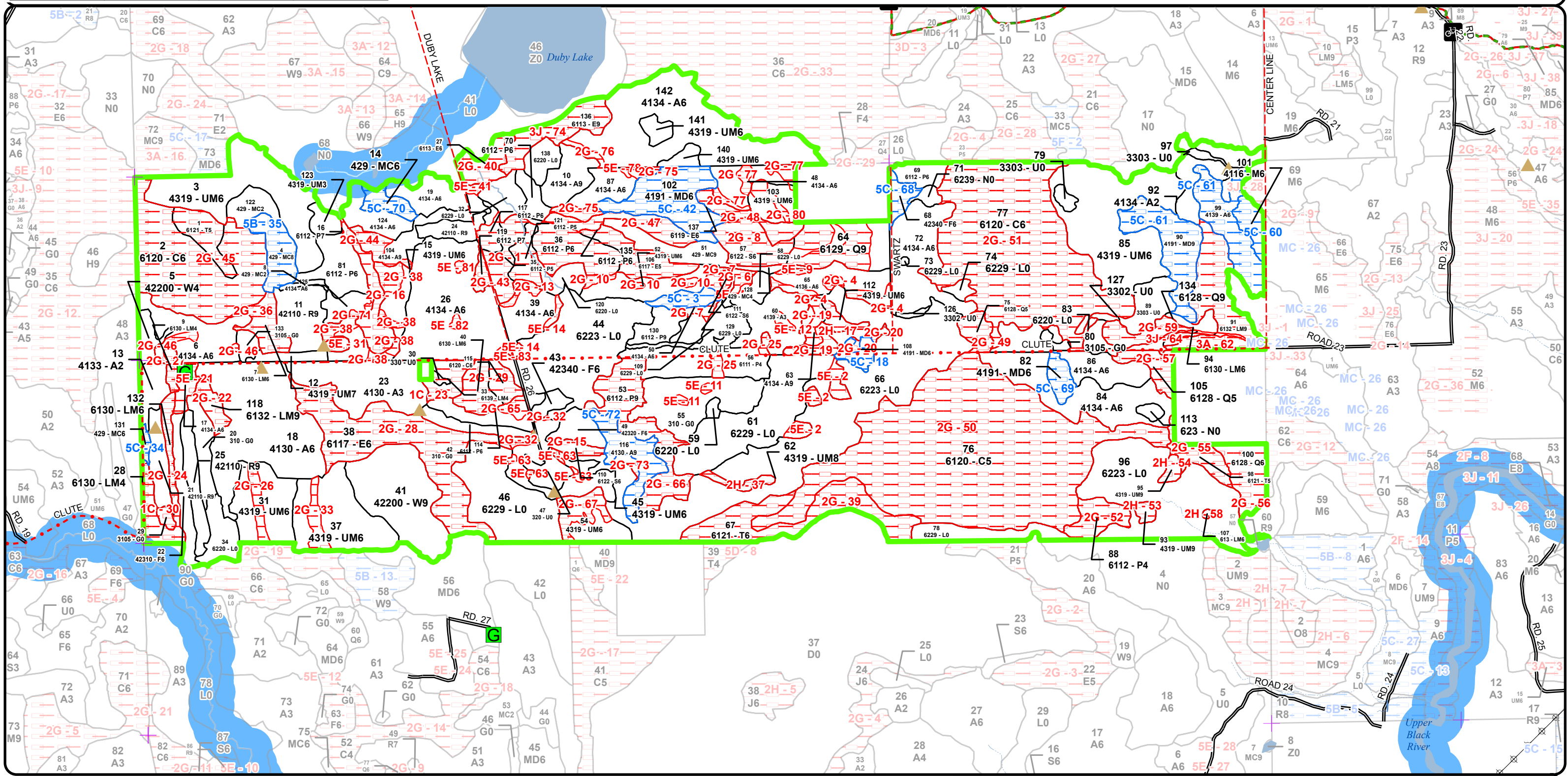


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- County - Dirt Road (Seasonal)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes

- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- 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	17	25	18	76	117	113	64	10	0	0	0	0	0	0	0	0	0	440
Cedar	0	0	0	0	0	0	0	0	0	157	0	147	0	0	0	0	0	0	304
Herbaceous Openland	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Low-Density Trees	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Aspen/Balsam Poplar	0	0	0	0	41	36	22	29	0	0	8	0	0	0	0	0	0	0	136
Lowland Conifers	0	0	0	0	0	0	0	0	0	5	11	0	0	12	0	0	0	20	48
Lowland Deciduous	0	0	0	0	0	0	0	17	20	44	0	0	0	0	0	0	0	0	81
Lowland Mixed Forest	0	0	0	0	6	4	8	14	7	4	0	0	0	22	0	0	0	0	64
Lowland Shrub	311	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	311
Lowland Spruce/Fir	0	0	0	0	0	3	0	0	0	13	0	0	0	0	0	0	0	0	16
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	0	0	0	0	5	0	21	4	18	0	0	0	0	0	0	0	48
Northern Hardwood	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Red Pine	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0	35
Tamarack	0	0	0	0	0	8	0	0	7	0	27	0	0	0	0	0	0	0	42
Upland Conifers	0	0	0	7	5	0	0	1	2	10	0	0	10	0	0	0	0	0	34
Upland Mixed Forest	0	0	0	0	112	34	18	0	35	8	2	3	0	0	0	0	0	0	212
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Spruce/Fir	0	0	0	0	0	9	0	8	0	4	0	0	0	0	0	0	0	0	21
White Pine	0	0	0	0	4	0	0	0	32	0	0	0	0	0	0	0	0	0	36
Total	374	17	25	25	244	211	171	168	134	249	66	150	10	34	0	0	0	20	1896



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 207
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 21

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	138	0	3	0	0	0	0	0	0	141
Lowland Aspen/Balsam Poplar	0	0	18	0	0	0	0	0	0	18
Red Pine	0	0	0	5	0	28	0	0	0	33
Upland Mixed Forest	23	0	0	5	0	0	0	0	0	29
Upland Spruce/Fir	0	0	0	8	0	0	0	0	0	8
Total	161	0	21	18	0	28	0	0	0	228

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	228	0	5	0	0	0	41	0	27	301
Next Step	0	0	0	0	0	0	210	0	0	210
Total	228	0	5	0	0	0	251	0	27	511



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

<p>10 53023010-Cut 9.5 4134 - Aspen, Spruce/Fir Sawtimber Well 79 111-140 Harvest Clearcut 413 - Aspen Even-Aged No</p> <p><u>Prescription</u> Clearcut, no area retention due to the small size. Leave all incidental birch, elm, and basswood. Leave all merchantable ash as there may be a few that are still alive. Mark to leave large diameter aspen that have lots of rots and cavities. Mark poor quality aspen and maple as cut and leave trees for drumming logs and hare habitat.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully-stocked stand of aspen with any additional mix of species being acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Use DNR road funding and personnel to complete road improvements along the closed road that bisects the stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>
<p>11 53023011-Cut 12.7 42110 - Planted Red Pine Sawtimber Well 63 141-170 Harvest Crown Thinning 4211 - Planted Red Pine Even-Aged No</p> <p><u>Prescription</u> Crown thin to 110 square feet. Focus on removing the smaller diameter trees. Exclude the southeast bubble and leave unmanaged for retention purposes. Go around areas of advanced regeneration along the east side. Do not mark any other species other than fir if room is needed for operations. Although rare in the stand, protect all white oak saplings by avoiding marking any trees nearby.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Some areas of the stand, such as the north/northeast ends, may not need to be marked in due to lower BAs.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>
<p>15 53023015-Cut 3.8 4319 - Mixed Upland Forest Poletimber Well 57 111-140 Harvest Clearcut 4134 - Aspen, Spruce/Fir Even-Aged No</p> <p><u>Prescription</u> Clearcut. No area retention due to the small size of the stand. Do not cut any incidental white pine, cedar, paper birch, or red oak (1-2 red oak poletimber along the edges). Mark to leave a few red maple/fir/spruce around birch to prevent shock. Mark to leave any aspen cavity/den trees if present. Mark 1-2 poor quality maple or aspen per acre as cut and leave trees for drumming logs and hare habitat. Leave any cherry over 5" DBH for wildlife purposes.</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</u> Fully-stocked stand dominated by aspen with any additional mix of species being acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /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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20	53023020-NF	6.8	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Mowing	310 - Herbaceous Openland	No
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Prescription Maintain the non-forested condition of this stand either through burning, herbicide, planting, or mechanical means. Leave the option open for the planting of hard or soft mast species.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

21	53023021-Cut	7.1	42110 - Planted Red Pine	Sawtimber Well	63	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Crown thin to 110 square feet. Do not cut any other species except for fir if necessary for operations. Roundwood harvest only.

Next Step
Treatments:

Acceptable
Regen:

Other Do not allow any equipment to operate in the G type at the south end of the stand due to potential archaeological concerns (old homestead).

Site Condition:

Proposed Start Date: 10/1 /2025

22	53023022-Cut	7.8	42310 - Planted Spruce	Poletimber Well	63	141-170	Harvest	Seed Tree with Retention	42390 - Mixed Non-Pine Upland Conifers	Even-Aged	No
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Prescription Mark to leave scattered clumps of the largest diameter, most windfirm spruce, spaced about 100 feet apart. Leave all white pine and red pine. Leave all cherry and ash over 5 inches DBH. Roundwood only harvest.

Next Step Monitoring, Natural Regen (Intermediate)

Acceptable Fully-stocked stand dominated by spruce and fir, with any additional mix of species being acceptable.

Other The southern 1/4 of the stand may need to be excluded due to the presence of several wet pockets.

Comment: If accessing this stand from the west, crane mats will be needed to cross the small drainage in stand 132. The other option would be to come from the road to the north in which case the mats would not be needed.

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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24	53023024-Cut	5.2	42110 - Planted Red Pine	Sawtimber Well	63	81-110	Harvest	Seed Tree	4136 - Aspen, Mixed Conifer	Even-Aged	No
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Prescription Seed tree. Leave 10-20 square feet of the best quality red pine. Leave a few scattered clumps of 3-5 trees as well. Leave all white pine and white spruce. Leave all black cherry greater than 5" DBH. Protect the two white oak saplings in the stand. Mark poor quality red pine and quaking aspen as cut and leave trees for drumming logs.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Moderate to fully-stocked stand with the expectation that aspen and fir will be the primary regeneration. However, any additional mix of species will be acceptable.

Other Comment: Add 2" spec to get all fir regen knocked down.

If present, exclude any wet areas. A small area of wet ground may be present east of the road.

Site Condition:

Proposed Start Date: 10/1 /2025

25	53023025-Cut	8.2	42110 - Planted Red Pine	Sawtimber Well	63	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Crown thin to 110 square feet. Do not mark any other species in the stand except for fir. Several areas will not need to be marked due to lower BAs, especially the middle parts of the stand.

Next Step Treatments:

Acceptable Regen:

Other Comment: If accessing this stand from the west, crane mats will be needed to cross the small drainage in stand 132. The other option would be to come from the road to the north in which case the mats would not be needed.

Site Condition:

Proposed Start Date: 10/1 /2025

34	53023034-NF	5.2	6220 - Alder/willow	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	6220 - Alder/willow		No
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Prescription Cut this stand using the RGS shearing machine. Leave all cherry greater than 5" DBH and hawthorn of any size for mast production purposes. Exclude the eastern side of the stand which has a north-south running drainage and a small knob of upland with conifers (area already excluded from treatment in MiFI). Winter operations only to avoid damaging the site.

Next Step Treatments:

Acceptable Regen:

Other Comment: Stump treat invasive honeysuckle the following growing season after shearing is complete.

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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39 53023039-Cut 8.9 4134 - Aspen, Spruce/Fir Poletimber Well 57 141-170 Harvest Clearcut with Retention 413 - Aspen Even-Aged No

Prescription Specs: Clearcut with retention. Leave the area along the east/northeast edge without much aspen as retention and to reduce beaver activity (already in site conditions layer). Do not cut any rare or underrepresented species in the stand such as red pine, white pine, cedar, and birch. Leave all cherry > 5" DBH for wildlife purposes. Leave all serviceberry. Mark trees to fell for drumming logs.

Next Step Treatments: Monitoring, Natural Regen (Intermediate)

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

Other Comment: Exclude wet areas along the north part of the stand, the approximate area has already been excluded but expect the boundary to shift.

Site Condition:

Proposed Start Date: 10/1 /2025

42 53023042-NF 5.1 310 - Herbaceous Openland Nonstocked Unspec ified NonForestMgt Mowing 310 - Herbaceous Openland No

Prescription Specs: Maintain the non-forested condition of this stand either through burning, herbicide, planting, or mechanical means. Leave the option open for the planting of hard or soft mast species.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

45 53023045-Cut 13.6 4319 - Mixed Upland Forest Poletimber Well 46 111-140 Harvest Clearcut with Retention 4136 - Aspen, Mixed Conifer Even-Aged No

Prescription Specs: Clearcut. Use area retention to exclude small pockets of conifers, both along the lowland edge, and along the edge of the interior U stand (some areas have already been excluded). Exclude any wet areas (approximate areas excluded and in site conditions layer). Leave all incidental white pine, tamarack, and cedar. Leave all cherry over 5" DBH. Mark to leave scattered clumps of better quality spruce as a seed source. Mark scattered poor form aspen, maple, or white pine as cut and leave trees for coarse woody debris, drumming logs, and hare habitat.

Next Step Treatments: Monitoring, Natural Regen (Intermediate)

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

Other Comment: Roundwood only harvest during dry summer or winter conditions due to the moist soils. Add 2" spec to get all small regeneration (mostly fir and red maple) knocked down. Set-up during the spring to see all seasonally wet areas.

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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47	53023047-NF	5.1	320 - Upland Shrub	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3205 - Mixed Upland Shrub	No
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Prescription Maintain the non-forested condition of this stand either through burning, planting, herbicide, planting, or mechanical means. Leave the option open for the planting of hard or soft mast species.

Specs:
Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

48	53023048-Cut	6.2	4134 - Aspen, Spruce/Fir	Poletimber Well	46	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut. Do not cut any of the following incidental species; white pine, basswood, cedar, hemlock, elm, or birch. Mark to leave a few clumps of trees around the birch to prevent shock and windthrow. Mark poor quality maple and aspen as cut and leave trees for drumming logs and hare habitat.

Specs:
Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

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

Other Inoperable wet areas and drainages have been excluded from the treatment boundary but these are just rough approximations so expect the boundary to change. There are likely additional areas in the stand as well.
Comment:

Roundwood only harvest to protect wet soils. Only allow cutting during dry summer or winter conditions. Add 2" spec to get all small fir knocked down.

Use DNR road funding and personnel to complete road improvements along the closed road to the north.

Site Condition:

Proposed Start Date: 10/1 /2025

50	53023050-Cut	3.2	4134 - Aspen, Spruce/Fir	Poletimber Well	55	111-140	Harvest	Strip/Patch/Gap Cut (Femelschlag)	413 - Aspen	Even-Aged	Yes
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Prescription Hand cut all aspen, maple, and fir. Leave any incidental species such as cedar or white pine. This will be a non-commercial treatment and will take several years to complete. Stay out of areas that have standing water.

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

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

Other Prescribe a non-commercial treatment for the north half of the stand during the next inventory cycle.
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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54	53023054-Cut	5.9	4319 - Mixed Upland Forest	Poletimber Well	72	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut. Leave all incidental cedar, white pine, and paper birch. Mark to leave some scattered spruce/maple/fir around cedar and birch to prevent shock and windthrow. Mark to leave large diameter aspen cavity trees. Mark poor form aspen and white pine as cut and leave trees for drumming logs and hare habitat.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Any mix of species resulting in a fully-stocked stand will be acceptable in determining regeneration success.

Other Comment: Exclude all wet areas (approximate areas have already been excluded and are in the site conditions layer). Set-up in the spring to see areas that hold water.

Roundwood harvest during dry summer or winter due to wet soils. Add 2" spec to get all small fir knocked down.

Site Condition:

Proposed Start Date: 10/1 /2025

55	53023055-31-New	4.7	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Planting	ERROR	42120 - Planted Jack Pine	Even-Aged	No
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Prescription Handplant jack pine without trenching the site. Target of 600 trees per acre. Use in house DNR resources (students, tech, foresters) to plant the site. Also plant scattered bur oak, which will require fencing to protect from deer browse. Areas of aspen and BAM regeneration along the east end have been excluded from the treatment boundary.

Next Step Monitoring, Artificial Regen(3yr); Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable Regen: Fully-stocked stand of planted white spruce.

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2027

55	53023055-33-New	4.7	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Planting	ERROR	42120 - Planted Jack Pine	Even-Aged	No
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Prescription Handplant jack pine without trenching the site. Target of 600 trees per acre. Use in house DNR resources (students, tech, foresters) to plant the site. Also plant scattered bur oak, which will require fencing to protect from deer browse.

Next Step Monitoring, Artificial Regen(3yr); Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable Regen: Fully-stocked stand of planted white spruce.

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2026



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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
55 53023055-Plant	4.7	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Planting	ERROR	42120 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Handplant jack pine without trenching the site. Target of 600 trees per acre. Use in house DNR resources (students, tech, foresters) to plant the site. Also plant scattered bur oak, which will require fencing to protect from deer browse. Areas of aspen and BAM regeneration along the east and west ends have been excluded from the treatment boundary.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(3yr); Monitoring, Artificial Regen(1yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully-stocked stand of planted white spruce.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
61 53023061-Monitor	33.5	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Natural regen survey. Survey done in 2024 indicated a poorly stocked stand. Do another survey in 2028 to see if regen has filled in more. If not, consider implementing follow-up interplanting of spruce.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully-stocked stand of aspen with any additional mix of species being acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2027</p>										
81 53023081-Cut	11.4	6112 - Lowland Aspen	Poletimber Well	57	111-140	Harvest	Strip/Patch/Gap Cut (Femelschlag)	6112 - Lowland Aspen	Even-Aged	Yes
<p><u>Prescription</u> Non-commercial aspen clearcut due to inoperable wet soils. Cut all aspen and fir. Leave incidental species in the stand such as spruce, cedar, white pine, and birch. Protect hawthorn and serviceberry shrubs.</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</u> Fully-stocked stand of aspen regeneration.</p> <p><u>Regen:</u></p> <p><u>Other</u> Expect this to be cut in small patches over a period of several years.</p> <p><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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87	53023087-Cut	7.4	4134 - Aspen, Spruce/Fir	Poletimber Well	46	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut. Leave all incidental paper birch, basswood, elm, red pine, cedar, and white pine. Place a small retention pocket around the legacy pine at the NE corner (already excluded). Mark poor quality maple and aspen as cut and leave trees for drumming logs and hare habitat.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

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

Other Comment: Exclude all wet areas, the northeast corner and south ends already have been but expect additional areas to be present in the stand.

Roundwood only harvest to protect wet soils. Only allow cutting during dry summer or winter conditions. Add 2" spec to get all small fir knocked down.

Use DNR road funding and personnel to complete road improvements along the closed road to the north.

Site Condition:

Proposed Start Date: 10/1 /2025

97	53023097-NF	2.4	3303 - Mixed Low Density Trees	Nonstocked	Unspec ified	NonForestMgt	Other - Specify	320 - Upland Shrub		No
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Prescription Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means. Leave the option open for the planting of hard or soft mast species. Treat invasive honeysuckle.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

103	53023103-Cut	5.3	4319 - Mixed Upland Forest	Poletimber Well	84	111-140	Harvest	Seed Tree	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription Seed tree. Leave all white pine, red pine, hemlock, and cedar. Mark to leave clumps of maple, birch, and fir, situated near the pine, hemlock, or cedar if possible. Leave all incidental basswood. Mark poor quality aspen and/or red maple as cut and leave trees for drumming logs and hare habitat.

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

Acceptable Regen: Any mix of species resulting in a fully-stocked stand will be acceptable when evaluating regeneration.

Other Comment: Wet areas have been excluded from the boundary (see site conditions layer) but expect additional areas to be present in the stand.

Roundwood only harvest to protect wet soils. Only allow cutting during dry summer or winter conditions. Add 2" spec to get all small fir knocked down, except protect any advanced white pine regeneration.

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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104	53023104-Cut	8.2	4134 - Aspen, Spruce/Fir	Sawtimber Well	57	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut. Do not cut incidental birch or cedar. Leave all white pine and spruce greater than 10" DBH. Leave all cherry over 5 inches DBH.
Specs: Mark to leave a few poor quality, large diameter aspen that have lots of rot and cavities. Mark poor quality red pine, white pine, and quaking aspen as cut and leave trees for drumming logs and hare habitat.
Next Step Monitoring, Natural Regen (Intermediate)
Treatments:
Acceptable Regen: Fully stocked stand of aspen regeneration with any additional mix of species being acceptable.
Other Comment: Exclude all wet areas along the east and west edges (approximate areas already excluded and are in the site conditions layer). Expect the treatment boundary to shift somewhat from what is shown. The treatment boundary includes a small sliver of the north end of stand 117 that is dry.
 Add 2" spec and roundwood only spec. Only allow harvesting during the dry summer or winter conditions due to wet soils in the area.
Site Condition:
Proposed Start Date: 10/1 /2025

109	53023109-Monitor	7.5	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	6112 - Lowland Aspen	Even-Aged	No
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Prescription Regen survey to see if any additional tree species have filled in the stand. A regen survey was completed in 2024 and indicated a failure (see Specs: stand comments). If the stand falls below acceptable regen standards again then prescribe follow-up interplanting of spruce.
Next Step
Treatments:
Acceptable Regen: Fully-stocked stand of aspen with any additional mix of species being acceptable.
Other Comment:
Site Condition:
Proposed Start Date: 10/1 /2027

125	53023125-Cut	4.6	4134 - Aspen, Spruce/Fir	Poletimber Well	57	171-200	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut. Approximate areas of wet ground along the east edge have already been excluded. If feasible, expand the treatment boundary into operable areas of stand 81. Do not cut any incidental oak, white pine, basswood, birch, or cedar. Mark to leave a few large diameter aspen cavity trees. Also mark to leave a few maple, fir, and/or spruce around birch in order to prevent shock. Mark poor quality, large diameter trees of any species as cut and leave trees for drumming logs and hare habitat.
Specs:
Next Step Monitoring, Natural Regen (Intermediate)
Treatments:
Acceptable Regen: Fully-stocked stand of aspen with any additional mix of species being acceptable.
Other Comment: Roundwood only harvest during dry summer or winter conditions due to the clay soils in this area.
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
130 53023130-Cut	6.2	6112 - Lowland Aspen	Sawtimber Well	65	111-140	Harvest	Strip/Patch/Gap Cut (Femelschlag)	6112 - Lowland Aspen	Even-Aged	Yes
<p><u>Prescription</u> Hand cut all aspen, maple, and fir. Leave any incidental species such as cedar and spruce. This will be a non-commercial treatment and will take several years to complete. Stay out of areas that have standing water.</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> Fully-stocked stand of lowland aspen with any additional mix of species being acceptable.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
133 53023133-NF	2.5	3105 - Mixed Upland Herbaceous	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain the non-forested condition of this stand either through burning, herbicide, or mechanical means. Leave the option open for the planting of hard or soft mast species.</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>										
138 53023138-NF	5.2	6220 - Alder/willow	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	6229 - Mixed lowland shrub		No
<p><u>Prescription</u> Shear all alder. Leave all conifers and any cherry greater than 5 inches DBH. Leave hawthorn and serviceberry if possible (only present in small amounts).</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:

18 53023018.25_Cut	50.0	4130 - Aspen	Poletimber Well	63	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with reserves with 2-3 retention islands within the stand. Also, mark larger diameter trees throughout the stand to fall for grouse drumming logs. Brush piles for Hare habitat will be created during or upon completion of logging operations. VMS spec 5.2.4.1.</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> Aspen should respond well, but any combination of species will be acceptable in determining regeneration success.</p> <p><u>Other Comment:</u> Old next step comments: Follow regeneration survey guidelines/timelines for monitoring regeneration success.</p> <p><u>Site Condition:</u></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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Proposed Start Date: 10/1 /2015

26	53023026.24_ Cut	25.3	4134 - Aspen, Spruce/Fir	Poletimber Well	57	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription Clearcut w/ reserves with 2-3 retention islands within the stand. Also, mark larger diameter trees throughout the stand to fall and leave for grouse drumming logs. Use VMS spec. 5.2.4.1 for Hare habitat conditions (brush piles) during logging operations or upon completion.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen should respond well, but any combination of species will be acceptable in determining regeneration success.

Other Comment: Portions of this stand can be rather wet much of the year, so it may necessitate a winter cut only spec. Old next step comments: Follow regeneration survey guidelines/timelines for monitoring regeneration success.

Site Condition:

Proposed Start Date: 10/1 /2015

26	53023026-30- New	17.7	4134 - Aspen, Spruce/Fir	Poletimber Well	57	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription Clearcut w/ reserves with 2-3 retention islands within the stand. Also, mark larger diameter trees throughout the stand to fall and leave for grouse drumming logs. Use VMS spec. 5.2.4.1 for Hare habitat conditions (brush piles) during logging operations or upon completion.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen should respond well, but any combination of species will be acceptable in determining regeneration success.

Other Comment: Portions of this stand can be rather wet much of the year, so it may necessitate a winter cut only spec. Old next step comments: Follow regeneration survey guidelines/timelines for monitoring regeneration success.

Site Condition:

Proposed Start Date: 10/1 /2015

Total Treatment 315.6
Acreage Proposed:



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions									
		With Condition	Not Available		5B	5C	1C	2G	2H	3A	3J	5E		
439	361	34	44	Aspen		34		31	3					11
304	0	0	304	Cedar				304						
40	38	0	2	Herbaceous Openland			1							1
15	15	0	1	Low-Density Trees			1							
136	52	0	84	Lowland Aspen/Balsam Poplar				84						
47	7	0	41	Lowland Conifers				41						
81	0	0	81	Lowland Deciduous				68				13		
63	3	0	60	Lowland Mixed Forest			6	32	0	22	1			
311	305	0	5	Lowland Shrub					0		0		5	
15	0	0	15	Lowland Spruce/Fir				15						
3	3	0	0	Marsh										
49	0	48	1	Mixed Upland Deciduous		48		1						
5	0	5	0	Northern Hardwood		5								
35	33	0	1	Red Pine										1
41	0	0	41	Tamarack				41						
34	18	15	0	Upland Conifers	10	6								
212	177	0	36	Upland Mixed Forest				26	8					1
5	5	0	0	Upland Shrub										
21	17	4	0	Upland Spruce/Fir		4								
36	36	0	0	White Pine										
1,894	1,070	106	718	Total Forested Acres	10	96	8	644	12	22	14		19	
	56%	6%	38%	Relative Percent										

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



2	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Approximate areas that are too wet for harvesting activities. There are likely additional areas in stand 65 that should be excluded from any harvest.							
5	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Southern site condition is a wet drainage.							



8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Desired retention around an area of primarily young spruce, fir, and birch.							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
 Greg Rekowski: Examiner

Compartment: 23
 Year of Entry: 2026



15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for the harvest in stand 18.							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	1C: Other dept or div proc/practices	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Potential archaeological concerns with an old schoolhouse that was present in stand 30 and potentially into stand 33.							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Approximate location of the wet drainage in stand 31.							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	1C: Other dept or div proc/practices	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Old homestead site, do not manage this stand.							
31	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small area of stand 11 that has never been managed and should remain that way.							



32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Approximate location of the wet drainage in stand 37.							
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Approximate areas of wet ground within stand 15. The most southern site condition has a small intermittent stream which goes from Clute Road to stand 16.							
39	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
43	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
 Greg Rekowski: Examiner

Compartment: 23
 Year of Entry: 2026



44	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	57	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet areas in stand 6 that should be excluded from any future harvest.							
47	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
48	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Greg Rekowski: Examiner

Compartment: 23

Year of Entry: 2026



49	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Stand is 'Too wet' to support conventional harvest equipment. Stand also lower stocked with poorer quality stems and has high/full sub-canopy of lowland shrub types.</p>							
50	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	153	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Stand is 'Too wet' to support conventional harvest equipment.</p>							
51	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	98	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Vast majority of stand is 'Too wet' to support conventional harvest equipment. Some boundary locations could be opportunistically harvested when/if surrounding upland stands are harvested during subsequent year of entries.</p>							
52	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<p>Comments: Stand is 'Too wet' to support conventional harvest equipment. Also, no access because of surrounding lowland complex(es).</p>							
53	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Small acreage and no access because of surrounding lowland complex(es).</p>							



54	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small acreage and limited/no access because of surrounding lowland(s).							
55	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is 'Too wet' to support conventional harvest equipment.							
56	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is 'Too wet' to support conventional harvest equipment.							
57	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is 'Too wet' to support conventional harvest equipment. Stand also lower stocked with poorer quality stems.							
58	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small acreage and no access because of surrounding lowland complex(es).							



59	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<p>Comments: A good portion of this stand is 'Too wet' to support conventional harvest equipment. Stand also serving as a filter/hydraulic pump because of its location against surrounding lowland stands. Quite likely a good portion of this stand would convert to lowland shrub if harvested.</p>							
60	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Allow maple stems to mature/put on more diameter growth. Consider a crown-thin after 1 or 2 more rotations of growth</p>							
61	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Delay 5C site condition applied to Stands 90 & 99. Consider treating these two stands during '36 YOE after surrounding harvests are completed and have begun to regenerate. Treating together is preferred, to improve access options into/out of Stand 90.</p>							
62	Unavailable	3A: Conservation Values incompatible with harvest at this time	22	2G: Too wet (sensitive soils, does not include access issues)	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified
<p>Comments: Though areas of this stand appear 'operable', sensitive/seasonally wet soils are common throughout. Also, it's unlikely that a harvest will successfully regenerate northern white cedar, the dominant species within this stand.</p>							
63	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Recommended retention areas for stand 45.</p>							
64	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Seasonally drainage that is interconnected with adjacent/surrounding drainage features.</p>							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit
 Greg Rekowski: Examiner

Compartment: 23
 Year of Entry: 2026



65	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
66	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
67	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
68	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
69	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



70	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
71	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
72	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
73	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
74	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: This stand borders a lake and is wet, do not manage.							



75	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Approximate areas of ground that are wet and should be excluded from the harvest in stand 87.							
76	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Approximate location of wet drainage.							
77	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Approximate area of drainages and wet ground to be excluded from the harvest in stand 48.							
78	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention around legacy size pine.							
80	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long wet drainage that ends in a pocket of cedar and hemlock at the northwest side of this site condition.							
81	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



82	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
83	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
1	6121 - Tamarack	Poletimber Medium	8.1	49	51-80	N/A	Tamarack dominated stand with a thick understory of lowland shrubs. Only a moderately stocked stand, although there are some areas with a lot of smaller diameter tamarack stems. A few of the willow are greater than 5" DBH, not sure which willow species it is. Very wet ground throughout most of the stand. Average ba/acre from 4 plots = 60 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		7	Pole	5		American Elm		Trace	Variable	Sapling	
Northern White Cedar		5	Pole/Log	8		Paper Birch		Low	>20 feet	Sapling	
Balsam Poplar		10	Pole	6		Balsam Fir		Low	Variable	Sapling	
Black Spruce		20	Pole	7		Willow spp.		Medium	>20 feet	Tall Shrub	
Tamarack		57	Pole/Sap/Log	7	49	Black Spruce		Trace	>20 feet	Sapling	
Willow spp.		1	Pole	5		Tamarack		Medium	>20 feet	Sapling	
						Michigan Holly		Low	5 - 10 feet	Tall Shrub	
						Tag Alder		Full	Variable	Tall Shrub	
						Nannyberry		Trace	5 - 10 feet	Tall Shrub	
						Red Maple		Trace	Variable	Sapling	
2	6120 - Lowland Cedar	Poletimber Well	48.7	107	111-140	N/A		Generally a poor quality cedar stand with many trees appearing stressed and in decline. The best quality and healthiest cedar can be found in the eastern 1/3rd of the stand. Some areas have a heavier mix of tamarack and black spruce, especially in the middle parts of the stand. Deciduous species can be found mostly along the south and east edges. Average ba/acre from 11 plots = 128 square feet. Too wet for management.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Black Spruce		20	Pole/Log	8		American Elm			Trace	Variable	Sapling
Northern White Cedar		54	Pole/Log	8	107	Tamarack			Trace	>20 feet	Sapling
Paper Birch		1	Pole	6		Black Spruce			Low	Variable	Sapling
Balsam Fir		9	Pole	7		Red Maple			Trace	Variable	Sapling
Balsam Poplar		2	Pole/Log	8		Paper Birch			Trace	>20 feet	Sapling
Tamarack		8	Pole/Log	8		Tag Alder			High	Variable	Tall Shrub
Red Maple		2	Pole/Log	8		Willow spp.			Trace	>20 feet	Tall Shrub
Quaking Aspen		3	Log/Pole	10		Balsam Fir			High	Variable	Sapling
White Pine		1	Log/XLog	17		Michigan Holly			Low	5 - 10 feet	Tall Shrub
						Black Ash			Low	Variable	Sapling
3	4319 - Mixed Upland Forest	Poletimber Well	34.9	35	111-140	N/A	Fully-stocked stand of primarily aspen and fir. Clearcut in 1989 in the sale Clute Cut Aspen (#53-014-86, Kapalla Logging). There are many areas where fir is dominant including a large swath of nearly pure fir along the northeast side of the stand where beavers removed the aspen years ago. This area could probably be its own separate stand if desired. Aspen diameters tend to vary dramatically with many areas that are barely merchantable. Primarily upland soils but there are numerous pockets of wet ground and small drainages, difficult to parse out on imagery. Trace of tamarack (pole/sap), black spruce (pole/sap), black cherry (pole), white ash (pole), and red pine (pole/sap) in the canopy. Average ba/acre from 12 plots = 123 square feet. This stand will need 2 more entries of growth before being ready for a harvest.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Maple		2	Pole/Sapling	5		Ironwood		Trace	Variable	Sapling	
Balsam Fir		36	Pole/Sap/Log	5		White Pine		Trace	Variable	Sapling	
Balsam Poplar		8	Pole/Sapling	5		White Ash		Trace	Variable	Sapling	
White Pine		3	Pole/Sap/Log	7		Black Cherry		Low	Variable	Tall Shrub	
White Spruce		6	Pole/Sap/Log	6		White Spruce		Low	Variable	Sapling	
Quaking Aspen		45	Pole/Sapling	5	35	Paper Birch		Trace	>20 feet	Sapling	
						Balsam Fir		High	Variable	Sapling	
						Serviceberry (Juneberry)		Trace	Variable	Tall Shrub	
						Red Maple		Trace	Variable	Sapling	
						Tag Alder		Low	>20 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
4	429 - Mixed Upland Conifers	Sawtimber Medium	9.6	111	81-110	N/A	This stand was cut in 1998, at the same time as stand 122 to the north, in the sale Loon-E-Tune Aspen (#53-016-96, Georgia Pacific). Everything was cut except for white pine, cedar, and hemlock. The residual conifers tend to occur in dense clumps throughout the stand, intermixed with areas of regeneration and lower residual BAs. Most of the hemlock and white pine are high quality with some very large trees present, including several white pine greater than 30" DBH. A few patches of fir and white pine poletimber are present. Cedar is more prevalent at the south end of the stand. Areas of regeneration have a good mix of conifer species and are generally quite dense in stocking. Average ba/acre from 6 plots = 101 square feet.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	32	XLog/Log/Pole	18		Balsam Fir	High		Variable	Sapling
Quaking Aspen	2	Pole	7		White Pine	High		Variable	Sapling
Hemlock	33	Log/Pole/XLog	14	111	White Spruce	Low		Variable	Sapling
White Spruce	2	Pole	6		Balsam Poplar	Trace		Variable	Sapling
Balsam Poplar	4	Pole	7		Red Pine	Low		Variable	Sapling
Red Pine	3	Log/XLog	16						
Northern White Cedar	14	Pole/Log	9						
Balsam Fir	10	Pole/Log	8						
5	42200 - Natural White Pine	Poletimber Poor	4.2	35	1-50	N/A	Previous non-forested area that has filled in somewhat with white pine and other conifers. The white pine is open grown and very poor quality, with most having deformed stems as a result of past weevil damage. Average ba/acre from 6 plots = 23 square feet. Mostly an upland stand although there are some areas of wetter ground at the southeast side of the stand. Found one 5" red oak at the north end of the stand where the road dead ends.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Spruce	4	Pole/Log	8		White Pine	Low		Variable	Sapling
White Spruce	7	Pole/Log	8		Balsam Poplar	Low		Variable	Sapling
White Pine	70	Pole/Sap/Log	7	35	Quaking Aspen	Trace		5 - 10 feet	Sapling
Balsam Fir	13	Pole/Log	8		Balsam Fir	Trace		Variable	Sapling
Balsam Poplar	3	Pole	6		White Spruce	Trace		Variable	Sapling
Black Cherry	1	Pole/Log	8		Red Maple	Trace		>20 feet	Sapling
Red Maple	2	Log	12		Black Cherry	Trace		Variable	Tall Shrub
					Tag Alder	Trace		>20 feet	Tall Shrub
6	4134 - Aspen, Spruce/Fir	Poletimber Well	18.0	35	111-140	N/A	Fully-stocked stand of primarily aspen and fir. There are a few areas scattered throughout where fir is dominant and the northwest part of the stand has some nice pockets of mixed conifers. Clearcut in 1989 in the sale Clute Cut Aspen (#53-014-86, Kapalla Logging). Diameters vary quite a bit and there are several areas where the aspen is still submerchantable. Average ba/acre from 8 plots = 121 square feet. Mostly an upland stand except for wet areas along the north edge and a wet area in the middle of the stand that extends west/southwest down to adjacent stand 9. This stand probably needs another 2 entries of growth before being ready for a harvest.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Spruce	1	Pole	6		White Spruce	Low		Variable	Sapling
Balsam Fir	29	Pole/Sapling	5		White Pine	Trace		Variable	Sapling
Quaking Aspen	53	Pole/Sapling	5	35	White Ash	Low		>20 feet	Sapling
Balsam Poplar	8	Pole/Sapling	6		American Elm	Trace		Variable	Sapling
White Pine	1	Pole/Log	8		Red Maple	Medium		Variable	Sapling
White Spruce	5	Pole/Sapling	5		Nannyberry	Low		5 - 10 feet	Tall Shrub
Red Maple	2	Pole/Sapling	5		Tag Alder	Low		10 - 20 feet	Tall Shrub
Northern White Cedar	1	Log	12		Black Cherry	Trace		Variable	Tall Shrub
					Balsam Fir	High	Variable	Sapling	
					Serviceberry (Juneberry)	Low	Variable	Tall Shrub	
					Black Ash	Low	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
7	6130 - Fir, Aspen, Maple	Poletimber Well	7.6	54	111-140	N/A	Mixed species stand of mediocre quality. Some dry, upland ground along the south and east edges but the remainder is lowland. The low ground tends to be very "hummocky". Trace of XL-sized red maple, white pine (xlog), jack pine (log), and red pine (log/xlog) in the canopy. Average ba/acre from 6 plots = 123 square feet. Only a small portion of this stand is available for management due to the wet ground.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		2	Log/Pole	12		Red Maple		High	Variable	Sapling
White Spruce		3	Log/XLog	14		Michigan Holly		Low	5 - 10 feet	Tall Shrub
Balsam Fir		24	Pole/Log	8		Beech		Trace	Variable	Sapling
Red Maple		20	Pole/Log	8		White Pine		Trace	Variable	Sapling
Black Spruce		13	Pole/Log	8	72	Balsam Fir		Low	Variable	Sapling
Quaking Aspen		34	Pole/Log	8	54	Tag Alder		Low	10 - 20 feet	Tall Shrub
Paper Birch		2	Log/Pole	12						
Black Cherry		2	Pole	7						
8	429 - Mixed Upland Conifers	Sapling Medium	1.1	26	Immature	N/A	Old open area that has since filled in with trees. From imagery it looks like this stand was cleared in 1997-98 when stand 11 to the south was first thinned. The east end of the stand is still mostly non-forested and has some ground that appears seasonally wet. Trace of white pine sawtimber trees.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		4	Sapling/Pole	3		Tag Alder		Low	>20 feet	Tall Shrub
Red Pine		10	Sapling/Pole	3		Quaking Aspen		Low	< 5 feet	Seeding
Balsam Fir		12	Sapling	3		Black Cherry		Trace	Variable	Tall Shrub
Balsam Poplar		30	Sapling/Pole	3						
White Spruce		3	Sapling/Pole	3						
White Ash		1	Sapling	3						
White Pine		40	Sapling/Pole	3	26					
9	6130 - Fir, Aspen, Maple	Poletimber Poor	2.0	67	51-80	N/A	Wet, poor quality stand. Black ash used to be the dominant tree species in the stand but it is now all dead from EAB. The portion of the stand north of Clute Road is basically a non-forested L type. South of the road is poorly stocked as well except for a thin upland ridgeline along the west side that has most of the trees. Average ba/acre from 4 plots = 53 square feet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
American Elm		4	Pole/Log	8		Black Ash		Trace	5 - 10 feet	Sapling
Balsam Fir		41	Pole	7	67	Tag Alder		High	>20 feet	Tall Shrub
White Spruce		2	Pole/Log	8		Balsam Fir		Medium	Variable	Sapling
Quaking Aspen		32	Log/Pole	12		Paper Birch		Trace	>20 feet	Sapling
Red Maple		5	Log	13		Willow spp.		Low	Variable	Tall Shrub
Balsam Poplar		16	Pole/Log	9						
10	4134 - Aspen, Spruce/Fir	Sawtimber Well	9.5	79	111-140	N/A	Stand of large diameter, old aspen. A younger age class of fir and aspen is present throughout as it looks like this stand was partially harvested long ago while under private ownership. The younger aspen component is more common in the south half. Many of the older aspen have lots of rot and cavities. Trace of basswood (log), elm (pole), and white ash (pole) in the canopy. A couple of large diameter ash used to be present but are dead due to EAB. Average ba/acre from 5 plots = 134 square feet. The ground in this stand is mostly upland although there are some areas of slightly wet ground in the interior and along the east edge.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		1	Log/Pole	12		Red Maple		Trace	>20 feet	Sapling
Balsam Poplar		2	Pole/Log	9		White Ash		Trace	>20 feet	Sapling
Balsam Fir		31	Pole/Log	8	61	Tag Alder		Trace	Variable	Tall Shrub
Quaking Aspen		52	Log/Pole/XLog	13	79	Black Cherry		Trace	Variable	Tall Shrub
Red Maple		12	Log/Pole	12		Balsam Fir		Medium	Variable	Sapling
White Spruce		2	Log/Pole	11						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
11	42110 - Planted Red Pine	Sawtimber Well	14.1	63	141-170	N/A	Nice red pine plantation that was third row thinned in 1997 and thinned again in 2007. Some areas of lower stocking along the east side with advanced red maple regeneration and a few clumps of spruce/fir. BAs also tend to be lower along the northern tier of the stand. The remaining interior part of the stand has higher BAs and is ready for a thinning. The small "bubble" of the stand east of the closed road at the southeast corner of the stand has not been thinned before and has a component of aspen, spruce, and fir mixed in. Average ba/acre from 8 plots = 148 square feet. Trace of white pine (pole/log), white ash (pole), and black cherry (pole) in the overstory.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
Balsam Fir		2	Pole/Log	8		White Pine		Low	Variable	Sapling		
Red Maple		3	Pole	5		White Spruce		Trace	Variable	Sapling		
Quaking Aspen		3	Log/Pole	12		White Oak		Trace	10 - 20 feet	Sapling		
Red Pine		90	Log/Pole/XLog	13	63	White Ash		Trace	Variable	Sapling		
White Spruce		2	Pole/Log	8		Ironwood		Trace	Variable	Sapling		
						Red Maple		High	Variable	Sapling		
						Balsam Fir		Medium	Variable	Sapling		
						Tag Alder		Low	>20 feet	Tall Shrub		
						Beech		Low	Variable	Sapling		
						Black Cherry		Low	Variable	Tall Shrub		
12	4319 - Mixed Upland Forest	Sawtimber Poor	3.4	72	51-80	N/A		Mixed species stand occupying a thin strip adjacent to Clute Road. In a way this is two separate stands; the north half was once non-forested, appearing to have been cleared in the late 1990's when stand 11 to the north was harvested. The south half is mature timber. The north half has partially filled in with trees over the years. Mostly an upland stand although there are a few small wet holes next to Clute Road. Trace of tamarack (pole) and jack pine (pole/log) in the canopy. Average ba/acre from 7 plots = 66 square feet. The east end of the stand has been used as a landing for timber sales and is a popular camping spot during deer hunting season. There also appears to be the remnants of an old foundation at the east end adjacent to Clute Road. Management is not practical due to the small size of the stand, leave alone.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
Quaking Aspen		44	Log/Pole	13	72	Balsam Poplar			Medium	>20 feet	Sapling	
Black Cherry		1	Pole	6		Tag Alder			Trace	Variable	Tall Shrub	
Red Pine		8	Log/XLog/Pole	13		White Pine			Medium	Variable	Sapling	
Red Maple		8	Log/Pole	12		Serviceberry (Juneberry)			Trace	Variable	Tall Shrub	
Balsam Fir		16	Pole/Log	8		Balsam Fir			Medium	Variable	Sapling	
White Spruce		2	Pole/Log	8		Nannyberry			Trace	5 - 10 feet	Tall Shrub	
White Pine		15	Log/Pole/XLog	13		Beech			Trace	Variable	Sapling	
Paper Birch		6	Pole/Log	9		Quaking Aspen			Low	>20 feet	Sapling	
						Red Maple			Trace	Variable	Sapling	
						Red Pine			Trace	Variable	Sapling	
						Black Cherry			Trace	Variable	Tall Shrub	
13	4133 - Aspen, Mixed Pine	Sapling Medium	6.0	26	Immature	N/A	Somewhat variable stand that was clearcut in 1998 in the sale Loon-E-Tune Aspen (#53-016-96, Georgia Pacific), everything was cut except for white pine and cedar. A lot of the mature white pine can be found in a strip adjacent to Clute Road, there are also some pockets of mixed conifer poletimber in this area as well. Bigtooth aspen is mostly in a clone at the south end of the stand. The middle part of the stand has sparse regeneration and old inventory notes state that browse was severe and the reason for the poor regeneration. The eastern 1/3rd of the stand slopes down and transitions to lowland, and is where all of the quaking aspen is located.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
White Spruce		3	Sapling/Pole	3		Black Cherry		Low	Variable	Tall Shrub		
Balsam Poplar		7	Sapling	3		Tag Alder		Low	10 - 20 feet	Tall Shrub		
White Pine		24	Pole/Sap/Log	6		White Pine		Trace	Variable	Sapling		
Paper Birch		2	Sapling/Pole	3		Nannyberry		Trace	5 - 10 feet	Tall Shrub		
Red Pine		1	Pole/Sapling	5		White Spruce		Low	Variable	Sapling		
Balsam Fir		8	Sapling/Pole	3		Balsam Fir		Medium	Variable	Sapling		
Bigtooth Aspen		17	Sapling/Pole	4								
Quaking Aspen		38	Sapling	3	26							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
14	429 - Mixed Upland Conifers	Poletimber Well	4.5	35	111-140	N/A	Mixed stand of conifers. More white pine in the interior while fir/spruce are more common along the edges. A variety of white pine size classes are present, most are heavily deformed however from past weevil damage. It looks like this stand was cut at the same time as adjacent stands 19 and 124 in 1989 (Clute Cut Aspen, #53-014-86) and I'm guessing all white pine were left as residual. Average ba/acre from 6 plots = 123 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Cherry		2	Pole	7		Balsam Poplar		Low	Variable	Sapling	
Balsam Poplar		7	Pole/Sap/Log	7		Serviceberry (Juneberry)		Trace	Variable	Tall Shrub	
Quaking Aspen		9	Pole	8		White Pine		Medium	Variable	Sapling	
Balsam Fir		34	Pole/Log	8		Black Cherry		Trace	Variable	Tall Shrub	
White Spruce		11	Pole/Log	8		Balsam Fir		Medium	Variable	Sapling	
White Pine		37	Pole/Log/XLog	8	35						
15	4319 - Mixed Upland Forest	Poletimber Well	15.6	57	111-140	N/A		Mixed species stand of primarily aspen, fir and red maple. Diameters tend to vary somewhat as there are larger diameter trees in the south half, particularly near Clute Road which has some areas of A9. The aspen and fir tend to be a little smaller in the north half, although sawtimber-sized red maple are common throughout the entire stand. Varying degrees of wetness in the stand. Most of the southern half is dry upland except for a wet drainage at the far west end, just south of stand 125. The north half has a few low, wet areas that drain into adjacent stand #16 and almost all of the far northern end of the stand becomes wet (see site conditions layer for locations of wet ground). Pit and mound topography can also be found in many of the wet areas. Snags and coarse woody debris are abundant in several areas of the stand. Trace of cedar (log/pole), red pine (log/xlog), and balsam poplar (pole/log) in the overstory. Average ba/acre from 11 plots = 141 square feet. Areas along the east side of the stand that are upland should have been included with the current timber sale that is on contract in stand 26 and was recently cut. The few areas that are available for management in the east half are now effectively cut off from accessibility due to the recent harvest. The southwest portion of the stand may be available for management but needs to be evaluated in snow-free conditions.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
White Pine		4	Log/Pole/XLog	13		White Pine			Trace	Variable	Sapling
Balsam Fir		32	Pole/Log	8		Tag Alder			Low	10 - 20 feet	Tall Shrub
White Spruce		3	Log/Pole	10		Serviceberry (Juneberry)			Trace	>20 feet	Tall Shrub
Quaking Aspen		40	Pole/Log	9	57	Black Cherry			Trace	>20 feet	Tall Shrub
Black Spruce		2	Pole/Log	8		Michigan Holly			Trace	5 - 10 feet	Tall Shrub
Red Maple		17	Log/Pole	10		Red Maple			Trace	Variable	Sapling
Paper Birch		2	Pole/Log	8		Balsam Fir			Medium	Variable	Sapling
16	6112 - Lowland Aspen	Sawtimber Poor	8.8	57	51-80	N/A	Long, wet drainage that eventually forms a small stream at the north end. Poorly stocked in most areas of the stand as black ash used to be the dominant tree species but it is now all dead from EAB. The south half of the stand has slightly better stocking in some areas and also is where most of the alder understory is located. The overstory in the north half is mostly along the perimeter and the understory is sparse except for sedges and reed canary grass. Average ba/acre from 8 plots = 59 square feet. Too wet for management.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Poplar		20	Log/Pole	12	57	White Spruce		Trace	Variable	Sapling	
Balsam Fir		14	Pole	6		Tag Alder		Medium	10 - 20 feet	Tall Shrub	
Northern White Cedar		5	Log/Pole	12		Balsam Fir		Low	Variable	Sapling	
Quaking Aspen		50	Log/Pole	12	57	Black Ash		Trace	10 - 20 feet	Sapling	
Paper Birch		3	Pole	8		Nannyberry		Trace	Variable	Tall Shrub	
Basswood		1	Log/Pole	12		Red Maple		Trace	>20 feet	Sapling	
Red Maple		7	Log/Pole	12							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
17	4134 - Aspen, Spruce/Fir	Poletimber Well	3.8	57	141-170	N/A	Small stand of aspen that was originally a part of stand 18 to the east but was excluded from that harvest and left as retention. There are a lot of small diameter trees in this stand, particularly east of the closed road. Diameter growth is a little better west of the road but still quite small for its age. There are a couple of massive white pine (30"+ DBH) on the southeast edge of the stand. Trace of cedar (log), elm (pole), live white ash (pole/log), white pine (log/xlog), and black cherry (pole) in the overstory. Average ba/acre from 5 plots = 162 square feet. No management, retention for the stand 18 clearcut.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		55	Pole	8	57	Balsam Fir		Medium	>20 feet	Sapling	
Paper Birch		3	Pole/Log	8		Black Cherry		Trace	>20 feet	Tall Shrub	
White Spruce		3	Pole/Log	8		Tag Alder		Trace	Variable	Tall Shrub	
Red Maple		4	Pole/Log	8							
Balsam Fir		35	Pole/Sapling	6							
18	4130 - Aspen	Poletimber Well	50.0	63	81-110	N/A	This stand is currently under contract in the sale Meridian East Aspen (#53-019-16), bought by Precision. The east half was cut in the summer of 2023.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		5	Pole	8		Balsam Fir		High	10 - 20 feet	Sapling	
White Spruce		5	Pole	8							
Balsam Fir		10	Pole	8							
Quaking Aspen		80	Pole	8	63						
19	4134 - Aspen, Spruce/Fir	Poletimber Well	9.5	35	111-140	N/A	Fully-stocked stand of primarily aspen and fir. Clearcut in 1989 in the sale Clute Cut Aspen (#53-014-86, Kapalla Logging). Aspen diameters vary significantly throughout the stand and I'm not sure of the reason why. The ground transitions to lowland as you get closer to the northern edge. Beavers removed a lot of aspen from the north/northeast edge many years ago and this area is now primarily fir. Average ba/acre from 7 plots = 123 square feet. Might need another 2 entries of growth before being ready for another harvest due to the amount of small diameter trees.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Poplar		15	Pole/Sapling	7		Serviceberry (Juneberry)		Trace	>20 feet	Tall Shrub	
Northern White Cedar		1	Log	12		Nannyberry		Trace	5 - 10 feet	Tall Shrub	
White Spruce		4	Pole/Sapling	6		Black Cherry		Trace	>20 feet	Tall Shrub	
White Pine		2	Pole/Sapling	6		Balsam Fir		Medium	Variable	Sapling	
Balsam Fir		25	Pole/Sapling	6		Tag Alder		Medium	10 - 20 feet	Tall Shrub	
Quaking Aspen		53	Pole/Sap/Log	7	35	White Spruce		Trace	Variable	Sapling	
						Red Maple		Trace	>20 feet	Sapling	
20	310 - Herbaceous Openland	Nonstocked	7.2		Unspecified	Managed Opening	Wildlife opening that is periodically mowed.				
Sub-Canopy Species		Density	Avg. Height	Size							
Mixed Grasses		Full	Unspecified	Non-Wood							
21	42110 - Planted Red Pine	Sawtimber Well	7.1	63	111-140	N/A	Nice red pine plantation that was row-thinned in 1997 and had a 2nd thinning in 2007. The red pine is mostly all sawlog-sized, only a few poletimber stems. Terrain is all upland and on a ridgeline. There is a small sliver of planted white spruce on the east edge of the stand that slopes down to the adjacent lowland stand. Trace of red maple (log/pole). Average ba/acre from 6 plots = 137 square feet. Someone has cut a lot of boughs from live balsam fir saplings throughout the north half of the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		94	Log	13	63	Beech		Trace	5 - 10 feet	Sapling	
Balsam Fir		1	Pole	7		White Pine		Trace	Variable	Sapling	
White Spruce		4	Pole/Log	8		Balsam Fir		High	Variable	Sapling	
White Pine		1	Log/XLog	16		White Spruce		Low	Variable	Sapling	
						Tag Alder		Trace	10 - 20 feet	Tall Shrub	
						Black Cherry		Low	5 - 10 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
22	42310 - Planted Spruce	Poletimber Well	7.8	63	141-170	N/A	Decent quality white spruce plantation. It has not been thinned before, however, so there are still a lot of small diameter stems in places. Densely stocked in the southern 2/3rds of the stand, the northern 1/3rd has some areas of lower spruce stocking and is where most of the white pine is located. Mostly an upland stand but there are some pockets of wet ground, particularly at the southern end. The west edge of the stand also slopes down to lowland. Barren understorey in areas of highest stocking. Average ba/acre from 8 plots = 144 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		3	Pole	7		Balsam Poplar		Trace	Variable	Sapling	
Black Cherry		2	Pole	7		White Spruce		Trace	Variable	Sapling	
White Spruce		82	Pole/Log	8	63	Tag Alder		Medium	10 - 20 feet	Tall Shrub	
Red Pine		3	Log	15		White Ash		Low	Variable	Sapling	
Balsam Poplar		4	Pole/Log	8		Amur Honeysuckle		Trace	5 - 10 feet	Tall Shrub	
White Ash		1	Pole	6		Balsam Fir		Low	Variable	Sapling	
White Pine		5	Log/XLog/Pole	14		Black Cherry		Low	Variable	Tall Shrub	
23	4130 - Aspen	Sapling Well	24.6	15	Immature	N/A		Moderate quality aspen stand. Some areas of poor regeneration that were impacted by browse according to past inventory notes. Good component of paper birch throughout many areas of the stand. Clearcut in 2009 in the sale Running Bear Aspen (#53-012-06, Woodtic Logging). A heavily scarified skid trail/logging road runs northwest through a large portion of the stand west of Road 27. Terrain is a mix of upland and lowland, although upland is more prevalent.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Black Cherry		3	Sapling	2		Nannyberry			Medium	5 - 10 feet	Tall Shrub
Balsam Poplar		7	Sapling	3		Balsam Fir			Low	Variable	Sapling
Balsam Fir		5	Sapling	2		Tag Alder			Low	10 - 20 feet	Tall Shrub
Red Pine		1	Sapling	2		White Pine			Low	Variable	Sapling
Paper Birch		15	Sapling	2		Common Blackberry			Medium	< 5 feet	Tall Shrub
White Pine		5	Sapling	3		Paper Birch			Low	Variable	Sapling
Red Oak		1	Sapling	3		White Ash			Trace	5 - 10 feet	Sapling
Quaking Aspen		63	Sapling	2	15	Red Pine			Trace	5 - 10 feet	Sapling
						White Spruce			Trace	5 - 10 feet	Sapling
						Black Cherry			Medium	Variable	Tall Shrub
						Red Maple			Trace	Variable	Sapling
24	42110 - Planted Red Pine	Sawtimber Well	5.3	63	81-110	N/A	Red pine plantation that was row thinned in 1997. Good quality red pine but there are some areas of lower stocking throughout the stand. A lot of the red pine stems near DUBY Lake Road have deformed crowns, which I'm guessing is from previous porcupine damage. Aspen and BAM are mixed in throughout the east and west ends of the stand. The middle part of the stand is mostly all red pine except for a small clone of aspen. Mostly an upland stand except for a small pocket of wetter ground in the portion of the stand east of the road. Trace of black cherry (pole) in the canopy. Average ba/acre from 6 plots = 102 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		2	Pole/Log	8		Black Cherry		Medium	Variable	Tall Shrub	
White Spruce		2	Pole/Log	8		Serviceberry (Juneberry)		Trace	Variable	Tall Shrub	
Red Maple		1	Pole	7		White Oak		Trace	10 - 20 feet	Sapling	
Balsam Fir		5	Pole	7		Balsam Poplar		Low	Variable	Sapling	
Red Pine		73	Log	14	63	Balsam Fir		High	Variable	Sapling	
Balsam Poplar		6	Pole/Log	9		Tag Alder		Low	10 - 20 feet	Tall Shrub	
Quaking Aspen		11	Log/Pole	12		White Spruce		Trace	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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25	42110 - Planted Red Pine	Sawtimber Well	8.2	63	141-170	N/A	Moderate quality red pine plantation, although quite a few limby stems. Row-thinned in 1997. A lot of volume was removed from the center rows in the stand while the rows on the east and west sides of the stand have much higher BAs. Low ground characteristics with tag alder in pockets, although not much wet ground was noted, probably clay soils with a perched water table. Trace of paper birch (pole/log) and white ash (pole) in the overstory. Average ba/acre from 7 plots = 151 square feet. Small amounts of invasive honeysuckle and some clumps of invasive multiflora rose, which is the first finding in the PRC.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	91	Log/Pole	14	63	Balsam Fir	Medium		Variable	Sapling
Balsam Poplar	2	Pole/Log	8		Black Cherry	Medium		Variable	Tall Shrub
Balsam Fir	1	Pole	7		Beech	Trace		5 - 10 feet	Sapling
White Spruce	2	Pole/Log	8		Multiflora Rose	Trace		5 - 10 feet	Tall Shrub
White Pine	4	Log/XLog	15		White Ash	Low		Variable	Sapling
					Serviceberry (Juneberry)	Trace		Variable	Tall Shrub
					White Spruce	Trace		Variable	Sapling
					Choke Cherry	Low		5 - 10 feet	Tall Shrub
					Balsam Poplar	Low		Variable	Sapling
					Wild Red Raspberry	Medium		< 5 feet	Tall Shrub
					Paper Birch	Trace		>20 feet	Sapling
					Tag Alder	High		10 - 20 feet	Tall Shrub
					American Elm	Trace		Variable	Sapling
					Amur Honeysuckle	Trace		5 - 10 feet	Tall Shrub
					Red Maple	Trace		Variable	Sapling
					White Oak	Trace	Variable	Sapling	

26	4134 - Aspen, Spruce/Fir	Poletimber Well	45.7	57	81-110	N/A	This stand is currently under contract in the sale Cleveland Grade Aspen, bought by Precision, and is about 1/2 cut. Nice pole aspen stand with some wet areas seasonally. Nearly all aspen in this area is of similar age class. This stand is ready for clearcut but leave some retention areas maybe in conjunction with some wet areas to protect.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Pole	8		Red Maple	Low		10 - 20 feet	Sapling
Balsam Fir	15	Pole	8		Balsam Fir	Medium		10 - 20 feet	Sapling
Quaking Aspen	65	Pole	8	57					
Balsam Poplar	5	Pole	8						
White Spruce	5	Pole	10						

27	6113 - Lowland Maple	Poletimber Well	7.1	73	51-80	N/A	Very wet lowland maple stand. A stream enters this stand from the south end but then seems to spread out through the entire stand, draining to the north into Dorsy Lake. Standing water is common throughout the stand. Maple are much larger in diameter in the south half of the stand, gradually becoming mostly poletimber and sapling sized trees as you move further north. A few XL-sized trees are scattered throughout. Average ba/acre from 5 plots = 70 square feet. It's difficult to tell at this time of year but a lot of the maple appears to be silver maple, another site visit during leaf-on conditions should be made. No management in this stand due to the very wet soils.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Northern White Cedar	2	Pole/Log	8		Balsam Fir	Low		Variable	Sapling
American Elm	6	Pole	6		American Elm	Low		>20 feet	Sapling
Red Maple	90	Pole/Log/Sap	8	73	Tag Alder	Medium		Variable	Tall Shrub
Paper Birch	1	Pole	8		Michigan Holly	Low		5 - 10 feet	Tall Shrub
Balsam Fir	1	Pole	5		Red Maple	High		>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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28	6130 - Fir, Aspen, Maple	Poletimber Poor	6.9	65	1-50	N/A	Wet, poorly-stocked stand with a thick understory of lowland shrubs. A few pockets of upland including a small open area near the south end that may have some relation to the old homestead that was present in adjacent stand 29. Average ba/acre from 7 plots = 34 square feet. New beaver activity at the south end of the stand. No management due to the wet soils.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		9	Log/Pole	11		Balsam Poplar		Low	5 - 10 feet	Sapling	
White Spruce		17	Pole/Log/XLog	8		Nannyberry		Low	5 - 10 feet	Tall Shrub	
Balsam Fir		31	Pole/Log	8	65	White Spruce		Trace	Variable	Sapling	
Balsam Poplar		24	Pole/Log	9		Serviceberry (Juneberry)		Low	Variable	Tall Shrub	
White Pine		3	Log/XLog	15		Tag Alder		Full	Variable	Tall Shrub	
Black Cherry		8	Pole	7		Black Cherry		Low	>20 feet	Tall Shrub	
Red Maple		8	Pole	6		Balsam Fir		Low	Variable	Sapling	
						Willow spp.		Low	10 - 20 feet	Tall Shrub	
						Paper Birch		Trace	>20 feet	Sapling	
						American Elm		Trace	Variable	Sapling	
						Red Maple		Low	>20 feet	Sapling	
						White Ash		Trace	Variable	Sapling	

29	3105 - Mixed Upland Herbaceous	Nonstocked	1.3		Unspecified	No	Small opening with an old homestead foundation at the east end which is basically a pit at this point. Some clumps of lilac are clustered around the foundation remnants. Nice amount of milkweed throughout the stand. No management due to the foundation.
Sub-Canopy Species		Density	Avg. Height	Size			
Blackberry/Raspberry		Low	< 5 feet	Tall Shrub			
Balsam Poplar		Trace	< 5 feet	Seeding			
Balsam Poplar		Trace	Variable	Sapling			
Balsam Poplar		Trace	>20 feet	Pole			
Common Lilac		Low	Variable	Tall Shrub			
Mixed Grasses		Full	Unspecified	Non-Wood			

30	330 - Low-Density Trees	Nonstocked	0.7		Unspecified	No	This stand, along with the small adjacent private parcel, were apparently the site of a schoolhouse at one time, called the Grant School. There appear to be some foundational remnants at the east end of the stand.
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Poplar		Trace	>20 feet	Pole			
Balsam Poplar		Trace	5 - 10 feet	Sapling			
White Pine		Trace	>20 feet	Log			
Black Cherry		Low	Variable	Tall Shrub			
White Pine		Low	>20 feet	Pole			
Bracken Fern		High	Unspecified	Non-Wood			
Mixed Grasses		Full	Unspecified	Non-Wood			
White Pine		Low	Variable	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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31	4319 - Mixed Upland Forest	Poletimber Well	19.4	76	111-140	N/A	Moderate quality mixed species stand. Mostly upland terrain except for a wet drainage in the west half that runs N-S the entire length of the stand. Most cedar can be found in this drainage as well as in some pockets along the west edge of the stand. Composition in the south half of the stand is primarily aspen, red maple, and fir. It almost appears as if this half had a partial harvest at one time as some of the aspen are smaller in diameter. The north half has less aspen and is where most of the white pine is located. The white pine is high quality and large diameter, with many legacy trees. Trace of sugar maple (pole) and red pine (log/xlog) in the overstory. Average ba/acre from 9 plots = 129 square feet. The east half can be managed in the future, but the half west of the drainage should not be due to the amount of cedar in this area.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		25	Pole/Log	8	76	Balsam Fir		High	Variable	Sapling	
Red Maple		24	Pole/Log	8		White Spruce		Low	Variable	Sapling	
Northern White Cedar		15	Log/Pole	10		Beech		Trace	5 - 10 feet	Sapling	
White Spruce		4	Log/Pole	10		Red Maple		Trace	>20 feet	Sapling	
Quaking Aspen		10	Log/Pole/XLog	11							
Balsam Poplar		1	Pole/Log	8							
White Pine		14	XLog/Log/Pole	20							
Paper Birch		7	Pole	8							

32	6229 - Mixed lowland shrub	Nonstocked	6.5		Unspecified	No	Previous beaver flooding that is now drained. A small stream flows through the middle. Lowland shrubs have filled in most of the stand except for the middle which is still primarily sedges and cattails. An old road used to travel southwest-northeast along the northern edge of the stand, visible on 98DOQ imagery and coded as a road on the Topo map.	
Sub-Canopy Species		Density	Avg. Height	Size				
Willow spp.		Medium	5 - 10 feet	Tall Shrub				
Balsam Fir		Trace	Variable	Sapling				
Balsam Poplar		Trace	Variable	Sapling				
Paper Birch		Trace	>20 feet	Sapling				
Balsam Poplar		Trace	>20 feet	Pole				
Mixed Grasses		Medium	Unspecified	Non-Wood				
Quaking Aspen		Trace	>20 feet	Pole				
Tag Alder		High	10 - 20 feet	Tall Shrub				
American Elm		Trace	Variable	Sapling				
Cattail spp.		Low	Unspecified	Non-Wood				
American Elm		Trace	>20 feet	Pole				
Sedges		High	Unspecified	Non-Wood				

33	6139 - Mixed Lowland Forest	Poletimber Poor	5.6	33	51-80	N/A	Poorly-stocked stand with an odd mix of species. The northern tier of the stand is upland and has most of the cherry, a few of which are good form, and also has some white ash that are still alive. More large diameter white pine are found in this area as well. The middle part of the stand is lowland and mostly non-forested with a dense component of tag alder. The southeast corner is also lowland with a clone of balsam poplar. The southwest corner transitions back to upland and is mostly white pine poletimber. Most of the white pine is heavily deformed due to past weevil damage. Trace of elm poletimber. Average ba/acre from 6 plots = 51 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		2	XLog/Log	20		Red Maple		Medium	>20 feet	Sapling	
Balsam Fir		10	Pole	6		Tag Alder		Full	Variable	Tall Shrub	
Balsam Poplar		23	Pole	6		Serviceberry (Juneberry)		Low	>20 feet	Tall Shrub	
Red Maple		4	Pole/Sapling	5		Balsam Fir		Medium	Variable	Sapling	
Quaking Aspen		5	Pole	7		Black Cherry		Medium	Variable	Tall Shrub	
White Ash		5	Pole/Sapling	6		White Ash		Medium	>20 feet	Sapling	
Black Cherry		12	Pole/Log	8		White Spruce		Trace	Variable	Sapling	
White Pine		39	Pole/Log/XLog	8	33						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																	
34	6220 - Alder/willow	Nonstocked	7.7		Unspecified	No	Fully-stocked stand of alder. Apparently this used to be a part of the maintained opening to the north (stand 20) but mowing treatments were not continued and it filled in with alder and other species. Some clumps of BAM and aspen along the east and south edges. There is a small area without much alder near the middle that has some white pine and spruce in it. Overall the ground in this stand isn't too wet and could likely support machinery during the winter, although there is a north-south running drainage in the eastern part of the stand. Trace of Siberian crabapple. Invasive honeysuckle is present throughout the stand but not in overwhelming amounts, yet.																	
								Sub-Canopy Species	Density	Avg. Height	Size													
								Balsam Poplar	Low	>20 feet	Pole													
								White Pine	Trace	Variable	Sapling													
								Quaking Aspen	Trace	>20 feet	Pole													
								White Pine	Trace	>20 feet	Pole													
								White Ash	Trace	Variable	Sapling													
								White Pine	Trace	>20 feet	Log													
								Black Cherry	Medium	Variable	Tall Shrub													
								White Spruce	Trace	>20 feet	Pole													
								Serviceberry (Juneberry)	Trace	Variable	Tall Shrub													
								White Spruce	Trace	Variable	Sapling													
								Hawthorn (spp.)	Trace	Variable	Tall Shrub													
								Balsam Fir	Trace	Variable	Sapling													
								Amur Honeysuckle	Medium	< 5 feet	Tall Shrub													
35	6112 - Lowland Aspen	Poletimber Medium	8.0	46	81-110	N/A	Generally a poor quality, very wet stand. It appears that most portions of the stand may have been cut (some old cut stumps are evident) but not at the same time as adjacent stands 117 and 121. There are a few clumps of larger diameter aspen and fir near Duby Lake Road. The cedar component is also mostly near the road. Trees in the northern half of the stand are generally smaller in diameter and more of the birch component is located here. Scattered areas of alder with minimal tree stocking are mixed in throughout the stand. The majority of the stand is lowland although a few small areas of drier ground are present near the road. Trace of basswood (log). Average ba/acre from 7 plots = 86 square feet. No management due to the wet ground.																	
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size								
								White Spruce	2	Pole	8		Balsam Poplar	Trace	Variable	Sapling								
								Balsam Fir	25	Pole	6		American Elm	Trace	Variable	Sapling								
								American Elm	1	Pole/Log	8		White Spruce	Trace	Variable	Sapling								
								Red Maple	4	Pole/Sapling	5		Tag Alder	High	Variable	Tall Shrub								
								Quaking Aspen	39	Pole/Log	9	46	Michigan Holly	Low	5 - 10 feet	Tall Shrub								
								Northern White Cedar	4	Log/Pole	11		Black Ash	Trace	Variable	Sapling								
								Balsam Poplar	13	Pole/Log	8		Red Maple	Trace	Variable	Sapling								
								Paper Birch	12	Pole/Sapling	6		Paper Birch	Trace	>20 feet	Sapling								
													Balsam Fir	Medium	Variable	Sapling								
													Nannyberry	Trace	Variable	Tall Shrub								
								36	6112 - Lowland Aspen	Poletimber Well	13.9	46	81-110	N/A	Moderate quality aspen stand sitting on a mix of upland and lowland ground. There are several very wet drainages running through the stand (see 98DOQ imagery) that are not well-stocked and filled with lowland shrubs. These drainages run to the northwest and converge, eventually forming a small stream. There are some upland knobs in between these drainages but there are also additional areas of wet ground. Trace of black cherry (pole) and white pine (pole/sap). Average ba/acre from 8 plots = 84 square feet. The abundance of drainages and wet ground make this stand inoperable. No management.									
																Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
																Quaking Aspen	59	Pole/Log	8	46	Red Maple	Trace	Variable	Sapling
Balsam Fir	16	Pole	8		Balsam Fir	Medium	Variable									Sapling								
American Elm	1	Pole	6		Black Ash	Trace	Variable									Sapling								
Balsam Poplar	9	Log/Pole	10		Tag Alder	High	10 - 20 feet									Tall Shrub								
Red Maple	15	Pole/Log	9		Nannyberry	Medium	Variable									Tall Shrub								
					American Elm	Trace	>20 feet									Sapling								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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37 4319 - Mixed Upland Forest Poletimber Well 27.2 35 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	2	Log/Pole	10	
White Pine	10	Pole/Sap/Log	6	
Balsam Poplar	4	Pole	7	
Red Maple	2	Pole/Sapling	5	
Bigtooth Aspen	5	Pole	8	
Quaking Aspen	47	Pole/Sapling	6	35
Balsam Fir	25	Pole/Sapling	5	
White Spruce	5	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	>20 feet	Sapling
White Spruce	Low	>20 feet	Sapling
Balsam Fir	High	>20 feet	Sapling
Red Maple	Trace	>20 feet	Sapling
Tag Alder	Trace	10 - 20 feet	Tall Shrub

Developing stand of aspen. Clearcut in 1989 in the sale Clute Cut Aspen (#53-014-86, Kapalla Logging). Significant variation in aspen diameters. The east half of the stand is mostly upland and has the best diameter growth, with most trees in the 6-8" DBH range. A wet N-S running drainage is present in the west half of the stand and diameters are generally much smaller in this half, with a lot of stems that are still submerchantable. Heavy fir component throughout most of the stand. Trace of jack pine (pole/sap), red pine (pole), and paper birch (pole/sap). In addition to the residual cedar, there are a handful of residual hemlock, mostly poletimber. Average ba/acre from 8 plots = 116 square feet.

38 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 44.2 84 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	13	Log/Pole/XLog	12	
Balsam Fir	13	Pole	7	
White Spruce	5	Pole/Log	8	
White Pine	2	Log/XLog/Pole	14	
Red Maple	40	Pole/Log	8	84
Balsam Poplar	7	Pole/Log	8	
Black Spruce	1	Pole	6	
Paper Birch	6	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Nannyberry	Low	5 - 10 feet	Tall Shrub
Black Ash	Low	Variable	Sapling
Red Maple	Low	>20 feet	Sapling
Beech	Trace	5 - 10 feet	Sapling
White Pine	Trace	Variable	Sapling
Black Spruce	Trace	Variable	Sapling
Tag Alder	Medium	Variable	Tall Shrub

Convuluted mix of upland and lowland throughout the stand, although lowland is more prevalent. Upland terrain is mostly in the middle part of the stand (closer to the north edge) and at the far southern end, however there are additional small "pockets" scattered throughout. Very wet soils constitute the remainder of the stand. Black ash used to be a large component in these wet areas but is now all dead due to EAB. Timber quality is generally low throughout the stand except for in some of the upland areas. Lots of younger red maple poletimber in the southeast part of the stand. Most of the cedar is healthy except for decline that was noted in the wettest areas. White pine legacy trees are present. Trace of hemlock (pole/log), red pine (log), and tamarack (pole/log). Average ba/acre from 14 plots = 108 square feet. No management due to the wet soils.

39 4134 - Aspen, Spruce/Fir Poletimber Well 12.0 57 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	2	Pole/Log	8	
Red Maple	10	Pole/Log	8	
Quaking Aspen	44	Pole/Log	8	57
Balsam Fir	34	Pole/Log	8	
White Spruce	5	Pole/Log	8	
White Pine	1	Log/Pole	13	
Bigtooth Aspen	2	Log/Pole	12	
Black Cherry	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
White Spruce	Trace	Variable	Sapling
Serviceberry (Juneberry)	Trace	>20 feet	Tall Shrub
Black Cherry	Trace	Variable	Tall Shrub
Red Maple	Low	Variable	Sapling

Nice stand of aspen and fir. The east edge of the stand adjacent to the marsh (stand #44) is mostly conifers and without much aspen, likely due to past beaver activity. There is currently an active beaver dam at the northwest corner of stand 44. The white pine component is in this area as well as most of the serviceberry, some of which are almost of merchantable size. Ground is mostly upland in the south half but the north half becomes wetter, with pit and mound topography and small amounts of standing water. A few areas of wet ground are present along the road edge as well. Trace amounts of red pine (log), white spruce (xlog), paper birch (pole), black spruce (pole/log), and cedar (log) in the overstory. Average ba/acre from 10 plots = 130 square feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																													
40	6130 - Fir, Aspen, Maple	Poletimber Well	7.0	71	111-140	N/A	Large diameter aspen and BAM with a component of smaller fir mixed in throughout. Mostly a lowland stand but there are scattered pockets of upland in the south half. The north half of the stand is well-stocked and is mostly aspen, BAM, and fir. The south half has a more diverse mix of species on the upland pockets and with areas of lower stocking in the wet pockets. Average ba/acre from 7 plots = 114 square feet. Too wet for management.																																																																													
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41	42200 - Natural White Pine	Sawtimber Well	31.6	78	111-140	N/A	Nice stand of white pine, with all size classes present including some very large legacy trees. BAs are variable due to an aspen/red maple species removal harvest that was cut in 1998 (Two Section Aspen, #53-017-96, Ralph Walker). Advanced regeneration is present in many areas of the understory but there are also some areas with a more open, sparse understory. Average ba/acre from 8 plots = 113 square feet. Thin next entry if BAs are high enough. Retain all large diameter trees (20" + DBH).																																																																													
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42	310 - Herbaceous Openland	Nonstocked	5.1		Unspecified	Managed Opening	Managed wildlife opening that is periodically mowed. It looks like it has been a few years since the last mowing as there is some quaking aspen seeding into the west half of the stand.																																																																													
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43	42340 - Upland Spruce/Fir	Poletimber Well	2.7	49	111-140	N/A	Moderate quality upland conifer stand. Both species of spruce appear to be present in the stand. There is some variation in diameters as there are larger trees along the south edge and at the east end but the remainder still has a lot of small stems. Mostly an upland stand although the east 1/2 has several areas of wet ground mixed in. Trace of tamarack (pole) and black cherry (pole) in the overstory. Average ba/acre from 5 plots = 114 square feet. Manage together with stand 114 when that stand is ready for a harvest.																																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
44	6223 - Inundated Shrub Swamp	Nonstocked	43.7		Unspecified	No	Lowland shrub/marsh stand that appears to be the headwaters for a large drainage system that flows out of the northwest part of the stand, eventually joining Milligan Creek and Dorsy Lake. The northwest area may also be dammed by beavers but it's difficult to tell. Lots of willow near Clute Road but further north widens out more into a marsh/wetland system.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Willow spp.	Medium	5 - 10 feet	Tall Shrub	
								Cattail spp.	Medium	Unspecified	Non-Wood	
								Sedges	High	Unspecified	Non-Wood	
Tag Alder	Low	10 - 20 feet	Tall Shrub									
45	4319 - Mixed Upland Forest	Poletimber Well	16.2	46	111-140	N/A	Diverse mixed species stand, although dominated by aspen and fir. Small pockets of nearly pure mixed conifers can be found throughout the stand. Diameters on the aspen and fir tend to vary significantly, there are still a few areas where the trees are just over merchantability. There are also some spots near the edge of the interior U type where diameters are much larger. Mostly an upland stand but there are areas of wet ground along the edges (see site conditions layer for approximate locations). Cedar is mostly found in a small clump on the west side of the stand. Average ba/acre from 16 plots = 139 square feet.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Tamarack	1	Pole/Log	8	
								Paper Birch	3	Pole/Log	8	
								Black Cherry	1	Pole	6	
								Balsam Poplar	2	Pole/Log	8	
								Balsam Fir	32	Pole/Sap/Log	7	46
								Black Spruce	6	Pole/Log	8	
								Northern White Cedar	1	Pole/Log	8	
								Red Maple	9	Pole/Sap/Log	6	
								White Pine	5	Log/Pole/XLog	13	
								Quaking Aspen	34	Pole/Log/Sap	8	46
								White Spruce	3	Pole/Log	8	
								Red Pine	1	Log	14	
								Bigtooth Aspen	2	Log/Pole	10	
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Medium	>20 feet	Sapling									
Tag Alder	Trace	10 - 20 feet	Tall Shrub									
Black Cherry	Trace	Variable	Tall Shrub									
Michigan Holly	Trace	5 - 10 feet	Tall Shrub									
Nannyberry	Low	5 - 10 feet	Tall Shrub									
Serviceberry (Juneberry)	Trace	Variable	Tall Shrub									
Balsam Fir	High	Variable	Sapling									
46	6229 - Mixed lowland shrub	Nonstocked	29.1		Unspecified	No	Heavy mix of lowland shrubs. Only walked through the west side of the stand but there are areas that are close to being forested with a mix of tamarack and smaller red maple.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Balsam Fir	Trace	>20 feet	Pole	
								Black Spruce	Trace	>20 feet	Pole	
								Black Spruce	Trace	Variable	Sapling	
								Red Maple	Low	Variable	Sapling	
								Tag Alder	Full	Variable	Tall Shrub	
								Balsam Fir	Trace	Variable	Sapling	
								Tamarack	Low	>20 feet	Pole	
								Michigan Holly	Medium	5 - 10 feet	Tall Shrub	
								Red Maple	Low	>20 feet	Pole	
								Willow spp.	Low	>20 feet	Tall Shrub	
								Tamarack	Low	>20 feet	Sapling	
								Paper Birch	Trace	>20 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
47	320 - Upland Shrub	Nonstocked	5.1		Unspecified	No	Open area that is partially filling in with trees. Lots of sweetfern clumps throughout. Very small pocket of lowland at the south end. Trace of autumn olive, invasive honeysuckle, and Siberian crabapple. Not a managed site.			
				Sub-Canopy Species		Density		Avg. Height	Size	
				Balsam Fir		Low		>20 feet	Pole	
				Red Pine		Trace		< 5 feet	Seeding	
				White Pine		Trace		>20 feet	Pole	
				Black Cherry		Low		Variable	Tall Shrub	
				Mixed Grasses		Full		Unspecified	Non-Wood	
				White Pine		Trace		< 5 feet	Seeding	
				White Pine		Low		>20 feet	Log	
				Balsam Poplar		Trace		5 - 10 feet	Sapling	
				White Pine		Low		Variable	Sapling	
				Jack Pine		Trace		< 5 feet	Seeding	
				Blackberry/Raspberry		Medium		< 5 feet	Tall Shrub	
				White Spruce		Trace		>20 feet	Log	
				Tag Alder		Trace		>20 feet	Tall Shrub	
				Balsam Fir		Low		Variable	Sapling	
				Quaking Aspen		Trace		5 - 10 feet	Sapling	
				Willow spp.		Trace	>20 feet	Tall Shrub		
				Jack Pine		Trace	>20 feet	Pole		
				Sweet Fern		Medium	< 5 feet	Tall Shrub		
48	4134 - Aspen, Spruce/Fir	Poletimber Well	10.3	46	111-140	N/A	Nice stand of aspen that was harvested in the 1970's while under private ownership but it wasn't a "clean" cut as there are scattered residual red maple/birch throughout the stand. There are also a few older aspen in the stand as well. One small area in the middle part of the stand has a few basswood and ironwood, along with red maple and birch. Mix of upland and lowland with numerous wet areas and drainages. Tried as best I could to capture these wet areas in the site conditions layer but it's likely many areas were missed. Trace of white pine (log/xlog), cedar (pole/log), hemlock (pole/log), elm (pole/log), ironwood (pole), and basswood (log/pole) in the canopy. Average ba/acre from 9 plots = 133 square feet.			
				Canopy Species		% Cover		Size Class	DBH	Age
				Balsam Poplar		3		Log/Pole	11	
				Red Maple		21		Pole/Log	9	
				Quaking Aspen		48		Pole/Log	8	46
				Balsam Fir		22		Pole	7	
				Hemlock		1		Log/Pole	12	
				Paper Birch		4		Log/Pole	12	
				Northern White Cedar		1		Log/Pole	12	
				Sub-Canopy Species		Density		Avg. Height	Size	
				Red Maple		Trace	>20 feet	Sapling		
				Balsam Fir		High	Variable	Sapling		
				White Ash		Trace	>20 feet	Sapling		
				Tag Alder		Low	10 - 20 feet	Tall Shrub		
49	42320 - Upland Spruce	Poletimber Well	6.1	46	141-170	N/A	Nice black spruce stand, although there are still a lot of small submerchantable stems. Hummocky ground that is a mix of upland and lowland. Average ba/acre from 6 plots = 153 square feet. This stand needs another entry or two of growth before being ready for a treatment. Most of the ground in the stand appears operable.			
				Canopy Species		% Cover		Size Class	DBH	Age
				Red Maple		1		Pole	6	
				Quaking Aspen		5		Pole	8	
				Black Spruce		75		Pole/Sap/Log	7	46
				White Pine		4		Log/Pole	13	
				Tamarack		1		Pole	7	
				Red Pine		1		Log	14	
				Balsam Fir		13		Pole	7	
				Sub-Canopy Species		Density		Avg. Height	Size	
				Michigan Holly		Trace		5 - 10 feet	Tall Shrub	
				Red Maple		Low		Variable	Sapling	
				Serviceberry (Juneberry)		Trace	Variable	Tall Shrub		
				Tag Alder		Low	10 - 20 feet	Tall Shrub		
				Balsam Fir		Low	Variable	Sapling		
				Nannyberry		Medium	5 - 10 feet	Tall Shrub		
				White Pine		Trace	Variable	Sapling		
				Black Spruce		Medium	>20 feet	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
50	4134 - Aspen, Spruce/Fir	Poletimber Well	10.2	55	111-140	N/A	Moderate quality stand of primarily aspen and fir. Borderline lowland stand as the water table appears to be close to the surface. There is a very wet drainage that runs east-west through the middle of the stand. There are also various areas of seasonally wet ground in the northern part of the stand, based on pit and mound topography. The far northeastern area of the stand is wet and appears to be so year round. Trace of black spruce (pole) and paper birch (pole). Average ba/acre from 6 plots = 130 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		12	Pole/Log	8		Balsam Fir		Medium	>20 feet	Sapling	
Balsam Fir		30	Pole	6		Tag Alder		Trace	Variable	Tall Shrub	
Northern White Cedar		2	Log/Pole	11		Red Maple		Trace	>20 feet	Sapling	
Quaking Aspen		55	Pole/Log	8	55	Serviceberry (Juneberry)		Trace	Variable	Tall Shrub	
White Spruce		1	Pole/Log	8		Nannyberry		Trace	5 - 10 feet	Tall Shrub	
51	429 - Mixed Upland Conifers	Sawtimber Well	9.5	89	81-110	N/A	Ridgeline with a mix of species present, although dominated by white pine. A variety of white pine size classes are present, including some very large legacy trees. BAs are somewhat variable as there are some areas of lower stocking along what appears to be an old road that travels the length of the stand. Some areas of lowland along the lower slopes on the north and south edges of the ridgeline. Average ba/acre from 7 plots = 109 square feet. There isn't any feasible access to this stand unless a sizeable road network is built. Leave unmanaged.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		6	Log/XLog	15		Beech		Trace	Variable	Sapling	
Black Spruce		5	Pole	7		Black Spruce		Low	Variable	Sapling	
Hemlock		1	Log/Pole	11		Balsam Fir		Medium	Variable	Sapling	
White Pine		49	Log/Pole/XLog	14	89						
Paper Birch		3	Pole/Log	8							
Quaking Aspen		9	Log	13							
Red Maple		12	Pole/Log	8							
Northern White Cedar		2	Pole/Log	9							
Balsam Fir		13	Pole	7							
52	4319 - Mixed Upland Forest	Poletimber Well	12.2	46	81-110	N/A	Aspen/fir stand of moderate quality. The south half of the stand is an east-west running ridgeline with some scattered open areas of lower stocking and is where most of the pine component is located. Going north from the ridgeline, terrain slopes gradually down, and while is still mostly upland, though there are also several areas of wet ground, including two wetland pockets (see leaf-off imagery). A lot of the ground becomes "hummocky" as you get closer to the north edge, suggesting that the ground in this area holds water seasonally. Trace of paper birch (pole) and black cherry (pole). Average ba/acre from 12 plots = 105 square feet. Water features excluded, a good percentage of this stand is operable however access is difficult.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		45	Pole/Sap/Log	6	46	Black Spruce		Trace	Variable	Sapling	
Northern White Cedar		1	Log/Pole	12		Red Maple		Trace	>20 feet	Sapling	
Jack Pine		1	Pole	8		Beech		Trace	5 - 10 feet	Sapling	
White Pine		1	Log/Pole	12		Michigan Holly		Trace	5 - 10 feet	Tall Shrub	
Red Maple		4	Pole	6		Balsam Fir		Medium	>20 feet	Sapling	
White Spruce		3	Pole	8							
Quaking Aspen		42	Pole/Log	8							
Black Spruce		1	Pole	6							
Red Pine		2	Log/Pole/XLog	13							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
53	6112 - Lowland Aspen	Sawtimber Well	22.4	65	111-140	N/A	Lowland aspen stand with only a few areas of drier ground, mostly along the edges. Trace of black cherry (pole) and cedar (log/pole) in the overstory. Average ba/acre from 11 plots = 117 square feet. Based on the recent failed attempts in harvesting similar nearby stands, and the lack of successful regeneration, this stand should be considered inoperable.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Spruce		3	Pole/Log	8		Red Maple		
Red Maple		9	Pole/Log	8		Hazelnut (American)		
Quaking Aspen		59	Log/Pole	10	65	White Spruce		
Paper Birch		2	Pole/Log	8		Tag Alder		
Balsam Fir		18	Pole/Log	8		Nannyberry		
Balsam Poplar		8	Log/Pole	10		Balsam Fir		
Black Spruce		1	Pole	6		Black Cherry		
						Serviceberry (Juneberry)		
						Michigan Holly		
54	4319 - Mixed Upland Forest	Poletimber Well	12.3	72	111-140	N/A	Moderate quality mixed species stand of varying timber quality. Diameters are small east of the closed road and at the north end of the stand, as its possible these two areas were cut at the same time as adjacent stand 45 to the north. Diameters are larger in the interior of the stand with a higher component of red maple. Many of the largest aspen are poor quality with lots of rot and cavities. Several of the white pine are heavily deformed from past weevil damage but there are also some high quality stems. Hummocky ground that holds water seasonally is abundant in the north half of the stand, and the far northern end of the stand is very wet with areas of mostly lowland shrubs. Trace of cedar (log/pole) and black cherry (pole) in the canopy. Average ba/acre from 8 plots = 118 square feet.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Poplar		4	Pole	8		Black Spruce		
Paper Birch		1	Log/Pole	13		Beech		
White Spruce		3	Pole/Log	8		Red Maple		
White Pine		7	Log/XLog/Pole	14		Tag Alder		
Quaking Aspen		16	Log/Pole	12		Serviceberry (Juneberry)		
Bigtooth Aspen		2	Log	13		Black Cherry		
Balsam Fir		35	Pole/Log	8	72	Balsam Fir		
Red Maple		20	Pole/Log	8				
Black Spruce		12	Pole/Log	8				
55	310 - Herbaceous Openland	Nonstocked	23.1	0	Unspecified	4319 - Mixed Upland Forest	Fully-stocked white spruce plantation (unfurrowed) that was clearcut during the winter of 2020-21 in the sale Christmas Tree SBW (#53-01-17). Roundwood job cut by Precision. 2 small retention pockets in the middle of the stand. 2023 regen survey - balsam poplar 878 TPA (5' avg height), quaking aspen 233 TPA (3.5' avg height), balsam fir 11 TPA (6" avg height). Aspen and BAM regen is mostly only present on the east and west edges of the stand. The remainder of the stand is barren with sedge/grass and hardly any regeneration. Small amount of black cherry (5-10 feet) and tag alder (5-10) feet. This site is mostly upland with areas of lowland along the edges. Heavy deer and elk use throughout.	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
56	6111 - Lowland Balsam Poplar	Poletimber Poor	19.2	33	1-50	N/A	This was apparently an old field at one time that has since filled in with trees and a heavy component of lowland shrubs, particularly alder. Sporadic stocking with most trees tending to be found in "clumps" and alternating with large areas of alder without any trees. There are a few scattered pockets of BAM and aspen that are larger and older than the dominant age class. Clumps of spruce and white pine can be found along the south edge of the stand. Black cherry is more common further west in the stand, some of the stems display decent form but most are only "shrub" quality. Some of the alder is very large, a few stems close to 4" DBH. Although this is a lowland mix of species, the ground is not very wet and would likely be operable for machinery, except for a wet drainage in the middle part of the stand and a wetland pocket at the northeast corner. This stand provides excellent wildlife value due to the variety of shrubs present. Leave unmanaged for the time being.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Spruce	1	Pole	6		White Ash	Trace		Variable	Sapling
Balsam Fir	7	Pole/Sapling	6		Tag Alder	Full		>20 feet	Tall Shrub
Quaking Aspen	15	Pole/Log	8		Willow spp.	Low		>20 feet	Tall Shrub
Balsam Poplar	51	Pole/Sap/Log	6	33	Balsam Poplar	Low		Variable	Sapling
White Spruce	12	Pole/Sapling	5		Serviceberry (Juneberry)	Low		>20 feet	Tall Shrub
Black Cherry	6	Pole	6		Red Maple	Trace		Variable	Sapling
Red Maple	2	Pole/Sapling	5		Common Blackberry	Low		< 5 feet	Tall Shrub
White Pine	6	Pole/Sap/Log	6		White Pine	Trace		Variable	Sapling
					Wild Red Raspberry	Low		< 5 feet	Tall Shrub
					White Spruce	Low		Variable	Sapling
					American Elm	Trace		Variable	Sapling
					Balsam Fir	Trace		Variable	Sapling
					Black Cherry	Low	Variable	Tall Shrub	
57	6122 - Black Spruce	Poletimber Well	11.6	89	111-140	N/A	Lowland black spruce bog with hummocky sphagnum throughout. The spruce is good quality but there are a lot of small stems. White pine is most numerous along the west edge. Red pine is more along the east/northeast edges. A vein of upland runs southeast to northwest in the northern part of the stand, with some open areas of poor stocking. Holly is abundant in the eastern part of the bog. Trace of paper birch (pole). Average ba/acre from 6 plots = 130 square feet. No management due to the sensitive soils.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	1	Pole	8		Balsam Fir	Trace		Variable	Sapling
Northern White Cedar	1	Pole/Log	9		Black Spruce	Low		>20 feet	Sapling
Red Pine	9	Log/XLog	15		Tag Alder	Trace		5 - 10 feet	Tall Shrub
Balsam Fir	3	Pole	7		Nannyberry	Trace		5 - 10 feet	Tall Shrub
White Pine	16	Log/Pole/XLog	12		Michigan Holly	Medium		5 - 10 feet	Tall Shrub
Black Spruce	70	Pole/Sap/Log	7	89					
58	6229 - Mixed lowland shrub	Nonstocked	2.4		Unspecified	No	Dense stand of mixed lowland shrubs. Only looked at it from the edges.		
Sub-Canopy Species	Density	Avg. Height	Size						
Balsam Fir	Trace	Variable	Sapling						
Paper Birch	Trace	>20 feet	Sapling						
Quaking Aspen	Trace	>20 feet	Pole						
Tag Alder	Low	Variable	Tall Shrub						
Red Maple	Trace	Variable	Sapling						
Black Spruce	Trace	>20 feet	Pole						
Balsam Fir	Trace	>20 feet	Pole						
Michigan Holly	High	5 - 10 feet	Tall Shrub						
Willow spp.	Medium	10 - 20 feet	Tall Shrub						
59	6220 - Alder/willow	Nonstocked	1.1		Unspecified	No			
Sub-Canopy Species	Density	Avg. Height	Size						
Tag Alder	High	5 - 10 feet	Tall Shrub						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																										
60	4139 - Aspen, Mixed Deciduous	Sapling Well	17.3	3	Immature	N/A	Formerly this was a fully-stocked white spruce plantation, with a component of aspen and BAM, that was clearcut during the winter of 2020-21 in the sale Christmas Tree SBW (#53-01-17). Roundwood job cut by Precision. Nice job on the sale, no rutting concerns. Regeneration has responded very well throughout most of the stand, with the only area lacking in regeneration at the south end but this is where the landing was located. A small wet area was excluded in the middle of the stand as retention. This stand is kind of a toss-up between upland and lowland as the water table appears to be very close to the surface in most places, but doesn't appear to be wet enough to categorize as lowland.																																																																																										
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61	6229 - Mixed lowland shrub	Nonstocked	38.7	0	Unspecified	413 - Aspen	This stand was cut in the winter of 2019-20 in the sale Drum Solo Aspen (#53-013-16). Cut by a Precision roundwood crew. This was formerly a fully-stocked lowland aspen stand but regeneration has not come back well at all and can be considered a failure. The only areas of decent regen are in the small pockets of upland that are scattered throughout. However, most areas of the stand are essentially a lowland shrub/wetland mix now. Some areas are now flooded with cattails. Significant rutting damage in many areas, most of the ruts are filled with water at this time. Not sure what to do here, planting is likely not possible due to the wet ground and the shrub component is becoming abundant. Regen survey results - quaking aspen 563 TPA (4' avg height), balsam poplar 50 TPA (5' avg height), black ash 31 TPA (5.5' avg height), balsam fir 25 TPA (6" avg height), white spruce 19 TPA (6" avg height).																																																																																										
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62	4319 - Mixed Upland Forest	Sawtimber Medium	2.2	96	81-110	N/A	Dry ridgeline that is poorly-stocked in many places. Both species of spruce appear to be present. A handful of red oak in the east half. There is also a small clump of white oak saplings, along with one large poletimber stem, in the middle part of the stand. Average ba/acre from 6 plots = 80 square feet. Two ground blinds made out of natural materials are present in the stand. No management due to the isolated nature of the stand and poor timber quality.																																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
63	4134 - Aspen, Spruce/Fir	Sawtimber Well	6.6	58	141-170	N/A	Nice stand of aspen that is a mix of wet and dry ground. The southern 1/3rd of the stand is mostly lowland and too wet for harvesting operations. There is also a small pocket of wet ground on the northwest side of the stand. Small clump of younger timber at the far southwest corner. Trace of black cherry (pole), paper birch (pole/log), and white pine (log/xlog) in the overstory. Average ba/acre from 8 plots = 149 square feet. Only about 1/2 of this stand is operable and should have been cut when adjacent stand 60 was recently harvested. No management will be feasible for a long time.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	54	Log/Pole	11	58	Red Maple	Low		Variable	Sapling
Balsam Fir	25	Pole/Log	8		Balsam Fir	Medium		Variable	Sapling
Black Spruce	1	Pole	6		Red Osier Dogwood	Medium		< 5 feet	Tall Shrub
White Spruce	7	Log/Pole/XLog	10		White Spruce	Trace		Variable	Sapling
Red Maple	3	Pole/Log	8		Beech	Trace		5 - 10 feet	Sapling
Balsam Poplar	8	Pole/Log	9		Michigan Holly	Trace		5 - 10 feet	Tall Shrub
Northern White Cedar	2	Log	12		Nannyberry	Low		5 - 10 feet	Tall Shrub
					Black Cherry	Trace		Variable	Tall Shrub
					Tag Alder	Low		10 - 20 feet	Tall Shrub
64	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	19.7	70	111-140	N/A		Multi-aged stand of pine and spruce. Good quality for the most part with a range of diameters, including legacy size red and white pine. Large pockets of "bog-like" lowland are present in the stand with sphagnum, leatherleaf, and Labrador tea at the ground level. A vein of upland runs north-south through the middle of the stand then turns west, most easily visible on the 98DOQ imagery. The east half of the stand does have a slight "ridge-swale" feel to it in places as there is some additional upland ground in this area. Clumps of hemlock can be found near the southwest edge of the stand. Trace of yellow birch (pole). Average ba/acre from 10 plots = 136 square feet. No management due to the wet, sensitive soils.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Red Pine	13	Log/XLog	15	105	Red Maple	Trace	>20 feet		Sapling
Hemlock	1	Pole/Log	8		Tag Alder	Trace	10 - 20 feet		Tall Shrub
Quaking Aspen	1	Log	13		Balsam Fir	Medium	Variable		Sapling
Balsam Fir	5	Pole	7		Beech	Trace	Variable		Sapling
Red Maple	9	Pole/Log	8		White Pine	Trace	>20 feet		Sapling
Paper Birch	1	Pole/Log	8		Paper Birch	Trace	>20 feet		Sapling
Black Spruce	29	Pole/Log	8		Black Spruce	Medium	>20 feet		Sapling
Northern White Cedar	9	Pole/Log	8		Nannyberry	Low	5 - 10 feet		Tall Shrub
White Pine	32	Log/Pole/XLog	12	70	Michigan Holly	Medium	5 - 10 feet		Tall Shrub
65	4136 - Aspen, Mixed Conifer	Poletimber Well	15.0	44	111-140	N/A	Moderate quality aspen stand that sits on ground that is nearly an even split between upland and lowland. The northern half of the stand is primarily upland but as you move south the terrain slopes gently down and the ground becomes much wetter as you reach the southern edge. In addition, the middle part of the stand is mostly wet. Aspen diameters tend to vary significantly, with some of the wetter areas having a larger percentage of sawtimber. Some small pockets of good conifer regen, without much aspen, all along the far northern edge. Cedar was left as residual and is scattered infrequently throughout the stand, there is also a small clump at the far eastern end. The far northeast corner has a small pocket of good red and white pine regen. A few red maple sawlog-size trees are present but rare overall. Trace of white spruce (pole/log) and red pine (pole/sap) in the overstory. Average ba/acre from 11 plots = 122 square feet. Protect all wet ground when a treatment is prescribed. An elevated box blind is present in the west half of the stand, it is in disrepair despite looking relatively new.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Balsam Fir	11	Pole/Sapling	6		Tag Alder	Medium		Variable	Tall Shrub
White Pine	2	Pole	6		Michigan Holly	Trace		5 - 10 feet	Tall Shrub
Paper Birch	1	Pole/Sapling	5		Balsam Fir	Medium		Variable	Sapling
Black Spruce	3	Pole	6		White Pine	Trace		Variable	Sapling
Red Maple	9	Pole/Sapling	6		Beech	Trace		5 - 10 feet	Sapling
Balsam Poplar	5	Pole	8		Paper Birch	Trace		>20 feet	Sapling
Quaking Aspen	63	Pole/Log	8	44	American Elm	Trace		>20 feet	Sapling
American Elm	1	Pole	6		Red Maple	Medium		>20 feet	Sapling
Northern White Cedar	5	Log/Pole	11		Nannyberry	Trace		5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
66	6223 - Inundated Shrub Swamp	Nonstocked	96.3		Unspecified	No	Large stand of lowland shrubs that is very wet throughout most of the year. Only looked at the stand from Clute Road and along the edges. Purple loosestrife has become more common in the stand over the years.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Paper Birch	Trace	>20 feet	Sapling					
								Red Maple	Trace	>20 feet	Log					
								Red Maple	Trace	Variable	Sapling					
								Balsam Fir	Trace	Variable	Sapling					
								Red Maple	Trace	>20 feet	Pole					
								Balsam Fir	Trace	>20 feet	Pole					
								Red Osier Dogwood	Trace	5 - 10 feet	Tall Shrub					
								Balsam Poplar	Trace	Variable	Sapling					
								Michigan Holly	Medium	5 - 10 feet	Tall Shrub					
								Quaking Aspen	Trace	>20 feet	Log					
								Willow spp.	Medium	5 - 10 feet	Tall Shrub					
								Balsam Poplar	Trace	>20 feet	Pole					
Alder	High	10 - 20 feet	Tall Shrub													
American Elm	Trace	Variable	Sapling													
67	6121 - Tamarack	Poletimber Well	26.8	91	111-140	N/A	Lowland stand of tamarack with a thick understory of lowland shrubs. Most trees are growing on sphagnum hummocks with wet ground in between. Decent quality tamarack and low quality cedar, although most of the cedar appears healthy. Average ba/acre from 5 plots = 118 square feet. Only walked through the west half of the stand. From imagery it looks like there is quite a bit more black spruce at the east end.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	3	Pole	7		Tamarack	Low	>20 feet	Sapling
								Black Spruce	8	Pole	7		Red Maple	Trace	Variable	Sapling
								Northern White Cedar	28	Pole/Log	8		Paper Birch	Trace	Variable	Sapling
								Tamarack	60	Pole/Log	8	91	Michigan Holly	High	5 - 10 feet	Tall Shrub
								Balsam Fir	1	Pole	8		Willow spp.	Trace	>20 feet	Tall Shrub
													Tag Alder	Medium	10 - 20 feet	Tall Shrub
													Black Spruce	Trace	Variable	Sapling
68	42340 - Upland Spruce/Fir	Poletimber Well	4.0	87	81-110	N/A	McDonald, '14: Small stand left out of last cut right in front of private cabin. JSP, '24: Fir/Aspen. Most QA and BAM is log/large log and beginning to overmature. Fir and red maple are waiting to populate aspen that fail. Becomes progressively wet as you move north, Drainage corridors present, mainly located against adjacent stands. Pit/moundy on the forest floor. Trace amount of NWC and WP. BA swings= 70,90,60 (73avg), Bumped up to 81-110, BA increases in east									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Balsam Fir	46	Pole/Sap/Log	8	87	Balsam Fir	Medium	10 - 20 feet	Sapling
								Red Maple	5	Pole/Sap/Log	6		White Spruce	Low	10 - 20 feet	Sapling
								White Spruce	15	Pole/Log/XLog	9		Red Maple	Medium	10 - 20 feet	Sapling
								White Pine	1	Log	16		Tag Alder	Low	10 - 20 feet	Tall Shrub
								Black Cherry	3	Pole/Sapling	6					
								Balsam Poplar	5	Log/Pole	11					
								Quaking Aspen	25	Log/Pole/XLog	14	87				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
69	6112 - Lowland Aspen	Poletimber Well	4.9	43	81-110	N/A	Water table has to be located just below the forest floor. Stand likely dries out in areas during the year. Consistent presence of alder/dogwood throughout, dogwood heavily browsed. Swallow pits/mounds present across stand. Ruts from past harvest (I think) still present/obvious in areas. Current canopy stems are developing nicely. Sap dominant last YOY, poles now prevalent. Had to of been harvested with Stand 24 (C021) just to the north. Very likely hauled out through C021 (Stand 71 too wet to use as a landing). BA swings= 130,50,70,100 (87avg)		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	75	Pole/Sap/Log	7	43	Dogwood (spp.)	Medium		< 5 feet	Tall Shrub
Balsam Fir	10	Pole/Sapling	6		White Spruce	Low		10 - 20 feet	Sapling
White Spruce	5	Pole/Sapling	7		Balsam Fir	High		10 - 20 feet	Sapling
Balsam Poplar	10	Pole/Log	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub	
70	6112 - Lowland Aspen	Poletimber Well	4.1	35	81-110	N/A	Aspen/mixed species stand that is just reaching merchantability. The stand starts as upland along the east edge but transitions down to lowland as you move west. Diameters are still quite small in most places. A small sliver of older trees can be found along the north/northeast edge. Red maple becomes common at the south end of the stand. Trace of cedar (log/pole) in the overstory. Average ba/acre from 3 plots = 90 square feet. From the 98DOQ imagery, this stand was cut at the same time as stands 117 and 121 to the south/southwest. A road was built through the northwest edge of the lowland stand #32 to access this stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	36	Pole/Sapling	6	35	Red Maple	Low		>20 feet	Sapling
Balsam Fir	30	Pole/Sapling	5		Balsam Fir	High		Variable	Sapling
Balsam Poplar	15	Pole/Sapling	7		White Spruce	Trace		Variable	Sapling
White Spruce	9	Pole/Sapling	6		Michigan Holly	Low	5 - 10 feet	Tall Shrub	
Red Maple	10	Pole/Sapling	5		Tag Alder	Medium	Variable	Tall Shrub	
71	6239 - Mixed Emergent Wetland	Nonstocked	1.8		Unspecified	No	Similar to Stand 69, the water table is likely very close to the surface. Essentially, this stand seems to be a lowland grassy opening. Very dense population of tag alder along the southern boundary, then additional clumps in perimeter locations. Aspen, fir and spruce saplings on perimeter too. A single (old) deep vehicle rut through center of stand, does not look like a stand you'd want drive a vehicle into... Stand might dry up at times, though would not be an ideal landing location.		
Sub-Canopy Species	Density	Avg. Height	Size						
Mixed Grasses	Full		Non-Wood						
Tag Alder	Medium	5 - 10 feet	Tall Shrub						
72	4134 - Aspen, Spruce/Fir	Poletimber Well	24.2	36	51-80	N/A	Upland with distinct lowland areas, at least seasonally. Pit/mounds common too. Center of stand and south (of old RR grade) the most obvious 'low' locations. Then interspersed low ground throughout. Stand still very much in transition from sapling to pole sizes. Felt enough poles present to now call pole sized, on average. Saps common where aspen/fir competing with each other and in the 'lower' low areas. Scattered NWC residuals, both in clumps/individuals. Heavier NWC (and Hemlock) residuals south of RR Grade. Many of the trace/low sub-can species present as P/S or S/P throughout the stand. BA swings= 120,50,60,60,50 (68avg).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	60	Pole/Sapling	5	36	Paper Birch	Trace		>20 feet	Pole
Northern White Cedar	5	Log/Pole	12		American Elm	Trace		10 - 20 feet	Sapling
White Spruce	3	Pole/Sapling	7		Nannyberry	Low		< 5 feet	Tall Shrub
Balsam Fir	18	Pole/Sapling	5		Black Cherry	Low		>20 feet	Sapling
Balsam Poplar	3	Pole/Sapling	6		Black Ash	Low		10 - 20 feet	Sapling
Hemlock	2	Pole/Log	8		White Pine	Trace		10 - 20 feet	Sapling
Red Maple	9	Sapling/Pole	4		Tag Alder	Low	10 - 20 feet	Tall Shrub	
					Balsam Fir	Medium	5 - 10 feet	Sapling	
73	6229 - Mixed lowland shrub	Nonstocked	0.3	0	Unspecified	No	Small mixed lowland shrub island within Stand 72. Very heavy to alder with scattered Fir and Red Maple sap/poles.		
Sub-Canopy Species	Density	Avg. Height	Size						
Tag Alder	Full	10 - 20 feet	Tall Shrub						
74	6229 - Mixed lowland shrub	Nonstocked	1.8		Unspecified	No	Tag alder dominated w/scattered sap/pole conifer and deciduous. A couple of xlog white pine present in northwest area of stand.		
Sub-Canopy Species	Density	Avg. Height	Size						
Willow spp.	Low		Tall Shrub						
Tag Alder	Full	5 - 10 feet	Tall Shrub						



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75	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	4.6	89	Unspecified	N/A	Imagery for this stand is a bit deceiving (appears more forested), and I only observed from the edge (north & east sides). Heavily populated with tag alder, especially as you move south, far fewer tree species in south. North begins to transition into more 'forested', but still heavy alder component. Very wet with a range of DBH sizes because of difficult growing conditions. Canopy closure varies too, higher in north/lower in south. Overall closure averages out to about ~50-75% ish.																																																																							
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76	6120 - Lowland Cedar	Poletimber Medium	153.1	85	51-80	N/A	McDonald '14: Wet, poor quality and somewhat young stand. It appeared to be cut back in the 30's. Small diameters throughout the stand. JSP '24: Did not venture into any interior portion of this stand. Saw from the edge while working in Stand 84. Appeared understocked, very wet with a dense sub-canopy of lowland shrubs/tree species. Canopy species looked to be struggling because of difficult growing conditions. Clumps of larger/dense log/pole NWC along boundary with Stand 84 (A6).																																																																							
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77	6120 - Lowland Cedar	Poletimber Well	98.4	100	81-110	N/A	McDonald '14: Wet, under-developed swamp appears to have been cut back in the 20's. JSP '24: Did not make it far into this large lowland complex. West and southern boundary locations are transitional, some of which are upland. An upland 'finger bridge' is present in northwest (east of Stand 71). Either side of the finger is surrounded by dense alder w/some conifer/deciduous mixing in. A walkable hunter trail is present along the finger. Other areas of dense alder/not really forested present too. Seasonal water courses observed flowing into and out of this stand. Stand could be a 'splitters dream', many species, sizes classes, canopy closure(s) and other variables present within. At least one, likely 'logging era' haul route visible on leaf-off infrared.																																																																							
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78	6229 - Mixed lowland shrub	Nonstocked	9.6		Unspecified	No																																																																								
79	3303 - Mixed Low Density Trees	Nonstocked	1.7		Unspecified	No	Smaller but species composition is quite similar to bigger brother, Stand 89 to south. Less WP and Fir/Spruce that is mainly concentrated along the perimeter. A few wofly RM on perimeter too. No Crab Apple present. Swath of QA/BAM saps present in NE (5-10ft).																																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
80	3105 - Mixed Upland Herbaceous	Nonstocked	1.2		Unspecified	No	Northern portion of opening is being reclaimed by deciduous/some conifer species. South appears to be used quite regularly by Clute Rd traffic as a turn-around/hunter parking. So (south) isn't being reclaimed as quickly. Hunter walking trail connects from opening to old R.R. Grade in Stand 72 (skirts south boundary of Stand 77).					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Mixed Grasses	Full	Unspecified	Non-Wood	
								Bracken Fern	Medium	Unspecified	Non-Wood	
							Blackberry/Raspberry	Low	< 5 feet	Tall Shrub		
81	6112 - Lowland Aspen	Poletimber Well	11.4	57	111-140	N/A	Mediocre to poor quality aspen. A strange stand in that despite it's higher topographical position as related to lowland stands to the east, this stand is mostly wet ground and appears to act as a large seep. Red-osier dogwood, a wetland indicator species, is abundant in most places at the ground level, although heavily browsed and mostly less than 2 feet in height. Areas with standing water are present in the east half of the stand as the soil in this area contains a clay component. A few acres of drier ground are present in the finger that extends west. Aspen quality varies throughout the stand, but there are many areas where the aspen doesn't look healthy. Most of the cedar is in a vein along the northwest edge of the stand. Trace of red pine (pole/sap), paper birch (pole), and black spruce (pole) in the canopy. Average ba/acre from 9 plots = 118 square feet.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	55	Pole/Log	8	57
								Balsam Poplar	15	Pole/Log	8	
								White Spruce	7	Pole/Log	8	
								White Pine	1	Pole	7	
								Balsam Fir	17	Pole	6	
								Red Maple	3	Pole/Log	8	
								Northern White Cedar	2	Log	13	
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Spruce	Low	Variable	Sapling	
								Red Osier Dogwood	High	< 5 feet	Tall Shrub	
								Tag Alder	Trace	10 - 20 feet	Tall Shrub	
								White Pine	Low	Variable	Sapling	
White Ash	Trace	Variable	Sapling									
Balsam Fir	High	Variable	Sapling									
Red Maple	Trace	>20 feet	Sapling									
82	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.3	86	111-140	N/A	McDonald '14: Small maple/birch stand surrounded by aspen cuttings would work well as retention stand. JSP '24: Primarily pole dominant, yet scattered L/XL stems not uncommon throughout. Added the trace components of BW, BAM, WhtSprc, IW and RO (saw 1) to canopy/sub-can lists. Did not add the 1-2 trace WP (log) present along Clute Rd. BA swings= 110,130,120,140 (125avg).					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Spruce	2	Log/XLog	15	
								Balsam Fir	32	Pole/Sap/Log	8	
								Quaking Aspen	8	Log/Pole	14	
								Black Cherry	3	Pole/Sap/Log	8	
								Paper Birch	16	Pole/Log	9	
								Balsam Poplar	2	Pole/Log	9	
								Basswood	2	XLog/Log	18	
								Red Maple	34	Pole/Log	9	86
								Sub-Canopy Species	Density	Avg. Height	Size	
								Ironwood	Trace	>20 feet	Pole	
								Sugar Maple	Trace	>20 feet	Sapling	
								Striped Maple	Trace	>20 feet	Sapling	
White Ash	Trace	>20 feet	Sapling									
Quaking Aspen	Trace	10 - 20 feet	Sapling									
Balsam Fir	High	10 - 20 feet	Sapling									
Red Maple	Medium	>20 feet	Sapling									
83	6220 - Alder/willow	Nonstocked	4.9		Unspecified	No	Majority is dominated by lowland shrub types. The skinny eastern tail extends into what formally belonged to Stand 94 (LM6). The east tail is a combination of lowland shrub and aspen/conifer (BF, some Spruce/NWC). This drainage(s) extends further east through Stands 94/91 (though these stands are forested).					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Willow spp.	Medium	10 - 20 feet	Tall Shrub	
								Michigan Holly	Low	5 - 10 feet	Tall Shrub	
								Ninebark	Low	5 - 10 feet	Tall Shrub	
Tag Alder	Full	10 - 20 feet	Tall Shrub									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																			
84	4134 - Aspen, Spruce/Fir	Poletimber Well	26.1	43	81-110	N/A	Aspen/Fir dominant, unsure of exact past harvest history. Other than scattered RM/PB throughout, the other minor species begin to appear along the southern boundary with Stand 76. Stand coded as 'Sap Size' last YOY. Has now converted to generally overall small pole sizes. Some larger DBH's here/there, plenty of saps remain too. Southern areas hold the 'low ground'. BA swings= 140,90,90,90,70,160 (106avg).																																																																																			
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85	4319 - Mixed Upland Forest	Poletimber Well	46.0	36	51-80	N/A	Fir/Aspen and/or Aspen/Fir dominant w/other species poking around depending on location. Overall diameters running small pole yet can move quickly into sap DBH's 10-20ft this way/that way. Stiff competition going between BF/Aspen, plus low-ground conditions, causing size variation(s). Conifer species, other than fir, start coming on stronger in west near Stand 77 (C6). Generally smaller DBH's in west too. Old/obvious ruts remain on previous skid/haul routes (from last cut). Many of these ruts were holding water/growing tag during visit. Trace log WP and Hem in areas, then RP on along west. BA swings= 100,50,30,100,70,100,80 (75avg).																																																																																			
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86	4134 - Aspen, Spruce/Fir	Poletimber Well	16.6	36	51-80	N/A	Compositionally similar to its neighbor Stand 84, though a bit younger and less Fir. Average diameter(s) similar too. Majority of stems are small pole size though stand is still transitioning (saps still common). Trace RO (small log) and PB (pole). Quite pit/moundy with obvious depressions that hold water, at least seasonally. Alder and BAM not uncommon, tended to be more of both north of Clute Rd. Some larger DBH stems surround G0 Stand 80. Also a ~1ac inclusion of older/larger pole/some log stems at west end of stand, north of Clute. Scattered residual NWC clumps north of Clute and along surrounding lowland interfaces. BA swings= 130,40,80,60,60,60 (71avg).																																																																																			
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87	4134 - Aspen, Spruce/Fir	Poletimber Well	11.1	46	111-140	N/A	Good quality aspen stand that was cut in the 1970's while under private ownership. Not a "clean" cut however as there are scattered residual red maple that weren't harvested as well as a few aspen that were left and are now large diameter. Mostly an upland stand but there are several areas of ground that appear seasonally wet (but operable) as well as inoperable wet areas at the northeast side and an east-west running drainage near the south end. Trace of basswood (log), white ash (pole), elm (pole), and XL-sized quaking aspen in the canopy. There are two massive white pine (30"+ DBH) and one red pine in the northeast part of the stand, a few cedar (log/pole) can be found in this area as well. Average ba/acre from 10 plots = 123 square feet.																																																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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88	6112 - Lowland Aspen	Poletimber Poor	7.7	94	1-50	N/A	Transition area between marsh and cedar swamp.
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89	3303 - Mixed Low Density Trees	Nonstocked	8.6		Unspecified	No	<p>- In addition to the species listed above, this stand contains the following species at low/medium density and even distribution: WP (shrubby, L/P/XL/S), BlkChrry (P/S), Crab Apple, 10-20ft (maybe Siberian?).</p> <p>- Spruce and Fir (P/S/L), WP and some RM/PB (larger/wolffy) consistent in perimeter locations.</p> <p>- Rolling/sloping terrain present. Tree density increases in north, then slopes down into lower ground. A prominent pocket of wet/Alder in north. A few old ruts observed a few areas.</p>
Sub-Canopy Species		Density	Avg. Height	Size			
Bracken Fern		Medium	Unspecified	Non-Wood			
Sweet Fern		Medium	< 5 feet	Tall Shrub			
Tag Alder		Low	10 - 20 feet	Tall Shrub			
Blackberry/Raspberry		Low	< 5 feet	Tall Shrub			
Common Lowbush Blueberry		Low	< 5 feet	Tall Shrub			
Honeysuckle (spp.)		Low	5 - 10 feet	Tall Shrub			
Mixed Grasses		High	Unspecified	Non-Wood			

90	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	18.4	94	81-110	N/A	<p>- G.Rekow: Stand was set-up and sold to Randy Nash in the sale Camp Ridge Aspen SBW (#53-018-16-01) but was never cut by Nash and eventually dropped.</p> <p>- JSP, '24: Fairly impressive amount of pole/sap Fir snap/blowdown in many areas of the stand. Might be from the storm/high wind event experienced in July '19. This essentially 'thinned' areas of the stand (kind of neat). Fir seedlings reclaiming some areas. Stand still holds a decent component of seemingly healthy BF. Extensive PB presence and a few monster/wolf QA (a few RM) too. Stand more/less surrounded by seasonally low ground/some drainages. Low ground is more pronounced along east/north boundaries. North 1/3rd and south tail are atop a slight ~ridge/high point. South center drops down a bit/DBH's decrease a little but remains dry. Redline from '16 still quite visible. Some line dips into drainage in N.E.. Trace WP (xlog), RP (pole) and red oak (log, just outside redline in S.W.). BA swings= 90,150,80,90,90,90,60 (92avg).</p>
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	5	Log/XLog/Pole	16	
Sugar Maple	2	Pole	8	
Quaking Aspen	20	Log/XLog/Pole	16	
Balsam Fir	18	Pole/Log/Sap	8	
Paper Birch	25	Log/Pole	11	94
Red Maple	25	Log/Pole/XLog	12	94
White Spruce	5	Log/Pole/XLog	11	

Sub-Canopy Species	Density	Avg. Height	Size
Striped Maple	Low	10 - 20 feet	Sapling
Balsam Fir	Medium	>20 feet	Sapling
Red Maple	Low	>20 feet	Sapling
Balsam Fir	Medium	< 5 feet	Seeding
Beech	Trace	5 - 10 feet	Sapling
Sugar Maple	Trace	>20 feet	Sapling

91	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	22.1	121	111-140	N/A	<p>Ufta... Interesting/complicated stand. Some obvious low then a substantial amount of intermittent and/or seemingly upland though growing common low ground species throughout. Of note, nearly complete lack of snow in winter '23/'24, so stand was not holding much melt water during late Feb visit. Pit/mounds common/frequent. Several areas of pronounced snap/blowdown primarily affected BF and did not appear terribly recent. Similar to adjacent Stand 94, obvious signs of past management (cut stumps) throughout. Unsure of exact past management (some deciduous removal + cedar post-harvest?, or 'logging era' perhaps?). Swathes of younger stems common, more so in south 1/2, radiating out/around from Stand 94. NWC is swathy/clumpy in nature and is generally larger/taller and for sure older. Difficult to decide on overall size class, went with Log though this size is not always consistent. Can-closure variable too, especially when moving into, then out of snap/blowdown locations. I'd encourage a visit to this stand, could well be Up w/Low. Trace WP (XL/Legacy), BTA (log along Clute), BW (L/XL) and YB (small log). BA swings= 0,180,100,70,200,120,150,120,150 (121avg).</p>
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log/Pole/XLog	14	
Northern White Cedar	40	Log/Pole/XLog	12	121
Quaking Aspen	15	Log/Pole/XLog	15	
Paper Birch	5	Pole/Log	9	
White Spruce	3	Log/XLog/Pole	15	
Balsam Fir	12	Pole/Sapling	7	50
Black Spruce	3	Pole/Sapling	7	
Balsam Poplar	12	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	10 - 20 feet	Sapling
Paper Birch	Low	>20 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Poplar	Low	5 - 10 feet	Sapling
Black Ash	Low	5 - 10 feet	Sapling
White Spruce	Trace	< 5 feet	Seeding
Beech	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
92	4134 - Aspen, Spruce/Fir	Sapling Medium	12.3	26	1-50	N/A	McDonald '14: Some browse damage and spotty regeneration. JSP, '24: Stand is a two-part polygon separated by Stand 97 (U0). Stocking is quite patchy in west 1/2. Some minor low ground in southern portion of west 1/2. Conifer component generally stronger in west too. Stocking (can-closure) improves in east 1/2, aspen is more prolific w/areas that have converted to poles. More maple stems (RM/HM) present in east too. Fir (and some spruce) continue to populate east 1/2 of north polygon. Trace WP (one xlog) in east along Forest Rd. Ran out of room in canopy list to include low percentage species also present in canopy (WO, WhtSprc, PB, BC, IW).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		2	Sapling/Pole	3		Willow spp.		Low	10 - 20 feet	Sapling	
Sugar Maple		5	Sapling/Pole	3		Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub	
Balsam Poplar		4	Sapling/Pole	3		White Spruce		Low	Variable	Sapling	
Balsam Fir		24	Sapling/Pole	3		White Oak		Trace	10 - 20 feet	Sapling	
Red Maple		10	Sapling/Pole	3		Paper Birch		Low	10 - 20 feet	Sapling	
Quaking Aspen		55	Sapling/Pole	3	26	Red Osier Dogwood		Trace	< 5 feet	Tall Shrub	
						Ironwood		Low	10 - 20 feet	Sapling	
						Tag Alder		Low	10 - 20 feet	Tall Shrub	
						Honeysuckle (spp.)		Low	5 - 10 feet	Tall Shrub	
						Black Cherry		Low	10 - 20 feet	Sapling	
93	4319 - Mixed Upland Forest	Sawtimber Well	1.6	101	51-80	N/A		Small island in "Marsh 16"			
94	6130 - Fir, Aspen, Maple	Poletimber Well	3.7	43	Unspecified	N/A		Initially its own stand during '14 inventory. Was going to merge into Stand 134, and then Stand 91. Decided to leave as its own stand. Unsure of the past management here, looks likely that a species removal occurred leaving most NWC. Removal likely occurred within areas of Stand 91 too. This particular stand is fairly dense with younger aspen and fir with some scattered/large residual NWC. Seasonal drainage (that likely flows into Stand 83) present through southern area. Some obvious stumps from previous harvest still present, stumps likely cedar. BA's generally range 60-90, except higher were NWC is present.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Balsam Fir		30	Pole/Sapling	5		Red Maple			Low	10 - 20 feet	Sapling
Paper Birch		3	Pole	7		Tag Alder			Low	5 - 10 feet	Tall Shrub
Red Maple		5	Pole/Sapling	6		Balsam Fir			Medium	10 - 20 feet	Sapling
Balsam Poplar		15	Pole/Log/Sap	8							
White Spruce		3	Pole/Log	8							
Northern White Cedar		8	Log/Pole/XLog	12	120						
Quaking Aspen		36	Pole/Sapling	6	43						
95	4319 - Mixed Upland Forest	Sawtimber Well	1.8	101	81-110	N/A	Small island in "Marsh 16"				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		18	Pole/Sap/Log	9		White Pine		Low	5 - 10 feet	Sapling	
White Pine		30	Log/Pole/XLog	16		Balsam Fir		Low	5 - 10 feet	Sapling	
Red Maple		10	Pole/Log	9							
Quaking Aspen		36	Log/XLog/Pole	15	101						
Balsam Poplar		6	Log/Pole	12							
96	6223 - Inundated Shrub Swamp	Nonstocked	49.8		Unspecified	No	Water levels controlled by beavers. Some years are more active than others.				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
97	3303 - Mixed Low Density Trees	Nonstocked	2.4		Unspecified	No	Northern segment most recently used to haul wood out of Stand 17 (N0), Compartment 21. That area is somewhat less dense with mixed tree species. There is a forested 'island' in north segment. The southern finger is more densely populated with a variety of deciduous and conifer species. Sizes range from sapling the pole/log. A small component of oak (red and white) present throughout the stand. As well as invasive honeysuckle.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub	
								Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub	
								Bracken Fern	Medium		Non-Wood	
Mixed Grasses	Medium	Unspecified	Non-Wood									
98	6121 - Tamarack	Poletimber Medium	6.7	70	81-110	N/A	More/less Larch dominant until reaching the northern finger. Much greater species mixture in north (conifer/some decid) and smaller overall diameters. West half has higher canopy closure (75-100%), east half begins to 'open-up' (50-75%). Overall closure averages is about 75%. Broad range of Larch DBH's present. Pole sizes tended to be more common. Stand definitely holds/moves water depending on season. Consistent presence of Tag Alder. BA swings= 70,150,70,100,70 (92avg).					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern White Cedar	4	Pole/Log	9	
								Tamarack	65	Pole/Log/Sap	8	70
								Balsam Fir	14	Pole/Sapling	6	
White Spruce	4	Log/Pole	12									
Red Maple	3	Pole/Sapling	7									
Black Spruce	10	Pole/Sapling	7									
Sub-Canopy Species	Density	Avg. Height	Size									
Tamarack	Medium	5 - 10 feet	Sapling									
Black Spruce	Low	5 - 10 feet	Sapling									
Dogwood (spp.)	Low	< 5 feet	Tall Shrub									
Tag Alder	High	5 - 10 feet	Tall Shrub									
White Pine	Trace	10 - 20 feet	Sapling									
99	4139 - Aspen, Mixed Deciduous	Poletimber Well	17.0	56	111-140	N/A	McDonald '14: Long-stretch of aspen/hardwood along Centerline Rd for about a half mile. With all the other aspen being cut in this compartment, this stand will do well to wait one more cutting period. JSP, '24: Stand 101 and the portion of Stand 69 (Comp 24) west of Centerline both previously part of this stand. Majority of stand on a west facing/gradual slope that moves down toward adjacent wet and/or seasonally wet stands. Aspen in transition to log sizes and/or is log dominant in various locations (could call stand log sized). Consistent BF (P/S) snap in western locations, this is also the case in Stands 90,91,94 (likely from '19 high-wind event). Consistent HM/RM advanced regen, bordering on 'high' density in areas. Though the poorer quality soils don't seem to help these stems 'age' well. Trace WO (P), RO (L), BW (P/S), and WP (L/XL). BA swings= 100,70,170,160,70,160,140 (124avg).					
								Canopy Species	% Cover	Size Class	DBH	Age
								Paper Birch	4	Pole/Log	7	
								Bigtooth Aspen	5	Log/Pole	12	
								White Spruce	3	Pole/Log	9	
Sugar Maple	10	Pole/Sap/Log	7									
Balsam Fir	15	Pole/Sap/Log	7	56								
Red Maple	15	Pole/Sap/Log	8									
Quaking Aspen	48	Pole/Log	9	56								
Sub-Canopy Species	Density	Avg. Height	Size									
Paper Birch	Low	>20 feet	Sapling									
Sugar Maple	Medium	>20 feet	Sapling									
Balsam Fir	Medium	10 - 20 feet	Sapling									
Striped Maple	Trace	>20 feet	Sapling									
Basswood	Trace	10 - 20 feet	Sapling									
Red Maple	Medium	>20 feet	Sapling									
Black Cherry	Low	>20 feet	Sapling									
Ironwood	Low	10 - 20 feet	Sapling									
Beech	Low	10 - 20 feet	Sapling									
100	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	10.9	98	111-140	N/A	Did not see entire stand. Portions I did see were quite wet with lumpy/clumpy stocking. Excessively wet areas were alder/shrub dominant with conifer/decid saps mixed in. Numerous standing dead aspen, providing usable snag material. Scattered large/xlog white spruce. Southwest holds a clump of conifer that distinctly shows up on infra-red imagery. I didn't make it all the way down there, believe this to be pole/log white pine.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	8	Pole/Log	8	
								White Spruce	8	Log/Pole/XLog	14	
								Balsam Fir	16	Pole/Sapling	7	
Northern White Cedar	38	Pole/Log/XLog	9	98								
Black Spruce	8	Pole/Sapling	7									
Quaking Aspen	14	Log/Pole/XLog	14									
Balsam Poplar	4	Log/Pole	12									
Sub-Canopy Species	Density	Avg. Height	Size									
Black Spruce	Low	Variable	Sapling									
Balsam Poplar	Low	10 - 20 feet	Sapling									
White Spruce	Low	5 - 10 feet	Sapling									
Balsam Fir	Medium	Variable	Sapling									
White Pine	Trace	10 - 20 feet	Sapling									
Tag Alder	Medium	5 - 10 feet	Tall Shrub									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
101	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	5.0	56	111-140	N/A	Previously part of Stand 99. Stand sits atop a portion of higher ground with better soils. I don't know the past harvest history but very likely final harvested with Stand 99 when last cut. Stand holds/regenerated to a heavier component of maple (both RM/HM). Aspen is still very common in the canopy, though maple is a bit more dominant. Also, a lot of advanced/single stem maple regen present throughout. Maple (both poles/saps) will likely develop into decent/marginal quality stems based upon appearance of adjacent 'M' stands. BA swings= 110,130,100 (113avg).				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		25	Pole/Sapling	7		Paper Birch		Low	>20 feet	Sapling	
Bigtooth Aspen		4	Log/Pole	12		Beech		Low	10 - 20 feet	Sapling	
Balsam Fir		3	Pole/Sapling	6		Beech		Low	>20 feet	Pole	
Quaking Aspen		33	Log/Pole	10	56	Balsam Fir		Low	>20 feet	Sapling	
Sugar Maple		35	Pole/Sapling	7	56	Sugar Maple		High	>20 feet	Sapling	
						Red Maple		High	>20 feet	Sapling	
						Ironwood		Low	10 - 20 feet	Sapling	
102	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	21.4	79	111-140	N/A	Mixed species stand dominated by red maple. Most paper birch and some of the red maple are good quality. Aspen is mostly at the far northern end of the stand. There are some massive white pine in this stand, a few over 40" DBH. Clumps of hemlock can be found throughout, often near the large white pine. Portions of this stand likely had a partial harvest in the 1970's while under private ownership, removing mostly aspen and fir. As a result there is a second age class of younger aspen and fir, although it is not very common in the stand. Average ba/acre from 10 plots = 126 square feet. Scattered pockets of wet ground can be found throughout the stand, particularly at the north and southeast ends (see site conditions layer for approximate locations). No management at this time.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		40	Pole/Log	9	79	Serviceberry (Juneberry)		Trace	Variable	Tall Shrub	
Paper Birch		15	Log/Pole	12		Tag Alder		Trace	Variable	Tall Shrub	
Quaking Aspen		14	Log/Pole/XLog	13	79	Beech		Trace	Variable	Sapling	
Balsam Fir		22	Pole	7		Red Maple		Trace	>20 feet	Sapling	
White Pine		3	Log/XLog/Pole	14		Balsam Fir		Full	Variable	Sapling	
Balsam Poplar		2	Log/Pole	12							
Northern White Cedar		1	Log/Pole	10							
Bigtooth Aspen		1	Log/Pole	12							
103	4319 - Mixed Upland Forest	Poletimber Well	7.6	84	111-140	N/A	Mixed species stand of moderate quality. The ground is very "hummocky" throughout and is a mix of upland and lowland, in somewhat of a ridge/swale type orientation that runs northwest/southeast, with a wet swale running through the middle and ending in a wet pocket with cedar and hemlock at the northwest corner. Trace of balsam poplar (pole) and basswood (log) in the canopy. Average ba/acre from 7 plots = 114 square feet. Some of this stand likely had a partial harvest in the 1970's while under private ownership, which is evidenced by some younger aspen and fir scattered throughout.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		3	Pole/Log	8		White Ash		Trace	>20 feet	Sapling	
Quaking Aspen		14	Log/Pole	12	46	Michigan Holly		Low	5 - 10 feet	Tall Shrub	
White Pine		5	XLog/Log/Pole	20		Red Maple		Trace	>20 feet	Sapling	
Red Maple		37	Pole/Log	9	84	Black Spruce		Trace	Variable	Sapling	
Red Pine		1	XLog/Log	19		White Pine		Trace	Variable	Sapling	
Hemlock		5	Pole/Log	8		Tag Alder		Trace	10 - 20 feet	Tall Shrub	
Paper Birch		8	Log/Pole	10		Balsam Fir		High	Variable	Sapling	
Northern White Cedar		6	Pole/Log	9							
Balsam Fir		21	Pole/Log	8							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																											
104	4134 - Aspen, Spruce/Fir	Sawtimber Well	12.3	57	141-170	N/A	Mature aspen stand with quite a bit of diversity in the overstory. Aspen quality is mostly good however there are some scattered poor quality aspen that are larger diameter and appear to be older, with lots of rot and cavity development. Terrain is mostly upland in the east half of the stand, while the west half has quite a bit of wet lowland. A small inclusion of cedar is present at the far west end of the stand. Red pine is mixed in along the edges of the adjacent plantation, with most of it being poor quality, with deformed crowns from previous porcupine damage. Trace of elm (pole) in the overstory. Average ba/acre from 14 plots = 164 square feet.																																																																											
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105	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	6.1	121	111-140	N/A	Very wet with a lot of past and recent blowdown. Inconsistent stocking as a result of blowdown, until reaching the east boundary against private. Ground is a bit higher in east, has provided less potential for blowdown. A lot of black ash saplings and a few standing dead ash observed (log size). Ash saplings not healthy, dealing with repeated EAB waves.																																																																											
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106	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	10.4	65	51-80	N/A	Generally a poor-quality and only moderately stocked stand. More upland along the north and south edges, but the interior is very wet and appears to be an east-west running drainage. Most of the ground in the stand is "hummocky", suggesting even some of the drier areas likely hold water in the spring. A few scattered large diameter aspen (18"+ DBH) in the wettest areas. Trace of hemlock (pole/log). Average ba/acre from 5 plots = 78 square feet. No management due to the wet soils.																																																																											
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107	613 - Lowland Mixed Forest	Poletimber Well	0.3	65	Unspecified	N/A	Island within a large, inundated shrub swamp. Made a remote call guessing this is an lowland mixed stand. As vague as possible, you're welcome.																																																																											



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108	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.8	58	111-140	N/A	Mixed species stand that is mostly upland although there are some areas of wetter ground that would make any harvest in the stand impractical. One very wet area with lowland shrubs in the understory splits the upland portion of the stand north of Clute Road into two sections. The northeastern finger of the stand also becomes very wet. South of the road is mostly upland except for some pockets of wet ground next to Clute Road that have filled in with younger timber. Nice black spruce, there is likely some white spruce mixed in as well. A few massive white pine are present in the stand (30"+ DBH). A couple of scattered red oak saplings, two of which are close to poletimber size. Average ba/acre from 6 plots = 112 square feet.																																																																								
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109	6229 - Mixed lowland shrub	Nonstocked	7.5	0	Unspecified	413 - Aspen	Stand cut in the winter of 2019-20 in the sale Drum Solo Aspen. This stand is part of a larger Payment Unit that consists of two more stands (#50 & #109). The original plan was to cut the entire Payment Unit that winter but warm winter conditions resulted in the equipment having to be pulled off-site. Every subsequent winter since that time has been too warm to harvest the remainder. Since that time this stand has failed to regenerate and has essentially been converted to a lowland shrub stand. It appears the water table has risen as a result of the harvest. Most of the stand is lowland except for some upland at the east/southeast side. The only regeneration that was observed was mostly in that area. 5 1/100th acre regen survey plots were measured, only 1 had any observable regeneration, the rest did not. The 1 plot with regeneration had 6 balsam poplar, 3 feet in height. As of now, this stand is a regeneration failure.																																																																								
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110	6122 - Black Spruce	Poletimber Well	2.6	46	81-110	N/A	Black spruce bog. A lot of small diameter stems at this point. Average ba/acre from 4 plots = 88 square feet. No management due to the wet, sensitive soils.																																																																								
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111	6122 - Black Spruce	Poletimber Well	1.0	89	81-110	N/A	Small black spruce bog with sphagnum and leatherleaf at the understory. Good quality spruce but a lot of small diameter trees. Average ba/acre from 2 plots = 100 square feet. No management.																																																																								
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112	4319 - Mixed Upland Forest	Poletimber Well	2.6	58	81-110	N/A	Mixed species stand that is primarily upland but does transition to lowland along the edges. There is also a small wetland inclusion at the south edge in the central part of the stand. Decent timber quality but quite a few smaller diameter trees. Although rare, there are some massive white pine in the stand including 2 on the north edge that are greater than 30" DBH. Average ba/acre from 4 plots = 93 square feet. No management due to the small acreage and the fact that this stand is isolated and surrounded on 3 sides by lowland.																																																																																											
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113	623 - Emergent Wetland	Nonstocked	1.5	0	Unspecified	No	Emergent wetland with signs of past beaver activity on edges of surrounding Stand (84). Standing dead ash saplings present and not much else but some scattered spruce, fir, tag alder and cattail.																																																																																											
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114	6112 - Lowland Aspen	Poletimber Well	9.3	35	81-110	N/A	Small strip of aspen and conifers that sits on a mix of upland and lowland soils. The ground is mostly upland on the south edge adjacent to the wildlife opening but becomes wet as you move north. The northeast part of the stand in particular becomes very wet with some areas of thick holly and less overstory stocking. The tamarack and black spruce component can be found in this area. Well developed shrub layer throughout the stand, especially nannyberry. A thin strip of larger diameter trees can be found in some areas along the south edge. Trace of red pine (log) and red maple (log) in the overstory. Average ba/acre from 7 plots = 83 square feet. Possibly ready for a treatment next entry, exclude all wet areas.																																																																																											
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115	6120 - Lowland Cedar	Poletimber Well	4.2	84	111-140	N/A	Swamp conifer stand that is generally low quality and very wet. The only exception is the southwest part of the stand which is a little drier and has better quality. Most cedar is in decline throughout the stand except for the southwest part. Stocking declines as you move to the east or northern edges. Thick lowland shrub component in most places of the stand. Average ba/acre from 3 plots = 120 square feet. Too wet for management.																																																																																											
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116	4130 - Aspen	Sawtimber Well	13.6	65	111-140	N/A	Good quality aspen stand. Some variation in aspen diameters but most areas tend to be an A9. Mostly upland except for along the west edge which slopes down to seasonally wet ground. An elevated ridgeline is present in the middle of the stand. Trace of black cherry (pole) and white pine (log/xlog) in the overstory. Average ba/acre from 7 plots = 117 square feet. No current access to this stand. A new road will have to be built, likely through stand 49 to the west. Hold one entry and treat with stand 49 to the west if it is ready to be managed.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		15	Pole/Log	8		Beech		Low	Variable	Sapling	
Red Maple		9	Pole/Log	8		White Spruce		Trace	Variable	Sapling	
Northern White Cedar		1	Pole/Log	9		Tag Alder		Trace	10 - 20 feet	Tall Shrub	
White Spruce		3	Pole/Log	8		Black Cherry		Trace	Variable	Tall Shrub	
Paper Birch		2	Pole/Log	8		Serviceberry (Juneberry)		Trace	Variable	Tall Shrub	
Bigtooth Aspen		10	Log/Pole	10		Red Oak		Trace	Variable	Sapling	
Quaking Aspen		60	Log/Pole	10	65	Red Maple		Medium	>20 feet	Sapling	
						Balsam Fir		Medium	Variable	Sapling	
117	6112 - Lowland Aspen	Poletimber Well	3.9	35	81-110	N/A	Lowland aspen stand that is on wet, inoperable ground except for the far northern end. Nice component of elm in the south end of the stand. Aspen diameters tend to vary, there are a few areas with stems approaching sawtimber size. Average ba/acre from 6 plots = 97 square feet. Too wet to harvest.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		25	Pole/Sap/Log	6		Balsam Fir		Medium	Variable	Sapling	
White Spruce		2	Pole	7		Black Ash		Medium	10 - 20 feet	Sapling	
Quaking Aspen		60	Pole	7	35	Tag Alder		High	Variable	Tall Shrub	
Balsam Poplar		10	Pole	8		American Elm		Low	Variable	Sapling	
Rock Elm		1	Pole	6		Nannyberry		Medium	5 - 10 feet	Tall Shrub	
American Elm		2	Pole	6		Black Cherry		Trace	Variable	Tall Shrub	
						Serviceberry (Juneberry)		Trace	Variable	Tall Shrub	
118	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	4.2	86	141-170	N/A	Overmature, large diameter aspen with fir and cedar underneath. Much of the aspen looks close to death and are good wildlife trees with lots of rot and cavities. Cedar is common in the south half of the stand and in the north half can be found mostly along the east side. Wet ground follows a similar pattern as the cedar, as the south half is mostly wet while the north half is drier, with only some seasonally wet ground on the east side. Trace of red pine (log/xlog) and paper birch (pole). Average ba/acre from 5 plots = 154 square feet. Do not manage due to the cedar component.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Spruce		1	Pole	6		Tag Alder		Low	10 - 20 feet	Tall Shrub	
Quaking Aspen		37	Log/Pole/XLog	14	86	Balsam Fir		High	Variable	Sapling	
White Pine		3	Log/XLog	17		Michigan Holly		Trace	5 - 10 feet	Tall Shrub	
Northern White Cedar		32	Pole/Log	8		White Ash		Trace	Variable	Sapling	
Red Maple		4	Pole/Log	9							
Balsam Fir		23	Pole/Log	8							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
119	6112 - Lowland Aspen	Sawtimber Poor	2.1	57	1-50	N/A	Very wet, poorly-stocked stand with a thick component of lowland shrubs. Trace of cedar (log/pole) and white spruce (pole) in the canopy. Average ba/acre from 3 plots = 47 square feet. Some of the red maple may actually be silver maple, make a site visit during leaf on conditions. No management due to the wet soils, there is standing water in many places.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	8	Pole	7		Black Cherry	Trace		Variable	Tall Shrub
Balsam Poplar	7	Pole/Log	8		American Elm	Low		Variable	Sapling
American Elm	3	Pole	6		Tag Alder	High		10 - 20 feet	Tall Shrub
Red Maple	30	Pole/Log	8		Red Maple	Low		>20 feet	Sapling
Quaking Aspen	50	Log/Pole	13	57	Michigan Holly	Medium		5 - 10 feet	Tall Shrub
Black Cherry	2	Pole	6		Willow spp.	Low		5 - 10 feet	Tall Shrub
					Black Ash	Low		10 - 20 feet	Sapling
					American Highbush Cranberry	Trace		10 - 20 feet	Tall Shrub
					Balsam Fir	Low		Variable	Sapling
					Nannyberry	Trace		Variable	Tall Shrub
120	6220 - Alder/willow	Nonstocked	5.2	0	Unspecified	No		Wet stand with a near total coverage of alder. Some of the alder is quite large. Some pockets of trees along the west edge. A small stream passes north/south through the west part of the stand.	
Sub-Canopy Species	Density	Avg. Height	Size						
Black Cherry	Trace	>20 feet	Tall Shrub						
Quaking Aspen	Low	>20 feet	Log						
Red Maple	Trace	>20 feet	Log						
Red Maple	Low	Variable	Sapling						
Nannyberry	Low	Variable	Tall Shrub						
Balsam Fir	Trace	>20 feet	Pole						
Tag Alder	Full	>20 feet	Tall Shrub						
American Elm	Trace	>20 feet	Log						
121	6112 - Lowland Aspen	Poletimber Medium	5.3	35	51-80	N/A	Majority lowland stand with a few upland ridges in the south half and at the far northern end. A very wet drainage with minimal tree cover and a heavy alder component runs north/northwest through the middle part of the stand. Another very wet pocket filled with alder is present at the south end. Sporadic stocking in many areas of the stand with the highest BAs being in the upland areas. Average ba/acre from 6 plots = 65 square feet. Clearcut in 1988-89 in the sale Clute Cut Aspen (#53-014-86), bought by Kapalla Logging. No management due to the wet ground.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Poplar	5	Pole	8		Paper Birch	Trace		>20 feet	Sapling
Paper Birch	1	Pole	8		Nannyberry	Trace		5 - 10 feet	Tall Shrub
Balsam Fir	28	Pole	7		Black Cherry	Low		Variable	Tall Shrub
Quaking Aspen	43	Pole	7	35	Balsam Fir	Medium		Variable	Sapling
Black Cherry	3	Pole	6		Tag Alder	Medium		10 - 20 feet	Tall Shrub
Red Maple	13	Pole/Sapling	5		Red Maple	Medium		>20 feet	Sapling
White Spruce	7	Pole	8		Black Ash	Trace		5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
122	429 - Mixed Upland Conifers	Sapling Medium	6.1	26	Immature	N/A	Mixed conifer stand of variable stocking. This stand was cut in 1998, at the same time as stand 4 to the south, in the sale Loon-E-Tune Aspen (#53-016-96, Georgia Pacific). Everything was cut except for white pine, cedar, and hemlock. The east half of the stand is mostly upland and is where more of the white pine is located. There are many areas of poor stocking in this half and a lot of the smaller white pine is heavily deformed from weevil damage. The west half of the stand transitions to lowland and has more of the fir and BAM component. Trace of XL-sized residual white pine and pole/sap jack pine. Average ba/acre from 5 plots = 64 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		33	Sapling/Pole	4	26	White Spruce		Low	5 - 10 feet	Sapling	
Northern White Cedar		3	Log	12		Ironwood		Trace	10 - 20 feet	Sapling	
Quaking Aspen		5	Pole	8		Tag Alder		Low	10 - 20 feet	Tall Shrub	
Balsam Poplar		18	Sapling/Pole	4		Red Maple		Trace	>20 feet	Sapling	
White Spruce		13	Sapling/Pole	4		Balsam Poplar		Low	10 - 20 feet	Sapling	
Balsam Fir		28	Sapling/Pole	4		Black Cherry		Trace	Variable	Tall Shrub	
						White Pine		Low	5 - 10 feet	Sapling	
						Balsam Fir		Medium	10 - 20 feet	Sapling	
123	4319 - Mixed Upland Forest	Sapling Well	3.4	35	111-140	N/A		Very dense stand of conifer and poplar species. This stand was cut at the same time as adjacent stands 3 to the west and 124 to the east but diameter growth has been much slower than those stands. I'm guessing the dense stocking is the reason? A very wet drainage is present on the east edge of the stand. The remainder is mostly upland although there are a few areas that may be seasonally wet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Black Spruce		2	Sapling/Pole	3							
White Ash		1	Sapling	3							
Balsam Fir		40	Sapling/Pole	3	35						
White Spruce		11	Sapling/Pole	3							
Balsam Poplar		24	Sapling/Pole	4							
Quaking Aspen		22	Sapling/Pole	4	35						
124	4134 - Aspen, Spruce/Fir	Poletimber Well	8.0	35	81-110	N/A	Fully-stocked stand of primarily aspen and fir. Clearcut in 1989 in the sale Clute Cut Aspen (#53-014-86, Kapalla Logging). Mostly upland except for along the west edge. Diameters tend to decline dramatically as you move south and west in the stand, not sure of the reason. Trace of tamarack (pole/sap). Average ba/acre from 6 plots = 110 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		18	Pole/Sapling	6		Nannyberry		Trace	5 - 10 feet	Tall Shrub	
White Pine		2	Pole/Sapling	6		White Pine		Trace	Variable	Sapling	
Black Spruce		1	Pole	6		White Spruce		Low	Variable	Sapling	
Balsam Poplar		5	Pole/Sapling	6		Balsam Fir		High	Variable	Sapling	
White Spruce		5	Pole/Sapling	6		Tag Alder		Low	10 - 20 feet	Tall Shrub	
Quaking Aspen		69	Pole/Sapling	7	35	Serviceberry (Juneberry)		Trace	Variable	Tall Shrub	
						Black Cherry		Trace	>20 feet	Tall Shrub	
						Red Maple		Trace	>20 feet	Sapling	
125	4134 - Aspen, Spruce/Fir	Poletimber Well	5.4	57	171-200	N/A	Nice stand of aspen. Diameters vary somewhat as there are some areas more like an A9. There are also a handful of much older aspen scattered throughout, most greater than 18" DBH, with lots of rot and cavities. Mostly an upland stand but the ground does become wetter as you move to the south and east edges. Trace of basswood (log), red oak(log), and black spruce (pole). Average ba/acre from 6 plots = 183 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		60	Pole/Log	9	57	Balsam Fir		High	Variable	Sapling	
Paper Birch		1	Pole	8		White Pine		Trace	Variable	Sapling	
Balsam Fir		25	Pole/Log	8		Black Cherry		Trace	>20 feet	Tall Shrub	
Northern White Cedar		2	Log/Pole	13		White Spruce		Trace	Variable	Sapling	
Red Pine		1	Pole/Log	9		Tag Alder		Trace	Variable	Tall Shrub	
Red Maple		6	Log/Pole	11							
White Spruce		5	Pole/Log	8							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
126	3302 - Low Density Conifer Trees	Nonstocked	0.7	0	Unspecified	No	Brief/narrow upland corridor between lowland. Tree species generally along perimeter, most as pole/sap and a few logs (NWC). Conifer species more common and include Fir, Spruce, WP, NWC, RP (saw 1). Some deciduous present, RM, PB, a couple red oak and one white oak (sap). Past beaver activity observed. Kind of a neat little spot.

127	3302 - Low Density Conifer Trees	Nonstocked	1.3	0	Unspecified	No	Narrow upland ridge located between low and/or transitional ground. Previously used as a Forest Rd originating off Clute. What the kids might call a 'Mosiatic'. Mixture of forested then non-forested, jammed into a narrow location. General mix of pole/some log species. Including: WP (L/P), JP (P/L), BF (P/S), BlkSprc (P/S), QA (S/P), RM (S), RP (L) and saw one RO/XO (L). Connects to larger opening, Stand 89. Could call an MC4/5.
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
128	429 - Mixed Upland Conifers	Poletimber Poor	1.6	70	1-50	N/A	Semi-open, sandy ridgeline that has been filling in through the years with mixed conifers. Poorly-stocked in most areas. Found 1 single red oak sapling in the middle of the stand. Average ba/acre from 5 plots = 50 square feet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Log	9		Red Pine	Trace	10 - 20 feet	Sapling
Balsam Fir	16	Pole	6		White Pine	Low	Variable	Sapling
Black Spruce	14	Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling
Red Pine	27	Log/Pole/XLog	12	70	Black Spruce	Low	5 - 10 feet	Sapling
Quaking Aspen	3	Pole	7					
White Pine	20	Pole/Log/XLog	8					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
129	6229 - Mixed lowland shrub	Nonstocked	0.8		Unspecified	No	Heavy mix of lowland shrubs. Very wet stand.

Sub-Canopy Species	Density	Avg. Height	Size
Michigan Holly	High	10 - 20 feet	Tall Shrub
Red Maple	Trace	>20 feet	Sapling
Tag Alder	High	Variable	Tall Shrub
Balsam Fir	Trace	Variable	Sapling
Red Maple	Trace	>20 feet	Pole
Willow spp.	Low	Variable	Tall Shrub
Paper Birch	Trace	>20 feet	Pole
Balsam Fir	Trace	>20 feet	Pole
Paper Birch	Trace	>20 feet	Sapling
Quaking Aspen	Trace	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
130	6112 - Lowland Aspen	Sawtimber Well	6.2	65	111-140	N/A	Lowland aspen stand that is generally good quality with a lot of large diameter trees. Stocking is somewhat variable with a few areas of low BAs. Very wet site, with the exception of some small slivers of upland along the south edge. Heavy alder component in many places. Standing water along the west edge with cattails and sedges in the understory. Heavily browsed red-osier dogwood, most under 2 feet tall. Average ba/acre from 5 plots = 122 square feet. Lots of grouse in the stand at the time of inventory. Too wet to support harvesting equipment, a non-commercial treatment may be a good option here.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size		
Northern White Cedar		1	Log/Pole	11		Red Maple		Low	Variable	Sapling		
Quaking Aspen		75	Log/Pole	13	65	Balsam Fir		Low	Variable	Sapling		
Balsam Fir		18	Pole/Log	8		Red Osier Dogwood		Medium	< 5 feet	Tall Shrub		
Red Maple		6	Pole	6		White Spruce		Trace	5 - 10 feet	Sapling		
						Tag Alder		High	>20 feet	Tall Shrub		
						Beech		Trace	5 - 10 feet	Sapling		
						Black Cherry		Trace	Variable	Tall Shrub		
						Nannyberry		Low	5 - 10 feet	Tall Shrub		
						Serviceberry (Juneberry)		Trace	Variable	Tall Shrub		
131	429 - Mixed Upland Conifers	Poletimber Well	1.2	63	111-140	N/A		Small mixed species stand along Clute Road. Mostly upland except for the ditch along Clute Road which has lowland shrubs in it. Average ba/acre from 3 plots = 120 square feet. Too small for management.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
Red Maple		8	Log/Pole	11		Red Maple			Trace	Variable	Sapling	
Paper Birch		3	Pole	8		Black Cherry			Low	Variable	Tall Shrub	
Quaking Aspen		24	Log	14		Balsam Fir			Medium	Variable	Sapling	
Black Spruce		2	Pole	6		Tag Alder			Medium	10 - 20 feet	Tall Shrub	
White Pine		6	Pole/Log	8		Choke Cherry			Trace	5 - 10 feet	Tall Shrub	
Balsam Fir		40	Pole	7	63	White Ash			Trace	Variable	Sapling	
White Spruce		17	Pole/Log	9		Paper Birch			Trace	>20 feet	Sapling	
						White Spruce			Trace	Variable	Sapling	
						Beech			Trace	5 - 10 feet	Sapling	
132	6130 - Fir, Aspen, Maple	Poletimber Well	4.2	63	81-110	N/A	Low, wet swale. Mix of species, some planted spruce along the edges and some may have been planted in this stand as well. More of the aspen and maple can be found at the north end of the stand. Lots of alder in the understory. Average ba/acre from 5 plots = 100 square feet. No management due to the wet soils.					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size	
Balsam Fir		39	Pole/Log	8	63	White Spruce			Trace	Variable	Sapling	
Paper Birch		1	Pole/Log	8		Balsam Poplar		Trace	Variable	Sapling		
White Pine		2	Log/XLog	16		Balsam Fir		Low	Variable	Sapling		
Red Maple		7	Log/Pole	11		Red Maple		Low	>20 feet	Sapling		
Black Spruce		2	Pole	8		Tag Alder		Full	10 - 20 feet	Tall Shrub		
Balsam Poplar		16	Pole/Log	8		Black Cherry		Low	Variable	Tall Shrub		
White Spruce		14	Pole/Log	8		White Ash		Low	>20 feet	Sapling		
Quaking Aspen		19	Log/Pole	13								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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133	3105 - Mixed Upland Herbaceous	Nonstocked	2.5		Unspecified	No				
							Sub-Canopy Species	Density	Avg. Height	Size
							White Pine	Trace	Variable	Sapling
							Red Maple	Trace	>20 feet	Pole
							Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
							Red Maple	Trace	Variable	Sapling
							Mixed Grasses	High	Unspecified	Non-Wood
							Balsam Poplar	Low	>20 feet	Pole
							Hawthorn (spp.)	Trace	10 - 20 feet	Tall Shrub
							White Pine	Trace	>20 feet	Pole
							Black Cherry	Low	>20 feet	Tall Shrub
							Bracken Fern	High	Unspecified	Non-Wood
							White Pine	Trace	>20 feet	Log
							Serviceberry (Juneberry)	Trace	Variable	Tall Shrub
							Balsam Poplar	Low	Variable	Sapling
							White Spruce	Trace	>20 feet	Log
							Red Pine	Trace	< 5 feet	Seeding
Tag Alder	Low	>20 feet	Tall Shrub							
White Pine	Trace	< 5 feet	Seeding							
Balsam Fir	Trace	>20 feet	Pole							

Some encroachment by white pine, balsam poplar and tag alder along the edges. Most alder and shrubs are on the east/southeast edge. Lots of bracken fern and quite a bit of reindeer moss. Not a managed opening.

134	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	6.0	121	111-140	N/A				
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Fairly mixed stand depending on location. Upland ground closer to Stand 89 (U0). Lower closer to low shrub Stand 83 (L0). Heavy band of larger/taller NWC on southern boundary in ~east 2/3rds of stand. North of the NWC band is a greater mixing deciduous and conifer. West ~1/3 move into more spruce/fir and becomes wetter (at least seasonally). Included a small clump of larger WP into this stand, found at east end of Stand 127 (U0). BA's variable, much higher inside the strip of NWC. BA swings= 210,100,170,80 (~140avg).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	16	Log/XLog/Pole	14		Balsam Fir	Medium	Variable	Sapling
Hemlock	2	Pole/Log	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Poplar	5	Pole/Log	9		Red Maple	Low	10 - 20 feet	Sapling
Northern White Cedar	30	Log/Pole/XLog	12	121	Paper Birch	Low	>20 feet	Sapling
Balsam Fir	10	Pole/Sapling	6		Beech	Low	5 - 10 feet	Sapling
Red Maple	10	Pole/Log/Sap	8					
White Pine	2	Log/XLog/Pole	16					
Paper Birch	5	Pole	7					
Black Spruce	10	Pole/Sap/Log	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
135	6112 - Lowland Aspen	Poletimber Well	8.9	46	111-140	N/A	Aspen stand that sits in a very wet drainage with a few slivers of upland on the north and south edges of the drainage. This stand was previously under private ownership and most of it was cut long ago, although there are some residual cedar and red maple in the stand. Average ba/acre from 5 plots = 114 square feet. Very wet soils, do not manage this stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		10	Pole/Log	9	81	Balsam Fir		High	Variable	Sapling	
Red Maple		13	Pole/Log	8		American Elm		Trace	>20 feet	Sapling	
Balsam Fir		18	Pole/Sapling	6		Tag Alder		Low	10 - 20 feet	Tall Shrub	
Paper Birch		3	Pole	6		Red Maple		Trace	>20 feet	Sapling	
Quaking Aspen		46	Pole/Log	8	46						
Balsam Poplar		10	Pole/Log	8							
136	6113 - Lowland Maple	Sawtimber Well	12.8	79	51-80	N/A		Used previous inventory data. Do not manage due to the proximity to the lake.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Balsam Fir		10	Log/Pole	10		Red Maple			Low	5 - 10 feet	Sapling
Northern White Cedar		10	Log/Pole	10		Tag Alder			Low	5 - 10 feet	Tall Shrub
Red Maple		80	Log/Pole	12	79						
137	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	6.6	67	81-110	N/A	Mixed species stand that sits on mostly wet ground. There are areas of upland along the northern edges as well as in the middle of the stand, but the remainder of the stand is wet. Portions of this stand were harvested in the 1970's while under private ownership. The east half of the stand has more of the younger aspen that regenerated following the partial harvest. Average ba/acre from 6 plots = 85 square feet. No management due to the wet soils.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Poplar		5	Pole/Log	8		Red Maple		Trace	>20 feet	Sapling	
Paper Birch		3	Pole	8		Black Spruce		Trace	>20 feet	Sapling	
Quaking Aspen		30	Pole/Log	8	46	Black Ash		Trace	Variable	Sapling	
Balsam Fir		10	Pole/Sapling	6		Tag Alder		Medium	10 - 20 feet	Tall Shrub	
White Pine		1	Pole/Log	9		Balsam Fir		High	Variable	Sapling	
Red Maple		45	Pole/Log	8	67	Michigan Holly		Low	5 - 10 feet	Tall Shrub	
Black Spruce		3	Pole	5		White Pine		Trace	Variable	Sapling	
Northern White Cedar		3	Log/Pole	12							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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138	6220 - Alder/willow	Nonstocked	5.2		Unspecified	No				
							Sub-Canopy Species	Density	Avg. Height	Size
							White Pine	Trace	>20 feet	Log
							White Spruce	Trace	Variable	Sapling
							Tag Alder	Full	>20 feet	Tall Shrub
							Balsam Fir	Trace	Variable	Sapling
							Balsam Poplar	Low	Variable	Sapling
							Black Cherry	Low	10 - 20 feet	Tall Shrub
							Balsam Poplar	Trace	>20 feet	Log
							Black Cherry	Low	>20 feet	Pole
							White Spruce	Trace	>20 feet	Log
							Hawthorn (spp.)	Trace	10 - 20 feet	Tall Shrub
							Balsam Poplar	Trace	>20 feet	Pole
							White Ash	Trace	Variable	Sapling
Balsam Fir	Trace	>20 feet	Log							
Serviceberry (Juneberry)	Low	>20 feet	Tall Shrub							

Opening created back in the 1970's that has grown to primarily tag alder. Some of the alder and serviceberry are large diameter (3-4" DBH). A few scattered conifers throughout. One apple tree was found on the southwest edge of the stand. The ground is not very wet in this stand and would be able to support equipment for shearing operations.

140	4319 - Mixed Upland Forest	Poletimber Well	2.7	45	111-140	N/A				
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	21	Pole	7		Red Maple	Trace	>20 feet	Sapling
Northern White Cedar	19	Log/Pole	12	96	Balsam Fir	High	Variable	Sapling
Red Maple	14	Log/Pole	12		Tag Alder	Medium	10 - 20 feet	Tall Shrub
Paper Birch	4	Pole/Log	8					
Hemlock	1	Log	11					
Balsam Poplar	10	Pole/Log	8					
Quaking Aspen	29	Pole/Log	8	45				
Basswood	2	Log	13					

Two-aged mixed species stand. It looks like all aspen and fir were cut out of this stand but everything else was left. About a 50/50 mix between upland and lowland soils. The middle part of the stand is mostly wet, the northern and western ends are upland. Mostly well-stocked except for a wet area in the middle that has alder and a few aspen trees. An apple tree can be found on the west edge of this wet area. Average ba/acre from 4 plots = 140 square feet. Do not manage when stand 29 is cut, leave for structural diversity.

141	4319 - Mixed Upland Forest	Poletimber Well	2.9	45	111-140	N/A				
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	8	Log/Pole	12		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	32	Pole/Log	9	45				
Balsam Fir	45	Pole/Log	8	45				
Red Maple	15	Log/Pole	12	81				

Two-aged mixed species stand. Most of the aspen and fir were cut out of this stand when surrounding stand 29 was harvested, and the maple and birch were left as residual. However, there are also some scattered, older aspen that were left as well. Lots of fir blowdown from previous years. Average ba/acre from 4 plots = 123 square feet. Leave unmanaged when stand 29 is cut, as this stand will serve well for retention and structural diversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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142 4134 - Aspen, Spruce/Fir Poletimber Well 54.2 45 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	61	Pole/Sap/Log	7	45
Balsam Poplar	7	Pole	7	
Balsam Fir	21	Pole/Sapling	6	
White Spruce	4	Pole/Sapling	6	
Northern White Cedar	4	Log/Pole	12	
Red Maple	3	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	>20 feet	Sapling
White Ash	Trace	>20 feet	Sapling
Black Cherry	Trace	Variable	Tall Shrub
Beech	Trace	Variable	Sapling
Red Maple	Trace	>20 feet	Sapling
Balsam Fir	High	>20 feet	Sapling
Serviceberry (Juneberry)	Trace	Variable	Tall Shrub
Paper Birch	Trace	>20 feet	Sapling
Nannyberry	Trace	5 - 10 feet	Tall Shrub
Tag Alder	Low	10 - 20 feet	Tall Shrub

Large stand of mostly fir and quaking aspen, with very little species diversity. Aspen diameters vary significantly and seem to decrease as you move north, with some areas in the northern part that still have submerchantable stems. Some scattered red maple, birch, and cedar were left as residual and can be found throughout the stand. In addition, there are a few older aspen that were left. Terrain slopes down very gradually to the north. Numerous drainages and wet areas can be found throughout the stand, but are difficult to parse out on imagery. In general, the west half of the stand seems to be a little drier than the east half. Old skid trails, some with ruts still evident, can be found throughout the stand and a few are still noticeable on imagery. Trace of elm (pole), black cherry (pole), white ash (pole), and sugar maple (pole) in the canopy. Average ba/acre from 16 plots = 132 square feet. The far western end is older and more of an A9, this area could probably be separated out as its own stand. Overall, there are still a lot of small diameter stems and this stand would benefit from another 10 years of growth, being prescribed for a harvest in the 2036 YO. E.