



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53007

Entry Year 2023

Acreage: 2,346

County Cheboygan

Management Area: Pigeon River Country

Revision Date: 2021-05-07

Stand Examiner: Greg Rekowski

Legal Description:

T33N R01W Sections 6, 7, and 18
T33N R02W Section 13

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:

Terrain is mostly flat in Sections 6 and 7 but becomes more rolling in Sections 13 and 18. The majority of the Compartment is upland however there are pockets of lowlands interspersed throughout. Upland soils are characterized primarily by sands, sandy loams, and loams. The highest percentages can be found in Rubicon sands, Cheboygan loamy sands, Riggsville loamy sands, and Onaway loams, respectively. Lowland soils are primarily Roscommon muck and Tawas peat.

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

Solid block of State ownership. Private land borders the Compartment to the west along with some small private inholdings along the northeast side of the Compartment.

Unique Natural Features:

The Pigeon River Pines Ecological Reference Area (ERA) can be found in Section 7 and is characterized by high quality, large diameter red and white pine.

Red shouldered hawk and wood turtle have been documented in this Compartment.

Archeological, Historical, and Cultural Features:

None identified.

Special Management Designations or Considerations:

The Pigeon River Pines ERA has a formal written plan based on surveys from Michigan Natural Features Inventory (MNFI) staff. No active management is recommended at this time for this ERA.

Watershed and Fisheries Considerations:

The Little Pigeon River flows through the far northwestern corner of Section 6. Hackett Lake, in Section 13, offers walk-in fishing opportunities, although it is not viewed as a high quality fishery.

Wildlife Habitat Considerations:

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

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. The nearest active sand/gravel operation is over six miles away. There might be some potential for sand & gravel on the upland areas within the compartment, but surface mining is not currently allowed. There has been no oil & gas production, past or present, within five miles of the compartment. There is low potential for oil and gas from known producing formations in this compartment. The Antrim Shale is thin or absent beneath the compartment, and the compartment is north of the Guelph (Niagaran) reef trend). There is no mineral leasing activity in the area, and most parcels within the compartment are currently classified as Nonleasable (Sec 13 is Leasable Non-Development).

Vehicle Access:

There is good access to most of the Compartment through Fisherman and Webb Roads, both of which are County roads. Most of the forest roads, however, have been closed to wheeled motorized vehicles with virtually all of those closures still intact.

Survey Needs:

None identified at this time.

Recreational Facilities and Opportunities:

No developed recreational facilities exist in this Compartment.

Fire Protection:

Access is generally good in case of any fire suppression efforts, though the area is at low risk to any wildfire potential. Most road systems are closed with berms.

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**

Report 1 – Total Acres by Cover Type and Age Class

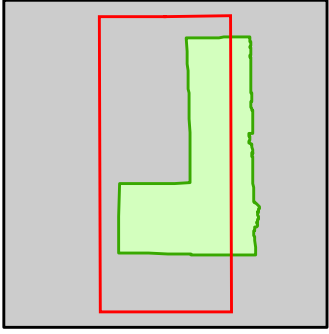


Age Class

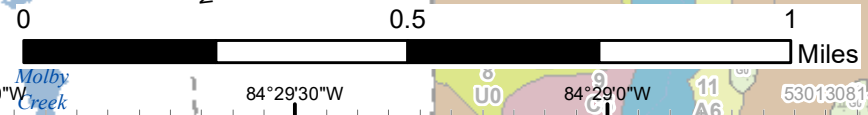
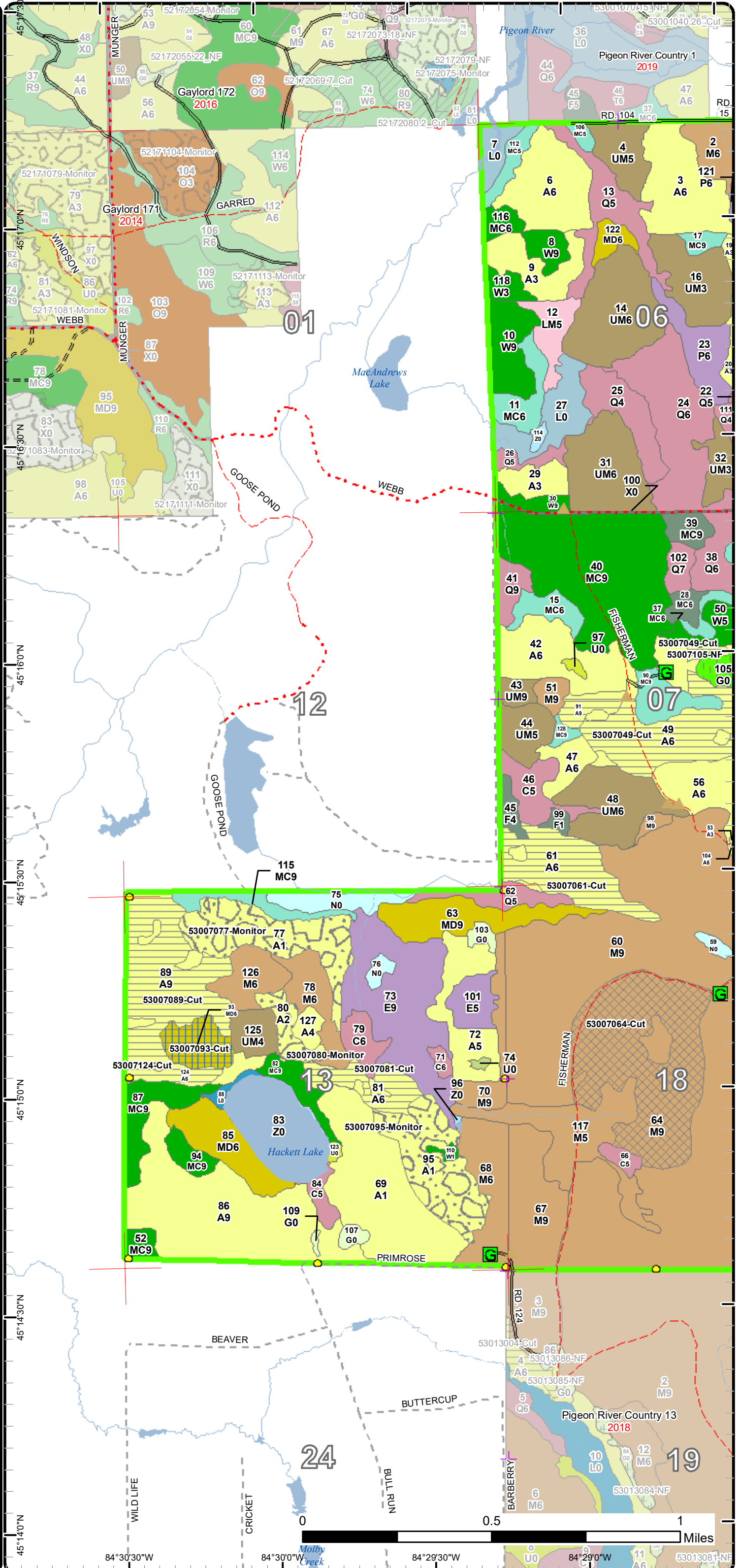
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	137	0	97	281	102	0	54	78	0	0	0	0	0	0	0	0	0	749
Cedar	0	0	0	0	0	0	0	0	0	5	7	23	12	0	0	0	0	0	47
Cropland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	0	0	4	17	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Conifers	0	0	0	0	0	0	0	25	79	0	44	17	5	0	0	0	0	0	170
Lowland Deciduous	0	0	0	0	0	0	0	0	10	72	0	0	0	0	0	0	0	0	82
Lowland Mixed Forest	0	0	0	0	17	0	0	0	2	0	0	0	0	0	0	0	0	0	19
Lowland Shrub	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Marsh	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Mixed Upland Deciduous	0	0	0	0	5	0	0	0	58	0	0	0	0	0	0	0	0	0	63
Natural Mixed Pines	0	0	0	0	5	0	0	0	33	0	0	0	0	0	0	0	0	82	120
Northern Hardwood	0	0	0	0	0	0	0	0	181	105	31	318	0	0	0	0	0	0	635
Upland Conifers	0	0	0	0	42	0	2	0	0	13	3	0	6	0	5	0	0	9	79
Upland Mixed Forest	0	0	0	81	75	10	16	4	0	0	0	0	0	0	0	0	0	0	185
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Spruce/Fir	0	0	0	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
White Pine	0	0	0	6	11	0	0	0	0	11	7	17	0	0	0	0	0	0	51
Total	115	137	0	190	458	112	18	83	441	206	92	375	23	0	5	0	0	91	2341

Cover Type & Treatments Map

Compartment: 7
 T33N, R02W, Sec. 13
 T33N, R01W, Sec:06, 07, 18
 County: Cheboygan
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2023
 Acres: 2346.2 GIS Calculated
 Examiner: Greg Rekowski
 Map Revised: 6/17/2021
 Map Phase: Review

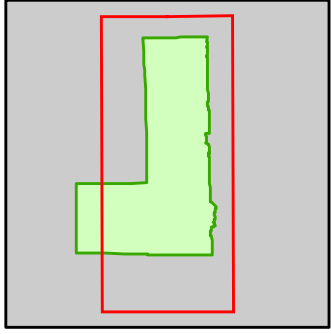


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Gate
- Compartment Boundary
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Seed Tree (w/Reserves)
- ▨ Regeneration Survey
- ▨ Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

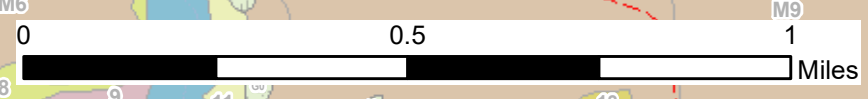
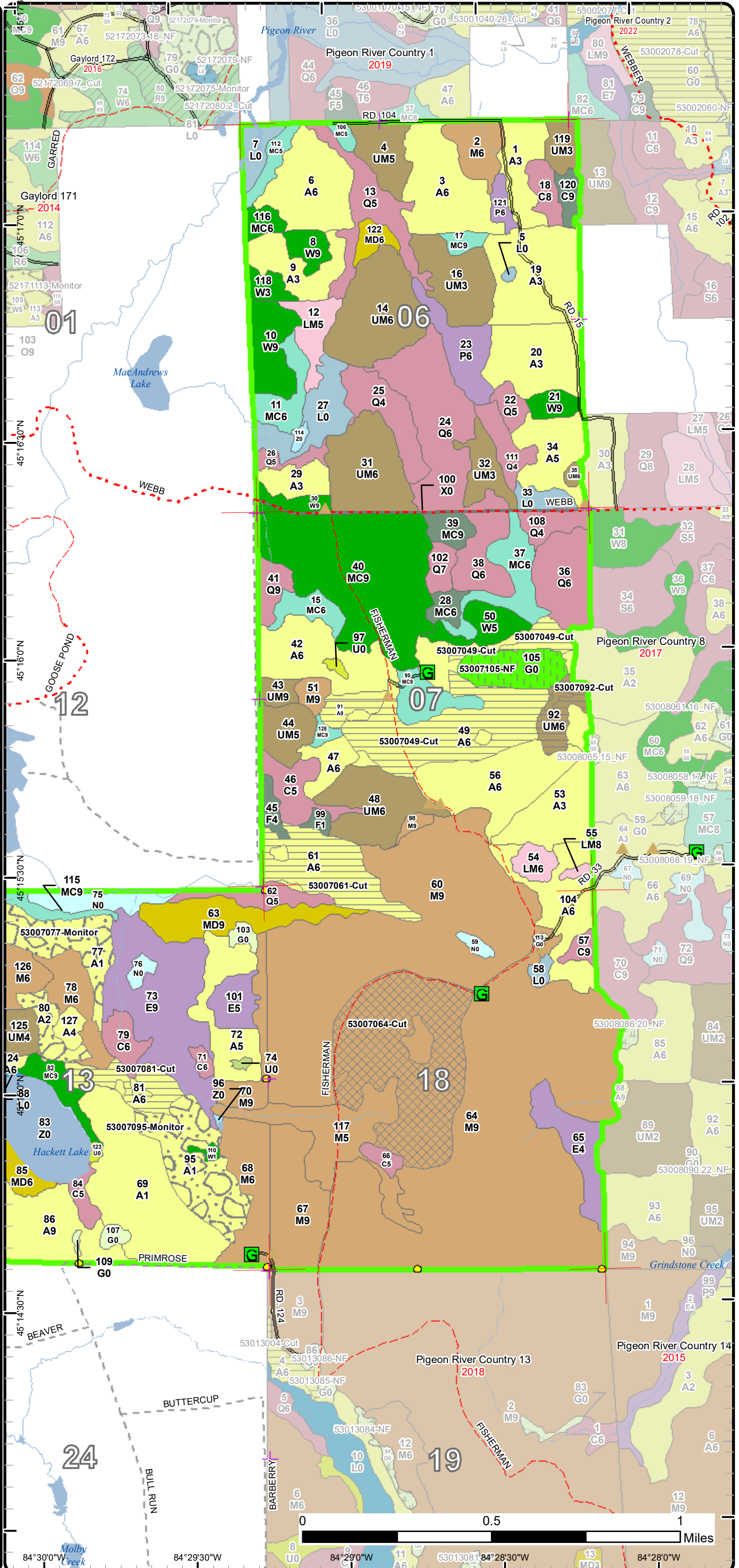


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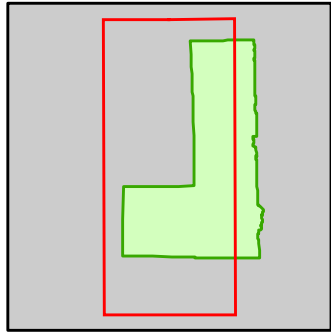
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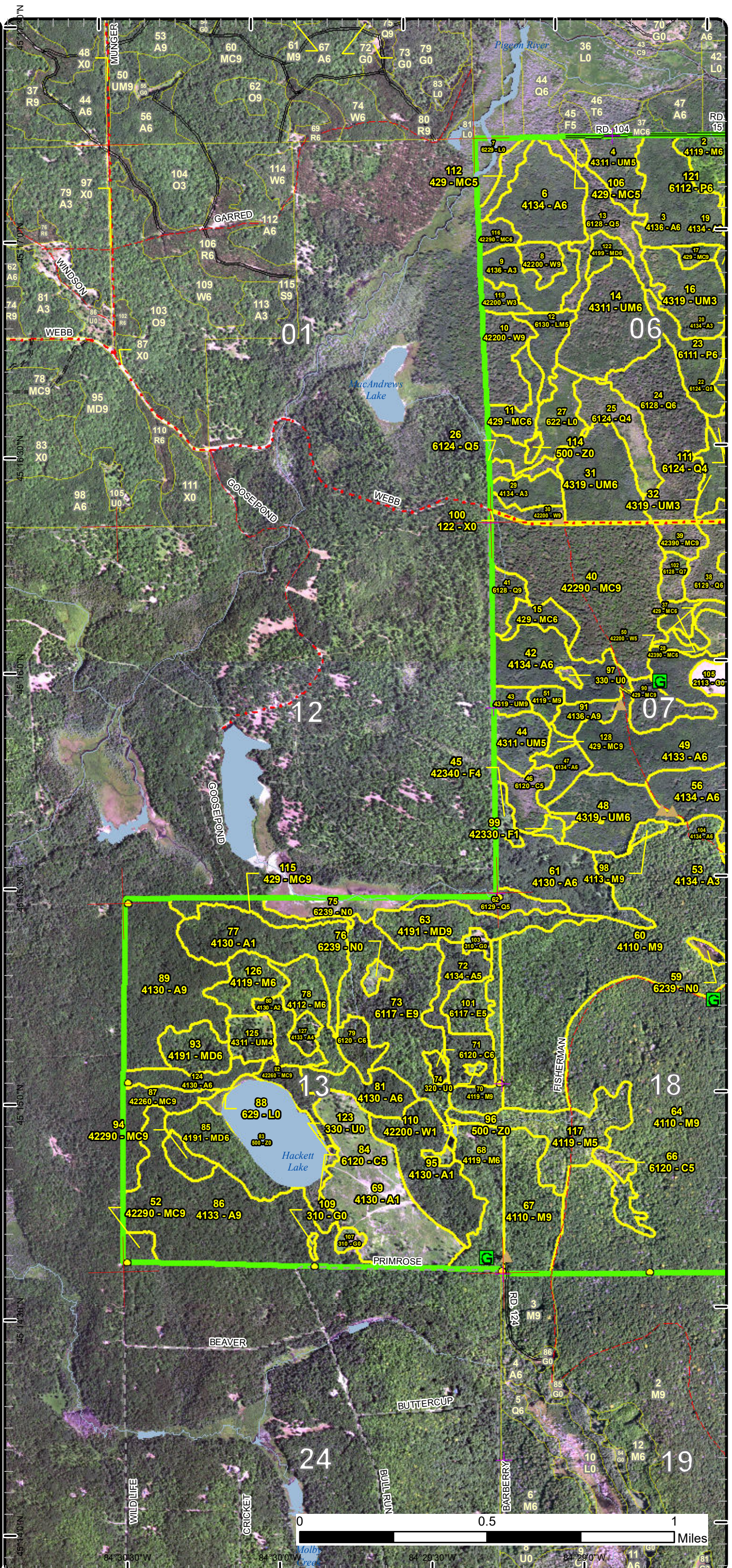
84°30'0"W 84°29'30"W 84°29'0"W 84°28'30"W 84°28'0"W

Stand Boundary Map

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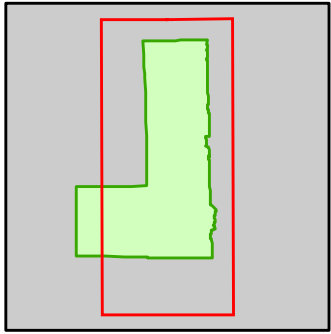


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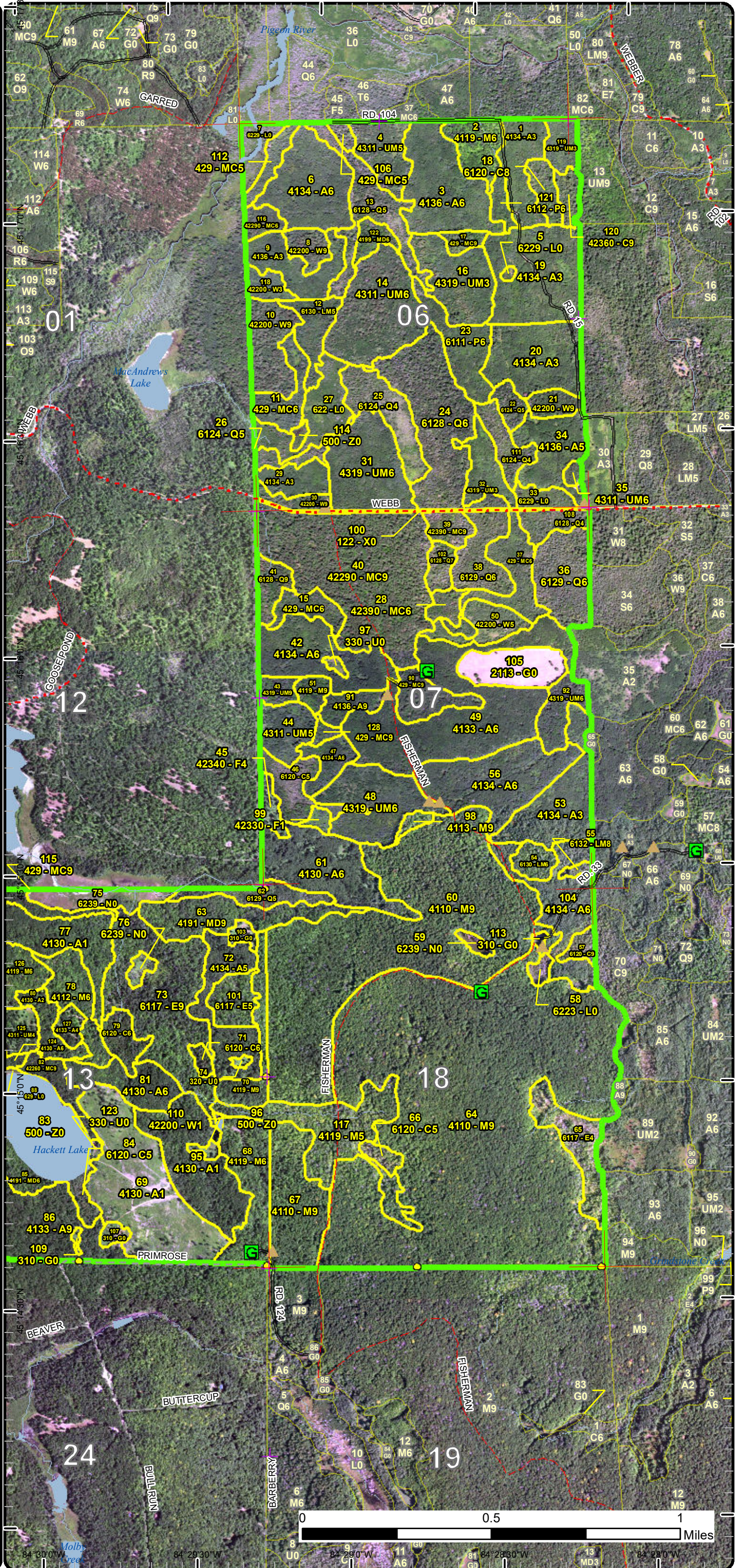


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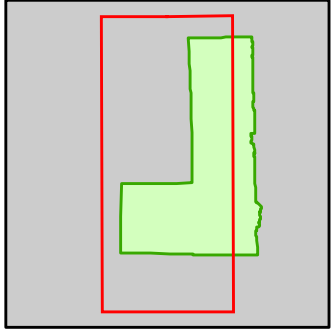


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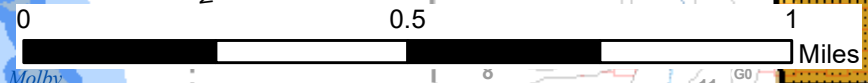
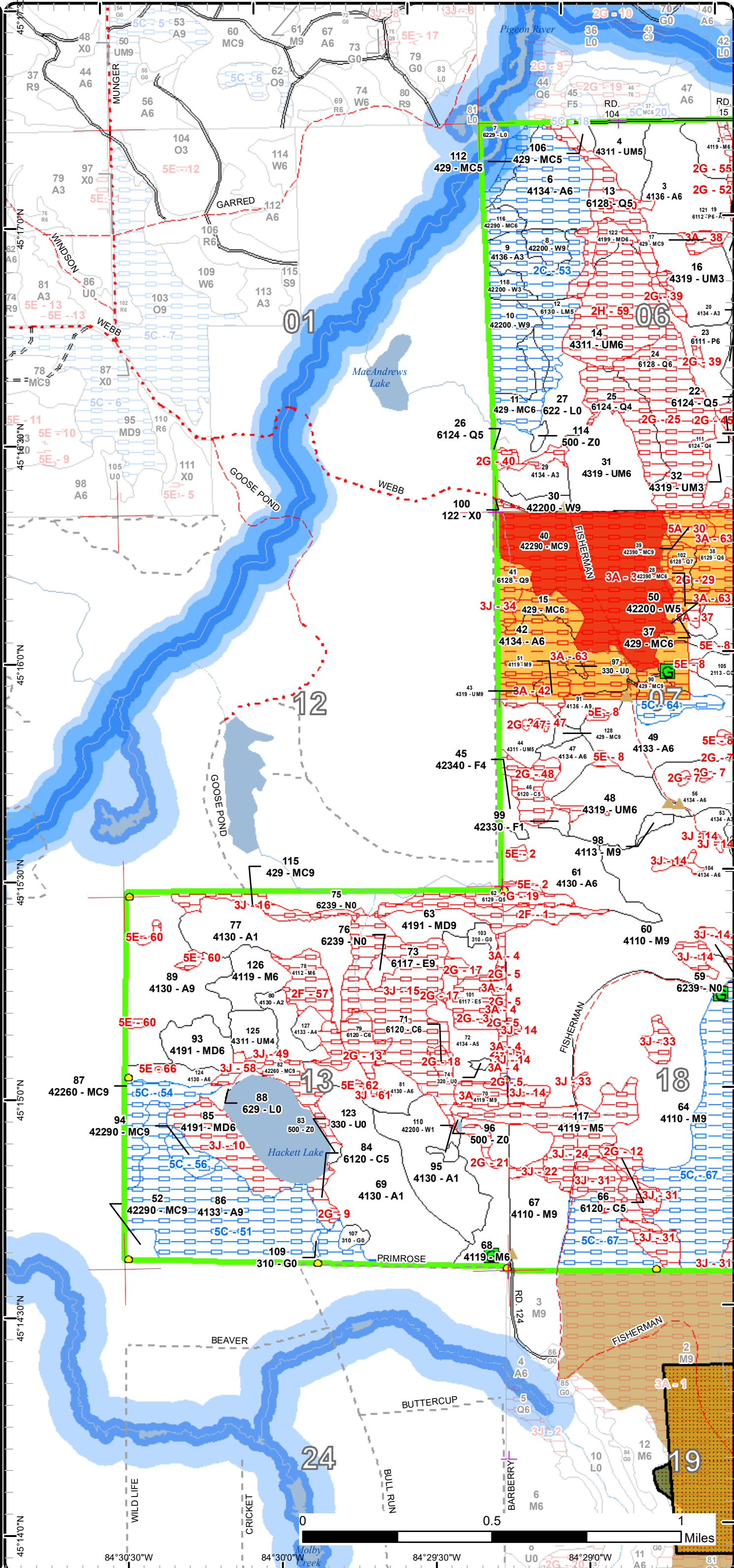


Special Conservation Areas

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- G Gate
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 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)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Forest Habitat Core Interior
- Cold Water Streams
- Cold Water Lakes
- Non-Dedicated Natural Areas and National Natural Landmarks
- High Priority Trout Stream Buffer
- Habitat Corridor
- Possible Type 1 Old Growth Area



45°14'0"N 84°30'30"W 45°15'30"N 84°30'0"W 45°16'0"N 84°29'30"W 45°17'30"N 84°29'0"W



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 268
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	164	0	0	0	0	0	0	0	0	164
Mixed Upland Deciduous	0	0	0	13	0	0	0	0	0	13
Northern Hardwood	0	82	0	0	0	0	0	0	0	82
Upland Mixed Forest	9	0	0	0	0	0	0	0	0	9
Total	174	82	0	13	0	0	0	0	0	268

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	268	0	0	0	0	0	79	0	17	364
Next Step	0	0	0	0	0	0	268	0	0	268
Total	268	0	0	0	0	0	347	0	17	632



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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:

49	53007049-Cut	56.3	4133 - Aspen, Mixed Pine	Poletimber Well	49	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with area retention. Cut all species except for any incidental red oak, red pine, or paper birch. Leave all white pine over 14" DBH.</p> <p><u>Specs:</u> Mark 1-2 aspen per acre as cut and leave trees for drumming logs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> A fully-stocked stand dominated by aspen with any additional mix of species being acceptable.</p> <p><u>Other Comment:</u> Recommend a dormant season harvest (Sept-March) to reduce the impact from elk browse. Recommended retention areas are in the site condition layer.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
61	53007061-Cut	31.4	4130 - Aspen	Poletimber Well	38	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut all species except for any incidental oak or cedar. Also, leave any white pine over 10" DBH. Mark 1-2 poor quality aspen per acre as cut and leave trees for drumming logs.</p> <p>Place area retention around the wet area in the western half as well as along the south edge where there is small spruce and not much aspen (both areas already excluded and in the site conditions layer).</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully-stocked stand dominated by 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 /2022</p>											
64	53007064-Cut	81.5	4110 - Sugar Maple Association	Sawtimber Well	107	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to 80-90 square feet. Favor removal of suppressed sugar maple and basswood poletimber and sawlog trees of poor form. Cut all beech except leave any that appear resistant or large diameter trees that are good wildlife trees. Create one canopy gap, at least 100 feet in diameter, for every 5 acres. Situate these gaps in areas where large diameter trees (20"+ DBH) can be left around the edges for a seed source.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully-stocked canopy gaps that have filled in with hardwood species but are not dominated by ironwood or beech.</p> <p><u>Other Comment:</u> Exclude the large wet area in the middle of the stand (see site conditions layer). There may be another area of wet ground along the southwest side adjacent to the road that is also a wet area and should be excluded.</p> <p>Follow the treatment line as closely as possible as the remainder of the stand is being surveyed by MNFI.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
81 53007081-Cut	14.4	4130 - Aspen	Poletimber Well	43	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut all species except leave any incidental oak, pine, cedar, spruce, or basswood. Mark to leave 1-2 poor quality aspen per acre as cut and leave trees. Place a small retention pocket around the mature oak/hardwood pocket (already excluded but see site conditions layer). Exclude the wet drainage that flows north into stand 79 (already excluded but see site conditions layer).</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 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 /2022</p>										
89 53007089-Cut	50.1	4130 - Aspen	Sawtimber Well	65	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Leave all pine over 15" DBH. Leave any incidental oak. Mark 2 large diameter aspen trees per acre as cut and leave trees for drumming logs (require the logger to push these trees over with the root ball still attached). While cruising mark 1-2 large aspen trees per acre that have lots of rot to serve as leave trees for future snags and coarse woody debris.</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 dominated by aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> Recommended retention areas are in the site condition layer.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
91 53007091-Cut	5.0	4136 - Aspen, Mixed Conifer	Sawtimber Well	49	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with no area retention due to the small size of the stand. Leave any incidental oak or birch. Leave all white pine and spruce over 18" DBH. Mark to leave 1-2 large diameter, poor quality trees per acre to serve as cut and leave trees for drumming logs (target poor form white pine). If possible, get the loggers to push these trees over with the root ball still attached.</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></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
92 53007092-Cut	9.4	4319 - Mixed Upland Forest	Poletimber Well	49	111-140	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Clearcut all species except for red pine, white pine, and white spruce over 10" DBH. Use retention to protect the seasonally wet area (already in site condition layer). Mark 1-2 large diameter aspen per acre as cut and leave trees for drumming logs. Protect all existing snags and coarse woody debris.</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> A fully-stocked stand dominated by aspen and fir 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 /2022</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
93 53007093-Cut	12.8	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	71	81-110	Harvest	Seed Tree	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Seed-tree leaving 20-30 square feet. Focus on leaving the largest diameter and best quality red pine, white pine, and maple. Leave any incidental oak or spruce that are present. Mark to leave large diameter aspen with lots of rot. If present, leave any legacy size pine. Mark 1-2 poor form aspen or maple per acre as cut and leave trees (get the logger to push these trees over with the root ball still attached). Protect pockets of white pine regen, such as the small open area in the middle of the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully-stocked stand with any mix of species acceptable. A mix of pine, maple, and oak is desired but browse will likely limit deciduous species regeneration.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
105 53007105-NF	16.5	2113 - Forage Crops Nonstocked				Unspecified NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		No
<p><u>Prescription</u> Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.</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 /2022</p>										
124 53007124-Cut	7.2	4130 - Aspen	Poletimber Well	43	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut all species except for any oak. Leave all pine over 15" DBH. Place a small retention area around the old car (see OFS layer).</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully-stocked stand dominated by aspen.</p> <p><u>Other Comment:</u> The corner is in along the west line.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Approved Treatments:

77 53007077-Monitor	36.0	4130 - Aspen	Sapling Poor	2	Immature	Monitoring	Natural Regen (Intermediate)	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Natural regen survey. Note browse impacts.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully-stocked stand of aspen.</p> <p><u>Other Comment:</u></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 /2022

80	53007080-Monitor	8.7	4130 - Aspen	Sapling Medium	2	Immature	Monitoring	Natural Regen (Intermediate)	413 - Aspen	Even-Aged	No
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Prescription Natural regen survey.

Specs:

Next Step

Treatments:

Acceptable Fully-stocked stand of aspen.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

95	53007095-Monitor	34.3	4130 - Aspen	Sapling Poor	2	Immature	Monitoring	Natural Regen (Intermediate)	413 - Aspen	Even-Aged	No
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Prescription Formal natural regen survey.

Specs:

Next Step

Treatments:

Acceptable Fully-stocked stand of aspen.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

Total Treatment Acreage Proposed: 363.6

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
749	558	125	66

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Condition	Dominant Site Conditions									
						2C	5C	2F	2G	2H	3A	3J	5A	5E	ed
749	558	125	66		Aspen	46	78		12		38	4		11	
47	12	0	35		Cedar				35						
17	17	0	0		Cropland										
7	7	0	0		Herbaceous Openland										
2	1	0	1		Low-Density Trees						1				
21	14	0	7		Lowland Aspen/Balsam Poplar				7						
171	3	0	167		Lowland Conifers				160			7			
82	0	0	82		Lowland Deciduous				28			54			
18	6	11	2		Lowland Mixed Forest	11			2						
37	37	0	0		Lowland Shrub										
16	16	0	0		Marsh										
63	23	0	40		Mixed Upland Deciduous			13		5		21			
120	4	26	90		Natural Mixed Pines	5	21				82	8			
636	310	195	131		Northern Hardwood		195	16	8		14	94			
81	19	23	38		Upland Conifers	17	6				19	9	11		0
187	143	0	44		Upland Mixed Forest				1	36	4			3	
1	1	0	0		Upland Shrub										
7	7	0	0		Upland Spruce/Fir										
3	3	0	0		Urban										
33	33	0	0		Water										
52	15	35	2		White Pine	29	6				2				
2,346	1,227	414	705		Total Forested Acres	108	306	29	253	41	160	198	11	14	0
	52%	18%	30%		Relative Percent										

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

Site No.	Dominant Site Cond	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		2F: Too steep	13	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

Steep slopes bordering the lowlands. There are also seeps coming out of the slope in areas.

Report 4 – Site Conditions

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2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3A: Conservation Values incompatible with harvest at this time	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: These site condition segments capture the numerous wet drainages that pass through this stand.							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Seasonally wet area, use retention to protect this area when the surrounding stand is cut.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet pockets in stand 7 that should be protected whenever the stand is next cut.							

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8	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Recommended retention areas for stand 49.							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for Hackett Lake.							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This site condition covers the numerous drainages, vernal pools, and year-round wet areas that are present throughout stand 60. There are likely many more of these areas in the stand and they should also be protected from harvesting damage in the future. See leaf off imagery.</p>							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	54	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Multiple streams and drainages make management of this stand impractical.</p>							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Wet drainages.</p>							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

Report 4 – Site Conditions

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20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet drainage.							
22	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet drainage.							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stream and numerous drainages in this stand.							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	64	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet pocket.							
27	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: These stands fall within the boundary of the Non-Dedicated Natural Area (see reference layer for boundary line) and will not be cut.							
30	Unavailable	5A: Not able to obtain desirable regeneration	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: These stands fall within the boundary of the Non-Dedicated Natural Area (see reference layer for boundary line) and will not be cut.							
31	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This site condition covers most, but not all, of the streams, drainages, and vernal pools that are scattered throughout stand 64.							

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32	Unavailable	3A: Conservation Values incompatible with harvest at this time	82	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Pigeon River Pines Dry-mesic northern forest ERA.							
33	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet vernal pool areas that should be excluded from the harvest in stand 64.							
34	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stream flows through the stand. This stand falls within the boundary of the Non-Dedicated Natural Area (see reference layer for boundary line) and will not be cut.							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet pockets in stand 34.							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	5A: Not able to obtain desirable regeneration	5	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: These stands fall within the boundary of the Non-Dedicated Natural Area (see reference layer for boundary line) and will not be cut.							

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38	Unavailable	3A: Conservation Values incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Unique stand, do not manage.							
39	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet pockets in stand 23.							
40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	3A: Conservation Values incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Somewhat unique stands with no evidence of past harvest history. Leave unmanaged. These stands also fall within the boundary of the Non-Dedicated Natural Area (see reference layer for boundary line) and will not be cut until.							

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43	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	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/vernal pools/drainages in stand 19.							
47	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
48	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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49	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lake buffer							
50	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
52	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
53	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	108	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The old road that used to access this area has been flooded by beavers over the years. The current beaver flooding is at least 200 feet in length and the road has largely disappeared. A significant investment will be needed to access these stands in the future.							

Report 4 – Site Conditions

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54	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
55	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet drainage at the south end which eventually turns into a small stream.							
56	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
57	Unavailable	2F: Too steep	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
58	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This portion of stand 124 should be left indefinitely as a buffer for Hackett Lake.							
59	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand 14 was harvested at one time many years ago but it is unclear how they accessed the stand. It was possibly from somewhere in the northwest or southwest part of the stand but there are no obvious signs of a road entering the stand.							

Report 4 – Site Conditions

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Compartment: 7

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Year of Entry: 2023

60	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Recommended retention areas for the harvest in stand 89.</p>							
61	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Wet drainage that should be excluded from the harvest in stand 81.</p>							
62	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
63	Unavailable	3A: Conservation Values incompatible with harvest at this time	57	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: These stands were originally not hard-factored but fall within the boundary of the Non-Dedicated Natural Area (see reference layer for boundary line) and will not be cut until, or if, the Natural Area boundary is revised.</p>							
64	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
66	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Retention area around an old car.</p>							

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Year of Entry: 2023

67	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	195	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Awaiting MNFI survey for possible mesic forest ERA. If it qualifies, then hard factor the stand and merge it into an SCA with the Grindstone Creek area to the south. If it doesn't qualify then prescribe a selection harvest on this area.</p>							
74	Unspecified	Unspecified	0				
<p>Comments:</p>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
1	4134 - Aspen, Spruce/Fir	Sapling Well	16.1	25	Immature	N/A	This stand was cut in 1996 in the sale Checkerboard Aspen (#53-008-93), bought by Mattson Logging. Regeneration came back well to primarily aspen and fir. Ground is mostly upland except for some scattered wet pockets. The northeast part of the stand in particular has wetter ground and it looks like there are signs of a north/south running drainage in this area. Red-osier dogwood is present in the understory in this area but is being heavily browsed and mostly below 2 feet tall. Trace of sawlog-sized hemlock, red maple, and basswood scattered throughout.																																																																						
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2	4119 - Mixed Northern Hardwoods	Poletimber Well	12.5	86	81-110	N/A	Diverse hardwood stand of varying quality. A wet drainage runs north through the entire stand, just east of the central part of the stand. The drainage turns into a small stream at the north end. Around and east of this drainage are some additional wet areas with some cedar and hemlock mixed in, and hardwood quality is not very good in this area. Quality and stocking are much better in the west half of the stand, with the southwest corner in particular having some nice stems. A large stick nest in a 20" beech can be found in the middle of the stand. Trace of white pine, yellow birch, and white spruce. Average ba/acre from 8 plots = 99 square feet.																																																																						
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3	4136 - Aspen, Mixed Conifer	Poletimber Well	33.1	33	51-80	N/A	This stand was cut in 1988 in the sale Nannyberry Patch (#53-012-87), bought by Champion. Regeneration came back well to aspen. Diameters on the aspen tend to vary significantly with some areas at the south and southwest ends still being sub-merchantable. A few areas of wet ground are mixed in, mostly in the south half of the stand, and there are a few clumps of residual cedar in this part of the stand as well. Trace of black spruce and red pine poletimber. Average ba/acre from 8 plots = 76 square feet. This stand might be ready for a harvest next entry.																																																																						
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4	4311 - Pine, Aspen Mix	Poletimber Medium	14.0	54	51-80	N/A	<p>Very poor quality aspen stand. Diameters are very small for its age, with some areas still having stems in the 4-5" DBH range. There are also some areas where the aspen appears to be dying. White pine is scattered throughout, with heaviest concentrations at the north and south ends. White pine quality varies, some areas have weeviled, open-grown stems while others have some nice poletimber stems. A small inclusion of red pine is present at the far southwest corner adjacent to the swamp and there are also a few large diameter white pine and spruce in this area as well. Average ba/acre from 6 plots = 75 square feet. Let the aspen senesce and manage for white pine.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		1	Pole/Log	8		Balsam Fir		Medium	Variable	Sapling	
White Spruce		5	Pole/Log	8		White Pine		Medium	Variable	Sapling	
White Pine		35	Pole/Log/XLog	8		Black Cherry		Low	Variable	Tall Shrub	
Red Pine		3	Log	14							
Balsam Fir		5	Pole	5							
Bigtooth Aspen		5	Pole	8							
Quaking Aspen		46	Pole/Sapling	6	54						
5	6229 - Mixed lowland shrub	Nonstocked	0.7	0	Unspecified	No		<p>Thick with lowland shrubs. There appears to be standing water in many places.</p>			
Sub-Canopy Species		Density	Avg. Height	Size							
Paper Birch		Trace	Variable	Sapling							
Red Maple		Trace	Variable	Sapling							
White Pine		Trace	Variable	Sapling							
Michigan Holly		High	5 - 10 feet	Tall Shrub							
Bog Willow		Low	5 - 10 feet	Tall Shrub							
Tag Alder		Low	5 - 10 feet	Tall Shrub							
6	4134 - Aspen, Spruce/Fir	Poletimber Well	30.0	35	111-140	N/A	<p>This stand was cut in 1986 in the sale Sanctuary Aspen North (#53-017-83), bought by Fred Boudreau. Everything was cut except for cedar which is present in a few clumps but rare overall. Regeneration came back well, mostly to aspen and fir. Aspen diameters vary considerably, with some areas being in the 8-10" diameter range while others are in the 4-7" diameter range. The majority of the ground is upland except for a few areas of lowland which are mostly at the north end or along the east edge. Trace of tamarack, red maple, and paper birch. Average ba/acre from 9 plots = 113 square feet. Will be ready for a harvest next entry.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		1	Log	13		Balsam Fir		Medium	Variable	Sapling	
Red Pine		1	Pole	7		Black Spruce		Trace	Variable	Sapling	
Balsam Poplar		2	Pole	7		White Spruce		Trace	Variable	Sapling	
White Pine		6	Pole	6		White Pine		Trace	Variable	Sapling	
White Spruce		2	Pole	6		Black Cherry		Low	Variable	Tall Shrub	
Black Spruce		3	Pole	6		Tag Alder		Trace	10 - 20 feet	Tall Shrub	
Balsam Fir		25	Pole/Sapling	6		Nannyberry		Trace	5 - 10 feet	Tall Shrub	
Quaking Aspen		60	Pole/Sap/Log	8	35						
7	6229 - Mixed lowland shrub	Nonstocked	7.4	0	Unspecified	No		<p>The majority of trees in this stand are dead, although it is difficult to tell with the tamarack. A small shrub that looks like some kind of willow has almost full coverage throughout the stand. Some alder is present as well. Only looked at this stand from the edge.</p>			
Sub-Canopy Species		Density	Avg. Height	Size							
Tamarack		Medium	>20 feet	Pole							
Tamarack		Low	Variable	Sapling							
Northern White Cedar		Low	>20 feet	Pole							
Black Spruce		Trace	>20 feet	Pole							
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8	42200 - Natural White Pine	Sawtimber Well	6.5	99	81-110	N/A	This stand was cut in 1996 in the sale Checkerboard Aspen (#53-008-93), bought by Mattson Logging. Everything was cut except for pine. As a result BAs tend to be variable, with lower residual stocking in the north and northwest parts of the stand. The residual white pine is high quality with some large diameter trees present (25"+ DBH). Dense understory and difficult to get through in areas. Average ba/acre from 5 plots = 96 square feet. Manage when the second age class matures.																																																																						
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9	4136 - Aspen, Mixed Conifer	Sapling Well	16.4	25	Immature	N/A	This stand was cut in 1996 in the sale Checkerboard Aspen (#53-008-93), bought by Mattson Logging. Regeneration came back primarily to aspen although there are areas heavier to pine and fir. Mostly well-stocked except for some of the wetter areas along the southeast side. Found 2 white oak sawlog-sized trees west of the road. Did not visit the northeast part of the stand.																																																																						
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10	42200 - Natural White Pine	Sawtimber Well	17.3	103	81-110	N/A	This stand was cut in 1986 in the sale Sanctuary Aspen North (#53-017-83), bought by Fred Boudreau. Everything was cut except for pine and oak. The white pine residual is high quality with some large diameter trees present (25"+ DBH). Regeneration came back primarily to balsam fir, most of which is now in the 3-6" diameter range. Trace of red oak sawtimber and paper birch poletimber. Average ba/acre from 6 plots = 102 square feet. Fairly unique stand to walk through due to the large white pine and dense fir poletimber which prevents much sunlight from reaching the ground floor. Look at a possible treatment next entry when the second age class of fir will be more merchantable.																																																																						
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11	429 - Mixed Upland Conifers	Poletimber Well	11.0	35	81-110	N/A	This stand was cut in 1986 in the sale Sanctuary Aspen North (#53-017-83), bought by Fred Boudreau. Regeneration came back to a mix of species, with white pine and fir being dominant. Apparently there used to be more aspen in the stand but beavers removed a lot of it from along the south and east edges. The conifer component is pretty nice quality and should be the management objective going forward. A small open area is at the north end of the stand and looks like an old landing. Trace of black spruce and jack pine in the overstory. Average ba/acre from 8 plots = 109 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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12 6130 - Fir, Aspen, Maple Poletimber Medium 10.8 35 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	1	Pole	5		Balsam Fir	Low	Variable	Sapling
Black Spruce	3	Pole	5		Balsam Poplar	Low	Variable	Sapling
Balsam Fir	33	Pole	7	35	Michigan Holly	Trace	5 - 10 feet	Tall Shrub
White Pine	10	Pole/Log	8		Nannyberry	Low	5 - 10 feet	Tall Shrub
Paper Birch	2	Pole	6		Tag Alder	High	10 - 20 feet	Tall Shrub
Balsam Poplar	20	Pole	6		Black Spruce	Trace	Variable	Sapling
Quaking Aspen	29	Pole/Log	8		Paper Birch	Trace	>20 feet	Sapling
White Spruce	2	Pole	8					

This stand was cut in 1986 in the sale Sanctuary Aspen North (#53-017-83), bought by Fred Boudreau. Regeneration came back to a mix of species but is not well-stocked in most places. Some areas of drier ground along the west edge but the majority of the stand is lowland. Trace of red maple in the overstory. Average ba/acre from 6 plots = 48 square feet.

13 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 21.8 91 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	2	Pole	6		Balsam Fir	Medium	Variable	Sapling
White Spruce	3	Log	12		Black Spruce	Trace	Variable	Sapling
Balsam Fir	22	Pole	7		Tag Alder	Medium	10 - 20 feet	Tall Shrub
Quaking Aspen	21	Log	13					
Balsam Poplar	11	Pole/Log	8					
Red Maple	5	Pole/Log	8					

Highly variable lowland stand. The southwest running finger of the stand is poorly-stocked and has a lot of alder. The central part of the stand (adjacent to the north side of stand 122) has an inclusion of upland that extends north. This area is only a few acres in size and is mostly fir, aspen, red maple, and cedar, and has a lot of blowdown. The southeast running finger of the stand is a wet drainage, with water flowing northwest. Eventually this drainage turns into a small stream which flows north through the entire stand. Black ash used to be a large component of the stand but it is now all dead. Average ba/acre from 6 plots = 72 square feet.

14 4311 - Pine, Aspen Mix Poletimber Well 36.1 38 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	2	Pole	6		Balsam Fir	High	Variable	Sapling
Red Maple	2	Pole/Log	8		White Pine	Medium	Variable	Sapling
Balsam Fir	6	Pole/Sapling	6		Black Spruce	Trace	Variable	Sapling
Black Spruce	1	Pole	6					
Red Pine	10	Log/XLog	15	71				
White Pine	33	Log/XLog/Pole	15					
Bigtooth Aspen	11	Pole/Log	8					
Quaking Aspen	35	Pole/Log	8	38				

Two-aged stand with a supercanopy of large pine. Several of these supercanopy trees, mostly white pine, qualify as legacy trees based on their diameter. Aspen size and quality varies significantly. The east/southeast part of the stand has some clones of good quality aspen that is in the 8-10" DBH range. However, there are other areas, like the northern part of the stand, where the aspen is much smaller, averaging 5-7" DBH. Trace of paper birch, white spruce, and black cherry. Average ba/acre from 9 plots = 107 square feet. The stand is primarily upland with the south half sitting on a knob, however there are a few small areas of wetter ground along the edges where the stand transitions to lowland. It's unclear from imagery how they accessed this stand in the past for a harvest, no old roads are visible on the 98DOQ. Found a single white oak sapling in the southern part of the stand on the knob. Stand should be ready for a treatment next entry, retain the large pine.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
15	429 - Mixed Upland Conifers	Poletimber Well	8.0	38	81-110	N/A	This stand was clearcut in 1983 in the sale Sanctuary Aspen South (#53-020-83), bought by Champion. Regeneration came back well to mixed conifers. Aspen is present but not dominant by any means. Scattered residual cedar, more common along the northern edges. Some areas of wet ground, more so in the east half. Trace of elm. Average ba/acre from 4 plots = 110 square feet.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Red Maple	1	Pole/Log	8		Balsam Fir	High		Variable	Sapling	
Paper Birch	2	Pole	7		White Pine	Trace		Variable	Sapling	
Balsam Poplar	4	Pole	6							
Quaking Aspen	20	Pole	8							
Black Spruce	6	Pole	6							
White Spruce	3	Pole/Log	8							
White Pine	30	Pole/Log	8							
Balsam Fir	33	Pole	6	38						
Northern White Cedar	1	Log	12							
16	4319 - Mixed Upland Forest	Sapling Well	22.8	25	Immature	N/A		This stand was cut in 1996 in the sale Checkerboard Aspen (#53-008-93), bought by Mattson Logging. All cedar was left along with a few large white pine. Regeneration came back well in most places although aspen is not dominant by any means. The ground is wet in many areas and I would say is roughly a 50/50 split between upland and lowland throughout the entire stand. Trace of paper birch and black spruce.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Northern White Cedar	9	Log/XLog	12		Balsam Fir	Medium	Variable		Sapling	
White Pine	5	Sapling/Pole	4		White Spruce	Trace	Variable		Sapling	
Red Maple	4	Sapling/Pole	3		White Pine	Trace	Variable		Sapling	
Balsam Fir	26	Sapling/Pole	4		Red Maple	Trace	Variable		Sapling	
White Spruce	9	Sapling/Pole	3		Black Ash	Trace	Variable		Sapling	
Balsam Poplar	14	Sapling/Pole	3		Tag Alder	Medium	10 - 20 feet		Tall Shrub	
Quaking Aspen	33	Sapling/Pole	3	25	Nannyberry	Low	5 - 10 feet		Tall Shrub	
					Black Cherry	Low	Variable		Tall Shrub	
17	429 - Mixed Upland Conifers	Sawtimber Well	3.4	97	171-200	N/A	Fairly unique stand of large diameter white pine with a component of cedar mixed in. The east half of the stand doesn't have much cedar and has more red maple. Some of the white pine are very large (30"+ DBH). Average ba/acre from 2 plots = 180 square feet. The ground is mostly dry. No management.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Balsam Fir	3	Pole/Log	8		Balsam Fir	Medium			Variable	Sapling
Quaking Aspen	3	Log	14		White Pine	Trace		Variable	Sapling	
Red Maple	8	Log/Pole	11							
Northern White Cedar	31	Log/Pole	11							
White Pine	55	Log/XLog	16	97						
18	6120 - Lowland Cedar	Sawtimber Medium	6.8	111	51-80	N/A	This stand was cut in 1996 in the sale Checkerboard Aspen (#53-008-93), bought by Mattson Logging. Everything was cut except for cedar along with a few scattered larger trees of other species that were left such as red maple, spruce, aspen, birch, and white pine. Regeneration has come back well in most places. The overstory cedar is irregularly stocked, with more at the north end of the stand. Found one white oak sapling in the middle part of the stand. Average ba/acre from 5 plots = 62 square feet. The stand slopes down to the east but has a large wet swale that runs north/south. The rest of the stand is a mix between upland and lowland. The understory should be big enough to feature in the overstory next cycle.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
White Spruce	2	Log/XLog	14		Quaking Aspen	High		>20 feet	Sapling	
Balsam Fir	20	Pole/Sapling	5		Balsam Fir	Medium		Variable	Sapling	
Red Maple	4	Log	13		Balsam Poplar	Medium		>20 feet	Sapling	
Northern White Cedar	74	Log/Pole	12	111	White Spruce	Low		Variable	Sapling	
					Black Ash	Trace		Variable	Sapling	
					Tag Alder	Trace		Variable	Tall Shrub	
					Black Cherry	Trace		Variable	Tall Shrub	



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19	4134 - Aspen, Spruce/Fir	Sapling Well	37.6	33	Immature	N/A	This stand was clearcut in 1988 in the sale Nannyberry Patch (#53-012-87), bought by Champion. The majority of the stand regenerated well except for a few patches along the east side as well as some of the wetter areas. Cedar was left as residual and is mostly in the east half of the stand. Numerous areas of wet ground, several of which run in a north-south linear fashion. Trace of elm. Terrain slopes gently down to the east.																																																																															
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21	42200 - Natural White Pine	Sawtimber Well	5.7	82	171-200	N/A	Nice white pine stand with some over-mature aspen mixed in. Average ba/acre from 3 plots = 177 square feet. Let the aspen senesce and manage for white pine.																																																																															
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22	6124 - Lowland Spruce-Fir	Poletimber Medium	5.0	67	51-80	N/A	Mixed species stand that is not very well-stocked in all places. Some clumps that are heavy to spruce and fir poletimber. A couple of very large white pine at the north end (25"+ DBH). The ground tends to be more upland along the east edge and becomes progressively wetter as you move west. Average ba/acre from 4 plots = 58 square feet. This stand can likely be cut, although it is worth a more detailed look at how wet it is when there is not snow on the ground. Manage when one of the adjacent aspen stands is cut.																																																																										
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23	6111 - Lowland Balsam Poplar	Poletimber Well	16.6	33	51-80	N/A	This stand was cut in 1988 in the sale Nannyberry Patch (#53-012-87), bought by Champion. Regeneration came back well in most areas, and is especially heavy to balsam poplar in areas. Diameters tend to vary quite a bit throughout the stand. Most of the stand is lowland except for some drier ground along the eastern side in the middle part of the stand, which is where most of the white pine is located. There are some long, linear areas that are very wet with standing water (see 98DOQ imagery) and these should have been protected during the harvest but were not. Trace of elm, white spruce, and red maple.																																																																										
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24	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	45.8	72	51-80	N/A	Moderate quality mixed species stand. Some areas aren't very well-stocked due to blowdown from years ago. Some very large white pine are present (30"+DBH). Cedar is scattered throughout in small clumps. Ground is a mix of upland and lowland with no easily identifiable areas that separate the two. This stand was prescribed for a harvest in the mid-1990's at the same time that stand 32 to the east was harvested. After several attempts the harvest in this stand was dropped due to wet soils. Apparently there is also a clay lense in the soil which made it even more difficult. Average ba/acre from 10 plots = 78 square feet.																																																																										
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25	6124 - Lowland Spruce-Fir	Poletimber Poor	17.7	72	1-50	N/A	Very wet stand that is barely forested. The northern end of the stand is where most of the trees are growing and has a thick understory of alder and holly. The south half of the stand is sparsely stocked with most trees growing along the edges. There used to be a lot of black ash in this part of the stand but all of the larger diameter ash are dead. There is a nice pocket of black ash regeneration that appears healthy. Old inventory notes that a small stream passes through the stand but it is difficult to distinguish as there is no defined stream channel. An old beaver dam, still causing some minor flooding, is present at the far southern end of the stand. Average ba/acre from 5 plots = 44 square feet. Did not visit the middle parts of the stand, which look mostly non-forested.																																																																										
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26	6124 - Lowland Spruce-Fir	Poletimber Medium	4.4	62	51-80	N/A	Wet, mostly low quality stand of swamp conifers. Heavy understory of alder and nannyberry. Small area of upland where the old closed road passes through. Average ba/acre from 5 plots = 80 square feet.																																																											
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27	622 - Lowland Shrub	Nonstocked	18.3		Unspecified	No	Did not look at this stand other than a few spots along the edges. Looks like mostly alder throughout the stand from the imagery along with some scattered conifers in the west part of the stand. A portion of the stand just northeast of the active beaver flooding appears to have been flooded at one time too (see 98DOQ).																																																											
28	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	4.5	130	171-200	N/A	High quality stand dominated by cedar but with a mix of other species present. Very large white pine at the northeast corner (30"+ DBH). Although difficult to tell with snow on the ground, this stand appears to be mostly dry. Trace of red pine in the overstory. Average ba/acre from 2 plots = 190 square feet. Current age came from a 13" cedar tree.																																																											
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29	4134 - Aspen, Spruce/Fir	Sapling Well	9.2	26	Immature	N/A	This stand was harvested in 1995 in the sale Checkerboard Aspen (#53-008-93), bought by Mattson Logging. Regeneration came back thick in most places except for some of the wettest areas which are now just tag alder. Wet ground becomes more abundant as you move north in the stand.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
30	42200 - Natural White Pine	Sawtimber Well	4.8	88	81-110	N/A	This stand was harvested in 1995 in the sale Checkerboard Aspen (#53-008-93), bought by Mattson Logging. All species were removed except for white pine and red pine. Regeneration came back primarily to balsam fir. There is a small wet area in the middle part of the stand. The residual white pine throughout the stand are high quality and there are some very large diameter trees (30"+DBH). Average ba/acre from 5 plots = 92 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		1	Log	15		Balsam Fir		High	Variable	Sapling	
Hemlock		1	Log	16		White Pine		Low	Variable	Sapling	
Balsam Poplar		4	Pole/Sapling	5		Beech		Trace	Variable	Sapling	
Quaking Aspen		3	Pole/Sapling	5		Black Cherry		Low	Variable	Tall Shrub	
Balsam Fir		20	Pole/Sapling	5	26	Balsam Poplar		Trace	>20 feet	Sapling	
Red Pine		7	Log/XLog	15		Quaking Aspen		Trace	>20 feet	Sapling	
White Pine		64	XLog/Log/Pole	20	88	White Spruce		Trace	Variable	Sapling	
						Red Maple		Medium	Variable	Sapling	
31	4319 - Mixed Upland Forest	Poletimber Well	29.9	36	81-110	N/A	This stand was cut in 1985 in the sale Sanctuary Aspen North (#53-017-83), bought by Fred Boudreau. Aspen regenerated well as did balsam fir, which is thick in many areas. Beavers removed most of the aspen along the north edge and portions of the east edge. Trace of paper birch and cedar. Average ba/acre from 13 plots = 104 square feet. A series of narrow, north-south running wet drainages are present in the stand giving it a ridge/swale appearance in places. In general the west half of the stand is much wetter. Stand needs at least another 10 years of growth.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		2	Pole/Sapling	6		Balsam Fir		High	Variable	Sapling	
White Pine		5	Pole/Sapling	6		Black Spruce		Trace	Variable	Sapling	
White Spruce		5	Pole/Sapling	6		White Spruce		Trace	Variable	Sapling	
Black Spruce		1	Pole/Sapling	5		Tag Alder		Trace	10 - 20 feet	Tall Shrub	
Balsam Fir		31	Pole/Sapling	5							
Balsam Poplar		3	Pole/Sapling	6							
Quaking Aspen		53	Pole/Sapling	6	36						
32	4319 - Mixed Upland Forest	Sapling Well	10.9	25	Immature	N/A	This stand was cut in 1996 in the sale Checkerboard Aspen (#53-008-93), bought by Mattson Logging. Regeneration came back very thick in most places making it a difficult stand to get through. Aspen is not dominant by any means as there are large areas where conifers are abundant. The ground is a mix of upland and lowland. A long linear drainage runs north-south along the western edge of the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		1	Pole	7		Balsam Fir		Full	Variable	Sapling	
Paper Birch		2	Sapling	3		White Spruce		Trace	Variable	Sapling	
Northern White Cedar		1	Log	11		Black Spruce		Trace	Variable	Sapling	
White Pine		9	Pole/Sapling	5		Tag Alder		Low	10 - 20 feet	Tall Shrub	
White Spruce		4	Sapling/Pole	4		Black Cherry		Low	5 - 10 feet	Tall Shrub	
Black Spruce		2	Sapling/Pole	3		Nannyberry		Low	5 - 10 feet	Tall Shrub	
Balsam Poplar		21	Sapling/Pole	4							
Balsam Fir		26	Sapling/Pole	3							
Quaking Aspen		34	Sapling/Pole	3	25						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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33 6229 - Mixed lowland shrub Nonstocked 5.3 33 Immature No

Some areas in the east half and northwest corner are filling in with conifers but the majority of the stand is dense lowland shrubs. A small upland knob is present in the northwest corner.

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Balsam Fir	Trace	>20 feet	Pole
Northern White Cedar	Trace	>20 feet	Pole
White Pine	Trace	>20 feet	Pole
Black Spruce	Trace	Variable	Sapling
Black Spruce	Trace	>20 feet	Pole
Red Maple	Trace	>20 feet	Pole
Quaking Aspen	Trace	>20 feet	Pole
Tamarack	Trace	>20 feet	Pole
Paper Birch	Trace	Variable	Sapling
White Pine	Trace	Variable	Sapling
Black Ash	Trace	Variable	Sapling
Tag Alder	Medium	10 - 20 feet	Tall Shrub
Michigan Holly	Low	5 - 10 feet	Tall Shrub
Nannyberry	Low	5 - 10 feet	Tall Shrub
Bog Willow	High	10 - 20 feet	Tall Shrub

34 4136 - Aspen, Mixed Conifer Poletimber Medium 19.6 33 51-80 N/A

This stand was harvested in 1988 in the sale Nannyberry Patch (#53-012-87), bought by Champion. Aspen regenerated well in the north half of the stand but a series of large wet areas in the south half of the stand did not regenerate well and are now filled with a thick layer of lowland shrubs. Diameters on the aspen vary quite a bit depending on where you are at in the stand. Average ba/acre from 7 plots = 67 square feet. Will probably need 2 more entries before this stand is ready for a harvest. Exclude the wet areas next time.

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	1	Pole/Log	8	
Paper Birch	1	Pole	7	
Jack Pine	1	Pole	6	
Red Pine	1	Log	12	
Black Spruce	3	Pole/Sapling	5	
Balsam Fir	15	Pole/Sapling	5	
White Pine	12	Pole/Sapling	6	
Balsam Poplar	12	Sapling/Pole	4	
Quaking Aspen	39	Pole/Sapling	5	33
Bigtooth Aspen	15	Pole/Sapling	6	

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

35 4311 - Pine, Aspen Mix Poletimber Well 1.7 53 201+ N/A

Small stand of aspen and mixed pine that was used as retention for the adjacent harvest to the east in stand 30 in Compartment 8. The north part of the stand is primarily large diameter pine with dense stocking. Average ba/acre from 4 plots = 207 square feet. The stand sits on an elevated knob.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Pole	7	
Balsam Fir	2	Pole	5	
Red Pine	22	Log/XLog/Pole	15	83
White Pine	25	Log/Pole/XLog	14	
Bigtooth Aspen	46	Pole	8	53

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
White Pine	Low	>20 feet	Sapling
White Spruce	Trace	Variable	Sapling
Black Cherry	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																											
36	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	22.1	99	111-140	N/A	Swamp conifer stand of varying quality. The interior of the stand has areas of high quality spruce. Stocking declines in the northern 1/3rd of the stand but there are some large diameter trees (mostly tamarack and cedar) in this area. Small slivers of upland at the northeast corner and southern edge. The ground seems to be wetter along the west and north sides. Average ba/acre from 6 plots = 122 square feet. Questionable operability, need to look at in snow-off conditions.																																																																											
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37	429 - Mixed Upland Conifers	Poletimber Well	17.3	35	81-110	N/A	This stand was clearcut in 1986 in the sale Pine Pockets (#53-019-83), bought by Stampfly Sawmill. All cedar and hemlock was left as residual. The stand regenerated well to a wide mix of species. Previous inventory called this an A3 but there really isn't much aspen in the stand other than a few scattered clones. Most of this stand sits in the upland/lowland transitional zone. The wettest areas are along the east and west edges adjacent to lowland types. Average ba/acre from 8 plots = 83 square feet.																																																																											
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38	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	15.3	75	81-110	N/A	Mostly a poor quality swamp conifer stand with a lot of small diameter trees. The north and south ends of the stand appear to have the wettest ground but the remainder of the stand is not overly wet. Average ba/acre from 4 plots = 103 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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39 42390 - Mixed Non-Pine Upland Conifers Sawtimber Well 6.2 111 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	8	Log/Pole	10	
Paper Birch	7	Pole/Log	8	
White Pine	5	XLog/Log	20	
White Spruce	2	Pole	8	
Black Spruce	14	Pole	7	
Balsam Fir	25	Pole	7	
Northern White Cedar	34	Log/Pole/XLog	10	111
Quaking Aspen	5	Pole/Log	9	

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

Variable stand in terms of upland and lowland. A dry swath of ground runs north-south down the middle of the stand. The northwest corner is a very wet pocket with standing dead timber. The east side of the stand has wetter ground and lower stocking due to quite a bit of blowdown. High quality cedar in the dry parts of the stand with some large diameter trees (18"+ DBH). Small clone of aspen at the southwest end. Trace of red pine and balsam poplar in the overstory. Average ba/acre from 6 plots = 95 square feet.

40 42290 - Natural Mixed Pine Sawtimber Well 81.9 160 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	1	Log	13	
White Spruce	1	Pole/Log	8	
Quaking Aspen	6	Log/XLog	14	
Northern White Cedar	2	Log/Pole	11	
Red Maple	7	Log/Pole	11	
Balsam Fir	9	Pole	6	
Red Pine	20	Log/XLog	16	83
White Pine	54	XLog/Log/Pole	19	160

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

Very high quality natural mixed pine stand. Very large red and white pine are scattered throughout (25" DBH+). Undulating terrain with scattered pockets of wet ground mixed in. Wet ground with cedar is more common west of Fisherman Road. Lots of coarse woody debris and some large tip-up mounds. Heavy fir understory in most places. Trace of paper birch and balsam poplar in the overstory. Average ba/acre from 14 plots = 127 square feet. MNFI confirmed dry mesic northern forest element occurrence. Currently designated as an Ecological Reference Area (ERA) and known as the Pigeon River Pines. Old records show that light harvests did take place in the stand in the 1960's. This stand qualifies as Type 2 Old Growth. No management should take place in the stand except as those activities recommended in the MNFI ERA report. 160 age confirmed by MNFI from a large diameter red pine. 83 age confirmed from a 15" red pine.

41 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 7.3 109 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	4	Pole/Log	8	
Red Maple	11	Pole/Log	8	
Paper Birch	3	Pole	6	
Black Spruce	5	Pole	6	
Balsam Fir	14	Pole	6	
Quaking Aspen	6	Log	11	
White Pine	14	Log/XLog	15	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	>20 feet	Sapling

Mixed conifer stand with a small stream running north through the entire length of the stand. The stream is on the west side of the stand and originates at the south end. The ground does not appear overly wet in this stand except for the area adjacent to the stream. Large diameter white pine is common along the west edge of the stand. Cedar is not dominant in the stand, there are a lot of younger poletimber stems of other species mixed in. Trace of red pine. Average ba/acre from 4 plots = 140 square feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
42	4134 - Aspen, Spruce/Fir	Poletimber Well	29.5	38	51-80	N/A	This stand was clearcut in 1983 in the sale Sanctuary Aspen South (#53-020-83), bought by Champion. Regeneration came back well except for a few small areas of poor stocking. The aspen component is showing excellent growth for it's age and diameters are ready for a harvest, although there is some variation in diameters. In general, the east half of the stand has good site quality with a lot of trees in the 8-11" diameter range. Diameters do tend to decrease along the west side. A few small wet drainages and vernal pools are scattered throughout (see site condition layer). Rolling terrain. Trace of red pine, sugar maple, elm, and cedar. Average ba/acre from 8 plots = 78 square feet.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Spruce	2	Pole	7		Balsam Fir	High		Variable	Sapling
White Pine	5	Pole	6		White Pine	Low		Variable	Sapling
Balsam Fir	20	Pole	6		Ironwood	Low		Variable	Sapling
Red Maple	4	Pole	6		Balsam Poplar	Trace		Variable	Sapling
Quaking Aspen	50	Pole	8	38	White Spruce	Trace		Variable	Sapling
Bigtooth Aspen	19	Pole/Log	8		Red Maple	Trace		Variable	Sapling
					Black Cherry	Trace		Variable	Tall Shrub
					Tag Alder	Trace		Variable	Tall Shrub
43	4319 - Mixed Upland Forest	Sawtimber Well	4.4	63	111-140	N/A	Moderate quality mixed species stand. A variety of diameters are present including some large white pine and aspen (20"+). Lots of coarse woody debris, mostly from the aspen which is dying out of the stand. Recent blowdown from a windstorm when I was in the stand today. It looks like there are a few seasonally wet areas in the western half. Heavy use by deer and there are multiple game trails throughout. Average ba/acre from 4 plots = 125 square feet. The middle part of the stand has several trees numbered with blue paint that is fading. Possibly an old FIA plot?		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Basswood	1	Log/Pole	11		Balsam Fir	Medium		Variable	Sapling
White Spruce	1	Pole/Log	8		White Pine	Low		Variable	Sapling
Ironwood	1	Pole	7						
Balsam Fir	35	Pole/Log	8	63					
White Pine	13	Log/Pole/XLog	14						
Red Pine	1	Log	12						
Red Maple	13	Log/Pole	11						
Quaking Aspen	35	Log/XLog	14	90					
44	4311 - Pine, Aspen Mix	Poletimber Medium	12.4	26	51-80	N/A	This stand was cut in 1995 in the sale Feather-Edge Aspen (#53-007-93), bought by Grossman Forest Products. Regeneration did not come back well and there are many areas, especially in the western half, of poor stocking. Aspen is mostly in the central part of the stand with white pine and fir more dominant along the east and west sides. Found a single white oak sawlog-sized tree in the southwest side of the stand. Average ba/acre from 6 plots = 57 square feet. There are two wet areas in the stand; a small pond in the center and a small wetland along the east side. Neither were protected with a buffer. Might be ready for a treatment in 20 years.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Spruce	1	Pole	6		Balsam Fir	Medium		Variable	Sapling
White Spruce	2	Pole/Log	8		White Pine	Medium		Variable	Sapling
Red Pine	2	Pole	7		Black Cherry	Trace		Variable	Tall Shrub
White Pine	21	Pole/Sapling	6						
Balsam Fir	26	Pole/Sapling	5						
Bigtooth Aspen	7	Pole/Log	8						
Quaking Aspen	41	Pole/Sapling	6	26					
45	42340 - Upland Spruce/Fir	Poletimber Poor	4.5	38	1-50	N/A		This stand was cut at the same time as stand 61, but browsing has eliminated the aspen component. It is now mostly clumps of fir with scattered open areas that have a lot of black cherry. South half of the stand has quite a bit of white pine regeneration. There is also a clump of large oak at the south end. Trace of hemlock, sugar maple, and red pine in the canopy. Average ba/acre from 3 plots = 27 square feet.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Oak	5	XLog/Log	20		White Pine	Medium	Variable		Sapling
Quaking Aspen	8	Pole/Log	8		Balsam Fir	Medium	Variable		Sapling
Red Maple	16	Pole	6		Black Cherry	Medium	Variable		Tall Shrub
White Spruce	6	Pole/Log	8						
White Pine	6	Pole/Log	8						
Balsam Fir	59	Pole/Sap/Log	6	38					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
46	6120 - Lowland Cedar	Poletimber Medium	13.0	102	81-110	N/A	<p>There is some variability in this stand although the majority is poor-quality, declining cedar. The central and northern parts of the stand are primarily dominated by cedar, most of which is either dead or close to it. These parts of the stand are also very wet. The west edge is upland and has a small strip of younger aspen that was cut at the same time as stand 45. The east running finger of the stand is wet and has a lot of smaller stems without much cedar. It's possible this part of the stand was cut at the same time as stand 48, although it doesn't appear so from imagery. A small upland knob with mature aspen/maple/white pine is present at the south end. Average ba/acre from 4 plots = 78 square feet. Difficult to stand to walk through, did not visit the northern 1/3rd of the stand.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Poplar	2	Pole	6		Balsam Fir	High		Variable	Sapling
Red Maple	4	Pole/Log	8		Tag Alder	Medium		10 - 20 feet	Tall Shrub
Quaking Aspen	10	Pole/Log	8						
White Pine	2	Log/XLog	15						
White Spruce	5	Pole	6						
Balsam Fir	20	Pole/Sapling	6						
Northern White Cedar	57	Pole/Log	8	102					
47	4134 - Aspen, Spruce/Fir	Poletimber Well	8.1	36	51-80	N/A		<p>This stand was clearcut in 1985 in the sale Pine Pockets (#53-019-83), bought by Stampfly Sawmill. All cedar was left and is more common at the far northwestern end of the stand. The stand regenerated well to a wide mix of species. Aspen and red maple are more prevalent in the middle parts of the stand with fir and white pine more common along the edges. There is a lot of low, wet ground in the stand. In general the southeastern half of the stand is more upland, while the northwestern half is more lowland. Trace of red pine and paper birch. Also found two yellow birch poletimber stems (yay!). Average ba/acre from 7 plots = 80 square feet. May be ready in 20 years but look at managing on an even longer basis due to species mix and wetter ground. Protect all yellow birch and cedar.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Northern White Cedar	3	Log	12		Balsam Fir	Medium	Variable		Sapling
Black Cherry	1	Pole	5		Red Maple	Medium	>20 feet		Sapling
White Spruce	2	Pole	6		Tag Alder	Trace	10 - 20 feet		Tall Shrub
White Pine	9	Pole/Log	8						
Balsam Fir	24	Pole/Sapling	5						
Red Maple	13	Pole/Sapling	5						
Balsam Poplar	6	Pole	6						
Quaking Aspen	42	Pole	6	36					
48	4319 - Mixed Upland Forest	Poletimber Well	27.5	26	Immature	N/A	<p>This stand was clearcut in 1995 in the sale Feather-Edge Aspen (#53-007-93), bought by Grossman Forest Products. Regeneration came back to a wide mix of species. In general, the north half has most of the white pine and bigtooth aspen. The bigtooth aspen is not well-stocked and is widely scattered throughout. The low stocking has enabled the bigtooth to put on some very big growth for its age. The only exception is an elk enclosure in this north half in which the stocking difference is obvious. The south half of the stand tends to be much wetter and has a high component of BAM and fir. A few of the wet areas did not regenerate and are either filled with lowland shrubs and/or cattails. Trace of paper birch and pin cherry poletimber. Average ba/acre from 9 plots = 82 square feet.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Spruce	1	Pole/Sapling	6		Balsam Fir	High		5 - 10 feet	Sapling
White Spruce	4	Pole	6		White Pine	Medium		5 - 10 feet	Sapling
Red Pine	3	Pole/Sapling	6		White Spruce	Trace		5 - 10 feet	Sapling
White Pine	16	Pole/Sap/Log	6		Black Cherry	Low		Variable	Tall Shrub
Balsam Fir	17	Pole/Sapling	5		Tag Alder	Low		10 - 20 feet	Tall Shrub
Red Maple	4	Pole/Sapling	5						
Bigtooth Aspen	17	Pole/Log	8						
Quaking Aspen	20	Pole/Sapling	5	26					
Balsam Poplar	18	Pole/Sapling	5						
49	4133 - Aspen, Mixed Pine	Poletimber Well	68.9	49	111-140	N/A		<p>Moderate quality aspen stand with some variation in diameters depending on where you are in the stand. A significant white pine component is present in the far northern parts of the stand that are adjacent to the wildlife opening. Most of the smaller, suppressed white pine poletimber is low quality. Although rare, a few large diameter white pine (20"+) are scattered throughout. Trace of red oak, red pine, white spruce, paper birch, and sugar maple. The red oak component is mostly west of the road. Average ba/acre from 20 plots = 121 square feet. Gently rolling terrain.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Balsam Fir	4	Pole/Sapling	6		White Pine	Medium	Variable		Sapling
Red Maple	5	Pole/Sapling	5		Balsam Fir	Medium	Variable		Sapling
White Pine	24	Pole/Log/XLog	8		Red Maple	Low	>20 feet		Sapling
Quaking Aspen	10	Pole	7		Beech	Trace	Variable		Sapling
Bigtooth Aspen	57	Pole/Log	8	49	Ironwood	Trace	Variable		Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
50	42200 - Natural White Pine	Poletimber Medium	11.1	35	51-80	N/A	This stand was clearcut in 1986 in the sale Pine Pockets (#53-019-83), bought by Stampfly Sawmill. Previous inventory noted that aspen did regenerate but was mostly killed off by browse. Pine has filled in moderately well. There is a dense patch of decent quality pine in the north half of the stand as well as at the far western end, but the remainder of the stand is poorly-stocked, open-grown white pine. Trace of red maple poletimber. Average ba/acre from 6 plots = 72 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		8	Pole/Sapling	7		White Pine		Medium	Variable	Sapling	
Black Spruce		3	Pole	7		Black Cherry		Trace	Variable	Tall Shrub	
Balsam Fir		17	Pole	7							
Red Pine		5	Pole/Log	8							
White Pine		67	Pole/Log	8	35						
51	4119 - Mixed Northern Hardwoods	Sawtimber Well	4.4	87	111-140	N/A	Small stand of moderate quality hardwoods. Large vernal pool in the middle of the stand. Large diameter red oak, most of which is in the northeastern part of the stand. Trace of white spruce, hemlock, black cherry, and white pine. Average ba/acre from 4 plots = 120 square feet. No management recommended since this is such a small stand. Leave as landscape level retention.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Ironwood		1	Pole	6		Balsam Fir		Medium	Variable	Sapling	
Beech		1	Log/Pole	11		Ironwood		Trace	Variable	Sapling	
Red Oak		2	Log/XLog	17							
Balsam Fir		8	Pole	6							
Quaking Aspen		8	Log/XLog	15							
Basswood		9	Log/XLog	15							
Sugar Maple		19	Log/Pole	10							
Red Maple		52	Log/Pole	10	87						
52	42290 - Natural Mixed Pine	Sawtimber Well	4.3	70	81-110	N/A	Moderate quality mixed pine stand. Quite a bit of variation in red pine diameters. Not well-stocked in all areas but no evidence of a past harvest. Stand sits on an elevated knob. Trace of white oak and white spruce in the canopy. Average ba/acre from 3 plots = 90 square feet. The survey corner is in and is right on the edge of a maintained yard.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		1	Pole	6		White Pine		Medium	Variable	Sapling	
Red Maple		9	Pole	6		Red Maple		Low	>20 feet	Sapling	
Bigtooth Aspen		7	Log/Pole	13		White Spruce		Trace	Variable	Sapling	
Quaking Aspen		4	Log	12		Balsam Fir		Trace	Variable	Sapling	
White Pine		21	Log/Pole	13							
Red Pine		58	Log/Pole	12	70						
53	4134 - Aspen, Spruce/Fir	Sapling Well	26.9	25	Immature	N/A	This stand was cut in 1996 in the sale Feather Edge Aspen (#53-007-93), bought by Grossman Forest Products. Regeneration came back moderately well to aspen. There are some areas at the far northern end as well as along the southwestern part of the stand that did not regenerate well due to browse. Ground is a mix of upland and lowland with numerous wetlands/vernal pools mixed in throughout. None of these were protected with a buffer during the harvest. Widespread rutting damage is evident throughout the western half of the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Ironwood		1	Sapling	2		Balsam Fir		Medium	5 - 10 feet	Sapling	
Black Cherry		1	Sapling	4		Ironwood		Low	10 - 20 feet	Sapling	
White Spruce		3	Sapling/Pole	4		White Spruce		Low	5 - 10 feet	Sapling	
White Pine		4	Sapling/Pole	4		Black Cherry		Low	Variable	Tall Shrub	
Balsam Fir		25	Sapling/Pole	3		Black Ash		Trace	5 - 10 feet	Sapling	
Red Maple		3	Sapling/Pole	3							
Balsam Poplar		10	Sapling/Pole	4							
Bigtooth Aspen		5	Sapling/Pole	4							
Quaking Aspen		48	Sapling/Pole	4	25						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
54	6130 - Fir, Aspen, Maple	Poletimber Well	5.9	38	81-110	N/A	It's difficult to tell from imagery but I'm guessing this stand was cut at the same time as adjacent stand 104 in the sale Sanctuary Aspen South (#53-030-83), bought by Champion. There are some scattered large diameter aspen and red maple so this stand may have only been partially-harvested. Regardless it regenerated back well to a mix of species, although fir is dominant. The west half of the stand becomes very wet, with some areas of standing water. The east half is much drier. Trace of white oak, sugar maple, and black spruce. Average ba/acre from 4 plots = 103 square feet. Still a lot of small diameters so no treatment for at least another ten years, maybe twenty. Protect wet ground and rare species.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Yellow Birch		1	Pole	7		Balsam Fir		High	Variable	Sapling	
Balsam Poplar		2	Pole	7							
American Elm		2	Pole	6							
Paper Birch		2	Pole	7							
Red Maple		27	Pole	7							
Quaking Aspen		23	Pole	7							
Balsam Fir		43	Pole/Sapling	5	38						
55	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	1.5	75	81-110	N/A	Wet stand that didn't get cut with adjacent stand 104 during the last treatment. Scattered larger aspen, red maple, and cedar are present throughout with younger aspen and fir mixed in. Old skid trail runs north through the stand, some upland ground in and around this area. But just west of the skid trail is an area of standing water without any trees. Average ba/acre from 3 plots = 103 square feet. Trace of sugar maple.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
American Elm		1	Log	14		Balsam Fir		High	Variable	Sapling	
Balsam Fir		16	Pole	6		Red Maple		Trace	Variable	Sapling	
Balsam Poplar		7	Pole/Log	8		Balsam Poplar		Trace	Variable	Sapling	
Quaking Aspen		23	Pole/Log	8		Ironwood		Trace	Variable	Sapling	
Red Maple		17	Log	12							
Northern White Cedar		36	Log/Pole	10	75						
56	4134 - Aspen, Spruce/Fir	Poletimber Well	36.1	38	81-110	N/A	Nice emerging poletimber stand. Stand harvested in 1983 by Champion in the sale Sanctuary Aspen South (#53-020-83-01). A few areas of wet ground mixed in throughout the north half of the stand, including a very wet cedar pocket that looks like it was excluded when the stand was last cut. The south/southeast half of the stand sits at a slightly higher elevation. Trace of American elm, red pine, and pin cherry. Average ba/acre from 8 plots = 85 square feet. Stand should be ready for a harvest next entry.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		5	Pole/Log	8		Balsam Fir		Medium	Variable	Sapling	
Black Cherry		1	Pole	5		Red Maple		Low	Variable	Sapling	
Paper Birch		1	Pole	5		Ironwood		Low	Variable	Sapling	
Balsam Poplar		2	Pole	8		White Spruce		Trace	Variable	Sapling	
Northern White Cedar		1	Pole/Log	8		White Pine		Trace	Variable	Sapling	
White Pine		5	Pole/Log	8		Balsam Poplar		Trace	Variable	Sapling	
White Spruce		4	Pole/Log	8		Black Cherry		Low	Variable	Tall Shrub	
Balsam Fir		23	Pole/Sapling	6							
Red Maple		6	Pole	6							
Quaking Aspen		52	Pole	6	38						
57	6120 - Lowland Cedar	Sawtimber Well	3.7	93	81-110	N/A		Very wet stand. Moderate quality cedar although some of it is in decline. It looks like there was a large area of blowdown in the south half of the stand years ago but that area has now filled in with mostly paper birch and red maple. There used to be black ash in this area of the stand as well but it is all dead. Trace of yellow birch and basswood. Average ba/acre from 3 plots = 110 square feet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Balsam Poplar		3	Pole	7		Balsam Fir			Medium	Variable	Sapling
American Elm		3	Pole	6		Red Maple			Low	>20 feet	Sapling
Red Maple		8	Pole	6		American Elm			Trace	Variable	Sapling
Paper Birch		10	Pole	7		Paper Birch			Trace	>20 feet	Sapling
Balsam Fir		3	Pole	5		Tag Alder			Low	5 - 10 feet	Tall Shrub
Northern White Cedar		73	Log/Pole	10	93	Black Ash			Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																	
58	6223 - Inundated Shrub Swamp	Nonstocked	2.3	0	Unspecified	No	Mostly flooded stand with dead timber due to beavers. Quite a bit of beaver activity along the perimeter in adjacent upland stands, although it does look a few years old. Moderate amount of younger red maple throughout the stand, and which appears to still be alive. An old elevated road is along the northeast border and seems to be blocking water flow between this stand and stand 57 to the east.																	
								Sub-Canopy Species	Density	Avg. Height	Size													
								Red Maple	Medium	Variable	Sapling													
								Red Maple	Low	>20 feet	Pole													
								Northern White Cedar	Trace	>20 feet	Pole													
								Balsam Fir	Trace	Variable	Sapling													
Tag Alder	High	5 - 10 feet	Tall Shrub																					
59	6239 - Mixed Emergent Wetland	Nonstocked	2.2		Unspecified	No	Bog-like in the interior with a ring of Michigan Holly and open water around the perimeter. A small beaver lodge is present at the southeast side and some saplings in the adjacent upland stand are being taken down.																	
								Sub-Canopy Species	Density	Avg. Height	Size													
								Red Maple	Low	>20 feet	Pole													
								Red Maple	Low	>20 feet	Log													
								Yellow Birch	Trace	>20 feet	Log													
								Quaking Aspen	Trace	>20 feet	Log													
								Northern White Cedar	Trace	>20 feet	Log													
								White Pine	Trace	>20 feet	Log													
								Beech	Low	Variable	Sapling													
								Balsam Fir	Trace	Variable	Sapling													
								White Pine	Trace	Variable	Sapling													
								Michigan Holly	Low	5 - 10 feet	Tall Shrub													
								Leatherleaf	Medium	< 5 feet	Tall Shrub													
60	4110 - Sugar Maple Association	Sawtimber Well	165.0	79	81-110	N/A	Moderate to high quality hardwood stand. Last thinned in 2008. Vernal pools, pit and mound topography, and seasonal drainages are mixed in throughout, most notably at the far north end of the stand, the area surrounding the interior wetland, and the far southwest corner. Unfortunately not many of these areas were protected during the most recent harvest and rutting damage is common in some areas. The northern edges of the stand tend to transition to more of a red maple/birch/aspens type, and the fir understory increases in these areas. Rolling terrain but no inoperable slopes. Trace of balsam poplar, balsam fir, yellow birch, white pine, and American elm in the overstory. Average ba/acre from 13 plots = 104 square feet.																	
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size								
								Ironwood	1	Pole	5		Ironwood	Medium	Variable	Sapling								
								Paper Birch	1	Log/Pole	10		White Ash	Medium	5 - 10 feet	Sapling								
								Quaking Aspen	1	Log	13		Beech	Low	Variable	Sapling								
								Red Maple	3	Pole/Log	9		Balsam Fir	Low	Variable	Sapling								
								Basswood	42	Log/XLog	13		White Pine	Trace	Variable	Sapling								
								Beech	4	Log/XLog/Pole	15		White Spruce	Trace	Variable	Sapling								
								Sugar Maple	48	Log/Pole	10	79												
								61	4130 - Aspen	Poletimber Well	32.9	38	81-110	N/A	Moderate quality aspen stand. Last cut by Champion in 1983 in the sale Sanctuary Aspen South (#53-020-83-01). Several poorly-stocked, semi-open areas that are a result of past browse damage. A small amount of hardwoods regenerated in the narrow finger that extends east. However, the remainder of the stand has little to no species diversity and is primarily aspen and fir. A small wet inclusion is present in the west side of the stand, it's possible that there are a few more of these scattered throughout. Terrain is gently rolling. Trace of sugar maple, red maple, black spruce, red pine, and red oak in the overstory. Average ba/acre from 10 plots = 85 square feet.									
																Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
																Black Cherry	1	Pole	5		Balsam Fir	High	Variable	Sapling
																White Pine	2	Log/Pole	11		White Pine	Trace	Variable	Sapling
																White Spruce	2	Pole	6		White Spruce	Trace	Variable	Sapling
Ironwood	1	Pole	5		Black Cherry	Low	Variable									Tall Shrub								
Balsam Fir	10	Pole	6		Ironwood	Trace	Variable									Sapling								
Bigtooth Aspen	10	Pole/Log	8																					
Quaking Aspen	74	Pole	7	38																				



Stand	Level 4 Cover Type	Size	Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
65	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber	Poor	18.1	81	51-80	N/A	Poorly-stocked, wet stand with a lot of variability. The south 1/3 of the stand looks like it may have been harvested at one time, likely at the same time as adjacent stand 93 to the east in Compartment 8. Scattered residual basswood and other hardwoods are present along with areas of thick beech and ironwood regeneration. The middle part of the stand is very wet and has a clump of cedar with quite a bit of yellow birch mixed in. A lot of the cedar is in decline and many have already died. A stream passes through the northern part of the stand with a few areas of drier ground near it. Non-forested wetland areas with cattails are scattered throughout the entire stand. Heavy browse evident on the ash regeneration. Average ba/acre from 6 plots = 53 square feet. The entire stand sits on an east facing slope. No management.																																																																
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66	6120 - Lowland Cedar	Poletimber	Medium	3.4	96	111-140	N/A	Small, wet stand of primarily cedar but with a few hardwoods mixed in. Large area of blowdown along the west/southwest side. Average ba/acre from 4 plots = 113 square feet.																																																																
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67	4110 - Sugar Maple Association	Sawtimber	Well	31.3	96	81-110	N/A	Moderate quality hardwoods with some large diameter trees (20"+ DBH) mixed in throughout. Stand was thinned in 2008. A wet drainage flows west through the northern part of the stand (see site condition layer). This was not protected during the harvest and there are several areas of rutting in and around the drainage. Trace of yellow birch, hemlock, and balsam fir in the overstory. Average ba/acre from 7 plots= 100 square feet. Most of the stands sits on a very slight west-facing slope.																																																																
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68	4119 - Mixed Northern Hardwoods	Poletimber	Well	24.8	86	81-110	N/A	Moderate quality hardwood stand. Not sure of the cutting history but this looks like it was cut at one time while under private ownership. BAs vary considerably as there are areas along the east side that were cut more heavily. A wet drainage starts in the north-central part of the stand and flows northwest, eventually leading into the adjacent pond. There used to be a small clump of cedar at the northern end of this drainage but most of this has blown over. Some yellow birch are present in and around the drainage. The white pine component is mostly at the south end along with a few small clumps of hemlock. Average ba/acre from 8 plots = 83 square feet.																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
69	4130 - Aspen	Sapling Poor	57.6	6	Immature	N/A	This stand was cut as part of the Hackett Lake timber sale (#53-025-13-01), bought by Northern Timberlands, and cut in the fall and early winter of 2014 by a whole-tree crew. Regeneration has come back very spotty due to deer and elk browse. The south half regenerated pretty well to quaking aspen and at this point looks like it will get past the browse level. The north half on the other hand is being hammered by elk with many areas converted to a non-forested grass and sedge mixture. There is more bigtooth in this area of the stand and I'm doubtful that much will survive if browsing continues. Nearly anything else growing in the stand has been browsed, including the blackberry/raspberry component. Species diversity has been significantly reduced as the prior stand had hardwoods and pine but these are now absent. Maple stump sprouts are mostly dead and look like landscape bushes due to the persistent browse. Yet another productive stand that has been destroyed.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	56	Sapling	1	6	Balsam Fir	Trace		< 5 feet	Seeding
Beech	1	Sapling	1		White Pine	Trace		< 5 feet	Seeding
Ironwood	3	Sapling	1		Red Pine	Trace		< 5 feet	Seeding
Quaking Aspen	40	Sapling	1		Red Maple	Trace		< 5 feet	Seeding
					Blackberry/Raspberry	Medium		< 5 feet	Tall Shrub
					Black Cherry	Trace	5 - 10 feet	Tall Shrub	
70	4119 - Mixed Northern Hardwoods	Sawtimber Well	12.6	85	81-110	N/A	Long, linear hardwood stand bordered on the east by an old north-south running road which used to be the boundary between State land to the east and privately-owned Hackett Lake property to the west. As a result, this stand has not been managed with the adjacent hardwood stand to the east (stand 60). In fact, it doesn't look like this has been treated before. The thin part of the stand has numerous wet drainages flowing east to west into adjacent stands. The drainages are ponding in several spots on the road. The southern "bubble" of the stand is high quality with dense stocking. Trace of yellow birch, hemlock, and balsam fir in the overstory. Average ba/acre from 8 plots = 98 square feet. Leave this stand unmanaged.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	3	Log/XLog	15		Beech	Low		Variable	Sapling
Paper Birch	4	Log	11		Balsam Fir	Low		Variable	Sapling
Beech	2	Log	14		Sugar Maple	Low		>20 feet	Sapling
Basswood	15	Log	12						
Red Maple	12	Log/Pole	10						
Sugar Maple	64	Log/Pole	10	85					
71	6120 - Lowland Cedar	Poletimber Well	2.2	109	141-170	N/A	Small stand of pretty nice cedar. Hardwoods mostly along the edges. A small stream borders the west edge of the stand. Trace of yellow birch. Average ba/acre from 3 plots = 170 square feet.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	1	Pole	7		Ironwood	Trace		Variable	Sapling
Quaking Aspen	11	XLog/Log	19		Balsam Fir	Trace		Variable	Sapling
Basswood	4	Log/XLog	13						
Paper Birch	4	Log	12						
Red Maple	12	Log/Pole	12						
Northern White Cedar	68	Pole/Log	9	109					
72	4134 - Aspen, Spruce/Fir	Poletimber Medium	21.9	37	51-80	N/A	Moderate quality aspen stand that was cut while under private ownership. Regeneration came back spotty in areas, especially in the south half. North half of the stand has several wet areas, some with standing water, as well as a few drainages flowing down to the west. Trace of white spruce and basswood. Heavy fir understory in the north half. Average ba/acre from 7 plots = 63 square feet. Most of the stand sits on a slight west facing slope. Not quite ready for a harvest but will be next entry. Protect all wet areas.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Beech	1	Pole	8		Balsam Fir	High		Variable	Sapling
Sugar Maple	1	Pole/Log	8		Ironwood	Trace		Variable	Sapling
Red Maple	2	Pole	7		Black Cherry	Low		Variable	Tall Shrub
White Pine	3	Pole	6		Leatherwood	Low		< 5 feet	Tall Shrub
Balsam Fir	35	Pole/Sap/Log	6						
Balsam Poplar	4	Pole	7						
Quaking Aspen	54	Pole	7	37					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																		
73	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	53.9	86	81-110	N/A	Diverse stand with a lot of variability and an upland/lowland mix that is about split evenly. A stream travels through the entire stand and is joined by several other drainages. Difficult stand to type out and could be split up further in the future. In general, there is more lowland in the center of the stand and hardwood inclusions tend to be around the edges. Lowland areas have a lot of blowdown and a heavy fir understory. Terrain slopes down to the north but there are scattered knobs as well as some small ravines along the stream. Trace of yellow birch. Average ba/acre from 13 plots = 90 square feet. No management due to the stream and multiple drainages.																																																																		
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74	320 - Upland Shrub	Nonstocked	0.8	Unspecified	No		Small opening that was likely used as a landing when the surrounding aspen stand was cut. Nice representation of goldenrod, bee-balm, and raspberry throughout.																																																																		
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75	6239 - Mixed Emergent Wetland	Nonstocked	11.3	Unspecified	No		Small area of alder and fir with a few cedar and tamarack in the middle part of the stand. The remainder is a wet meadow/emergent wetland with braided channels of a stream passing through.																																																																		
76	6239 - Mixed Emergent Wetland	Nonstocked	2.7	Unspecified	No		Wetland area. It looks like this used to be more of a forested stand as there are scattered dead aspen, basswood, and balsam poplar.																																																																		
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77	4130 - Aspen	Sapling Poor	36.0	2	Immature	N/A	This stand was cut in the sale Hackett Lake Aspen (#53-025-13-01) bought by Northern Timberlands, but this unit was transferred to EJ&Z Transport and cut by their roundwood crew in the winter of 2019-20. Regeneration is in the 2-5 foot range and all aspen at this point. Browse damage from deer and elk is already evident and making an impact, particularly the western half of the stand which is being browsed heavily. A lot of hardwoods were originally in this stand but there is no evidence of any hardwood species successfully regenerating. Red oak were left as residual as well as a few large white pine. The northeast side of the stand goes up right to the edge of a stream and ravine with hardly any buffer left. The north part of the stand sits on a north/northeast facing slope.																																																																		
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78	4112 - Maple, Beech, Cherry Association	Poletimber Well	15.5	87	81-110	N/A	Much better quality hardwood stand than the adjacent stand to the west and has a lot more sugar maple in the canopy. Most of this stand sits on steep east facing slopes. The north half of the stand is heavier to sugar maple and basswood, while red maple, beech, and aspen start to increase in abundance in the south half. The fir understory is mostly in the south half as well. Trace of red oak and paper birch. Average ba/acre from 5 plots = 96 square feet. Too steep to operate on.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Red Pine	1	Log/XLog	15		Ironwood	Low		Variable	Sapling	
Ironwood	1	Pole	5		Red Maple	Trace		>20 feet	Sapling	
Bigtooth Aspen	5	Log	15		Balsam Fir	Medium		Variable	Sapling	
Quaking Aspen	2	Log	14		Beech	Trace		Variable	Sapling	
White Pine	1	Log	14							
Basswood	9	Log	12							
Beech	9	Pole/Log	8							
Red Maple	19	Pole/Log	8							
Balsam Fir	1	Pole	5							
Sugar Maple	52	Pole/Log	9	87						
79	6120 - Lowland Cedar	Poletimber Well	7.9	109	111-140	N/A		Vein of mostly cedar running north/south through the middle of the stand but the edges transition to upland with QA/RM/PB mixed in. A wet drainage starts at the south end of the stand, draining north, and eventually forming into a stream at the north end. Trace of yellow birch. Average ba/acre from 5 plots = 130 square feet. No management.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height	Size
Balsam Poplar	2	Pole/Log	9		Balsam Fir	Medium			Variable	Sapling
Paper Birch	3	Log/Pole	11							
Quaking Aspen	11	Log/XLog	14							
Red Maple	8	Log/Pole	10							
Balsam Fir	11	Pole/Log	8							
Northern White Cedar	65	Pole/Log	8	109						
80	4130 - Aspen	Sapling Medium	8.7	2	Immature	N/A	This stand was cut as part of the Hackett Lake timber sale (#53-025-13-01) bought by Northern Timberlands. This stand was cut in the winter of 2019. Current aspen regeneration is running about 2-4 feet tall and is not very well-stocked in all parts of the stand. Almost all aspen stems have been browsed. Red maple stump sprouts are being heavily browsed and I doubt they'll make it. 1 mature red oak in the stand.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Bigtooth Aspen	100	Sapling	1	2	Red Maple	Low		< 5 feet	Seeding	
					Beech	Low		< 5 feet	Seeding	
					Ironwood	Low		< 5 feet	Seeding	
81	4130 - Aspen	Poletimber Well	15.7	43	111-140	N/A	This stand is basically 2 different aspen stands. The west half is smaller diameter bigtooth aspen with some scattered hardwoods mixed in. The east half is better quality with a mix of quaking and bigtooth aspen. Diameters are much larger in this eastern half, almost an A9. Fir is primarily in the east half. A small inclusion of basswood, sugar maple, and oak is present in the middle part of the stand along the southern stand edge. A small drainage starts on the east side of the road that splits the stand and then goes northwest until meeting with the cedar stand to the north (stand 79). There are a couple of cedar and larger red maple in this drainage. Trace of white pine and white spruce. Average ba/acre from 9 plots = 116 square feet.			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Red Pine	1	Log/Pole	13		Ironwood	Low		Variable	Sapling	
Beech	1	Pole/Log	8		Red Maple	Low		>20 feet	Sapling	
Ironwood	1	Pole	5		Balsam Fir	Medium		Variable	Sapling	
Sugar Maple	1	Pole/Log	8		Black Cherry	Low		Variable	Tall Shrub	
Red Maple	7	Pole	7		Leatherwood	Low		< 5 feet	Tall Shrub	
Balsam Fir	6	Pole/Log	8							
Quaking Aspen	23	Log/Pole	10							
Bigtooth Aspen	58	Pole/Log	9	43						
Balsam Poplar	2	Pole/Log	9							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																			
82	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	8.3	72	81-110	N/A	Mixed species stand bordering Hackett Lake. The narrow southern half of the stand has more white pine and is not as well-stocked. A small walking trail passes through this area. The north half of the stand has much more red pine and sits on relatively steep slopes that lead down to the lake. A few pockets of red pine look planted but for the most part it appears to be of natural origin. Trace of paper birch and balsam fir poletimber. Average ba/acre from 5 plots = 104 square feet. No management due to slopes and proximity to the lake.																																																																			
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83	500 - Water	Nonstocked	30.9		Unspecified	No	Hackett Lake																																																																			
84	6120 - Lowland Cedar	Poletimber Medium	4.9	83	51-80	N/A	Very wet, poor quality stand. A lot of the cedar is in decline. Small component of large supercanopy white pine that is healthy. Average ba/acre from 3 plots = 70 square feet.																																																																			
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85	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	21.4	73	81-110	N/A	Diverse stand that borders Hackett Lake. The entire stand slopes down gently to the east. Nice representation of large diameter, supercanopy red and white pine. The north half of the stand has several pockets of hemlock. Within this area there is a small amount of hemlock regeneration (a first for the PRC!), with some but not all having grown above the browse line (good examples of nurse log regeneration). Average ba/acre from 7 plots = 97 square feet. This stand provides a good buffer for the lake and should not be managed.																																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
86	4133 - Aspen, Mixed Pine	Sawtimber Well	78.3	70	111-140	N/A	<p>Large stand of aspen with a significant component of natural pine. The pine occurs individually and in scattered clumps throughout, with a second age class of XL-sized trees present (18"+ DBH). The aspen component is poor-quality in areas where it is mixed in with a lot of pine. There are a decent amount of large aspen snags present. Quaking aspen/fir component is mostly at the far eastern end. Rolling terrain throughout but no steep slopes. Trace of beech, white spruce, and paper birch in the overstory. Average ba/acre from 13 plots = 119 square feet. Hold for ten years and treat next entry.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		1	Pole	6		White Pine		High	Variable	Sapling	
Red Oak		1	Log/XLog	16		Balsam Fir		Low	Variable	Sapling	
Sugar Maple		1	Pole/Log	8		Beech		Trace	Variable	Sapling	
White Pine		11	Log/Pole/XLog	11		Ironwood		Trace	Variable	Sapling	
Red Maple		13	Pole/Log	8		Black Cherry		Low	Variable	Tall Shrub	
Red Pine		22	Log/Pole	11							
Quaking Aspen		4	Log/Pole	12							
Bigtooth Aspen		47	Log/Pole/XLog	12	70						
87	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	15.1	73	141-170	N/A	<p>Natural pine stand that has a smaller amount of aspen and red maple mixed in. There are two age classes of pine present in the stand. The east running finger of the stand slopes down to the lake and has clumps of large diameter pine (15"+ DBH). The north-south running part of the stand is on a slight western aspect and has pine that is younger and smaller in diameter. The aspen component is poor quality. Average ba/acre from 6 plots = 148 square feet.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Beech		1	Pole	6		White Pine		High	Variable	Sapling	
Red Maple		10	Pole	6		Balsam Fir		Low	Variable	Sapling	
Bigtooth Aspen		19	Log/Pole	11							
Quaking Aspen		3	Log	12							
Red Oak		1	Log	14							
White Pine		16	Log/XLog	15	98						
Red Pine		50	Log/Pole/XLog	13	73						
88	629 - Mixed non-forested wetland	Nonstocked	2.4		Unspecified	No	<p>Heavy to sedge and alder at the south end. Only looked at the edges of this stand.</p>				
Sub-Canopy Species		Density	Avg. Height	Size							
Red Maple		Low	>20 feet	Pole							
Paper Birch		Trace	>20 feet	Pole							
Quaking Aspen		Trace	>20 feet	Pole							
White Pine		Low	Variable	Sapling							
Tag Alder		High	5 - 10 feet	Tall Shrub							
89	4130 - Aspen	Sawtimber Well	53.7	65	111-140	N/A	<p>Nice stand of large diameter aspen. Mostly good quality except for a few localized areas where some stems are in decline. Pine is scattered throughout although it tends to occur in clumps. Rolling terrain with a few steep slopes. Hardwood influence increases along the east stand boundary. Trace of red oak and balsam fir in the overstory. Average ba/acre from 15 plots = 138 square feet. Successful regeneration is a concern due to browse impacts, which is heavily impacting the recent cut that took place in adjacent stand 77.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Beech		1	Pole	8		White Pine		Medium	Variable	Sapling	
White Pine		10	Pole/Log/XLog	8		Red Maple		Low	>20 feet	Sapling	
Red Pine		2	Log/Pole/XLog	13		Balsam Fir		Trace	Variable	Sapling	
Sugar Maple		2	Pole	7							
Red Maple		14	Pole/Log	8							
Bigtooth Aspen		71	Log	13	65						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
90	429 - Mixed Upland Conifers	Sawtimber Well	11.2	84	111-140	N/A	At least a two-aged stand with a variety of white pine sizes present. The interior of the stand has some very large white pine, several in excess of 30" DBH, and may have some seasonally wet ground as pit and mound topography is present. The aspen component is more prevalent along the edges and in general the quaking aspen is not very good quality. The eastern finger of the stand is not as well-stocked as the rest of the stand. Trace of white spruce. Average ba/acre from 5 plots = 114 square feet. Mostly flat terrain. Manage for white pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	9	Log	13		Balsam Fir	Medium		Variable	Sapling
Balsam Fir	5	Pole/Sapling	6		White Pine	Medium		Variable	Sapling
Red Maple	3	Pole	6		Red Maple	Low		>20 feet	Sapling
Bigtooth Aspen	5	Pole	8						
Quaking Aspen	28	Pole	7	49					
White Pine	50	Log/Pole/XLog	12	84					
91	4136 - Aspen, Mixed Conifer	Sawtimber Well	6.6	49	111-140	N/A	Nice stand with a lot of big diameters. Aspen quality is generally good although diameters tend to vary, with the largest diameters in the east half of the stand. Red oak is mostly in the middle part of the stand. Trace of red pine, beech, and paper birch. Average ba/acre from 7 plots = 119 square feet. There may be a few areas of seasonally wet ground along the west edge although it's difficult to tell with the snow on the ground.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Spruce	1	Log/XLog	14		Balsam Fir	Medium		Variable	Sapling
Red Oak	3	XLog/Log	18		White Pine	Trace		Variable	Sapling
Balsam Fir	12	Pole	6		White Spruce	Trace		Variable	Sapling
Red Maple	15	Pole/Log	8						
White Pine	12	Log/XLog/Pole	14						
Bigtooth Aspen	4	Log	11						
Quaking Aspen	53	Log/Pole	10	49					
92	4319 - Mixed Upland Forest	Poletimber Well	10.4	49	111-140	N/A	Nice aspen/fir stand with a few large diameter trees scattered throughout. A couple of quaking aspen >20" DBH can be found in the south half, while the north half has some large white pine in excess of 20". A small amount of red pine is present at the northeast side of the stand. An area of seasonally wet ground is present along the NW side. Average ba/acre from 6 plots = 125 square feet.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	5	Pole/Log/XLog	8		Balsam Fir	High		Variable	Sapling
White Spruce	2	Pole/Log	8						
Balsam Fir	40	Pole/Sap/Log	6						
Red Maple	2	Log/Pole	12						
Bigtooth Aspen	7	Pole/Log	9						
Quaking Aspen	44	Pole/Log	9	49					
93	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.8	71	81-110	N/A	Mediocre to poor quality hardwoods with a lot of small diameter trees. Pine displays the best quality and tends to occur in clumps, with most being in the middle part of the stand. There are a few large diameter white pine present (25"+ DBH). Aspen is most common at the east end of the stand. A few large diameter aspen (18"+ DBH) with lots of rot are scattered throughout. Most beech has BBD. Trace of basswood. Average ba/acre from 7 plots = 81 square feet. There is a small open area in the middle of the stand that is now filling in with pine. This may have been the site for an old building at one time?		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	12	Log/Pole/XLog	14		White Pine	Medium		Variable	Sapling
White Pine	19	Log/Pole/XLog	13		Balsam Fir	Low		Variable	Sapling
Bigtooth Aspen	19	Log	13		Beech	Trace		Variable	Sapling
Beech	8	Pole/Log	8		Ironwood	Trace		Variable	Sapling
Sugar Maple	5	Pole/Log	8						
Red Maple	35	Pole/Log	8	71					
Red Oak	1	Log/XLog/Pole	15						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
94	42290 - Natural Mixed Pine	Sawtimber Well	5.8	73	111-140	N/A	Moderate quality mixed pine stand. The pine is more prevalent in clumps at the north and south ends. Similar to stand 87 there is a second age class of older, larger pine present, a few of which are very large in diameter (20"+). The aspen/red maple component becomes more common along the west edge. Average ba/acre from 4 plots = 120 square feet. Flat terrain.																																																			
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95	4130 - Aspen	Sapling Poor	34.3	2	Immature	N/A	This stand was cut as part of the Hackett Lake timber sale (#53-025-13-01) bought by Northern Timberlands. This stand encompasses Unit 2 and was cut in the winter of 2019 by a whole-tree crew. Regeneration is mostly in the 3-7 foot range at this point. Aspen has come back moderately well but there are areas where deer and elk browse are having an impact. Bigtooth aspen is the dominant species so I expect this stand to suffer similar browse damage as stand 69 to the west. A significant amount of hardwoods were cut out of this stand but none are regenerating except for some beech and ironwood. Black cherry sprouts are abundant and due to the good quality of the soils may become merchantable in the future.																																																			
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96	500 - Water	Nonstocked	0.4	0	Unspecified	No	Small pond with some quaking aspen, balsam poplar, ironwood, and sugar maple along the edges.																																																			
97	330 - Low-Density Trees	Nonstocked	1.1	0	Unspecified	No	Old landing from when the surrounding aspen stand was cut. The west half is filling in with white pine and BAM.																																																			
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98	4113 - R.Maple, Conifer	Sawtimber Well	2.2	79	81-110	N/A	Small stand that was not thinned when stand 60 to the south was. Heavy to red maple with a thick balsam fir understory. Some wet areas in the west side of the stand. Lots of coarse woody debris. Average ba/acre from 3 plots = 103 square feet.																																																			
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99	42330 - Upland Fir	Sapling Poor	2.2	26	Immature	N/A	This stand was cut at the same time as adjacent stand 48 but did not regenerate well, likely due to browse. Scattered patches of fir are present. The white pine component has heavy weevil damage. Trace of quaking aspen saplings.																													
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100	122 - Road/Parking Lot	Nonstocked	2.8	0	Unspecified	No	Webb Road																													
101	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	9.8	76	51-80	N/A	Strange stand that is a mix of upland and lowland. The stand sits on a slight western slope and there are numerous wet areas, draining from the higher ground to the east. Hardwoods are more numerous on the upper slopes in the east half. Aspen and fir become more common on the lower slopes in the west half. Area of poor stocking are mixed in throughout. Average ba/acre from 4 plots = 63 square feet. Too wet, no																													
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102	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Poor	5.4	111	51-80	N/A	In general, a poorly-stocked, poor quality mixed lowland stand. The north end of the stand has a little bit of drier ground with better stocking, but the remainder of the stand becomes wetter and has a lot of blowdown. There used to be a lot of black ash in the stand, particularly along the west side which was wetter ground, but it is now all dead. Trace of hemlock. Average ba/acre from 4 plots = 55 square feet. Difficult stand to walk through with all of the blowdown and dense fir understory.																													
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103	310 - Herbaceous Openland	Nonstocked	2.6		Unspecified	No	Small opening with scattered clumps of fir. BAM saplings coming in along the north edge. It's possible this may have been the site for a structure at one point as there looks to be an old road leading into the middle of the stand. This opening does not look like it has ever been planted.																													
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104	4134 - Aspen, Spruce/Fir	Poletimber Well	27.8	38	81-110	N/A	Stand was cut in 1983 in the sale Sanctuary Aspen South (#53-020-83), bought by Champion. The stand regenerated well to aspen. A small amount of residual hardwoods, mostly sugar maple, were left. The stand has numerous areas of wet ground, most common in the east half of the stand, adjacent to other lowland stands. Diameters tend to be smaller in the wet areas. Site quality is better along the western side of the stand. Some areas with a nice sugar maple understory. Some beaver activity at the far southern end adjacent to stand 58. Trace of American elm, white spruce, and yellow birch. Average ba/acre from 13 plots = 85 square feet. Stand may be ready for a harvest in 10 years. The far southern end of the stand may have access issues due to the ongoing beaver flooding near the closed road.																																																																																					
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105	2113 - Forage Crops	Nonstocked	16.5		Unspecified	Managed Opening	Managed wildlife opening. A couple of white pine sawtimber trees scattered throughout.																																																																																					
106	429 - Mixed Upland Conifers	Poletimber Medium	2.2	54	51-80	N/A	Not well-stocked in all areas. There used to be more jack pine in the stand but a lot has died. Spruce is mostly good quality although there are still a lot of smaller diameters. Average ba/acre from 4 plots = 60 square feet.																																																																																					
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108	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	7.4	67	1-50	N/A	Poorly-stocked mixed species stand. The east half has better stocking and more of the tamarack and white pine, with some large diameter trees present. The west half has a lot of smaller stems with a thick understory of lowland shrubs. There used to be quite a bit of black ash in the stand but it is now all dead. Some areas of the stand are very wet. Average ba/acre from 3 plots = 37 square feet.																																																																																										
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109	310 - Herbaceous Openland	Nonstocked	0.7		Unspecified	No	Small natural opening that is filling in with pine. Does not appear that this was ever planted as a food plot.																																																																																										
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110	42200 - Natural White Pine	Sapling Poor	1.4	20	1-50	N/A	Small opening that is filling in with white pine. Some larger white pine are along the edges. Age estimated from averaging sapling whorl counts.																																																																																										
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111	6124 - Lowland Spruce-Fir	Poletimber Poor	9.0	67	1-50	N/A	Poorly-stocked, wet stand with a thick understory of lowland shrubs. A difficult stand to walk through. There are a few small upland inclusions along the southeast edge that are well-stocked with spruce. Trace of cedar. There used to be some black ash in the stand but it is now all dead. Average ba/acre from 4 plots = 40 square feet. Canopy %'s may be somewhat off as I only looked at the south half of the stand.																																																																																										
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Nannyberry	Medium	5 - 10 feet	Tall Shrub																																																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
112	429 - Mixed Upland Conifers	Poletimber Medium	5.9	35	51-80	N/A	This stand was cut in 1986 in the sale Sanctuary Aspen North (#53-017-83), bought by Fred Boudreau. It looks like beavers removed any aspen that had regenerated. What's left is a mix of pine and spruce. Not well-stocked in the north half of the stand but much better stocking in the south half. There are also some larger diameter pine in the south half. Average ba/acre from 6 plots = 67 square feet. There is a small camping area towards the middle part of the stand along the western edge that looks like it is used by river recreational users.																																																							
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113	310 - Herbaceous Openland	Nonstocked	0.8		Unspecified	No																																																								
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114	500 - Water	Nonstocked	1.4		Unspecified	No	Active beaver flooding. There used to be an old road along the west side but it is no longer distinguishable. The dams appear to be built along what used to be the road but there is so much water that it's hard to tell. There are multiple areas where water is flowing west out of the dams, eventually forming a stream further west. This flooding effectively cuts off all of the available timber to the north. A significant investment will have to be made to improve this crossing as it is at least 200 feet of open water.																																																							
115	429 - Mixed Upland Conifers	Sawtimber Well	8.6	50	81-110	N/A	Small stand that was excluded from the adjacent harvest and serves as a buffer for the wetland to the north. Mix of species and ages with some massive red and white pine mixed in. Measured a couple white pine over 40"+ DBH. The far western end of the stand is mostly paper birch and red maple. Stand sits on slight slope that leads down to the wetland. Trace of sugar maple. Average ba/acre from 3 plots = 103 square feet. Found a small, old boat next to a large white pine in the eastern part of the stand.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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116 42290 - Natural Mixed Pine Poletimber Well 4.8 35 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	2	Log	14		Balsam Fir	High	Variable	Sapling
Tamarack	1	Pole	6		Black Spruce	Low	Variable	Sapling
White Spruce	2	Pole	6		White Pine	Low	>20 feet	Sapling
Black Spruce	5	Pole	5		Tamarack	Trace	>20 feet	Sapling
Balsam Fir	8	Pole/Sapling	5		Red Pine	Trace	>20 feet	Sapling
Red Pine	23	Pole	7		Tag Alder	Trace	10 - 20 feet	Tall Shrub
Quaking Aspen	10	Pole	6					
White Pine	49	Pole/Sapling	6	35				

This stand was cut in 1986 in the sale Sanctuary Aspen North (#53-017-83), bought by Fred Boudreau. Regeneration came back primarily to mixed conifers including a lot of natural red pine. Dense stocking. Some areas of wetter ground in the west/southwest part of the stand. Trace of log-size hemlock and paper birch. Average ba/acre from 4 plots = 105 square feet.

117 4119 - Mixed Northern Hardwoods Poletimber Medium 35.1 86 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	1	Pole/Log	9		Beech	Medium	Variable	Sapling
Hemlock	1	Log	12		Ironwood	Medium	Variable	Sapling
Beech	3	Pole/Log	8		White Ash	Low	Variable	Sapling
Ironwood	8	Pole	5		Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen	2	Log/XLog	16		White Spruce	Trace	Variable	Sapling
Quaking Aspen	6	Log/XLog	14					
Yellow Birch	5	Log/Pole	11					
Paper Birch	2	Log	12					
Red Maple	9	Log/Pole	12					
Basswood	24	Log/Pole	10					
Sugar Maple	39	Pole/Log	9	86				

Diverse hardwood stand with variable stocking due to wet ground throughout the stand. Numerous drainages converge in the east half, forming a stream which flows west through the entire stand. The stream cuts through a short, steep ravine in the west half. The thin finger that runs south has a lot of standing water and some blowdown. Pit and mound topography common throughout the stand. There used to be quite a bit of white ash in the stand but it is now all dead due to EAB. Small clumps of aspen are concentrated closer to Fisherman Road. Trace of balsam fir, white spruce, and American elm in the overstory. Average ba/acre from 12 plots = 66 square feet. No management due to the wet ground and stream influence.

118 42200 - Natural White Pine Sapling Well 5.2 25 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	1	Sapling/Pole	4	
Quaking Aspen	5	Sapling/Pole	3	
White Spruce	2	Pole/Sapling	5	
Black Spruce	1	Sapling/Pole	3	
Balsam Fir	30	Pole/Sapling	5	
White Pine	61	Sapling/Pole	3	25

This stand was cut in 1996 in the sale Checkerboard Aspen (#53-008-93), bought by Mattson Logging. Regeneration in this area came back primarily to mixed conifers. Very dense stocking, hard to get through the stand in many areas. At this stage the balsam fir is showing better growth than the pine. Trace of black cherry in the canopy.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
119	4319 - Mixed Upland Forest	Sapling Well	7.3	25	Immature	N/A	This stand was cut in 1996 in the sale Checkerboard Aspen (#53-008-93), bought by Mattson Logging. Regeneration came back to primarily aspen and fir. A few residual cedar are scattered in the south half. Found one white oak poletimber tree along with one sapling in the same area. Most of the ground is high and dry except for a north/south running drainage along the west side.																																																									
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120	42360 - Upland Cedar	Sawtimber Well	5.1	111	111-140	N/A	This stand was cut in 1996 in the sale Checkerboard Aspen (#53-008-93), bought by Mattson Logging. Everything was cut out of this stand except for cedar and white pine. The cedar is mostly high quality. A few larger spruce and fir are scattered throughout and must have been missed from the original harvest. Regeneration came back mostly to fir, which is thick in many areas. Trace of quaking aspen, red maple, paper birch, and black cherry in the overstory. Average ba/acre from 5 plots = 134 square feet. The ground in this stand is mostly dry except for some scattered wet spots. The stand slopes down to the west.																																																									
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121	6112 - Lowland Aspen	Poletimber Well	4.1	25	Immature	N/A	This stand was cut in 1996 in the sale Checkerboard Aspen (#53-008-93), bought by Mattson Logging. Regeneration came back moderately well. There is a lot of variation in aspen diameters, with some larger sawlog-sized stems mixed in. I'm guessing these were smaller stems that were missed during the original harvest. Overall, this is a very wet stand with standing water in places, particularly the far southwest end of the stand. The entire stand appears to be part of a drainage system that extends north into the adjacent hardwood stand, eventually forming into a small stream. It probably never should have been cut due to the disruption to the drainage system. Trace of elm and spruce in the overstory and I found 1 white oak sapling.																																																									
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122	4199 - Other Mixed Upland Deciduous	Poletimber Well	5.0	38	81-110	N/A	Small diameter red maple dominates this stand, although there are a few scattered log-size red maple throughout. I'm not sure that this stand has been cut before as many of the aspen and birch in the stand appear older than the cutting records for adjacent stand 14 to the south. The 98DOQ imagery shows that there used to be a lot more fir in the stand so it's possible that the red maple poletimber is just a result of natural succession and not due to clearcutting. The stand is mostly dry except for along the edges. Average ba/acre from 5 plots = 100 square feet.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
123	330 - Low-Density Trees	Nonstocked	1.0		Unspecified	No	Site of old Hackett Lake cabin which has now been removed. Open in the middle with trees along the lake edge and eastern stand boundary.			
				Sub-Canopy Species		Density		Avg. Height	Size	
				White Pine		Low		>20 feet	Pole	
				White Pine		Low		>20 feet	Log	
				Red Pine		Trace		>20 feet	Pole	
				Red Maple		Trace		>20 feet	Pole	
				Quaking Aspen		Trace		>20 feet	Log	
				Balsam Fir		Trace		>20 feet	Pole	
				White Spruce		Trace		>20 feet	Pole	
				White Pine		Low		Variable	Sapling	
				Balsam Fir		Low		Variable	Sapling	
				Autumn Olive		Trace	5 - 10 feet	Tall Shrub		
124	4130 - Aspen	Poletimber Well	10.9	43	111-140	N/A	Moderate quality aspen stand with quite a bit of variation in diameters. Diameters are much smaller in the western 1/3rd of the stand. The east half of the stand sits on slopes that lead down to Hackett Lake. Although not numerous, there are a couple of nice younger red oak stems. Average ba/acre from 7 plots = 117 square feet.			
				Canopy Species		% Cover		Size Class	DBH	Age
				Red Oak		1		Pole/Log	8	
				Balsam Fir		1		Pole	5	
				Red Pine		2		Log	14	
				White Pine		10		Pole/Log/XLog	8	
				Sugar Maple		2		Pole/Log	8	
				Red Maple		9		Pole	7	
				Bigtooth Aspen		75		Pole	8	43
				Sub-Canopy Species		Density		Avg. Height	Size	
				White Pine		Medium		Variable	Sapling	
				Red Maple		Medium	>20 feet	Sapling		
				Red Oak		Trace	>20 feet	Sapling		
				Balsam Fir		Trace	Variable	Sapling		
125	4311 - Pine, Aspen Mix	Poletimber Poor	9.2	35	1-50	N/A	Poorly-stocked stand. From imagery it looks like it was cut but largely failed to regenerate. The hardwoods are short and poor quality, and must have been left as residual from the original cut. Aspen is present in a few small clones. The white pine is mostly bushy and open grown. The northeast part of the stand is more of a G type and was recently used as a landing and turnaround for the harvest in stand 80.			
				Canopy Species		% Cover		Size Class	DBH	Age
				Ironwood		1		Pole	5	
				Red Oak		2		Log/XLog	16	
				Bigtooth Aspen		25		Pole/Log	8	
				Sugar Maple		5		Pole	7	
				Red Maple		16		Pole/Log	8	
				Red Pine		2		Log/Pole	12	
				White Pine		49		Pole/Log	8	35
				Sub-Canopy Species		Density		Avg. Height	Size	
				White Pine		Medium		Variable	Sapling	
				Red Maple		Trace	>20 feet	Sapling		
				Black Cherry		Trace	Variable	Tall Shrub		
				Red Pine		Trace	Variable	Sapling		
126	4119 - Mixed Northern Hardwoods	Poletimber Well	13.9	71	81-110	N/A	Moderate to poor quality hardwoods. A lot of small diameters on the beech and maple. Quality is better in the eastern half of the stand, with more sugar maple in this area. Aspen is mostly along the western edges of the stand. Red oak is generally high quality. Most beech has BBD. Small clump of red pine at the south end. A few areas of lower stocking in the middle of the stand. The northern edge of the stand is on a downward slope. Trace of white spruce and basswood. Average ba/acre from 7 plots = 94 square feet. If browse wasn't such an issue, this stand would be a candidate for a restart.			
				Canopy Species		% Cover		Size Class	DBH	Age
				Bigtooth Aspen		13		Log	12	
				White Pine		6		Log/Pole	13	
				Red Pine		2		Log	14	
				Red Oak		3		Log/XLog/Pole	15	
				Sugar Maple		16		Pole/Log	8	
				Beech		19		Pole/Log	8	
				Red Maple		41		Pole/Log	8	71
				Sub-Canopy Species		Density		Avg. Height	Size	
				Beech		Low		Variable	Sapling	
				White Pine		Medium	Variable	Sapling		
				Balsam Fir		Trace	Variable	Sapling		
				Ironwood		Trace	Variable	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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127 4133 - Aspen, Mixed Pine Poletimber Poor 4.1 35 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	1	Pole	5	
Ironwood	1	Pole	5	
White Spruce	2	Pole/Log	8	
White Pine	22	Pole	7	
Balsam Fir	11	Pole/Log	8	
Beech	7	Pole/Log	8	
Red Maple	5	Pole/Log	8	
Sugar Maple	11	Log/Pole	10	
Bigtooth Aspen	40	Pole	7	35

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Red Pine	Trace	Variable	Sapling
Beech	Low	Variable	Sapling

Poor quality, poorly-stocked stand. The west half of the stand has a few small aspen clones, the east half has scattered hardwoods. White pine is mixed in throughout. From imagery it looks like this was cut at one time, the hardwoods were likely left as residual. Most of the beech has BBD. A few areas are starting to fill in with pine regen. Average ba/acre from 3 plots = 30 square feet. The east side of the stand is on a downward facing eastern slope.

128 429 - Mixed Upland Conifers Sawtimber Well 2.1 87 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	1	Log/XLog	14	
Balsam Fir	15	Pole	7	
Red Maple	15	Pole/Log	8	
White Pine	50	Log/XLog/Pole	16	87
Quaking Aspen	16	Pole/Log	9	
Paper Birch	3	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
White Pine	Trace	Variable	Sapling
White Spruce	Trace	Variable	Sapling

Nice stand with a lot of large diameter white pine. Several of the white pine meet legacy tree criteria. Average ba/acre from 3 plots = 101 square feet. Leave this stand unmanaged for the time being.