



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52182

Entry Year 2023

Acreage: 829

County Cheboygan

Management Area: Cheboygan Basin Moraines

Revision Date: 2021-05-04

Stand Examiner: John St. Pierre

Legal Description:

T34N-R01W Sections 03, 09 and 10

Identified Planning Goals:

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

Soil and topography:

This compartment is fairly level to gently rolling with a mixture of upland and lowland forested vegetation types. Non-forested openings are present in portions of section 3. Cheboygan-Blue Lake Association soils are the primary upland soil type within the compartment. These soils are nearly level to somewhat steep in areas, well to moderately well drained sandy soils that are moderately deep to dense till or are deep and formed in loamy and sandy deposits. Muck type soils are predominantly found in the lowland forested areas within the compartment.

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

State ownership within this compartment consists of one larger contiguous block that is bordered by large contiguous state ownership or privately owned lands. The portion of State owned land in Section 9 is entirely landlocked by private ownerships.

A significant portion of this compartment was 'absorbed' into the Pigeon River Country Forest Management Unit (FMU) in late 2020. The 'absorbed' portion totaled about 814 acres, all of which is located south of Walker road. A boundary review of state owned lands concluded this would simplify management responsibilities between the surrounding forest management units (Gaylord, Atlanta and Pigeon River).

Unique Natural Features:

Red-shouldered hawk nesting sites have been recorded in the compartment dating back to the late 90's and early 2000's. No recent observations have been documented but this doesn't mean the species isn't currently active within the compartment.

Archeological, Historical, and Cultural Features:

A search of the conservation area reviewer database did not show any recorded features.

Special Management Designations or Considerations:

There are currently no known special management designations or considerations within the compartment.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment is within the primary elk range of Michigan. It provides a wide variety of cover types and therefore is home to many common wildlife species.

Mineral Resource and Development Concerns and/or Restrictions

Vehicle Access:

The compartment is accessible off M68. The forest road off M68 provides the main access into southern portions of the compartment. Currently, a significant stretch of the forest road is in need of repair and is undrivable with a conventional vehicle. The undrivable stretch should be repaired within the next few years ('21-'23 timeframe).

A separate segment of forest road extends into eastern areas of the compartment. This road is drivable until reaching a stream crossing where a culvert has failed. The failed culvert and stream crossing should also be repaired within the timeframe mentioned above.

The is the main forest road provitravels south off M68Most of the compartment is accessible via state two-track roads throughout the compartment. The western half of the compartment has limited access due to surrounding private ownership.

Survey Needs:

Currently, no survey work is needed.

Recreational Facilities and Opportunities:

No formal recreational trails or facilities are present within this compartment.

However, hunting and/or general meandering opportunities are present and plentiful throughout the vast majority of the compartment.

Fire Protection:

Wildland fire protection for this compartment is provided by Michigan DNR resources from the Indian River and Onawa field offices. Local VFD personnel and equipment are vitally important fire response resources that would provide suppression too.

Additional Compartment Information:

The following reports from the Inventory are attached:

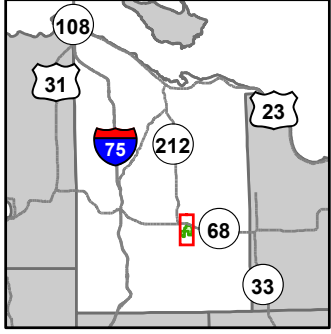
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

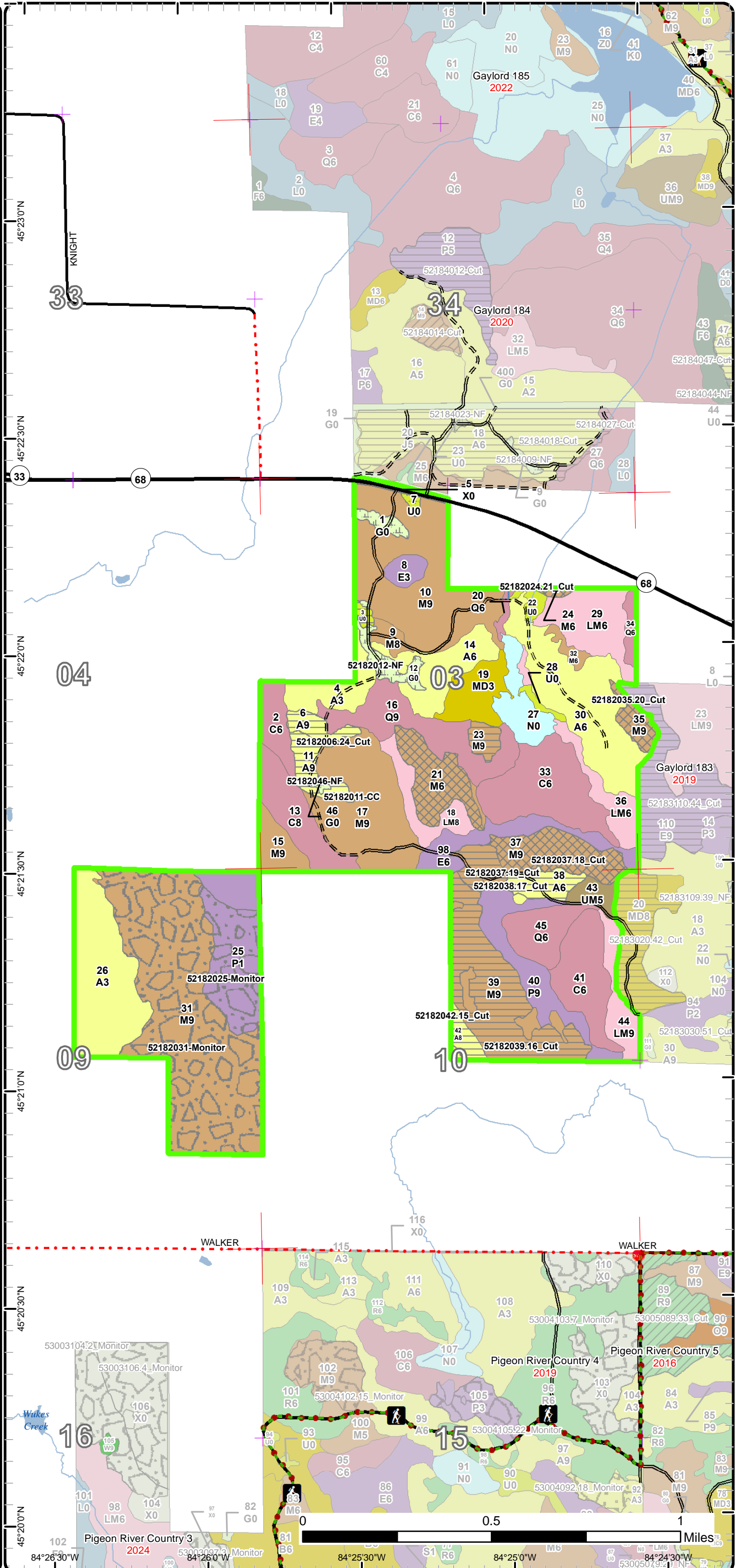
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 182
 T34N, R01W, Sec. 2, 3, 9, 10, 14-16
 County: Cheboygan
 Unit: Gaylord
 Mgmt Area: Cheboygan Basin Moraines
 YOE: 2023
 Acres: 829.2 GIS Calculated
 Examiner: John St. Pierre
 Map Revised: 10/5/2021
 Map Phase: Post-Review

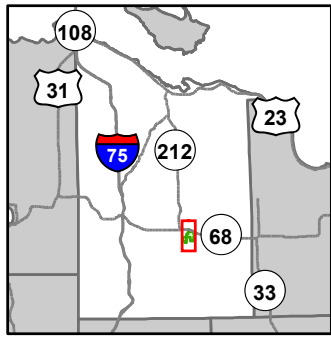


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Hiking Trails
- Horse Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Culvert
- Sign
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 623 - Emergent Wetland

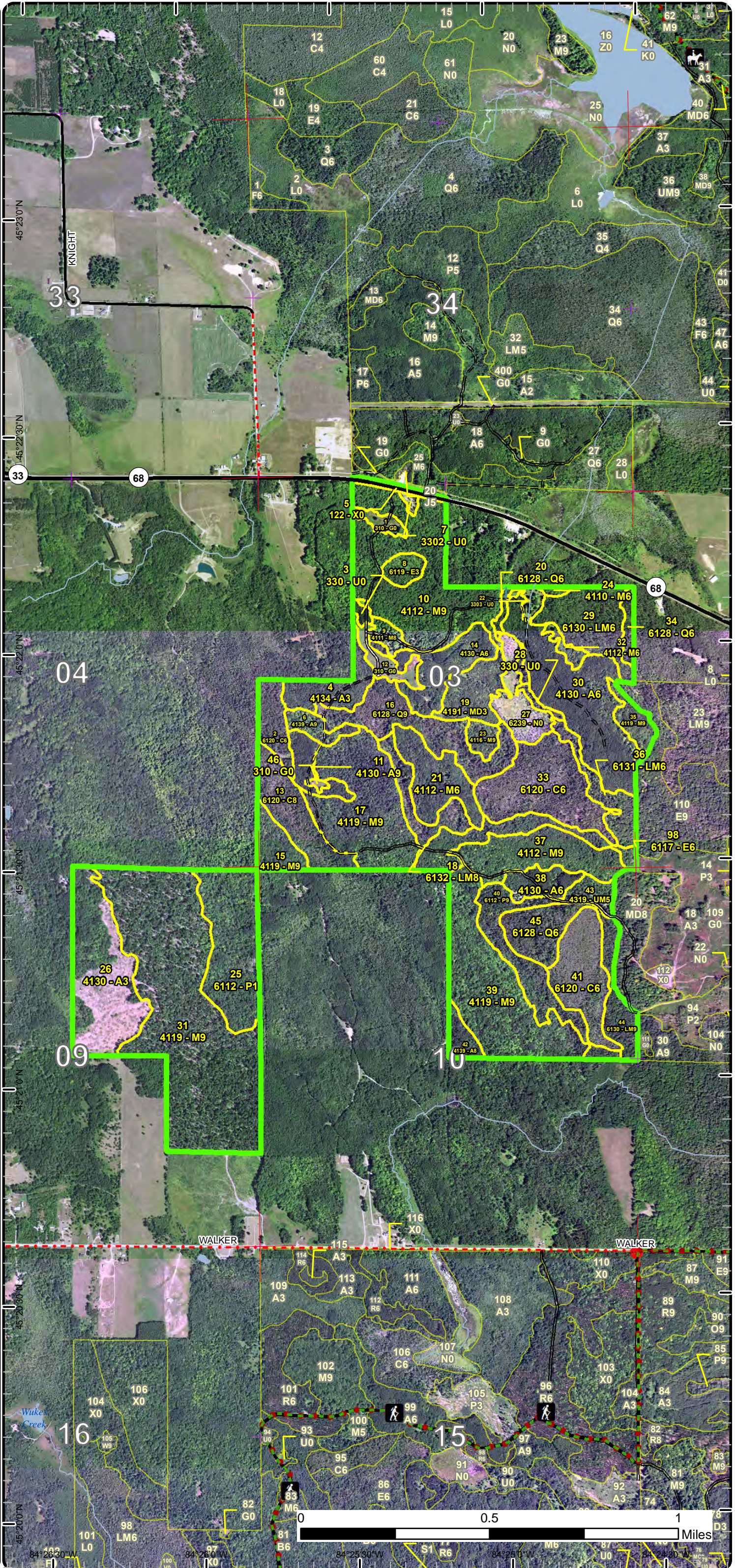


Stand Boundary Map

Compartment: 182
 T34N, R01W, Sec. 2, 3, 9, 10, 14-16
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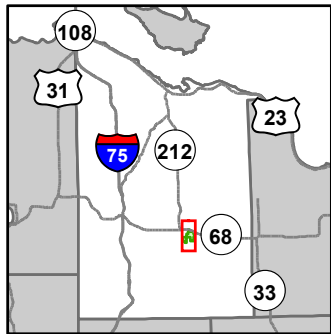


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
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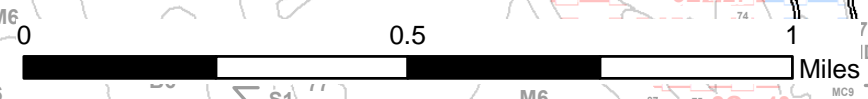
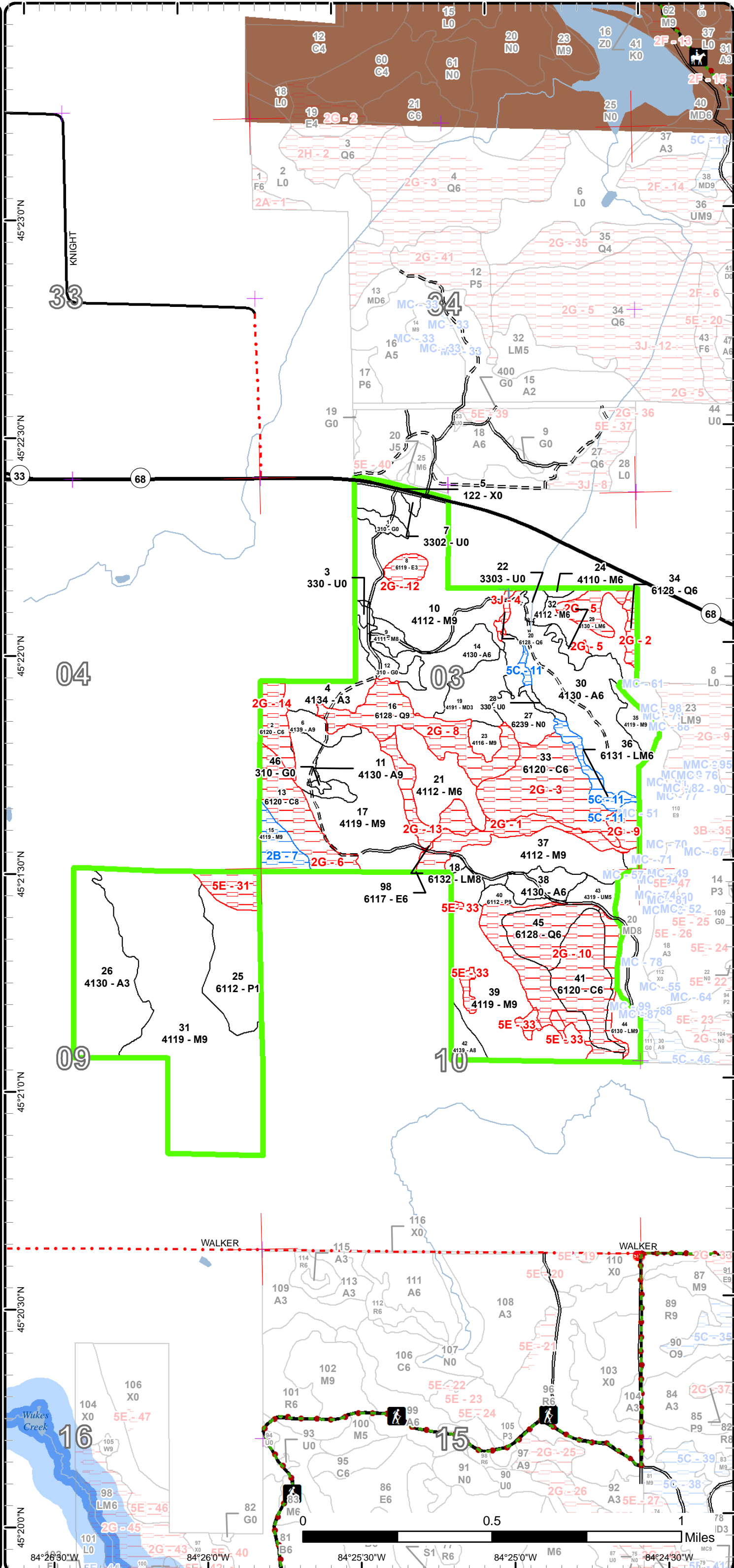


Special Conservation Areas

Compartment: 182
 T34N, R01W, Sec. 2, 3, 9, 10, 14-16
 County: Cheboygan
 Unit: Gaylord
 Mgmt Area: Cheboygan Basin Moraines
 YOE: 2023
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 Map Revised: 10/5/2021
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- Miris Corners
- + Remonumented Section Corners
- Counties
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- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Culvert
- Sign
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Wildlife Management Areas





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	44	0	19	67	9	0	0	0	0	5	6	0	0	0	0	0	0	150
Cedar	0	0	0	0	0	0	0	0	0	10	0	0	44	0	0	0	35	0	89
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Aspen/Balsam Poplar	0	36	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	58
Lowland Conifers	0	0	0	0	0	0	0	4	0	0	0	17	29	0	0	0	0	0	50
Lowland Deciduous	0	0	0	0	5	0	0	0	0	17	0	0	0	0	0	0	0	0	22
Lowland Mixed Forest	0	0	0	0	22	13	0	12	0	0	11	0	0	0	0	0	0	0	57
Marsh	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Mixed Upland Deciduous	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Northern Hardwood	0	0	0	0	0	0	0	0	52	46	223	24	4	0	0	0	0	0	348
Upland Mixed Forest	0	0	0	0	0	0	6	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
Total	34	80	0	33	94	22	6	38	52	73	239	47	77	0	0	0	35	0	828



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Compartment 182

Year of Entry: 2023

Acres of Harvest

Total Compartment Acres: 829

Commercial Harvest - 132
 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	27	0	0	0	0	0	0	0	0	27
Low-Density Trees	1	0	0	0	0	0	0	0	0	1
Northern Hardwood	57	47	0	0	0	0	0	0	0	104
Total	85	47	0	0	0	0	0	0	0	132

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	132	0	0	0	0	144	0	12		288
Next Step	0	0	0	0	0	8	0	0		8
Total	132	0	0	0	0	152	0	12		296



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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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Approved Treatments:

1	52182001-NF	3.4	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Brush, mow, plant, burn, and/or herbicide to maintain opening. Planting of hard and 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>											
3	52182003.25_Cut	1.4	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Harvest	Clearcut	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest to regeneration Aspen. No retention because of small stand size.</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> Old next step comments: Monitor success of regeneration during next inventory. Acceptable regeneration includes a mix of Aspen and upland deciduous species.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>											
6	52182006.24_Cut	5.8	4139 - Aspen, Mixed Deciduous	Sawtimber Well	100	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest stand. Do not cut Hemlock. No other retention recommended due to small stand size.</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> Hardwood species in center of stand were select cut in 2001 along with stand 17 to the east. Large, over mature Aspen with Balsam Fir understory on outer edge of stand. A partially plugged culvert in the low part of the road needs to be address during timber sale. Old next step comments: Monitor success of regeneration during the next inventory. Acceptable regeneration includes a mix of Aspen and deciduous species.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</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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7	52182007-NF	1.1	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	NonForestMgt	Other - Specify	3302 - Low Density Conifer Trees	No
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Prescription Brush, mow, plant, burn, and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

11	52182011-CC	8.0	4130 - Aspen	Sawtimber Well	38	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut.

Specs: - No formal retention, small treatment size/maximize regeneration

- Leave the incidental hemlock, white pine, cedar and yellow birch

- Use drumming log and brush pile specs. Brush piles should be placed along the west boundary, close to adjacent lowland stands.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any stocking level of aspen with components of hard/soft maple, birch, basswood, spruce, fir and pine.

Regen:

Other Prepare and put on prospectus no sooner than 45-days after the updated compartment review packet is posted. Intent is that producers who

Comment: currently own surrounding contracts will purchase and then harvest as they open their sale(s). Decided on at compartment review, 7/15/21.

Site Condition

Proposed Start Date: 9 /30/2021

12	52182012-NF	6.6	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
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Prescription Brush, mow, plant, burn, and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

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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
21 52182021.23_Cut	18.7	4112 - Maple, Beech, Cherry Association	Poletimber Well	100	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> Thin stand to 80 BA. Access stand from the south along the east side of stand 18.</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> Current Basal Area is 133. Upland stand surrounded by lowland. Slightly more wet soil in center of stand. Stay out of this area to minimize rutting. Red Maple is heavy along the edge of the stand. Include stands 24 and 35 in sale. Old next step comments: Monitor success of thinning in next inventory.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>										
23 52182023.22_Cut	4.3	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	100	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest to regenerate Aspen. Do not cut White Spruce for tree species diversity. No retention because of small stand size.</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> Aspen is over mature and dying out. Classified as M6 in last inventory. Old next step comments: Monitor success of regeneration during next inventory. Acceptable regeneration includes mix of Aspen and upland deciduous species.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>										
24 52182024.21_Cut	1.8	4110 - Sugar Maple Association	Poletimber Well	85	141-170	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 80 BA. Include stands 21 and 35 in timber sale.</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> Current Basal Area is 147. Nice pole-sized Sugar Maple. Concrete monument in center of stand along north boundary line. Private boundary survey work may be needed.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>										



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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25	52182025-Monitor	27.5	6112 - Lowland Aspen	Sapling Poor	2	Immature	Monitoring	Natural Regen (Re-Inventory)	6112 - Lowland Aspen	Even-Aged	No
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Prescription Regeneration assessment during re-inventory.

Specs:

Next Step

Treatments:

Acceptable Acceptable regeneration includes a moderate to well stocked lowland aspen stand.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2030

31	52182031-Monitor	116.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	90	81-110	Monitoring	Natural Regen (Re-Inventory)	4119 - Mixed Northern Hardwoods	Two-Aged	No
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Prescription Regeneration assessment during re-inventory.

Specs:

Next Step

Treatments:

Acceptable Acceptable regeneration includes a moderate to well stocked northern hardwood species.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2030

35	52182035.20_Cut	6.4	4119 - Mixed Northern Hardwoods	Sawtimber Well	81	141-170	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
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Prescription Thin to 80 BA. Open larger gaps (60 BA) around birch, hemlock - drop and leave conifer boles on the ground as nursery logs for birch/hemlock if possible.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Sale to be combined with units 21 and 24.

Comment:

Site Condition

Proposed Start Date: 10/1 /2012



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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
37 52182037.18_ Cut	20.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	81	141-170	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> Thin to 80 BA. Manage for yellow birch regen - larger gaps (60 BA) around birch, leaving conifer nursery logs if possible.</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 /2012</p>										
37 52182037.19_ Cut	7.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	81	141-170	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest stand. Leave steep slope area as retention.</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> Old next step comments: Monitor success of regeneration during next inventory. Acceptable regeneration includes a mix of upland deciduous and Aspen species.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>										
38 52182038.17_ Cut	8.2	4130 - Aspen	Poletimber Well	47	Unspecified	Harvest	Clearcut	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut, reserve white pine. No retention recommended because of small stand size.</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> Treat with stand 37. Old next step comments: Monitor success of regeneration during next inventory. Acceptable regeneration includes a mix of Aspen and upland deciduous species.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</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
39 52182039.16_Cut	44.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	78	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Thin to 80 BA with large (100'+) canopy gaps to promote regen. Carefully select crop trees.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> "Slowed growth in the past 8, 10 years; minimal regeneration. Consider emphasis on basswood management for site quality.</p> <p><u>Comment:</u> Protect/encourage birch and hemlock regeneration. Shelterwood to 80 BA (60 BA around hemlock, birch). Create large canopy gaps (70-100') within unit. Evaluate next entry and consider overstory removal.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>										
42 52182042.15_Cut	4.7	4139 - Aspen, Mixed Deciduous	Sawtimber Medium	90	1-50	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut stand. No retention recommended because of small stand size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> large diameter aspen falling out. Smaller diameter aspen on west 1/2, 6-10" dbh; more fir canopy/subcanopy. Consider treating with adjacent stand. Clearcut with no retention because of small size of stand. Old next step comments: Monitor success of regeneration during next inventory. Acceptable regeneration includes a mix of Aspen and upland deciduous species.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>										
46 52182046-NF	0.8	310 - Herbaceous Openland	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Brush, mow, plant, burn, and/or herbicide to maintain opening. Planting of hard and soft mast.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment 288.3
Acres Proposed:

Report 4 – Site Conditions

Gaylord Mgt. Unit
John St. Pierre : Examiner

Compartment: 182
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
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Dominant Site Conditions

2B 5C 2G 3J 5E

Total	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions	2B	5C	2G	3J	5E
150	150	0	0	Aspen			0		
89	0	0	89	Cedar			89		
11	11	0	0	Herbaceous Openland					
7	7	0	0	Low-Density Trees					
59	32	0	27	Lowland Aspen/Balsam Poplar			19		8
49	0	0	49	Lowland Conifers			48	2	
22	3	0	19	Lowland Deciduous			19		
58	21	7	30	Lowland Mixed Forest		7	30		
13	13	0	0	Marsh					
14	14	0	0	Mixed Upland Deciduous					
350	335	10	5	Northern Hardwood	10				5
6	6	0	0	Upland Mixed Forest					
3	3	0	0	Urban					
831	594	17	220	Total Forested Acres	10	7	205	2	14
	71%	2%	26%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Many northern areas of this stand dip into transitional soils that are sensitive/wet. Large component of hemlock too. Present as saplings (H/F in areas) and as P/L in mid-canopy positions.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Quite wet/mucky when visited in Dec '20.							

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3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sensitive/wet soils observed when visited in Jan '21. Some areas being heavily used by deer/elk too.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Sit condition/stand encompasses a small stream that flows north onto PVT. Culvert that used run underneath the Forest Rd that crossed the stream has failed/road now washed out. Culvert appears to of failed quite some time ago.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: S.C. ~approximates likely areas that are too wet/sensitive for any proposed future harvest.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very wet and mucky. Areas of larger group blowdown too.							
7	Available	2B: Unknown if access through adjacent landowner(s) is possible	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sensitive/wet soils observed during inventory in Jan '21. Prominent corridor of recent (I think) blowdown travels west to east through center of stand (nearly end to end).							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Site condition(s) approximate(s) a wet/mucky bowl shaped depression that was observed during '20 inventory (sunk up to my knee in there). Also captures areas heavy to hemlock (difficult to regen/maintain for regen purposes).							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	63	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Site condition approximates likely 'Too wet' areas spread across Stands 40, 41, 44 and 45.							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consider harvesting the operable portions of this stand when Stand 30 is treated in the future.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Wet and mucky soils. A decent component of sap/pole yellow birch also present.							

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Compartment: 182
Year of Entry: 2023

13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Water course present with old and newer blowdown, sensitive wet/mucky soils.							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Overall this stand is likely 'Too wet' to harvest. However, a few limited areas appeared to have 'upland/drier' soils that ~might support harvest operations/equipment.							
31	Unavailable	5E: Long-Term Retention	9	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This multi-part 5E was added by JSP during '20 inventory stand reshaping. I believe prep forester neglected to capture these exclusions from the sale area as retention.							

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
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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	310 - Herbaceous Openland	Nonstocked	3.4		Unspecified	No	Commonly referred to as the 'Rhubarb Field' by local staff. Has been used as a standby location during fire season, so has the gravel pit to 1/2 mile east. Observed sumac shrubs west of forest rd. Individual and small clump of log/pole HM present. NHWD saps line perimeter locations. Small clump of aspen saps on northern boundary, east of forest rd too. Though I didn't actually see it, believe the opening was used as a staging area as a hunt camp during '20 season (grass flattened, a lot of vehicle tracks observed shortly after season ended in early Dec '20).
2	6120 - Lowland Cedar	Poletimber Well	9.9	88	Unspecified	N/A	Stand was quite walkable in areas, believe portions might be dry at times (calling low w/up). Obviously wet in other areas, sporadic pockets of smaller blowdown/tip-ups, then a larger blowdown area in south against Stand 13. Decent amount of sap sized NWC present, yet these are suppressed stems (same height/probably age as the larger NWC stems). Quite a few of the QA stems were large/gnarly and appeared to be good WLD trees. BA swings: 150,230,250 (210-avg). BA lower in blowdown areas.
		Canopy Species		% Cover	Size Class	DBH	Age
		Sub-Canopy Species		Density	Avg. Height	Size	
		Quaking Aspen	16	Log/Pole/XLog	15		
		Balsam Fir	6	Pole/Sapling	7		
		Balsam Poplar	3	Log	13		
		Northern White Cedar	75	Pole/Sap/Log	8	88	
		Balsam Fir					Sapling
		Northern White Cedar					Sapling
		Black Ash					Sapling
3	330 - Low-Density Trees	Nonstocked	1.4	0	Unspecified	No	JSP Dec'20: Harvested fall '19, part of PU1 (a 3-polygon PU), 'Cluster Hardwood and Aspen'. A sale map is attached above. Precision Forestry. Expires 9/30/21, one extension remains (would then expire 9/30/22). Aspen regeneration has been heavily browsed since being harvested in '19. Only a few BTA whips were observed above browse height. Some sapling sized RM, IW, BE, HM, BF and spruce also remain that weren't cut/run-over by equipment. Current stocking might qualify as an M1, stand needs more time to regenerate before making a final covertime call. Scattered mullein present too.
4	4134 - Aspen, Spruce/Fir	Sapling Well	13.3	34	Unspecified	N/A	Many aspen stems just over or just under pole size(s), pockets of poles present. Stand teetering on conversion to overall pole size, felt it was but just a bit too soon to call it that. Wet/soft in many locations, cedar/fir pocket in west that wasn't likely part of past harvest. Some northern areas against the opening (Std12) weren't harvested either. Should be more of a true pole stand by next entry.
		Canopy Species		% Cover	Size Class	DBH	Age
		Sub-Canopy Species		Density	Avg. Height	Size	
		Paper Birch	8	Sapling/Pole	4		
		Quaking Aspen	16	Sapling/Pole	4	34	
		Bigtooth Aspen	30	Sapling/Pole	4	34	
		Balsam Fir	20	Sapling/Pole/Log	3		
		Black Ash	5	Sapling/Pole	3		
		Sugar Maple	4	Sapling	2		
		Balsam Poplar	5	Sapling/Pole	4		
		Northern White Cedar	5	Sapling/Pole	4		
		Red Maple	5	Sapling/Pole	4		
		Ironwood	2	Sapling	3		
5	122 - Road/Parking Lot	Nonstocked	2.6		Unspecified	No	M-68 road and corridor.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
6	4139 - Aspen, Mixed Deciduous	Sawtimber Well	5.8	100	81-110	N/A	'11 comment: Select cut in 2001. Large, over mature Aspen with Balsam Fir understory on outer edge of stand. JSP Jan'21: Made some minor adjustments to above data but primarily still Scheele's inventory from 2011. Not yet cut, part of PU1 (a 3-polygon PU), 'Cluster Hardwood and Aspen'. Precision Forestry. Expires 9/30/21, one extension remains (would then expire 9/30/22).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		35	Pole	8		Sugar Maple		Medium	< 5 feet	Sapling
Basswood		10	Pole/Log	9		Beech		Medium	5 - 10 feet	Sapling
White Ash		3	Log	11		Balsam Fir		Medium	Variable	Sapling
Beech		2	Pole/Log	9		Ironwood		Medium	5 - 10 feet	Sapling
Bigtooth Aspen		48	Log/Pole/XLog	16	100					
Hemlock		2	Pole	8						
7	3302 - Low Density Conifer Trees	Nonstocked	1.1		Unspecified	No	Somewhat of an extension of Stand 20 located across the street. Jack pine pole/saps populate this small stand. Stocking is more dense along perimeter, interior areas are slowly being reclaimed.			
8	6119 - Mixed Lowland Deciduous Forest	Sapling Well	4.7	35	1-50	N/A	Former ash component has pretty much fallen out of canopy, some standing snags still remain. Now more/less dominated by saps, some poles. Some scattered log QA/BW/Hem, the QA/BW are on their way out. These few older/log trees make the stand somewhat 2-aged. A fairly consistent and decent layer of YB (sap/pole) present in kind of a 'clumpy' fashion. Hemlock mainly present along edges, as are NHWD species mixing in from Std10.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		8	Sapling/Pole/Log	3		White Spruce		Trace	< 5 feet	Seeding
Yellow Birch		35	Sapling/Pole	4	35	Black Ash		Medium	< 5 feet	Seeding
Black Ash		12	Sapling	3						
Balsam Fir		4	Sapling	3						
Ironwood		8	Sapling	2						
Sugar Maple		8	Sapling/Pole/Log	4						
American Elm		4	Sapling	3						
Beech		8	Sapling	2						
Basswood		5	Log/Pole	11						
Hemlock		4	Log/Pole	12						
Quaking Aspen		4	Log	14						
9	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	3.9	110	1-50	N/A		Individual, open grown and branchy maple mixed with other deciduous and some scattered conifer. Recent blowdown along the southern boundary. Canopy closure is variable based upon location.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple		77	Log/Pole	12	110	Balsam Fir	Low		Variable	Sapling
Beech		12	Log/Pole	13		White Spruce	Trace		10 - 20 feet	Sapling
Balsam Fir		2	Pole/Log	9		Beech	Medium		10 - 20 feet	Sapling
White Spruce		2	Log/Pole	10		White Pine	Low		Variable	Sapling
Red Maple		5	Log/Pole	12		Black/Red (Hybrid) Oak	Trace		>20 feet	Sapling
White Pine		1	XLog	18		Ironwood	Low		10 - 20 feet	Sapling
Black/Red (Hybrid) Oak		1	Log	17		Sugar Maple	Low		>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
10	4112 - Maple, Beech, Cherry Association	Sawtimber Well	60.1	95	81-110	N/A	Believe last thinned in ~01ish. Not much in the way of desirable regen has resulted from last harvest (if that was the intent). HM saps present are older/suppressed stems, some areas along the forest rd appear to have some younger HM regen (that are 20ft or greater). Decent/good quality canopy stems across most species. SE area near Std14 carries a heavier RM component as well as a few clumps of NWC mixed w/YB. BE saps overall 'high' in sub-can but isn't miserable to walk through across majority of stand. Trace IW/QA present in canopy. BA swings: 60,110,120,60,60,70,90,20 (72-avg).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	70	Log/Pole	12	95	Sugar Maple	Medium		>20 feet	Sapling
Red Maple	4	Log/XLog	14		Beech	High		10 - 20 feet	Sapling
Yellow Birch	4	Log/Pole	11		Ironwood	Medium		10 - 20 feet	Sapling
Basswood	9	Log/Pole/XLog	14		Balsam Fir	Trace		5 - 10 feet	Sapling
Bigtooth Aspen	2	Log/XLog	17		Red Maple	Low		>20 feet	Sapling
Beech	8	Log/Pole/XLog	15		Yellow Birch	Trace		>20 feet	Sapling
Hemlock	2	Log	15		Basswood	Low		>20 feet	Sapling
Northern White Cedar	1	Log/Pole	11		Striped Maple	Trace		5 - 10 feet	Sapling
11	4130 - Aspen	Sawtimber Well	8.0	38	81-110	N/A		Basically 2-different stands, the forest rd is more/less the dividing line. West of road is ~5ac of log/pole BTA (some QA) w/high stocking of HM saps >20ft (many of good/decent quality, poles present too). Enough sawlog sizes west of rd to call logs 'dominant', yet not a high stocking of these sizes and many poles still present. Lowland species mixing along west boundary. East of rd is ~2.5ac and was split out of Std17, the area is an aspen/conifer/NHWD mix. QA prevalent (some quite large/older), spruce/fir (poles/logs of both common), PB and some larger NHWD species mixing in from Std17. East 2.5ac 'chunk' accounts for the log sized QA, HM, RM, WS and BW listed above in the canopy species. Observed some living WA and trace WP/YB (xlog WP near G0), and a few sapling elm/NWC.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Maple	4	Log/Pole	11		Red Maple	Low	>20 feet		Sapling
Bigtooth Aspen	50	Log/Pole/XLog	10	38	Sugar Maple	High	>20 feet		Sapling
Hemlock	2	Log	12		Balsam Fir	Medium	10 - 20 feet		Sapling
Quaking Aspen	22	Log/Pole/XLog	11		Paper Birch	Low	>20 feet		Sapling
Sugar Maple	3	Log/Pole/Sap	11		Ironwood	Low	>20 feet		Sapling
Balsam Fir	10	Pole/Sap/Log	7		White Ash	Low	>20 feet		Sapling
Paper Birch	5	Pole	7		Black Ash	Low	>20 feet		Sapling
Basswood	2	Log/XLog	16		American Elm	Trace	>20 feet		Sapling
White Spruce	2	Log/Pole	14		Beech	Low	5 - 10 feet		Sapling
					Northern White Cedar	Trace	>20 feet	Sapling	
12	310 - Herbaceous Openland	Nonstocked	6.6		Unspecified	No	Some scattered conifer (BF, NWC, Sprc) and deciduous (BTA) located throughout. Appeared to be commonly used and traveled through by deer/elk (saw both on differing days).		
13	6120 - Lowland Cedar	Sawtimber Medium	20.3	110	Unspecified	N/A	Several areas of extensive blowdown, perhaps from the storm that hit areas of the county in July '20? Blowdown(s) have reduced canopy closure to an overall average closer to 50-75% (75-100% outside of affected areas). Larger log sized NWC present. Scattered BW observed in interior areas, not a usual site. Perimeter locations pickup NHWD species from Stds15/17. BA swings: 210,0,130,140 (120-avg).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	8	Log/Pole/XLog	14		Yellow Birch	Low		10 - 20 feet	Sapling
Basswood	4	Log/Pole	12		Balsam Fir	Low		10 - 20 feet	Sapling
Northern White Cedar	75	Log/Pole/XLog	11	110	Black Ash	Medium		5 - 10 feet	Sapling
Balsam Fir	5	Pole/Log	9		Striped Maple	Low		5 - 10 feet	Sapling
Yellow Birch	6	Log/Pole	10						
Sugar Maple	2	Pole	9						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
14	4130 - Aspen	Poletimber Well	19.0	28	81-110	N/A	Aspen stems (mainly BTA) still very much in transition from large sap to smaller pole sizes. ~1/3-1/2 of BTA stems have likely transitioned to small pole. Areas that were more reliably pole sized include western and northern locations on higher ground closer to hardwood soils. Interior and eastern locations (some flirting w/lower ground/poorer soils) are still in transition. Could delineate out the true 'pole' sized areas from 'sap' areas but felt comments were sufficient. Small inclusion (1.2ac) of P/L conifer/deciduous (JP,BF,WS,RP,PB,BTA,QA,HM) in NW against the opening (Std12). Trace AmElm in canopy.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		5	Sapling	2		Beech		Low	5 - 10 feet	Sapling	
White Ash		2	Sapling	4		Balsam Fir		Medium	5 - 10 feet	Sapling	
Paper Birch		10	Sapling/Pole	3		Ironwood		Low	10 - 20 feet	Sapling	
Bigtooth Aspen		65	Pole/Sapling	5	28	White Spruce		Trace	5 - 10 feet	Sapling	
Balsam Fir		8	Sapling/Pole	3		White Pine		Trace	10 - 20 feet	Sapling	
Quaking Aspen		8	Sapling/Pole	4		American Elm		Trace	>20 feet	Sapling	
Sugar Maple		2	Sapling	2		Red Oak		Trace	>20 feet	Pole	
15	4119 - Mixed Northern Hardwoods	Sawtimber Well	9.5	85	81-110	N/A		Some decent quality L/P HM stems in areas and a nice component of YB is present. Drainage dissects the stand in north, flows west to east. Lower quality trees on the north side of drainage. White ash has expired, some beech is beginning to 'snap'. Log sizes are dominant yet not well stocked w/saw. Access would have to be from private to west. BA swings: 90,110,120 (106-avg).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Sugar Maple		46	Log/Pole/Sap	10	85	Beech			High	5 - 10 feet	Sapling
Red Maple		3	Log/Pole	12		Ironwood			Medium	5 - 10 feet	Sapling
Yellow Birch		15	Pole/Log	9		Sugar Maple			High	>20 feet	Sapling
Basswood		12	Log/Pole	11		Balsam Fir			Low	5 - 10 feet	Sapling
Hemlock		3	Log/XLog/Pole	12		Yellow Birch			Low	>20 feet	Sapling
Beech		8	Log/Pole	13							
Paper Birch		6	Log/Pole	10							
Bigtooth Aspen		3	Log/XLog	17							
Quaking Aspen		4	Log/XLog	16							
16	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	28.9	110	111-140	N/A	Consistent 'vein' of recent (I think) blowdown travels west to east through center of stand (nearly end to end). Blowdown may be the result of severe storm that hit areas of the county in July '20. Canopy closure greatly reduced in blowdown corridor, ranges 0--30%. Closure 75-100% outside of blowdown. Believe there's a water course under the blowdown. Mixed species dominance throughout, some areas nearly pure cedar, others w/more spruce/fir/QA/RM. Pole sizes quite common, but logs overall more dominant. Southern boundary picks up some NHWD species along interface w/Std21. Trace elm, BW and BAM observed in canopy. Small cattail marshy area just west of the Forest Rd.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		14	Log/XLog/Pole	15		Balsam Fir		Medium	Variable	Sapling	
Balsam Fir		16	Pole/Sap/Log	7		Black Ash		Medium	>20 feet	Sapling	
White Spruce		8	Log/Pole	12		White Spruce		Low	5 - 10 feet	Sapling	
Northern White Cedar		44	Log/Pole	11	110	Balsam Poplar		Low	Variable	Sapling	
Black Spruce		4	Pole/Log	8		Beech		Low	5 - 10 feet	Sapling	
Bigtooth Aspen		2	Log/XLog	17		Sugar Maple		Trace	>20 feet	Sapling	
Paper Birch		3	Log/Pole	10		Black Spruce		Low	< 5 feet	Seeding	
Hemlock		2	Log/Pole	10		Balsam Fir		Medium	< 5 feet	Seeding	
Yellow Birch		2	Pole	7		Tag Alder		Low	5 - 10 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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17 4119 - Mixed Northern Hardwoods Sawtimber Well 45.5 95 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Log/Pole	11	95
Red Maple	5	Log/Pole	12	
Basswood	14	Log/Pole/XLog	14	
Yellow Birch	3	Log/Pole	12	
Beech	8	Log/Pole	11	
Bigtooth Aspen	3	XLog/Log	18	
Hemlock	5	Log/Pole/Sap	11	
Ironwood	2	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	High	10 - 20 feet	Sapling
Ironwood	High	10 - 20 feet	Sapling
Sugar Maple	Medium	>20 feet	Sapling
Balsam Fir	Low	Variable	Sapling

Selection '01ish. Pretty consistent stocking of non-desire BE/IW saps, both 'high' overall, some areas Full, some Medium. HM saps present are older suppressed stems. Residual canopy stems appeared healthy, overall quality was good/ok, some areas were 'marginal'. Wht ash component is now dead on stump/or on ground. This has caused areas of lower than usual BA. Prominent grove of hemlock in SW, most on a north facing hill. Core area is populated with pole/sap hemlock (and RM, YB, HM, some BTA too). Seep comes out of the 'hemlock hill', then follows a drainage course north through center of stand (blowdown/tip-ups prevalent along drainage). Entire east and 1/2 of west boundary is on transitional ground with E9 tendencies/specie mixing (NHWD + some lowland conifer). Trace xlog/legacy WP observed.

18 6132 - Mixed Lowland Forest with Cedar Sawtimber Medium 11.4 95 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	28	Log/Pole/XLog	11	
Yellow Birch	9	Pole/Log	9	
Basswood	6	Log/Pole	11	
Quaking Aspen	8	Log/XLog	16	
Northern White Cedar	35	Log/Pole/XLog	10	95
Hemlock	6	Log/Pole	10	
Sugar Maple	5	Pole	6	
Paper Birch	3	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	Sapling
Black Ash	Medium	10 - 20 feet	Sapling
Beech	Low	10 - 20 feet	Sapling
Balsam Fir	Medium	Variable	Sapling
Striped Maple	Low	5 - 10 feet	Sapling

North/south narrow corridor portion has a wet/water course in the west 1/2 (flows south to north) with a lot of of blowdown/reduced can-closure (0-75%). East 1/2 of corridor used to belong to Std21 (but didn't make into ongoing Rx). This portion of stand is located on transitional ground (including some upland), can-closure mainly 75-100% and features NHWD species mixing w/clumps of NWC, Hem and consistent RM. The SE circular shaped area is briefly upland before moving into a wet area of blowdown/low can-closure. BA swings: 30,180,40,60,140 (90-avg).

19 4191 - Mixed Upland Deciduous with Conifer Sapling Well 14.2 28 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	6	Sapling	2	
Quaking Aspen	32	Sapling/Pole	3	28
Bigtooth Aspen	6	Sapling/Pole	4	
Balsam Fir	20	Sapling/Pole	4	
White Spruce	3	Sapling/Pole	4	
Black Ash	3	Sapling	2	
Red Maple	3	Sapling	2	
Sugar Maple	2	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace	10 - 20 feet	Sapling
White Spruce	Low	< 5 feet	Seeding
Balsam Fir	Medium	< 5 feet	Seeding

Unlike its sibling (Std14) that was harvested at the same time, most stems in this stand are still very much sapling sized. Some poles beginning to emerge in areas. Difficult to tell how wet the stand is/gets. Species present indicate it's at least transitional. Ground was quite walkable when visited w/snow (2") in Jan '21. Calling Up w/Low. Definitely soft in east near the low corridor (Std27), a narrow band of unharvested P/L stems remain there too. Higher ground in western areas had more BTA stems + NHWD saps. Aspen and conifer (usually BF) regenerated in a kind of alternating 'row' pattern that can be seen on some imagery. These the likely result and/or influenced by harvest equip/operations.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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20 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 1.8 108 111-140 N/A

Narrow forested stand with a small creek flowing through the center, creek flows north. Culvert underneath the forest rd/admin access route appears to of failed quite some time ago. Forest/admin rd is now washed out across stream, no longer provides vehicle access east of this stand. Needs replacement. Aspen was the most reliable log specie present. Remainder of trees tended to be P/L. Past harvests have cut nearly right up to this stand. Mixing of variable ages within and adjacent to this stand.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	32	Pole/Log/Sap	9	108
Yellow Birch	2	Log/Pole	10	
Bigtooth Aspen	5	Log	12	
Balsam Fir	24	Pole/Log/Sap	9	68
Hemlock	8	Pole/Log	9	
Quaking Aspen	20	Log	12	
Basswood	3	Log/Pole	11	
Sugar Maple	3	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	Sapling
Northern White Cedar	Low	>20 feet	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling

21 4112 - Maple, Beech, Cherry Association Poletimber Well 19.5 100 111-140 N/A

'11 comment: Upland stand surrounded by lowland. Slightly wetter soil in center of stand. Red Maple is heavy along the edge of the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	45	Pole/Log	10	100
Red Maple	20	Pole/Log	11	
Basswood	8	Log	14	
White Ash	8	Log	12	
Beech	15	Pole	5	
Quaking Aspen	2	Log	14	
Hemlock	2	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling

JSP Jan'21: Made some minor adjustments to above data but primarily still Scheele's inventory from 2011. Not yet cut, part of PU3 (a 4-polygon PU), 'Cluster Hardwood and Aspen'. Precision Forestry. Expires 9/30/21, one extension remains (would then expire 9/30/22).

22 3303 - Mixed Low Density Trees Nonstocked 2.8 0 Unspecified No

Possibly an old homestead site? Found a couple small/symmetrical pits and mounds in east a top a high point in the opening. Clumps of and scattered individual trees, many of which are quite wolfy. Could probably justify calling this a forested stand at low-end of 25-50% closure. Species present include wolfy log hard maple, some basswood, P/L QA, clump(s) of Log NWC, P/S cherry and scattered fir/spruce/deciduous saps.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
23	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	4.3	100	81-110	N/A	<p>2011 Comment: Aspen is over mature and dying out. Classified as M6 in last inventory.</p> <p>JSP Dec'20: ~0.1ac of this PU was cut before logger moved out. Part of PU1 (a 3-polygon PU), 'Cluster Hardwood and Aspen'. Precision Forestry. Expires 9/30/21, one extension remains (would then expire 9/30/22).</p> <p>2011 inventory typed stand out as an A9. A lot going within a small area. Aspen component (that's still alive) is generally heavier along perimeter locations, then scattered/clumpy within the stand. Most aspen are super-can/large/wolfly and occupy a good chunk of the canopy (even as an individual). A lot of pole/sap HM, especially in N1/2, RM poles throughout too. Made the brain wonder if M6 was a better fit. Enough log sizes present across most species to classify as M9, though not heavily stocked w/logs. Spruce was looking tired, some now standing dead. Scattered standing/down dead Aspen/WA L/XL's. Some scattered hemlock present in mid-canopy, and a couple NWC. Found a stick nest in SW, in an xlog BTA, didn't appear recently active?, flagged w/pink ribbon and GPS'd (see OFS points).</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height
Sugar Maple	24	Pole/Sapling	7		Balsam Fir	Medium	Variable	Sapling
Red Maple	32	Log/Pole	11	100	Sugar Maple	High	>20 feet	Sapling
Basswood	2	Pole	9		Ironwood	Medium	>20 feet	Sapling
Ironwood	2	Pole/Sapling	7		Beech	Medium	>20 feet	Sapling
Beech	4	Pole	8		Red Maple	Medium	>20 feet	Sapling
Paper Birch	5	Log/Pole	11					
Bigtooth Aspen	8	Log/XLog	16	100				
White Spruce	5	Log	14					
Quaking Aspen	15	Log/XLog	16					
Hemlock	2	Pole/Log	8					
Northern White Cedar	1	Log/Pole	10					
24	4110 - Sugar Maple Association	Poletimber Well	1.0	85	141-170	N/A	<p>Scheele 2011: Nice pole-sized sugar maple. Concrete monument in center of stand along north boundary line. Private boundary survey work may be needed. JSP Dec'20: Made some minor adjustments to above data but primarily still Scheele's inventory from 2011. Not yet cut, part of PU3 (a 4-polygon PU), 'Cluster Hardwood and Aspen', map attached. Precision Forestry. Expires 9/30/21, one extension remains (would then expire 9/30/22). Blue line paint starting to fade, cut-tree orange still quite visible. Blown-out culvert across stream in Stand 20 needs replacement in order to gain access to this stand.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height
Sugar Maple	90	Pole	8	85	Ironwood	Low	5 - 10 feet	Sapling
Basswood	10	Log/Pole	13					
25	6112 - Lowland Aspen	Sapling Poor	36.1	2	Immature	N/A	<p>Clearcut in this stand completed Jan '19, 'Walker Road Aspen' (52-145-13-01). East 1/2-2/3rd of stand appeared to be regenerating w/QA better than remaining west 1/2-1/3rd. Regen in east was generally 3ft or greater, western area/browsed stems were 3ft or less. Stand needs more time to regenerate, to soon to pass as successful. Unsure how 'wet' the stand is or what it looked like prior to harvest, but did observe patches of cattail and can see drainages on 'pre-harvest' imagery. Retention area (in north) is generally upland until moving into southern areas. Timber is more/less marginal/lower quality M9 mixed w/xlog BTA/QA.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height
Quaking Aspen	95	Sapling	1	2	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Red Maple	5	Sapling	1					
26	4130 - Aspen	Sapling Well	44.1	5	Immature	N/A	<p>Clearcut in this stand completed July '16, 'Walker Road Aspen' (52-145-13-01). Observed northern portions of this stand in Jan'21. Most of those areas were regenerating well albeit a lesser stocked portion in the NE. Browse was observed, tended to be heavier along boundary w/Std31. Overall canopy closure of stems 3ft or greater (most tended to be ~5-10ft) is on the lower end of 75-100%. Felt confident passing the natural regen monitor Rx based on my field observation(s). Saw one residual log WP in north. Areas of BTA saps likely but didn't see any during inventory.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height
Quaking Aspen	75	Sapling	1	5	Blackberry/Raspberry	High	< 5 feet	Tall Shrub
Paper Birch	3	Sapling	1					
Sugar Maple	5	Sapling	1					
Black Cherry	2	Sapling	1					
Beech	5	Sapling	1					
Red Maple	8	Sapling	1					
Black/Red (Hybrid) Oak	2	Sapling	1					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27	6239 - Mixed Emergent Wetland	Nonstocked	13.2		Unspecified	No	Observed several times from both the east and west edge(s). Saw quite a bit of dead standing P/L NWC in areas, scattered conifer that was alive and the edges generally populated with saplings/scat poles (deciduous and conifer species). Edges also pick-up species associated with the surrounding forested stands. Water course visible on imagery flows north, winds its way through Stand 20 after exiting this stand.
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28	330 - Low-Density Trees	Nonstocked	1.6	0	Unspecified	No	Stand boundary ~approximates an area of significant blowdown. Believe this occurred during the high wind storm that hit areas of the county in July '20. Unable to get into/walk the stand but did see from edge along east boundary. Some residual fir, RM and aspen still standing as individuals and in clumps. Could justify calling a poorly stocked forested stand. Ungulate (snow) tracks appeared to refuse attempts at entering most areas of this small stand.
		Sub-Canopy Species	Density	Avg. Height	Size		
		Red Maple	Medium	>20 feet	Pole		
		Balsam Fir	Medium	10 - 20 feet	Sapling		
		Bigtooth Aspen	Low	>20 feet	Log		
		Quaking Aspen	Low	>20 feet	Log		

29	6130 - Fir, Aspen, Maple	Poletimber Well	22.2	34	51-80	N/A	(FIND RECORD). Likely harvested same time frame as Std30. QA pretty consistent small/med size pole, varied depending how wet the location was. Appears the harvest left most conifer (this component is generally 'clumpy' throughout stand). Areas of standing water, blowdown and/or alder dominant (more so in ~N1/2). South 1/2 still 'soft', but seemingly less standing water. West boundary transitional, features the 'upland pieces' with BTA/some NHD species mixing in. Trace pole elm/basswood observed.				
		Canopy Species	% Cover	Size Class	DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	6	Pole/Sap/Log	9			Balsam Fir	Medium	10 - 20 feet	Sapling
		Quaking Aspen	42	Pole/Sap/Log	7	34		Red Maple	Medium	>20 feet	Sapling
		Balsam Fir	35	Pole/Sap/Log	8			Black Ash	Medium	Variable	Sapling
		Northern White Cedar	3	Log/Pole	10			Balsam Poplar	Medium	10 - 20 feet	Sapling
		Bigtooth Aspen	2	Pole/Sap/Log	8			Quaking Aspen	Medium	10 - 20 feet	Sapling
		Paper Birch	3	Pole/Sap/Log	8			American Elm	Trace	>20 feet	Sapling
		Balsam Poplar	6	Pole/Sapling	6			Tag Alder	Medium	10 - 20 feet	Tall Shrub
		White Spruce	3	Log	11			Balsam Fir	Medium	< 5 feet	Seeding

30	4130 - Aspen	Poletimber Well	46.1	33	81-110	N/A	Fairly consistent P/S BTA (BF/RM mingling in w/the canopy) until reaching the S.E. area near Stand 35. This ~5ac inclusion was formerly the south poly of Std32. It features a broader mix of larger aspen (some L/XL) w/some larger/wolffy BE/RM. HM poles common within the inclusion too. Fir a common component, most commonly found along/near transitional perimeter locations (heaviest in west & south). Admin access road is located along the high point of the stand. Blown-out culvert in Stand 20 needs replacement in order to reach this stand.				
		Canopy Species	% Cover	Size Class	DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size
		Sugar Maple	3	Pole/Sap/Log	6			Sugar Maple	Medium	>20 feet	Sapling
		Red Maple	6	Sapling/Pole/Log	4			Red Maple	High	>20 feet	Sapling
		Beech	3	Log/Pole	10			Balsam Fir	Medium	10 - 20 feet	Sapling
		Bigtooth Aspen	77	Pole/Sap/Log	7	33		Ironwood	Low	5 - 10 feet	Sapling
		Balsam Fir	8	Pole/Log	8			Black Cherry	Trace	>20 feet	Sapling
		Quaking Aspen	3	Pole/Sapling	6			Beech	Low	5 - 10 feet	Sapling
								Balsam Fir	Medium	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
31	4119 - Mixed Northern Hardwoods	Sawtimber Well	116.9	90	81-110	N/A	Selection Rx in this stand completed July '15, 'Walker Road Aspen' (52-145-13-01). Didn't see entire stand in Jan '21, saw northern areas. Residuals observed looked healthy, though most were of marginal/multi-stem quality. 2-layers of regen now present, a sapling layer present before harvest and now a seedling layer spurred on by the harvest. Both layers are dominated with non-desirables. Too soon to call regen a failure, but it's heading that direction. Creating a new regen survey for next YOIE inventory. Observed trace RP/WP log/xlogs and one pole NWC. PB, RM and BF components increased along the western boundary. Scheele 2011: Gently rolling, east facing slope with Basswood and Aspen dying and falling over. High amount of multi-stemmed Basswood, White Ash, and Maple. Nice Sugar Maple in southeast corner of stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	55	Log/Pole	13	90	Sugar Maple	Low		>20 feet	Sapling
Basswood	24	Log/Pole/XLog	14		Beech	High		10 - 20 feet	Sapling
Paper Birch	4	Pole	8		Ironwood	Medium		10 - 20 feet	Sapling
Beech	6	Log	16		Quaking Aspen	Low		5 - 10 feet	Sapling
Bigtooth Aspen	3	Log/XLog	16		Beech	Medium		< 5 feet	Seeding
Quaking Aspen	3	Log	12		Sugar Maple	Low		< 5 feet	Seeding
Balsam Fir	2	Pole	6		Basswood	Low		< 5 feet	Seeding
Red Maple	3	Pole/Log	9		White Ash	Medium		< 5 feet	Seeding
					Blackberry/Raspberry	High		< 5 feet	Tall Shrub
					Balsam Fir	Low		10 - 20 feet	Sapling
32	4112 - Maple, Beech, Cherry Association	Poletimber Well	2.9	84	111-140	N/A		Primarily dominated by HM, RM and BE. Aspen 'protrudes' into many areas of the stand, most a younger age than the dominant NHD species (regen from adjacent harvests 30-40yrs ago). East ~1/2 on a prominent north face slope. Swings returned log sized trees at just over 30% of stand. Most log sizes concentrated in east 1/2., west much higher stocking of poles/saps, mostly HM. Choosing to 'ignore' the 30% or more rule and select poles as the overall dominant size. Thus far HM stems are decent/ok quality (most better than marginal). Trace pole YB/Hemlock. Small opening in west. BA swings 180,110,120.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Sugar Maple	50	Pole/Log	8	84	Sugar Maple	High	>20 feet		Sapling
Red Maple	16	Log/Pole	11		Beech	Low	Variable		Sapling
Beech	14	Pole/Log	9		Balsam Fir	Low	Variable		Sapling
Bigtooth Aspen	14	Pole/Log	8	42	Striped Maple	Low	5 - 10 feet		Sapling
Balsam Fir	2	Pole/Sapling	7		Red Maple	Medium	>20 feet		Sapling
Paper Birch	2	Pole	9		Ironwood	Medium	>20 feet		Sapling
Quaking Aspen	2	Pole/Log	8		Yellow Birch	Trace	>20 feet		Sapling
33	6120 - Lowland Cedar	Poletimber Well	35.2	151	Unspecified	N/A	Came in from NW, then walked east near center, then south closer to east boundary (so didn't see entire stand). Perimeter areas tended to be more of your standard C6, densely stocked type stand w/decent component of BlkSpr then scattered Larch/BF mixing in. Interior area(s) much lighter stocking of poles (NWC, BS, BF) w/dense sap layer. These interior areas likely result of past blowdown events plus very wet soils/conditions (difficult to walk these areas). Cored a 9.9" NWC, quite old/tight rings, counted ~136yrs (+15 to DBH). Stand at least 2-aged. Left BA range 'unspecified', wide variation during swings (240,40,50,150,180). Observed areas of heavy wildlife use in SE.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Balsam Fir	18	Pole/Sap/Log	8	65	Balsam Fir	Medium		Variable	Sapling
Black Spruce	23	Pole/Log	8		Northern White Cedar	Low		>20 feet	Sapling
Northern White Cedar	50	Pole/Log/Sap	8	151	Black Spruce	Low		10 - 20 feet	Sapling
White Spruce	2	Log/Pole	10		Labrador Tea	Medium		< 5 feet	Tall Shrub
Tamarack	3	Log/Pole	11		Tag Alder	Medium		5 - 10 feet	Tall Shrub
Quaking Aspen	2	Log	15		Black Spruce	Low		< 5 feet	Seeding
White Pine	2	Log/XLog	15		Balsam Fir	Medium		< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																				
34	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	3.9	67	81-110	N/A	North 1/2 heavier to pole BF w/scat log QA. Begins to transition to heavier NWC component in center then continues south. The scat QA common throughout. Blow-down areas common, these have heavier BAM/Ash saps. Western boundary captures some birch/RM, also has appearance of being a past cut boundary/or a very definitive line of blowdown (difficult to see this line on imagery). Trace P/L Elm, 107BA avg (100,110,100,120). Quite wet/mucky when visited.																																																																				
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36	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	12.5	45	111-140	N/A	Basically two different stands, both relatively small so merged together. Both located on transitional ground, stuck between true upland/true low. Narrow northern portions feature a lighter stocked canopy (E8) of L/XL species (QA/RM) with a M/H mid/sub-can stocking of BF. The larger/wider southern portion moves into a denser stocking of pole sizes (LM6) and H/F mid/sub-can of BF. A wet/mucky 'bowl' shaped area present in south, and hemlock/PB more prevalent in south too. Deciduous generally younger in south. Prominent blowdown area (Std28) interrupts northern portion of stand.																																																																				
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37	4112 - Maple, Beech, Cherry Association	Sawtimber Well	26.6	81	141-170	N/A	JSP Jan'21: Made some minor adjustments to above data but primarily still Scheele's inventory from 2011. Not yet cut, parts of PU's 2/3 (multi-polygon PU's), 'Cluster Hardwood and Aspen', see attached sale map. Precision Forestry. Expires 9/30/21, one extension remains (would then expire 9/30/22).																																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
38	4130 - Aspen	Poletimber Well	8.7	47	Unspecified	N/A	'11 comment: Treat with stand 31 only if 31 is harvested. Lots of submerch, no urgency in cutting this.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	7	Sapling/Pole	3		Sugar Maple	Low	10 - 20 feet	Sapling
	Paper Birch	3	Pole/Sapling	6		Beech	Low	5 - 10 feet	Sapling
	Bigtooth Aspen	75	Pole/Sap/Log	8	47	Balsam Fir	Low	Variable	Sapling
	Balsam Fir	15	Pole/Sapling	5	44				
39	4119 - Mixed Northern Hardwoods	Sawtimber Well	52.0	78	81-110	N/A	Sale prep comment: Other species include elm, yellow birch, white and black ash, balsam poplar, white pine, and hemlock at roughly 5% total canopy. JSP Jan'21: Made some minor adjustments to above data but primarily still Scheele's inventory from 2011. Not yet cut, part of PU2 (a 3-polygon PU), 'Cluster Hardwood and Aspen'. Precision Forestry. Expires 9/30/21, one extension remains (would then expire 9/30/22).		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	38	Log/Pole	10	78	Sugar Maple	Low	Variable	Sapling
	Red Maple	8	Log/Pole	10		Beech	Low	Variable	Sapling
	Basswood	30	Log/XLog	12	78	Balsam Fir	Medium	Variable	Sapling
	Beech	5	Log/Pole	12		Ironwood	Low	Variable	Sapling
	Paper Birch	5	Pole/Log	6					
	Quaking Aspen	2	Log/XLog	14					
	Bigtooth Aspen	10	Log	14					
	Balsam Fir	2	Log/Pole	10					
40	6112 - Lowland Aspen	Sawtimber Well	22.2	69	111-140	N/A	Compositionally similar to Std44 to the east, considered merging. This stand a few % from being an LM9. Walked south to north, covertype tended to 'toggle' between areas of heavier QA/decid w/Fir to more conifer dominant locations (usually BF, sometimes Sprc/NWC) mixed w/QA. The 'toggling' is fairly consistent throughout. Scattered areas of individual/group blowdown. West boundary captures a few NHW species from Std39 (BW, BE, HM). Prominent/small area of NWC in north before climbing into some upland (~2.5ac) that holds the small component of BTA, WP and a few YB. Saw one small log RP near center of stand. Areas of heavy deer/elk usage observed too.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	9	Log/Pole	11		Balsam Fir	Medium	10 - 20 feet	Sapling
	Paper Birch	4	Pole	7		Black Ash	Medium	10 - 20 feet	Sapling
	Bigtooth Aspen	4	Log/XLog	16		Beech	Low	5 - 10 feet	Sapling
	Balsam Poplar	2	Pole	8		White Spruce	Low	>20 feet	Sapling
	Balsam Fir	25	Pole/Log	8	71				
	White Spruce	6	Log/Pole	12					
	Northern White Cedar	6	Log/Pole/XLog	11					
	Quaking Aspen	40	Log/Pole	11	69				
	White Pine	3	Log/Pole	14					
	Yellow Birch	1	Pole	6					
41	6120 - Lowland Cedar	Poletimber Well	23.7	115	171-200	N/A	On '16/'18 IR imagery, majority of stand is a hands down C6 present in an oval shaped 'bowl' in northern ~2/3rds of stand. Within the 'bowl' are some scattered BS/PB. Decent stocking of sap NWC, but these are just smaller/suppressed stems, same stubby height as most canopy NWC and likely the same age. The southern boot shaped portion of stand, which I didn't see much of (water courses, very wet, blowdown), appears to of previously held a higher blkash component that has now expired (EAB). Canopy closure lower in areas of the 'boot' and increased deciduous present (when viewed from edge). An Ermine Weasel (all white w/black tip on tail) visited me during inventory in this stand. Areas of heavy deer/elk usage observed too.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Balsam Fir	3	Pole	7		Balsam Fir	Medium	Variable	Sapling
	Black Spruce	6	Pole/Log	9		Black Spruce	Medium	< 5 feet	Seeding
	Northern White Cedar	80	Pole/Log/Sap	8	115	Northern White Cedar	Medium	>20 feet	Sapling
	Paper Birch	4	Pole/Log	8		Black Ash	Medium	10 - 20 feet	Sapling
	White Spruce	2	Log	12		Black Ash	Medium	< 5 feet	Seeding
	Red Maple	3	Log/Pole	10		Balsam Fir	Medium	< 5 feet	Seeding
	Quaking Aspen	2	Log	14		Labrador Tea	Low	< 5 feet	Tall Shrub
						Tag Alder	Medium	10 - 20 feet	Tall Shrub



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42	4139 - Aspen, Mixed Deciduous	Sawtimber Medium	5.3	90	1-50	N/A	'11 comment: Large diameter aspen falling out. Smaller diameter big tooth aspen on W 1/2, 6-10"; more fir canopy/subcanopy. Consider treating with adjacent stand. JSP Jan'21: Made some minor adjustments to above data but primarily still Scheele's inventory from 2011. Not yet cut, part of PU2 (a 3-polygon PU), 'Cluster Hardwood and Aspen'. Precision Forestry. Expires 9/30/21, one extension remains (would then expire 9/30/22).																																																																																																			
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43	4319 - Mixed Upland Forest	Poletimber Medium	5.7	58	81-110	N/A	Southern 1/3 to 1/2 of stand on a south facing slope. Stocking/canopy-closure is erratic, lumpy, clumpy on majority of south face portion (along the Forest Rd too). More reliably 75-100% can-closure on level/flat ground in north, at top of slope. Very visible component of old/charred stumps throughout, guessing most were WP. Scattered large log/xlog WP, at least one was Legacy size. Areas of decent WP saps >20'. Southwest holds some large log BF/Spruce.																																																																																																			
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44	6130 - Fir, Aspen, Maple	Sawtimber Well	12.1	65	111-140	N/A	Northern ~3ac is heavier to conifer (BF/Sprc) and used to be a separate stand (44). Considered merging into Std45. Somewhat higher BA/stocking in northern areas, observed scattered/large WP there (at least 1-legacy present). Southern ~7ac graduates into a broader mix of decid (aspen, RM, PB) and decreased conifer (used to be Std46). East side of stand moves onto drier ground, west gets progressively more soft/wet, some blowdown present and clumps of NWC sneak in/out. Course woody debris prevalent throughout, heavy deer/elk usage/browse observed.																																																																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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45	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	14.8	109	Unspecified	N/A	
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Formally part of Std41, his stand is somewhat of a 'catch all'. Eastern portions appeared somewhat upland and lower stocked w/more log/xlog deciduous (RM/QA) and scattered/larger spruce. Western areas toggled between spruce/fir then NWC dominance. Northern locations generally wet/soft but walkable, blowdown was common. Southern areas got heavier to NWC poles and became increasingly wetter w/more blowdown. Variable canopy-closure (50-100%) and BA ranges (70,120,240,200). Low end of 75-100% is the likely overall average.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Balsam Fir					6	Pole	7		Balsam Fir			Medium	Variable	Sapling	
Black Spruce					15	Pole/Log	8		Black Ash			Medium	10 - 20 feet	Sapling	
Northern White Cedar					45	Pole/Log	9	109	Northern White Cedar			Low	>20 feet	Sapling	
White Spruce					10	Log/Pole/XLog	12		Beech			Low	5 - 10 feet	Sapling	
Paper Birch					4	Pole/Log	9		Black Ash			Medium	< 5 feet	Seeding	
Red Maple					8	Log/Pole/XLog	10	84	Balsam Fir			Medium	< 5 feet	Seeding	
Balsam Poplar					3	Log/Pole	11		Tag Alder			Medium	10 - 20 feet	Tall Shrub	
Quaking Aspen					8	Log/XLog/Pole	16								

46	310 - Herbaceous Openland	Nonstocked	0.8	0	Unspecified	No	
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Likely an old landing location used when Stand 17 was thinned in ~2001. BF and deciduous seeds/saps populate areas of the opening.

98	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	17.0	81	141-170	N/A	
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Most of this stand used to formally belong to Std.37 but wasn't included w/any of the adjacent/ongoing Rx's. Primarily a 'Low/w-Up', northern perimeter slopes into 'low', southern perimeter generally the 'upland' residing on top of a gently sloping/north facing ~hill (center of stand actually has some slope). RM/Hemlock tend to dominate majority of areas w/healthy servings of QA and ~some YB throughout. RM sizes variable (quite a few logs present), but poles (both RM/Hem) were more common. Hemlock generally found in mid-can positions. Excellent hem sap stocking in 2-prominent locations (High/Full in center of stand on the slope, then in a small area just north of the Forest Rd). Most aspen/WP were XL super-can trees. Seep w/flowing water present near Stand 21's SE finger. About ~2 total acres of M6 (east end)/M9 (west end) located on either end of the stand. Minimal Log WhtSprc/BW and pole HM observed.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
White Pine					2	XLog/Log	20		Sugar Maple			Low	>20 feet	Sapling	
Red Maple					40	Pole/Log	9	81	Beech			Low	>20 feet	Sapling	
Yellow Birch					6	Pole/Log/Sap	8		Balsam Fir			Medium	10 - 20 feet	Sapling	
Hemlock					30	Pole/Sap/Log	8	81	Ironwood			Low	10 - 20 feet	Sapling	
Paper Birch					5	Pole/Log	9		Yellow Birch			Medium	>20 feet	Sapling	
Quaking Aspen					8	XLog/Log/Pole	18		Hemlock			High	>20 feet	Sapling	
Bigtooth Aspen					4	XLog/Log	18		Red Maple			Medium	>20 feet	Sapling	
Beech					2	Pole	7		Striped Maple			Trace	5 - 10 feet	Sapling	