



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54021

Entry Year 2026

Acreage: 1,941

County Montmorency

Management Area: High Sand Plains

Stand Examiner: Trevor Kubitskey

Legal Description:

T30N, R01E, Sec. 28, 29, 31, 32, 33 & 34

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:

Topography is mostly flat with rolling terrain especially in section 34. Some scattered kettle holes or frost pockets are found throughout with examples being stands 37 & 78. The majority of the compartment contains PArVHa/PArVVb with some areas of PVCd and higher quality AFO in the west. The compartment contains a large component of excessively drained soils such as Grayling, Graycalm, Mancelona and Horsehead Sand, with a minor component of well drained soils such as Blue Lake and Millersburg Loamy Sands. The lowland stands within the compartment contain mostly Deford, Tawas and Lupton Mucks. There is a small component of Deford-Au Gres-Croswell soil complex.

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

There are several private parcel inholdings within the compartment. The area to the north and east is privately owned and is a mix of residential, agricultural, and some gravel mining. The area to the west is Otsego County with mostly State land and residential around Big Bear Lake. The area to the south is mostly State Forest Land. Land use is mostly Oil and Gas with scattered active gas wells and facilities.

Unique Natural Features:

Some occurrences and potential occurrences have been reported.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

Pine Barren Management in section 32 along with the Mesic Northern Forest ERA in section 34 (stands 88 & 99).

Watershed and Fisheries Considerations:

No special concerns for this compartment. There are scattered seeps and drainages within section 34.

Wildlife Habitat Considerations:

The primary focus of wildlife habitat management will be to address the habitat requirements identified for the featured species which occur in this compartment. This includes ruffed grouse, wild turkey, American woodcock, and white-tailed deer. With this in mind, maintaining a balance of younger aged stands mixed with mature timber is important for habitat requirements and food sources. Wildlife shrubs such as Hawthorn and Serviceberry are quite prevalent throughout the compartment.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial production of metallic minerals in this part of the state. Active sand/gravel operations exist less than one mile northeast. There appears to be potential for additional sand & gravel within the compartment on the uplands, but any surface mining would need to avoid oil & gas facilities. The compartment has been developed for and is producing gas from the Antrim Shale. All State-owned mineral rights in the compartment are currently leased and held by production. Potential for any additional Antrim development in the compartment in the future is considered low. The compartment is outside the main Silurian reef trend, and potential for discovery of any reef reservoirs beneath the compartment is considered low.

Vehicle Access:

There are county roads and many gas pipeline roads throughout the compartment. Any new roads during harvest operations should be closed off upon completion of timber sales to help minimize illegal ORV and vehicle access and damage.

Survey Needs:

Some survey work may be needed in Section 32 & 34.

Recreational Facilities and Opportunities:

The Big Bear ORV trail and Snowmobile Trail LP_448 are present within the compartment.

Fire Protection:

Atlanta Management Unit fire protection area. Also, Vienna Fire Department is approximately 2 miles from the compartment.

Additional Compartment Information:

None at this time.

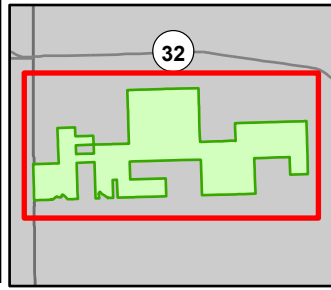
The following reports from the Inventory are attached:

- 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**

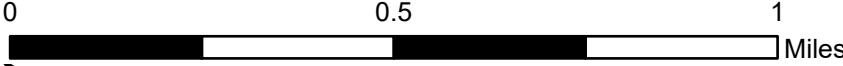
The following information is displayed, where pertinent, on the attached compartment maps:

- 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: 54021
 T30N, R1E, Sec: 28, 29, 31-34
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: High Sand Plains
 YOE: 2026
 Acres: 1941.5 GIS Calculated
 Examiner: Trevor Kubitskey
 Map Revised: 05/24/2024
 Map Phase: Web Post

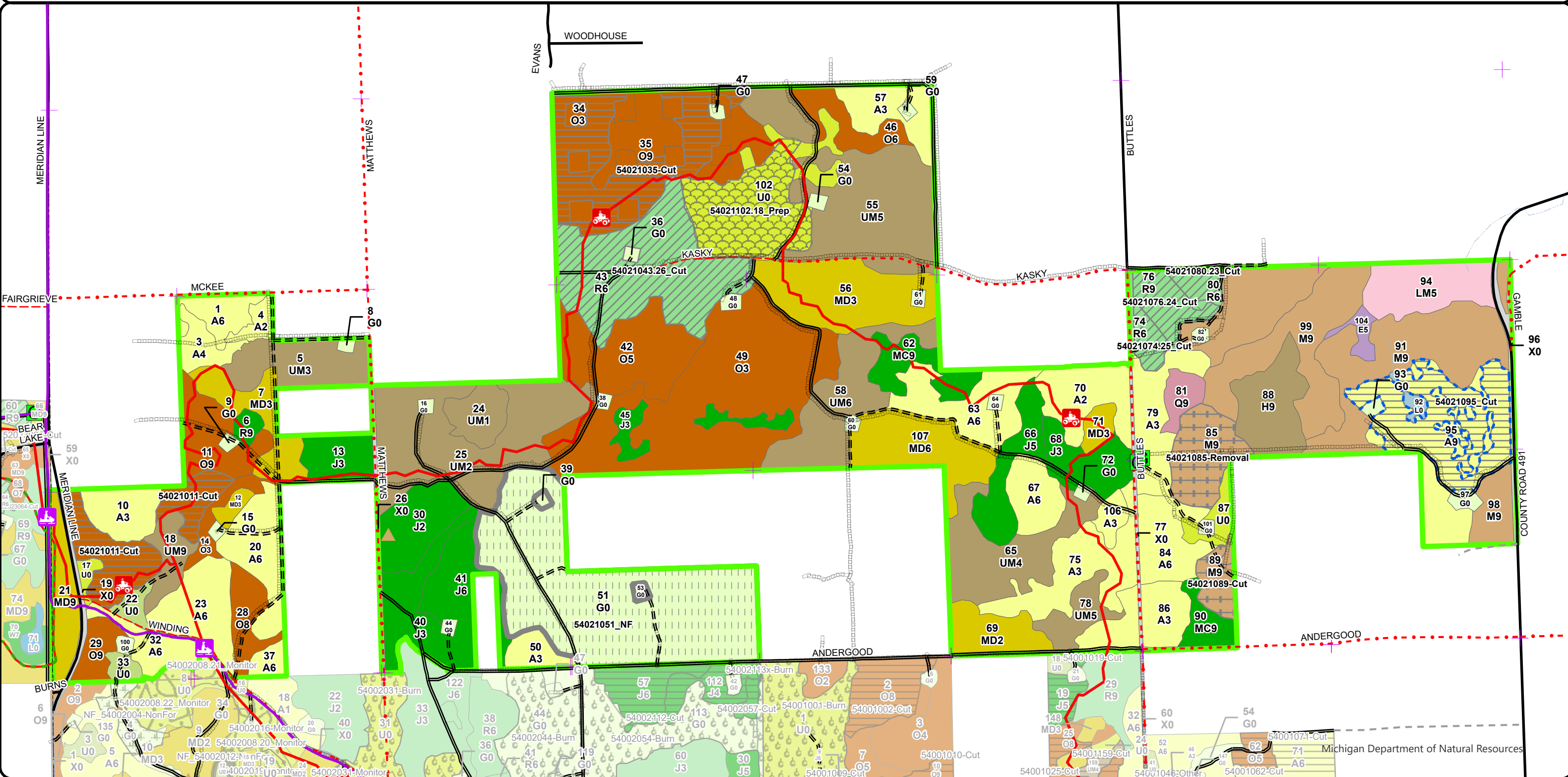


- Berms
- Gate
- Remonumented Section Corners
- ORV Trails
- Snowmobile Trails
- Designated Bicycle Trails
- Designated Snowmobile Trails
- Designated ATV Trails

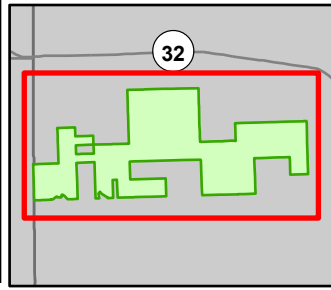
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Drain
- Intermittent Stream
- Pipeline

- Powerline
- Compartment Boundary
- Counties
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- Site Prep

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub



Stand Boundary Map

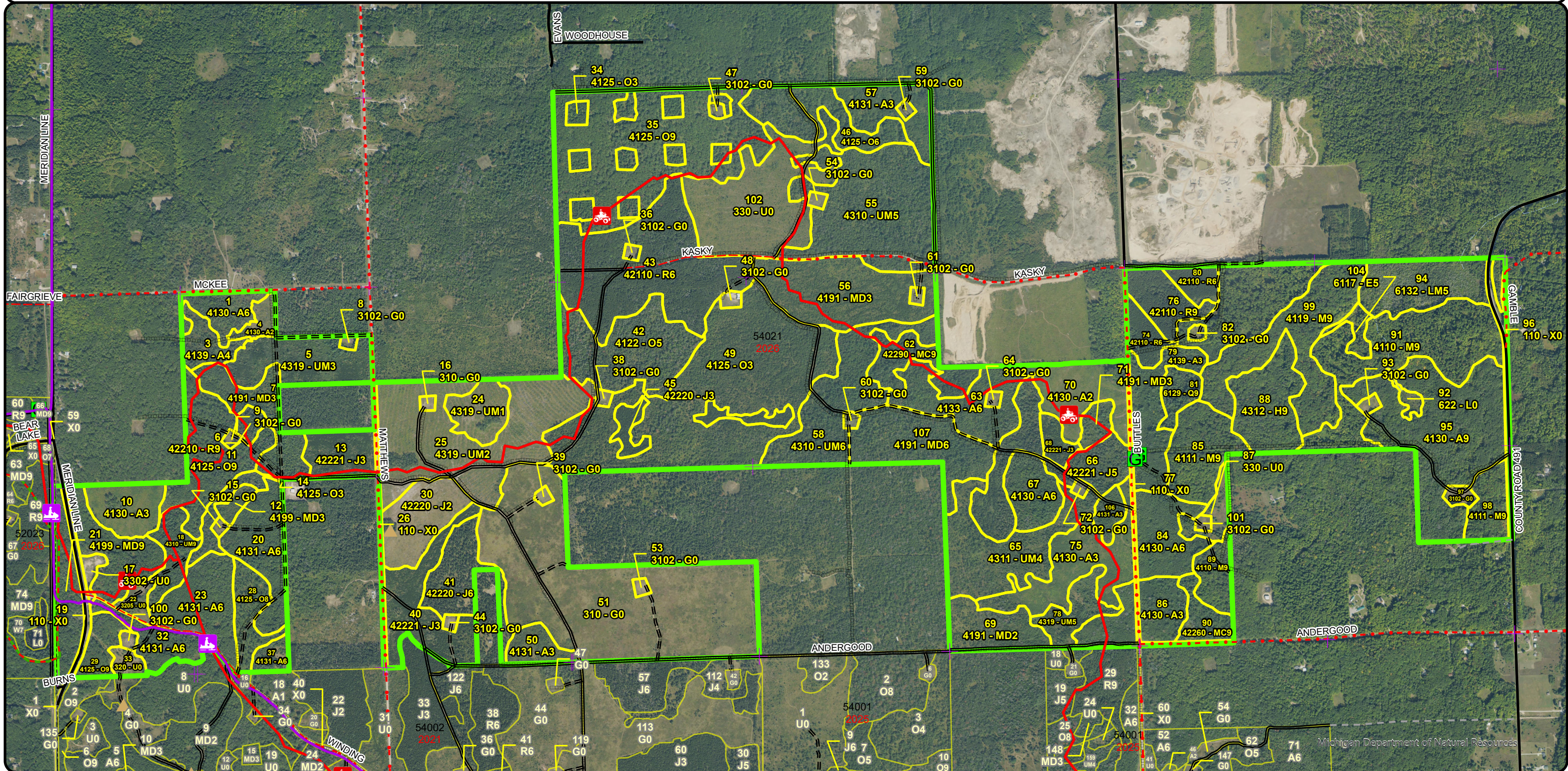


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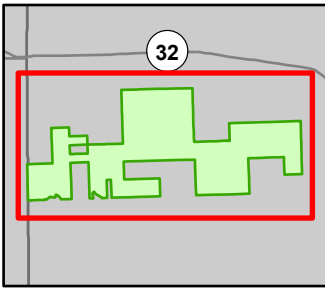
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- 622 - Lowland Shrub
- State Forests



**Special Conservation Areas
& Site Conditions Map**

Compartment: 54021
T30N, R1E, Sec: 28, 29, 31-34
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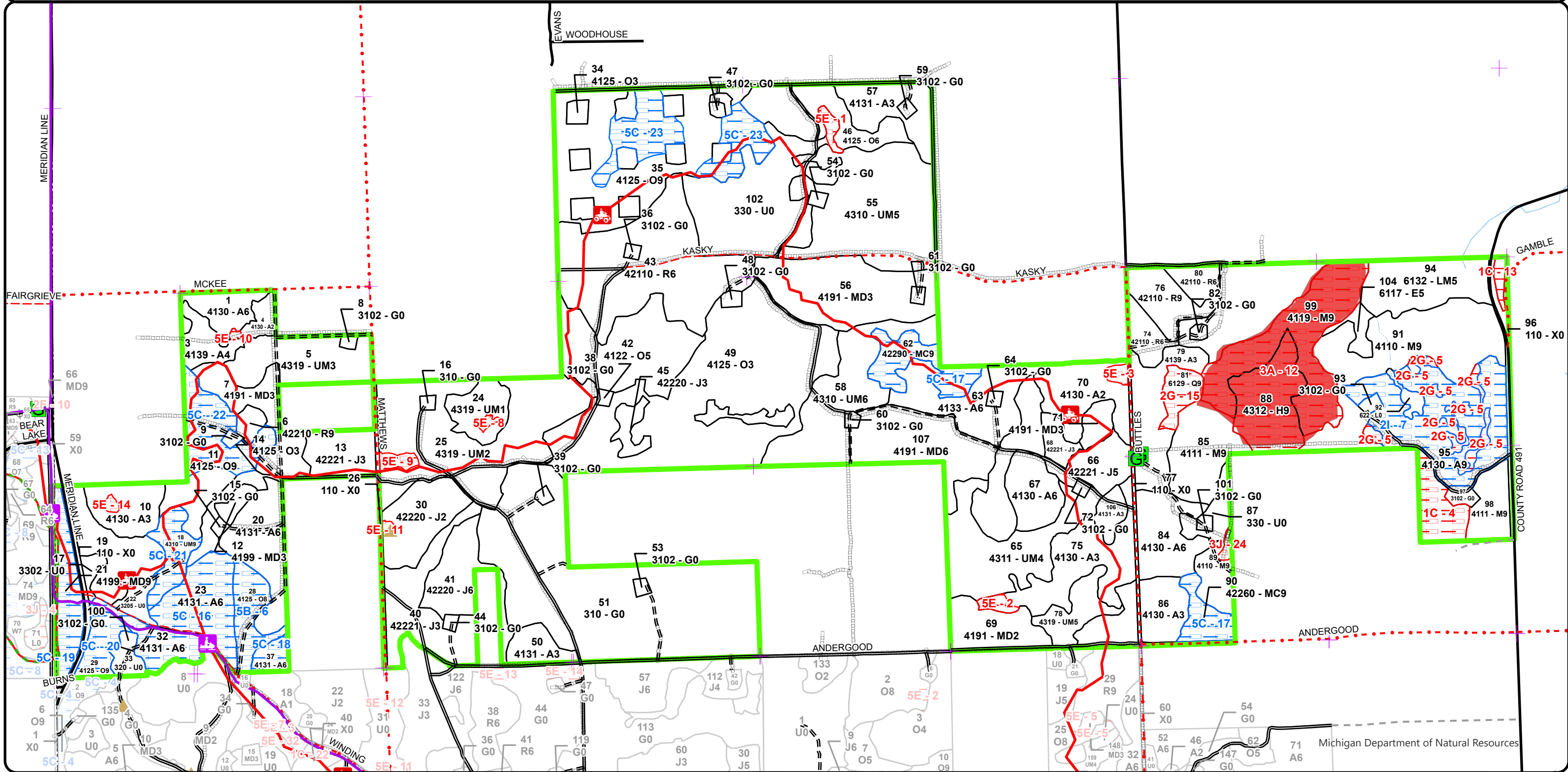


0 0.5 1 Miles

- Berms
- Gate
- Remonumented Section Corners
- ORV Trails
- Snowmobile Trails
- Designated Bicycle Trails
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- DNR - Secondary Forest Road
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- Federal / State / County - Paved Road
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- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Drain
- Intermittent Stream
- Pipeline
- Powerline
- Compartment Boundary
- Counties
- Available w/ Constraints
- Unavailable

- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams



Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit

Compartment 21

Year of Entry 2026

Trevor Kubitskey : Examiner



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+	Unseen-Aged	Total
Aspen	0	77	9	66	72	48	39	71	0	0	0	0	0	0	0	0	0	0	379
Hemlock	0	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	26
Herbaceous Openland	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	156
Jack Pine	0	23	44	16	33	21	0	0	0	0	0	0	0	0	0	0	0	0	136
Low-Density Trees	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	8
Lowland Deciduous	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	4
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0	27
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	53	39	0	34	0	0	0	0	18	0	0	0	0	0	0	0	144
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	9	16	0	0	0	0	0	0	25
Northern Hardwood	0	0	0	0	0	0	0	0	0	12	169	0	0	0	0	0	0	0	181
Oak	0	0	0	144	0	14	0	41	0	81	65	13	0	0	0	0	0	0	358
Red Pine	0	0	0	0	0	15	0	89	0	0	4	0	0	0	0	0	0	0	108
Upland Mixed Forest	0	87	27	0	52	40	0	0	0	12	0	0	0	0	0	0	0	76	294
Upland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Urban	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Total	252	187	133	265	157	172	39	201	0	110	265	56	8	27	0	0	0	76	1941



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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:

11	54021011-Cut	33.3	4125 - Black, N. Pin Oak	Sawtimber Well	92	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Final Harvest all stems 2" DBH and up. Standard Retention. Do NOT cut any White or Red Pine. Retention can be left around Mixed Pine and Oak pockets. Majority of the White Oak component is in the NE polygon.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any amount of Mixed Oak, Aspen, Red Maple, or mixed pine that meet moderately to fully stocked criteria.</p> <p><u>Other Comment:</u> ORV trail protection specs, scatter slash, soft Oak wilt specs (with exceptions).</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
35	54021035-Cut	53.4	4125 - Black, N. Pin Oak	Sawtimber Well	88	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Final Harvest all stems 2" DBH and up. Standard Retention around any large wolffy crowned White or Black/Red Oaks. Do NOT cut any pine. Sale preparer may have to red line out the '5spot' polygons (stand 34).</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any amount of Mixed Oak, Aspen, and red maple that meet moderately stocked criteria. If stand is dominated by Aspen, that is OK.</p> <p><u>Other Comment:</u> ORV protection specs, Soft Oak wilt specs (with exceptions), and wildlife shrub protection specs.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
51	54021051_NF	131.4	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> This is part of the winding road pine barrens complex. Barrens may be maintained on an ongoing rotational basis to produce wildlife forage and to maintain the barren character, through burning, mowing, mulching, planting, herbicide, or other agriculture practices.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

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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
85 54021085-Removal	24.1	4111 - S.Maple, Hard Mast Association	Sawtimber Well	91	81-110	Harvest	Overstory Removal	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Overstory removal harvesting all stems 4" DBH and up. Retention will be designated as Basal area retention.</p> <p><u>Specs:</u> -Within 100 ft of stands 88 & 99 mark to leave down to 60 sq ft to maintain buffer for adjacent ERA. -Remainder of the stand mark to leave ~5-10 BA of large crowned, large diameter, wind firm sugar maple and/or Red Oak. Where Possible, avoid cutting Oak larger than 20" DBH. Do not cut White/Red Pine. It is encouraged for the sale preparer to try to mark stand in a way that will allow the producer to remove the trees while limiting damage to saplings (i.e mark out designated skid rows/drop areas).</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderately to fully stocked desirable hardwood dominated by sugar maple, birch, basswood, and oak. Stand should not be dominated by ironwood and/or beech. A component of red maple and mixed pine or aspen is acceptable.</p> <p><u>Other Comment:</u> Add sapling protection specs, damaged timber specs, and oak wilt specs. Roundwood/shortwood operation only.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
89 54021089-Cut	9.1	4110 - Sugar Maple Association	Sawtimber Well	98	111-140	Harvest	Overstory Removal	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Overstory removal harvesting all stems 4" DBH and up. Retention will be a combination of basal area. Mark to leave ~5-10 BA of large crowned, large diameter, wind firm Sugar Maple and/or Oak. Where possibly, avoid cutting Oak greater than 20" DBH. Do not cut red/white pine. Exclude and protect the vernal pool in the NE portion of the stand. It is encouraged the sale preparer marks the stand in a way that may reduce/limit damage to sugar maple saplings (i.e mark/designated out skid trails around areas of higher sapling densities).</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Other, Pre-Commercial Thinning - Hand</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderately to fully stocked hardwood stand dominated by desirable species such as Sugar Maple, Birch, Basswood and Oak. Stand should not be dominated by Beech and/or Ironwood. A minor component of Red Maple, and Mixed Red/White Pine is acceptable.</p> <p><u>Other Comment:</u> Sapling protection specs, Hard Oak wilt specs (no exceptions) and roundwood operation only.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
95 54021095_Cut	49.1	4130 - Aspen	Sawtimber Well	61	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all stems 2" DBH and up. Standard retention. Treatment has already been adjusted to exclude and protect vernal pools. Place retention around areas that may be deemed 'too wet' during sale prep or areas of desirable/dense hawthorn. Do NOT cut White Pine, Red Pine or Hemlock. Mark to leave any large diameter (20" +), open grown sugar maple not to exceed 5 ba for stand. Try to protect as much sub-merchantable sugar maple and fir as possible.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderately to fully stocked Aspen with a component of mixed deciduous such as Red/Sugar Maple, Oak, Birch and mixed conifers.</p> <p><u>Other Comment:</u> Dry summer or winter harvest only. Drumming log spec and wildlife shrub protection spec. Soft Oak wilt specs if sale preparer deems necessary. Concern is up against the adjacent hardwood stand to the north.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Approved Treatments:

43 54021043.26_Cut	73.7	42110 - Planted Red Pine	Poletimber Well	65	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Remove every 4th or 5th row and thinning from below in the other rows where planting space between trees and between rows is variable.</p> <p><u>Specs:</u> Where density is higher and row spacing is wide enough, take every 3rd row. Mark stand to be cut. shortwood only. Use trail specs.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></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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Acceptable Regen: Not a regeneration harvest

Other Comment: Indistinct rows were marked throughout in 2016. Uncut portions of the previous sale returned to the state. Repaint if necessary. Recruise. Repackage.

Site Condition

Proposed Start Date: 10/1 /2021

74	54021074.25_ Cut	7.0	42110 - Planted Red Pine	Poletimber Well	40	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Specs: 3rd row thin. possibly mark first few trees of each row to be removed, in some areas with wider rows, may be able to skip 3 rows and take the 4th. Look stand over before laying out which rows to take.

Next Step Treatments:

Acceptable Regen: Not a regeneration harvest

Other Comment: Indistinct rows were marked throughout in 2016. Uncut portions of the previous sale returned to the state. Repaint if necessary. Recruise. Repackage.

Site Condition

Proposed Start Date: 10/1 /2021

76	54021076.24_ Cut	14.0	42110 - Planted Red Pine	Sawtimber Well	62	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Specs: crown thin to 120 ba

Next Step Treatments:

Acceptable Regen: Not a regeneration harvest

Other Comment: Previously row thinned, this stand was crown thinned in 2016 to approximately 120 BA. The Producer returned uncut portions of the previous sale to the state. Repaint if necessary. Recruise. Repackage.

Site Condition

Proposed Start Date: 10/1 /2021

80	54021080.23_ Cut	6.2	42110 - Planted Red Pine	Poletimber Well	40	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Specs: 3rd row thin. possibly mark first few trees of each row to be removed, in some areas with wider rows, may be able to skip 3 rows and take the 4th. Look stand over before laying out which rows to take.

Next Step Treatments:

Acceptable Regen: Not a regeneration harvest

Other Comment: Indistinct rows were marked throughout in 2016. Uncut portions of the previous sale returned to the state. Repaint if necessary. Recruise. Repackage.

Site Condition

Proposed Start Date: 10/1 /2021



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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
102 54021102.18_ Prep	43.3	330 - Low-Density Trees	Nonstocked	0	Unspec ified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Trench for the planting of red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; Monitoring, Herbicide Use; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Treatments: Regen(3yr)</p> <p><u>Acceptable Regen:</u> -fully stocked artificial rp with minor deciduous associates</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 444.6

Report 4 – Site Conditions

Atlanta Mgt. Unit
Trevor Kubitskey : Examiner

Compartment: 21
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
380	261	92	27
27	0	0	27
156	156	0	0
136	135	0	1
63	61	0	2
8	0	0	8
4	4	0	0
27	27	0	0
3	3	0	0
143	126	18	0
25	0	25	0
181	132	0	49
358	286	72	0
108	108	0	0
293	278	12	3
9	9	0	0
21	21	0	0
1,941	1,606	219	116
	83%	11%	6%

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 102.							
2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 75.							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Trevor Kubitskey : Examiner

Compartment: 21
Year of Entry: 2026

3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 70.							
4	Unavailable	1C: Other dept or div proc/practices	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Vernal pools, and seasonal drainages.							
6	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	2I: Survey needed	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area retention for stand 25							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Trevor Kubitskey : Examiner

Compartment: 21
Year of Entry: 2026

10	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area retention for stand 4							
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3A: Conservation Values incompatible with harvest at this time	72	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buttles East Mesic Forest ERA.							
13	Unavailable	1C: Other dept or div proc/practices	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Possibly disposal?							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area retention for stand 10							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Wet, low merchantability and steep edges.							

Report 4 – Site Conditions

Atlanta Mgt. Unit

Compartment: 21

Trevor Kubitskey : Examiner

Year of Entry: 2026

16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stands will hold another 10 years. Allow stands to gain more volume. Also hold for green up concerns with adjacent harvest in compartment 2.							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural Pine Guidance							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consider holding until stands 20 or 23 is treated.							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Stand is naturally regenerating to mixed pine due to Oak decline. South end is also higher quality Oak and mixed mature Red and White Pine.							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Borderline on possible treatment. Stand may hold another 10-20 years. Worried about overall Oak decline in the area.							

Report 4 – Site Conditions

Atlanta Mgt. Unit

Compartment: 21

Trevor Kubitskey : Examiner

Year of Entry: 2026

21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Heavy natural pine component. Let stand sub-canopy develop and see condition in 10-20 years. May consider harvesting next entry or two.							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Overall lower BA than the other portions of stand 11. This portion was treated in the past. Slightly more of a shelterwood. Hold until sub-canopy becomes more merchantable.							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Maintain portion of stand 35 for structure and mast production in an area that Oak decline is present. Overall lower stem density in these parts of the stand resulting in more open grown characteristics and lower merchantability.							
24	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Vernal Pond. Use standard protection specs.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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	4130 - Aspen	Poletimber Well	11.6	35	81-110	N/A	Lower end site in the east, overall quality gets slightly better moving west with better quality aspen and some moderate end oak.																																																																						
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3	4139 - Aspen, Mixed Deciduous	Poletimber Poor	9.3	37	51-80	N/A	Borderline non-forested (low-density trees or upland shrub). Contains essentially .25 acre aspen patches with wildlife shrubs and grass in between. Scattered red maple clumps and some open grown white pine.																																																																						
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4	4130 - Aspen	Sapling Medium	5.1	5	Immature	N/A	Harvested 2019 under contract '54-014-16 Bossman Jack Pine.' Cut in summer, no chipping. Originally was supposed to get re-planted but was never due to MNFI hits. See locked comments for site condition 5E-10. Overall fair aspen regen, some lesser stocked areas in the west/southwest. Jack Pine should be filling in over the next 10 years.																																																																						
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5	4319 - Mixed Upland Forest	Sapling Well	27.2	15	1-50	N/A	Harvested in 2008 under contract 'Jack McKee 54-038-06'. All White/Red Pine and Oak were left. Heavier White Pine xlog/log density in NE along Matthews Rd. Good natural jack pine establishment overall with pockets of Oak, and aspen regen. Thick subcanopy. No concerns with regeneration.																																																																						
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6	42210 - Natural Red Pine	Sawtimber Well	3.5	98	141-170	N/A	Natural Red and White Pine stand. Mixed Oak. Doesn't appear to have been thinned or ever treated. A few naturally declining pine.																																																																				
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7	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	20.7	22	51-80	N/A	Harvested 2002 under contract 'ORV Oak 2' 54-008-00. Somewhat variable stand with areas heavier to aspen, oak and pine. Bigtooth clone is in the far northwest. Variable sizes in the white pine. Somewhat scrubby subcanopy. From old sale maps, it looks like the far NW where the bigtooth clone is was excluded from the 2002 sale. Diameters in the area are slightly larger than the majority of the stand. Borderline pole in some spots but overall still sap.																																																																				
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10	4130 - Aspen	Sapling Well	15.6	5	Immature	N/A	Harvest complete 09/04/19. Overall regeneration is doing well, browse on red maple and oak is present but some has grown past browse height. Some areas are lesser stocked but overall still fully stocked.																																																																				
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11	4125 - Black, N. Pin Oak	Sawtimber Well	55.4	92	81-110	N/A	Two part stand separated by stand 18 (natural white/red pine). The NE portion of the stand was partially treated in 2000 leaving all Oak and White/Red Pine. The remainder of the stand doesn't appear to have been treated. Some areas with better quality stems with some true pockets of Pin Oak. Scattered Aspen clones mostly near stand 18. Some areas of better Oak sapling recruitment but nothing significant. High hawthorn densities along the edge near stand 14 and up into the NE portion near the gas well. More open grown, 'woffy' Oak in the NE as well.																																																																								
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12	4199 - Other Mixed Upland Deciduous	Sapling Well	3.4	15	Immature	N/A	Harvested 2009. Parent stand was Jack Pine. Small stand.																																																																								
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13	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	14.3	15	1-50	N/A	Harvested in 2009. Mostly natural Jack Pine with scattered Oak, aspen and maple. Fairly dense/thick stand. ORV trail runs through the south end of the stand.																																																																								
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14	4125 - Black, N. Pin Oak	Sapling Well	7.3	25	1-50	N/A	Unsure on history of the stand. southwest portion of stand sits in a small valley. Mostly quaking aspen and pin oak with the occasional red maple, and white/jack pine. Xlog Oak pretty much dead resulting in thick oak sapling regeneration. Age is estimate because saplings are too small to get a core sample. Age was estimated from nearby stands with cutting records and similar sizes.																																																																								
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15	3102 - Grass	Nonstocked	0.9		Unspecified		Gas well. Trendwell Antrim Inc. State Vienna #4-31. Permit # 44273																																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	310 - Herbaceous Openland	Nonstocked	1.0		Unspecified		Gas well. Muskegon Operating Company LLC. State Vienna B1-32. Permit # 44114. Currently producing ANTRIM (G)
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17	3302 - Low Density Conifer Trees	Nonstocked	2.6	0	Unspecified	42140 - Planted Mixed Pine	Old dumping area, ORV area and shooting range. An attempt was made to trench and plant stand to reduce illegal dumping and ORV use. Appears that the majority of the plantation failed. Potential radio/cell tower site.
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Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	< 5 feet	Sapling
Jack Pine	Low	< 5 feet	Sapling

Old Notes:
 -Rehabilitated dumping and shooting area
 -C54-1078
 -Year 1 artificial regeneration survey showed 600 TPA for mix of red pine, jack pine, white pine.
 -Likely to fail due to lowest acceptable TPA, but this stand is a 2.6 acre gravel pit, so will not replant
 -Density of pine from lowest to greatest: white pine, jack pine, red pine
 -Replanted/Interplanted with 250 RP/ac bring stocking to 700 Mixed Comifer per acre
 -Forest health report created due to sheppards crook cause by white pine weevil.

18	4310 - Pine, Oak Mix	Sawtimber Well	11.6	80	51-80	N/A	Stand split out from stand 11. Pocket of naturally occurring white and red pine with a higher density of White Oak. Overall white pine regeneration is 15-20ft tall but there is a fair amount around the 5 ft height. Mortality is present in the Hybrid Oak but only single tree decline. Higher Red Pine density in the south finger. Also signs of old fire in the south as well with plow lines and fire burnt stumps.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Pole/Log	9		White Pine	Medium	Variable	Sapling
White Pine	35	Log/Pole/XLog	14	80	Red Maple	Medium	5 - 10 feet	Sapling
Red Pine	10	Log/Pole	12		Beech	Low	5 - 10 feet	Sapling
Quaking Aspen	5	Pole	8		Serviceberry (Juneberry)	Low	Variable	Tall Shrub
White Oak	5	Log/Pole	10		Black/Red (Hybrid) Oak	Medium	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	25	Log/XLog	13	80	White Oak	Low	Variable	Sapling
Red Maple	15	Pole	6					

19	110 - Low Intensity Urban	Nonstocked	4.9		Unspecified	No	Meridian Line Rd.
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20	4131 - Aspen, Oak	Poletimber Well	24.4	38	81-110	N/A	Overall small pole. Areas of some saps but also pockets of small logs. Overall healthy and growing well. Quaking aspen clones scattered throughout.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	8	Pole/Sapling	5		Hawthorn (spp.)	Medium	< 5 feet	Tall Shrub
White Pine	2	Pole/Log	9		White Pine	Low	5 - 10 feet	Sapling
Red Maple	16	Pole/Sapling	6		Red Maple	Low	5 - 10 feet	Sapling
Quaking Aspen	15	Pole/Sapling	5		Northern Pin Oak	Medium	5 - 10 feet	Sapling
Northern Pin Oak	27	Pole/Sap/Log	6		White Oak	Low	5 - 10 feet	Sapling
Bigtooth Aspen	30	Pole	6	38	Pin Cherry	Medium	5 - 10 feet	Sapling
Red Pine	2	Log/Pole	12		Serviceberry (Juneberry)	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21	4199 - Other Mixed Upland Deciduous	Sawtimber Well	17.6	92	81-110	N/A	North half is mostly declining Pin Oak, maybe some poorer quality black oak. White Pine recruiting fairly well throughout. Moving south, site and stand quality increase resulting in a nice stand of mature Oak, Red and White Pine. Overall sits on a west facing aspect between Meridian Line Rd and a Powerline/Snowmobile trail.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Pole/Log	8		Serviceberry (Juneberry)		Low	Variable	Tall Shrub	
Quaking Aspen		10	Pole	8		Jack Pine		Low	5 - 10 feet	Sapling	
Black/Red (Hybrid) Oak		35	Log	16	92	White Pine		High	Variable	Sapling	
White Pine		10	Log/Pole/XLog	12		Hawthorn (spp.)		Medium	5 - 10 feet	Tall Shrub	
Northern Pin Oak		20	Log/Pole	13		Pin Cherry		Medium	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		10	Pole/Log	9		Northern Pin Oak		Medium	Variable	Sapling	
Red Pine		5	Log/Pole/XLog	14		Red Maple		Medium	Variable	Sapling	
						Honeysuckle (spp.)		Low	< 5 feet	Tall Shrub	

22	3205 - Mixed Upland Shrub	Nonstocked	4.8		Unspecified	No	Signs of wildfire through the southeast portion of the stand. Mostly Pin oak, cherry and aspen saplings with the occasional Log Oak, Red Pine and White Pine.
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23	4131 - Aspen, Oak	Poletimber Well	25.1	54	81-110	N/A	Unsure on past management. Some notes indicate a harvest in 1970 removing most species but leaving some larger Oak and Pine. Quality does vary resulting in areas of quaking and bigtooth as well as pin and black/red hybrid oak. White Oak stocking is consistent throughout with heavier white pine component west of the ORV trail. Stocking is surprisingly low in areas; slightly higher within the aspen clones.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		30	Pole	9	54	Red Pine		Low	Variable	Sapling	
Northern Pin Oak		5	Log/Pole	11		White Pine		Medium	Variable	Sapling	
Quaking Aspen		10	Pole	7		White Oak		Medium	5 - 10 feet	Sapling	
White Pine		5	Log/Pole	12		Black/Red (Hybrid) Oak		Low	Variable	Sapling	
Black/Red (Hybrid) Oak		15	Log/Pole/Sap	10		Serviceberry (Juneberry)		Medium	10 - 20 feet	Tall Shrub	
White Oak		10	Log/Pole/XLog	13		Red Maple		Medium	5 - 10 feet	Sapling	
Red Maple		15	Pole/Log	9							
Red Pine		10	Log/Pole	11							

24	4319 - Mixed Upland Forest	Sapling Poor	13.1	4	Immature	N/A	Per pre-review 5/14/2024- Dropped additional monitoring treatment to asses Jack Pine recruitment and will leave stand as is. Work with WLD and look at Pine Barren management guide to determine if site meets barren criteria.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		19	Sapling	1	4	Northern Pin Oak		Low	< 5 feet	Sapling	
Red Maple		2	Sapling	1	4	Red Maple		Low	< 5 feet	Sapling	
Pin Cherry		30	Sapling	1	4	Hawthorn (spp.)		Low	5 - 10 feet	Tall Shrub	
Northern Pin Oak		3	Sapling	1	4						
Jack Pine		46	Sapling	1	4						

25	4319 - Mixed Upland Forest	Sapling Medium	73.8	4	Immature	N/A	Per pre-review 5/14/2024- Dropped additional monitoring treatment to asses Jack Pine recruitment and will leave stand as is. Work with WLD and look at Pine Barren management guide to determine if site meets barren criteria.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Pin Cherry		28	Sapling	1	4	Hawthorn (spp.)		Low	5 - 10 feet	Tall Shrub	
Northern Pin Oak		5	Sapling	1	4	Red Maple		Low	< 5 feet	Sapling	
Quaking Aspen		13	Sapling	1	4	Pin Cherry		Medium	< 5 feet	Sapling	
Jack Pine		54	Sapling	1	4	Northern Pin Oak		Low	< 5 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
26	110 - Low Intensity Urban	Nonstocked	3.9		Unspecified	No	Matthews Rd ROW			
28	4125 - Black, N. Pin Oak	Sawtimber Medium	13.3	104	1-50	N/A	Shelterwood completed in 2010. Good oak stump sprouting along with red maple. Oak regeneration is borderline fully stocked but the majority is now overtopped by red maple. Overstory Oak is fair to good quality with very few showing signs of decline and epicormic branching.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Black/Red (Hybrid) Oak	94	Log/XLog	17	104	Bigtooth Aspen	Low	10 - 20 feet	Sapling
		White Oak	2	Log	13		Pin Cherry	Low	5 - 10 feet	Tall Shrub
		White Pine	2	Log/Pole	15		White Pine	Low	5 - 10 feet	Sapling
		Red Pine	2	Log/Pole	12		White Oak	Medium	5 - 10 feet	Sapling
							Red Maple	High	10 - 20 feet	Sapling
							Black/Red (Hybrid) Oak	High	10 - 20 feet	Sapling
29	4125 - Black, N. Pin Oak	Sawtimber Well	9.2	94	111-140	N/A	Some single tree mortality present. Oak overall healthy, with some spots better quality, borderline Red Oak with areas more towards Pin. Aspen and Red Maple here and there. Some doubles have one stem dead, with the other still alive. Canopies don't look the best. Unsure on past thinning or treatment.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		White Pine	4	Pole/Log	9		White Pine	Low	5 - 10 feet	Sapling
		Red Maple	10	Pole/Log	9		White Oak	Low	5 - 10 feet	Seeding
		Black/Red (Hybrid) Oak	72	Log	14	94	Red Oak	Low	< 5 feet	Seeding
		White Oak	2	Pole/Log	8		Serviceberry (Juneberry)	Medium	10 - 20 feet	Sapling
		Bigtooth Aspen	10	Log/Pole	12		Red Maple	Medium	5 - 10 feet	Sapling
		Red Pine	2	Pole/Log	8					
30	42220 - Natural Jack Pine	Sapling Medium	22.5	4	Immature	N/A	Harvested in 2020, 'Bossman Jack Pine'. Natural regeneration survey completed 4/30/2024. Patchy stocking but does contain good jack pine regeneration. Heavy browse on the oak.			
		Canopy Species	% Cover	Size Class	DBH	Age				
		Pin Cherry	5	Sapling	1	4				
		Jack Pine	95	Sapling	1	4				
32	4131 - Aspen, Oak	Poletimber Well	13.4	54	81-110	N/A	Possibly was merged with stand 23 at one time. Appears to have similar notes from the 1970 harvest leaving scattered larger pine and oak. Better white oak density than stand 23 to the north. Slightly poorer Black Oak, borderline Pin Oak. Strip of log/xlog red and white pine along Winding Rd.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		White Pine	8	Log/XLog/Pole	15		White Pine	Low	Variable	Sapling
		Jack Pine	2	Pole	7		White Oak	Medium	5 - 10 feet	Sapling
		White Oak	15	Log	15		Red Maple	Medium	10 - 20 feet	Sapling
		Quaking Aspen	5	Pole/Log	9		Northern Pin Oak	Low	5 - 10 feet	Sapling
		Red Maple	15	Pole/Log	9		Serviceberry (Juneberry)	Low	Variable	Tall Shrub
		Bigtooth Aspen	35	Log/Pole	10	54				
		Red Pine	5	Log/XLog	16					
		Northern Pin Oak	15	Log/Pole/Sap	11					
33	320 - Upland Shrub	Nonstocked	3.7		Unspecified	No	Scattered cherry brush. ORV damage.			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
34	4125 - Black, N. Pin Oak	Sapling Well	18.5	27	Immature	N/A	'Bramble 5 Spot 54-010-96' harvested in 1997. Most spots are growing well																																																															
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35	4125 - Black, N. Pin Oak	Sawtimber Well	81.4	88	81-110	N/A	Mix of Pin and Hybrid Oak. Some scattered Oak decline. Two veins of better quality aspen/oak in the far west and in the east. Variable stocking with Oak savanna type appearance in some areas. Better ground in the northwest. More white pine in the west. 80, 70, 120, 90, 140. Overall ~100 sq ft.																																																															
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36	3102 - Grass	Nonstocked	1.0		Unspecified		Antrim Gas Well. Muskegon Operating Company, LLC State Vienna #D3-29 Permit # 44112																																																															
37	4131 - Aspen, Oak	Poletimber Well	4.7	48	81-110	N/A	Small depression. Mostly aspen, pin oak and small pocket of jack pine.																																																															
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40	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	29.2	15	Immature	N/A	Harvested in 2009 under contract "Jack McKee 54-038-06.". All Oak was left. Current stand is mostly natural jack pine with pockets of aspen and oak. Some scattered pole aspen as well as log Jack Pine mostly in the SE near the private. Areas do contain very dense stocking of Jack Pine.																																																										
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41	42220 - Natural Jack Pine	Poletimber Well	20.8	49	51-80	N/A	Slightly more open grown Jack Pine, scattered openings with hawthorn, cherry and aspen. Small inclusion of relic Red Pine in the SW. Old fire plow lines.																																																										
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42	4122 - Oak, Pine	Poletimber Medium	40.8	67	1-50	N/A	Rough stand. Various cohorts of Oak (log, pole and mostly sap). Jack Pine and Log/Xlog Oak falling out of stand giving way to mostly Oak saps and wildlife shrubs. Dense pockets of hawthorn throughout. Small inclusion of planted Red Pine in the west central. Possibly next entry stand may transition to more an O3. Currently J4, O5, O3 with scattered upland shrub pockets. Timber value is very low, stand is more beneficial to wildlife in it's current state.																																																										
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43	42110 - Planted Red Pine	Poletimber Well	74.3	65	141-170	N/A	Currently under contract 'Press Eject RP 54-003-22'. Payment Unit #1. lower site index, jp is mostly dieing out. red pine is slow growing but good quality. never been thinned. (new 11/24/2021) Stand had indistinct rows which were marked in 2016. The producer returned uncut portions of the sale which will be recruised and sold again.																																																										
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45	42220 - Natural Jack Pine	Sapling Well	10.5	26	1-50	N/A	Harvested in 1998 with stand 49. This stand (mult-polygon) contains the denser, contiguous natural jack pine. Most likely will be treated with stand 49 as well.																																																																						
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46	4125 - Black, N. Pin Oak	Poletimber Well	13.9	47	51-80	N/A	Oak ridge. Scattered large diameter open grown Oak with mostly small log/large pole stump sprout origin oak. Pockets of red maple and aspen. Slightly better quality and over stand development than stand 55 to the south. Variable density.																																																																						
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49	4125 - Black, N. Pin Oak	Sapling Well	118.4	26	1-50	N/A	Cut in 1998. Good overall regeneration of a mix of species. Areas of denser jack pine establishment in the old skid trails. Some areas are slightly more upland shrub with cherry, hawthorn and service berry. Small clones of quaking and bigtooth. Some log/xlog Oak along the north edge. Somewhat difficult to walk through due to density and thick hawthorn in the subcanopy.																																																																						
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50	4131 - Aspen, Oak	Sapling Well	8.6	15	Immature	N/A	Harvested in 2009 under contract "Jack McKee 54-038-06". Fairly scrubby stand. Aspen looks fair to poor quality, with scattered jack pine throughout.																																																																
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51	310 - Herbaceous Openland	Nonstocked	131.3		Unspecified	Managed Opening	Winding Road Barrens. Burned in spring of 2014.																																																																
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55	4310 - Pine, Oak Mix	Poletimber Medium	76.1	47	1-50	N/A	Almost in and out of forested with multiple age cohorts. Dense hawthorn, scrub Oak/Cherry sap pockets with intermixed pole aspen, jack pine and oak. Scattered supercanopy Xlog Oak, Red and White Pine. Supercanopy Oak is mostly low timber value with cavities, and open grown characteristics. Overall very scrubby stand. Highly beneficial wildlife stand due to soft and hard mast species. Tough to walk through in most spots. Poor site quality resulting in extremely slow growth.																																																																
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56	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	44.2	15	Immature	N/A	Harvested 2009 under contract 54-038-06 'Jack McKee'. Jack pine established well in the old skid trails. Scattered pole, log red pine. Thick sub-canopy. Heavy use by wildlife.																																																																
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57	4131 - Aspen, Oak	Sapling Well	18.9	27	1-50	N/A	Harvested 1997. Overall good stem densities, On cusp of pole sized stand, areas of smaller poles but consistent stocking of sub-merchantable stems (<5" DBH). Scattered Oak logs. Stand seems fairly small for age?																																																															
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58	4310 - Pine, Oak Mix	Poletimber Well	40.1	47	51-80	N/A	Stand is borderline MC7. Various ages in the White Pine - old records indicate a harvest sometime between 1960-1965 as well as another harvest in 1977 removing Aspen ,JP, Oak, hardwoods, and some red and white pine. Stand was separated out from 107 due to higher Pine component. More red maple density in the north half, scattered Oak and White/Red Pine xlogs as well. Lots of wind damage to the tops of white and red pines.																																																															
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62	42290 - Natural Mixed Pine	Sawtimber Well	16.0	107	111-140	N/A	Natural Red and White Pine. Some higher density pockets of pine, but in between is mostly scrubby red maple, oak, and shrubs. East portion contains more contiguous pine canopy with an old fence line and possibly planted white pine (~1 acre).																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
63	4133 - Aspen, Mixed Pine	Poletimber Well	27.4	47	111-140	N/A	Overall rough stand. Some better quality pockets with bigtooth and hybrid oak in the east and north then transitions to more scrubby pin oak and scrubby pin oak to the west. Some inclusions of more red maple/birch as well as scattered red and white pine. Pine BA is variable.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Jack Pine	5	Pole	5		Northern Pin Oak	Medium		Variable	Sapling
Bigtooth Aspen	10	Pole/Log	9		Serviceberry (Juneberry)	Medium		10 - 20 feet	Tall Shrub
Paper Birch	4	Pole/Log	8		Pin Cherry	Medium		5 - 10 feet	Tall Shrub
Red Maple	12	Pole/Log	8		Hawthorn (spp.)	High		5 - 10 feet	Tall Shrub
Northern Pin Oak	12	Pole	7		White Pine	Low		10 - 20 feet	Sapling
Quaking Aspen	30	Pole	8	47					
Black/Red (Hybrid) Oak	12	Log/Pole	11						
White Pine	10	Log/Pole	10						
Red Pine	5	Log/XLog/Pole	14						
64	3102 - Grass	Nonstocked	1.0		Unspecified			Antrim Gas Well. Muskegon Operating Company, LLC State Vienna B3-33 Permit # 43784	
65	4311 - Pine, Aspen Mix	Poletimber Poor	38.8	37	1-50	N/A		Borderline forested, non-forested. Scattered Jack Pine poles, with pockets of pole aspen and oak. In areas of lower stocked 'canopy' trees, there is a thick sub-canopy of scrubby hawthorn, serviceberry, cherry and oak. Somewhat difficult to type out in MIFI. Possibly slightly better quality in the west with a small inclusion of bigtooth and hybrid oak logs.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Black/Red (Hybrid) Oak	2	Log/XLog	15		White Pine	Low	5 - 10 feet		Sapling
White Pine	5	Pole/Log	8		Northern Pin Oak	Medium	< 5 feet		Sapling
Pin Cherry	5	Sapling/Pole	3		Hawthorn (spp.)	Full	5 - 10 feet		Tall Shrub
Bigtooth Aspen	5	Pole	8		Pin Cherry	High	< 5 feet		Tall Shrub
Northern Pin Oak	20	Sapling/Pole	4		Serviceberry (Juneberry)	Medium	10 - 20 feet		Tall Shrub
Red Maple	3	Pole	5						
Quaking Aspen	20	Pole/Sapling	6						
Jack Pine	40	Pole/Sapling	7	37					
66	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	33.2	37	51-80	N/A	Closer to 75% canopy cover. Some areas especially in the east contain more broken canopy. Quality is variable, with some areas of poor form, more open grown/scrubby. Stand is overall merchantable but stem density is on the lower end.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	5	Log/Pole	10		Red Maple	Low		5 - 10 feet	Sapling
Red Pine	5	Pole	7		White Pine	Low		5 - 10 feet	Sapling
Quaking Aspen	25	Pole	6		Northern Pin Oak	Medium		Variable	Sapling
Northern Pin Oak	5	Pole/Sapling	6		Hawthorn (spp.)	High		< 5 feet	Tall Shrub
Jack Pine	60	Pole	8	37	Pin Cherry	High		5 - 10 feet	Tall Shrub
					Serviceberry (Juneberry)	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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67	4130 - Aspen	Poletimber Well	15.4	47	81-110	N/A	Somewhat variable stand. Stocking and size is hit or miss. Aspen poles and logs with some portions even larger sapling sized. Somewhat scrubby sub-canopy with mostly mixed shrubs and oak. Scattered White Pine logs.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		5	Pole	6		White Pine		Low	5 - 10 feet	Sapling	
Red Maple		8	Pole	7		Red Maple		Low	10 - 20 feet	Sapling	
Northern Pin Oak		15	Pole/Log/Sap	7		Serviceberry (Juneberry)		Medium	10 - 20 feet	Sapling	
White Pine		10	Log/Pole	14		Hawthorn (spp.)		Medium	5 - 10 feet	Tall Shrub	
Quaking Aspen		60	Pole/Log	8	47	Pin Cherry		Medium	< 5 feet	Tall Shrub	
Red Pine		2	Log/Pole	10		Northern Pin Oak		Medium	10 - 20 feet	Sapling	

68	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	5.4	26	1-50	N/A	Mostly natural jack pine. Scattered white and red pine throughout with pockets of aspen and oak and some cherry.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		5	Pole	8		Pin Cherry		Medium	< 5 feet	Tall Shrub
Red Pine		3	Pole/Sapling	7		Black/Red (Hybrid) Oak		Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		15	Sapling/Pole	3		Hawthorn (spp.)		Low	< 5 feet	Tall Shrub
Jack Pine		62	Sapling/Pole	4	26	Serviceberry (Juneberry)		Low	10 - 20 feet	Sapling
Pin Cherry		5	Sapling	1						
Quaking Aspen		10	Pole	5						

69	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	18.0	26	1-50	N/A	Scrubby stand. Oak seems to be regeneration well. Hawthorn and cherry are quite dense in pockets in the subcanopy. Scattered Jack Pine pockets as well as white pine throughout. Some larger pole, log oak.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		10	Sapling/Pole	3		Pin Cherry		Medium	5 - 10 feet	Tall Shrub
Northern Pin Oak		55	Sapling/Pole	2	26	Hawthorn (spp.)		Medium	5 - 10 feet	Tall Shrub
Jack Pine		25	Sapling/Pole	4		Northern Pin Oak		Medium	< 5 feet	Sapling
White Pine		5	Pole/Sapling	6		Jack Pine		Low	5 - 10 feet	Sapling
Pin Cherry		5	Sapling	1		Serviceberry (Juneberry)		Low	5 - 10 feet	Sapling

70	4130 - Aspen	Sapling Medium	23.4	5	Immature	N/A	Regeneration survey completed 04/30/24. Patches of very low tree density to the North of the stand dominated by black raspberry. Pockets of dogwood and willow near the South East edge of stand near Buttles Rd.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		80	Sapling	1	5	Quaking Aspen		Medium	< 5 feet	Sapling
Red Maple		4	Sapling	1	5	Willow spp.		Trace	< 5 feet	Sapling
Pin Cherry		3	Sapling	1	5	Red Maple		Low	< 5 feet	Sapling
White Pine		3	Sapling	3		Jack Pine		Trace	< 5 feet	Sapling
Bigtooth Aspen		10	Sapling	1	5	Black Raspberry		High	< 5 feet	Tall Shrub
						Pin Cherry		Medium	< 5 feet	Sapling
						Dogwood (spp.)		Low	< 5 feet	Tall Shrub
						Hawthorn (spp.)		Low	5 - 10 feet	Tall Shrub
						Balsam Poplar		Trace	< 5 feet	Sapling
						Northern Pin Oak		Low	< 5 feet	Sapling
						Sweet Fern		Low	< 5 feet	Tall Shrub
						Bigtooth Aspen		Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
71	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	5.4	15	1-50	N/A	Stand was harvested in 2009 under contract "Jack McKee 54-038-06." All Oak and White Pine were left. White Pine residual BA is roughly ~10 sq ft. A lot of advanced Oak regeneration as well as natural sprouting. Scattered Jack Pine and aspen. Thick subcanopy.																																																						
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72	3102 - Grass	Nonstocked	1.0		Unspecified		Antrim Gas Well. Muskegon Operating Company, LLC State Vienna C4-33 Permit # 44116																																																						
74	42110 - Planted Red Pine	Poletimber Well	8.1	40	141-170	N/A	Currently under contract 'Press Eject RP 54-003-22'. Payment Unit #2. planted in wide rows (~10ft) with narrow spacing (~4-5ft). excelent site quality.																																																						
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75	4130 - Aspen	Sapling Well	32.4	5	Immature	N/A	Regeneration survey completed 04/30/24 stand is well stocked aspen. Sale complete 09/04/19. Natural regeneration goal of medium-well stocked aspen.																																																						
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76	42110 - Planted Red Pine	Sawtimber Well	14.7	62	111-140	N/A	Currently under contract 'Press Eject RP 54-003-22'. Payment Unit #3. 3rd row thinned in 1998																																																						
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77	110 - Low Intensity Urban	Nonstocked	5.2		Unspecified	No	Buttles and Andergood road ROW.																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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78	4319 - Mixed Upland Forest	Poletimber Medium	12.6	37	1-50	N/A	Broken stand. Stand sits in a small frost pocket, and contains mostly scrubby jack pine, oak and some open grown White Pine. Areas are filling in with hawthorn, cherry and serviceberry.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	25	Sapling	2		Hawthorn (spp.)	High	5 - 10 feet	Tall Shrub
White Pine	8	Pole/Sap/Log	7		Pin Cherry	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	10	Pole/Sapling	6		White Pine	Low	< 5 feet	Sapling
Jack Pine	45	Sapling/Pole	4	37	Serviceberry (Juneberry)	Medium	10 - 20 feet	Sapling
Northern Pin Oak	12	Sapling/Pole	4		Jack Pine	Medium	5 - 10 feet	Sapling
					Northern Pin Oak	Medium	Variable	Sapling

79	4139 - Aspen, Mixed Deciduous	Sapling Well	24.0	26	1-50	N/A	Variable. Some higher quality pockets near the Q type and hardwoods. A5, M3. Seems to have slightly better sugar maple recruitment under the log/xlog pines. More supercanopy pine component in the north half.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Pole/Sapling	5		Pin Cherry	Medium	5 - 10 feet	Tall Shrub
White Pine	9	Log/XLog	17		Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Quaking Aspen	17	Sapling/Pole	3	26	Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Jack Pine	5	Sapling/Pole	4		Red Maple	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	10	Pole/Sap/Log	7		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Red Maple	8	Sapling/Pole	4		Sugar Maple	Medium	10 - 20 feet	Sapling
Red Pine	1	Log	16					
Bigtooth Aspen	40	Sapling/Pole	4	26				
Sugar Maple	8	Pole/Sapling	5					

80	42110 - Planted Red Pine	Poletimber Well	6.9	40	141-170	N/A	Currently under contract 'Press Eject RP 54-003-22'. Payment Unit #4planted in wide rows (about 10 ft) with narrow spacing (4-5 ft). excellent site quality.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	2	Pole	7		Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Black Cherry	2	Pole	7		Sugar Maple	Low	< 5 feet	Seeding
Red Pine	96	Pole/Log	8	40	Red Maple	Low	< 5 feet	Seeding
					Cherry (spp.)	Low	Variable	Sapling
					Red Oak	Low	< 5 feet	Seeding

81	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	7.6	114	111-140	N/A	Lowland kettle hole. Surrounded by Log/Xlog White Pines and a handful of Red Pine. South end is slightly more upland with some mixed hardwood component (sugar maple, birch). Main kettle hole is mostly cedar, birch, red maple and fir. Wet.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	2	XLog/Log	18		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	10	Log/Pole	10		Hemlock	Low	10 - 20 feet	Sapling
Paper Birch	5	Pole	7		Balsam Fir	Medium	Variable	Sapling
Black Spruce	10	Pole	8		Black Ash	Medium	Variable	Sapling
Hemlock	15	Log/Pole	12		Paper Birch	Low	10 - 20 feet	Sapling
White Pine	38	Log/XLog/Pole	16	114	Red Maple	Medium	10 - 20 feet	Sapling
Northern White Cedar	15	Pole/Log	9					
Balsam Fir	5	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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82	3102 - Grass	Nonstocked	1.1		Unspecified	Antrim Gas Well. Riverside Energy LLC State Vienna 3-34 Permit # 46650	
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84	4130 - Aspen	Poletimber Well	21.5	39	81-110	N/A	Aspen with pockets of mixed hardwood. Site quality somewhat variable with quaking and pin oak dominating the lower quality sites. Some larger log hybrid oak in the north along with scattered supercanopy white pine. Small pocket of balsam poplar near the gas well.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	8	Pole/Log	8		Red Maple	Medium	10 - 20 feet	Sapling
White Pine	2	Log/XLog	17		Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling
Bigtooth Aspen	40	Pole	7	39	Pin Cherry	Low	5 - 10 feet	Tall Shrub
Red Maple	10	Pole	6		Sugar Maple	Low	10 - 20 feet	Sapling
Quaking Aspen	25	Pole	6	39	Ironwood	Medium	Variable	Sapling
Northern Pin Oak	5	Pole/Sapling	5		Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Paper Birch	5	Pole/Sapling	6		Beech	Low	5 - 10 feet	Sapling
Sugar Maple	5	Pole	6					

85	4111 - S.Maple, Hard Mast Association	Sawtimber Well	24.1	91	81-110	N/A	High quality hardwood stand with large diameters and crowns. This stand compared to stand 89 to the south is that this was thinned in 2010 and has a slightly higher beech density. Sugar Maple sapling regeneration is about 50-60% and appears to be more concentrated in the northern half. PARVHa/PArVVb
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	1	XLog	22		Sugar Maple	High	10 - 20 feet	Sapling
Basswood	6	Log/XLog	17		Leatherwood	Low	< 5 feet	Tall Shrub
Beech	5	Log	15		Beech	Medium	10 - 20 feet	Sapling
White Pine	1	XLog	20		Sugar Maple	Medium	< 5 feet	Seeding
Red Maple	6	Log	14		Ironwood	Medium	10 - 20 feet	Sapling
Red Oak	10	XLog	19					
Sugar Maple	71	Log/XLog/Pole	16	91				

86	4130 - Aspen	Sapling Well	23.1	26	1-50	N/A	Quality varies. Some scattered pockets of quaking but majority is fair quality bigtooth. Oak is borderline hybrid or pin. More hardwood (maple, beech) component within the eastern portions. Scattered xlog white pine along the east edge too. Cusp of pole but still overall sapling.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling/Pole	4		Northern Pin Oak	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	55	Sapling/Pole	4	26	Pin Cherry	Medium	< 5 feet	Tall Shrub
Northern Pin Oak	18	Sapling/Pole/Log	4		Hawthorn (spp.)	Low	< 5 feet	Tall Shrub
White Pine	5	Log/XLog/Pole	16		Red Maple	Low	< 5 feet	Sapling
Quaking Aspen	10	Sapling	3		Beech	Medium	5 - 10 feet	Sapling
Red Pine	2	Log/XLog	17		Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub
					White Pine	Low	< 5 feet	Sapling

87	330 - Low-Density Trees	Nonstocked	7.0		Unspecified	No	Opening. Mostly open grown white pine.
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Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																				
88	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	26.5	102	141-170	N/A	Mesic Northern Forest ERA. Mostly upland Hemlock with mixed hardwood pockets. Handful of yellow birch. Small lowland Hemlock, White Pine, Red Maple inclusion in the south with a nice amount of hemlock recruitment. Very visually appealing stand. PARVCo/PArVVb, AFO and PArVHa PArVVb																																																																				
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89	4110 - Sugar Maple Association	Sawtimber Well	10.4	98	111-140	N/A	Thinned multiple times, last in 1997. Very large, high quality hardwoods. Sugar Maple establishment and recruitment is very impressive. Similar to stand 85; larger diameters/crowns, spread further apart may be what is resulting in impressive maple regeneration. Scattered pines in the south and edges. Age on subcanopy sugar maple is estimated based on the 1997 harvest. PArVHa/PArVVb																																																																				
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90	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	9.3	96	111-140	N/A	Natural White and Red pine slowly converting to hardwoods. Scattered relic white pines. Subcanopy is fairly scrubby with not much for desirable species. Steep bowl/vernal pool at south end of stand. Stand is growing into an un-even aged system.																																																																				
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91	4110 - Sugar Maple Association	Sawtimber Well	89.0	95	81-110	N/A	Thinned 2017. High quality hardwood stand. Some rolling terrain especially in the east polygon with seeps and drainages. Some very nice sugar maple throughout. Sale map from 2016/2017 does not show regen gaps, but does appear that there are smaller regen gaps from just cut tree marking the gaps during the sale prep process. Most regeneration within these gaps is Beech, ironwood, raspberry and white ash. Most of the sugar maple establishment is under areas of larger crowned/ xlog sugar maple.																																																																				
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92	622 - Lowland Shrub	Nonstocked	2.6	0	Unspecified	No	Signs of beaver damage; possibly old. This flooding drains into a series of two other small pools to the northwest.																																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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93	3102 - Grass	Nonstocked	1.4		Unspecified		2 Active Gas Wells. Riverside Energy. State Vienna 2-34. Permit # 46066. Formation: ANTRIM (G) Riverside Energy. State Vienna B3-34. Permit # 55687. Formation: ANTRIM (G)
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94	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	26.9	128	51-80	N/A	Drainage from the seeps, and run-off from the hardwoods to the south. Fairly broken stand due to dead ash, elm, and blowdown. Some scattered upland knolls of birch and hemlock (north edge).
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	25	Pole/Log	8	128	Balsam Fir	High	Variable	Sapling
Black Ash	10	Sapling/Pole	4		Black Ash	Medium	Variable	Sapling
Hemlock	8	Log	14		Paper Birch	Low	10 - 20 feet	Sapling
Red Maple	10	Pole/Sapling	6		Red Osier Dogwood	Medium	< 5 feet	Tall Shrub
Paper Birch	10	Pole	6		Red Maple	Medium	Variable	Sapling
Balsam Fir	22	Pole	6		Hemlock	Low	10 - 20 feet	Sapling
Balsam Poplar	10	Pole	6					
Quaking Aspen	5	Pole	7					

95	4130 - Aspen	Sawtimber Well	70.5	61	111-140	N/A	Unique stand. Mostly upland with scattered vernal pools and lowland characteristics. Bigtooth densities are mostly in the north, then transitioning to quaking aspen in the middle with the balsam poplar density in the south. The small portion of oak within the stand is of lower quality with some heavy mortality. Stand is slowly starting to naturally convert to mixed hardwoods, but aspen in areas is significantly declining.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	5	Pole/Log	8		Paper Birch	Low	10 - 20 feet	Sapling
Bigtooth Aspen	35	Log/Pole	10	61	Balsam Poplar	Low	5 - 10 feet	Sapling
Sugar Maple	5	Log/Pole/XLog	11		Balsam Fir	Medium	Variable	Sapling
Paper Birch	5	Pole/Log	9		Sugar Maple	High	10 - 20 feet	Sapling
White Pine	5	XLog	18		Serviceberry (Juneberry)	Medium	Variable	Tall Shrub
Red Maple	10	Log/Pole	10		Red Oak	Low	10 - 20 feet	Sapling
Red Oak	5	Log/Pole	12		Riverbank Grape	Low	Unspecified	Vine
Red Pine	2	XLog/Log	18		Red Maple	Medium	5 - 10 feet	Sapling
Quaking Aspen	25	Log/Pole	10	61	Sugar Maple	Low	>20 feet	Pole
Hemlock	3	Log/Pole	10		Hemlock	Low	Variable	Sapling
					Beech	Low	5 - 10 feet	Sapling
					Hawthorn (spp.)	Medium	< 5 feet	Tall Shrub

96	110 - Low Intensity Urban	Nonstocked	7.0		Unspecified	No	County Road 491 and associated ROW.
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97	3102 - Grass	Nonstocked	2.4		Unspecified		Gas well site. Two active wells. STATE VIENNA Well #:1-34C . Permit Number: 41488 Status: Producing. Producing Formation: NIAGARAN(G) **H2S** STATE VIENNA C4-34. Permit # 54613. Status: Producing. Producing Formation: ANTRIM(G)
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
98	4111 - S.Maple, Hard Mast Association	Sawtimber Well	12.1	82	81-110	N/A	Overall small log stand. Pockets of poles but overall still meets log criteria. Better sugar maple saps under overmature aspen and good sugar maple seeding establishment under the larger xlog maples on the edges. Beech and oak look rough, but overall maple, basswood and aspen are good. Slightly more poles in the north.																																																																						
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99	4119 - Mixed Northern Hardwoods	Sawtimber Well	45.6	95	171-200	N/A	Mesic Northern Forest ERA. Very nice, high quality stand with large diameters. Areas of true Logs and poles but overall pushing Xlog size. Beech decline is significant throughout but did observe healthy, scale free beech. Sub-canopy contains portions of pure sugar maple saplings except a majority of those are flat topped and possibly suppressed. Beech and Sugar Maple in the sub canopy are ~25-30%. Beech subcanopy is patchy with the majority of the stand easy to walk through. Aspen is present more in the west finger with the better sugar maple pole development (under the declining aspen).																																																																						
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102	330 - Low-Density Trees	Nonstocked	53.8	0	Unspecified	4211 - Planted Red Pine	This stand was chopped via mulcher on 6/28/23. Only unit complete from "Fruit Farm Red Pine". Cut 2016. A variance was approved on 9-23-2016 to clear-cut this portion of what was Stand 43 and plant it to red pine (rather than thinning it).																																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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104 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 4.5 89 51-80 N/A Lowland hardwood drainage. Contains flowing water from a seasonal seep.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	37	Pole/Log/Sap	9	89
Yellow Birch	5	Pole	7	
Paper Birch	15	Pole	6	
Balsam Poplar	7	Pole	6	
Balsam Fir	11	Pole/Sapling	5	
Black Ash	10	Pole/Sapling	6	
Hemlock	15	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Medium	5 - 10 feet	Sapling
Red Maple	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling

106 4131 - Aspen, Oak Sapling Well 5.4 37 1-50 N/A Harvested with stand 65 between 1987-1989. This stand/portion appears to have the better aspen regeneration. Slightly higher quality oak. Still fairly small for 37 years old.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	20	Sapling/Pole	3	
Jack Pine	5	Pole/Sapling	5	
Pin Cherry	8	Sapling/Pole	3	
White Pine	1	Pole/Sapling	7	
Bigtooth Aspen	50	Sapling/Pole	4	37
Red Pine	1	Pole/Sapling	5	
Red Maple	15	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Hawthorn (spp.)	Medium	< 5 feet	Tall Shrub
Red Maple	Low	5 - 10 feet	Sapling
Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Jack Pine	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	Medium	< 5 feet	Tall Shrub

107 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 33.7 47 51-80 N/A Scrubby stand. Scattered log/xlog pine with mostly pole/sapling Oak and mixed shrubs in between. Most of the pine is fairly limby with open grown characteristics. A handful of log Oak. Aspen clones seems to be mostly in the east half of the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	8	Log/Pole/XLog	12	
White Pine	15	Log/Pole/XLog	12	
Jack Pine	10	Pole	7	
Quaking Aspen	10	Pole	6	
Northern Pin Oak	52	Pole/Sap/Log	6	47

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Serviceberry (Juneberry)	Medium	10 - 20 feet	Sapling
Pin Cherry	High	5 - 10 feet	Sapling
Red Maple	Medium	10 - 20 feet	Sapling
Northern Pin Oak	Medium	5 - 10 feet	Sapling