



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54062

Entry Year 2023

Acreage: 1,711

County Montmorency

Management Area: Kirtland's Warbler

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**Revision Date:** 2021-04-08

**Stand Examiner:** Darrick Coy

**Legal Description:**

T32N, R02E, Sec. 2, 11, & 14

**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. Harvests prescribed will help to balance the age classes of aspen, pine, and other cover types to sustainably produce various timber products, enhance game and non-game wildlife habitat and provide for forest-based recreational uses. This compartment is part of the Kirtland's Warbler Management Area which includes the Clear Lake and Tomahawk Creek.

**Soil and topography:**

Soils are primarily well to excessively drained sands. The topography is mostly rolling with some minor areas of extreme slope or flat terrain. Cover types are predominately aspen, oak, planted and natural pine, and lowland conifer. Forest habitat types are primarily dominated by PARVHa, PVCd, and unclassified lowland.

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

The compartment is almost entirely surrounded by state ownership. No gas production facilities/infrastructure exists. The private holdings are primarily used for hunting and other recreation.

**Unique Natural Features:**

Features exist and have been reported by MNFI within this compartment.  
Contact Michigan Natural Features Inventory for more information or reporting.

**Archeological, Historical, and Cultural Features:**

Sites exist. Contact the State Historical Preservation Office for more information or reporting of new sites.

**Special Management Designations or Considerations:**

This compartment is within the Kirtland's Warbler Management Area.  
The essential habitat layer is being revised for analysis as part of the State Forest Plan revision. Previously approved 2013 plan information:

The Kirtland's Warbler Management Area (MA) consists of fifteen units of land that are managed for the federally endangered Kirtland's warbler. Kirtland's warbler management is guided by two documents: Kirtland's Warbler Breeding Range Conservation Plan and Operational Plan for Kirtland's Warbler Habitat Management on Michigan State Forests. Of the 148,017 acres of state forest land that make up the Kirtland's Warbler management area, approximately 90,000 acres, most of the jack pine in the management area, have been identified as essential habitat where management is done in accordance with the Kirtland's Warbler Conservation Plan and Operational Plan. Management on the portion that is not classified as essential habitat will emphasize balancing the age classes of aspen and red pine and regenerating the aging oak resource. Management activities may be constrained or modified based on management recommendations described in the Conservation Strategy. Expected trends within this 10-year planning period are introduced pests and diseases and assuring jack pine regeneration on Kirtland's warbler sites.

(Excerpted From: Northern Lower Peninsula Regional State Forest Management Plan. 4.17 MA 17- Kirtland's Warbler Management Area, Summary of Use and Management, Pg 1. Michigan DNR. 2013.)  
(<https://www2.dnr.state.mi.us/Publications/pdfs/ForestsLandWater/RSFMP/NLP/NLPMgmtPlanSec4.pdf>)

**Watershed and Fisheries Considerations:**

Tomahawk Creek flows northwest through sections 1 and 11 and Twin Tomahawk Lakes is partially within the compartment. Twin Tomahawk Lakes are popular for fishing.

**Wildlife Habitat Considerations:**

## **Mineral Resource and Development Concerns and/or Restrictions**

No active sand/gravel pits are in the vicinity, but there appears to be some potential for sand in the compartment. The compartment lies south of the Guelph/Niagaran reef trend and north of the Antrim Shale gas play. There is no known potential for hydrocarbon production from proven formations, and there are no active State mineral leases in the compartment. The Antrim Shale is likely too thin or absent beneath the compartment. There is no known metallic mineral potential in this part of the state. The State does not own all the mineral rights within the compartment.

## **Vehicle Access:**

Access throughout the compartment is good using existing fire break roads and other gravel county roads. View the status of state forest roads open to motorized use within the compartment online using the Michigan DNR interactive roads maps or download printable maps for free.

## **Survey Needs:**

SW1/4 of SE1/4 of Section 14

## **Recreational Facilities and Opportunities:**

Hunting and Warbler Viewing- Throughout the compartment  
Fishing- Twin Tomahawk Lakes  
ORV, Motorcycling, and ATV- Atlanta Trail  
Snowmobiling- Trail LP9  
Hiking, Skiing, and Bicycling- High Country Pathway

## **Fire Protection:**

Fire response to the compartment will be covered by the Atlanta DNR and Atlanta Tri-Township Fire Department.

## **Additional Compartment Information:**

The following reports from the Inventory are attached:

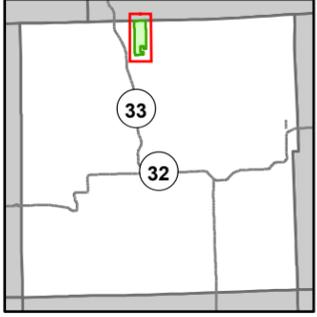
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

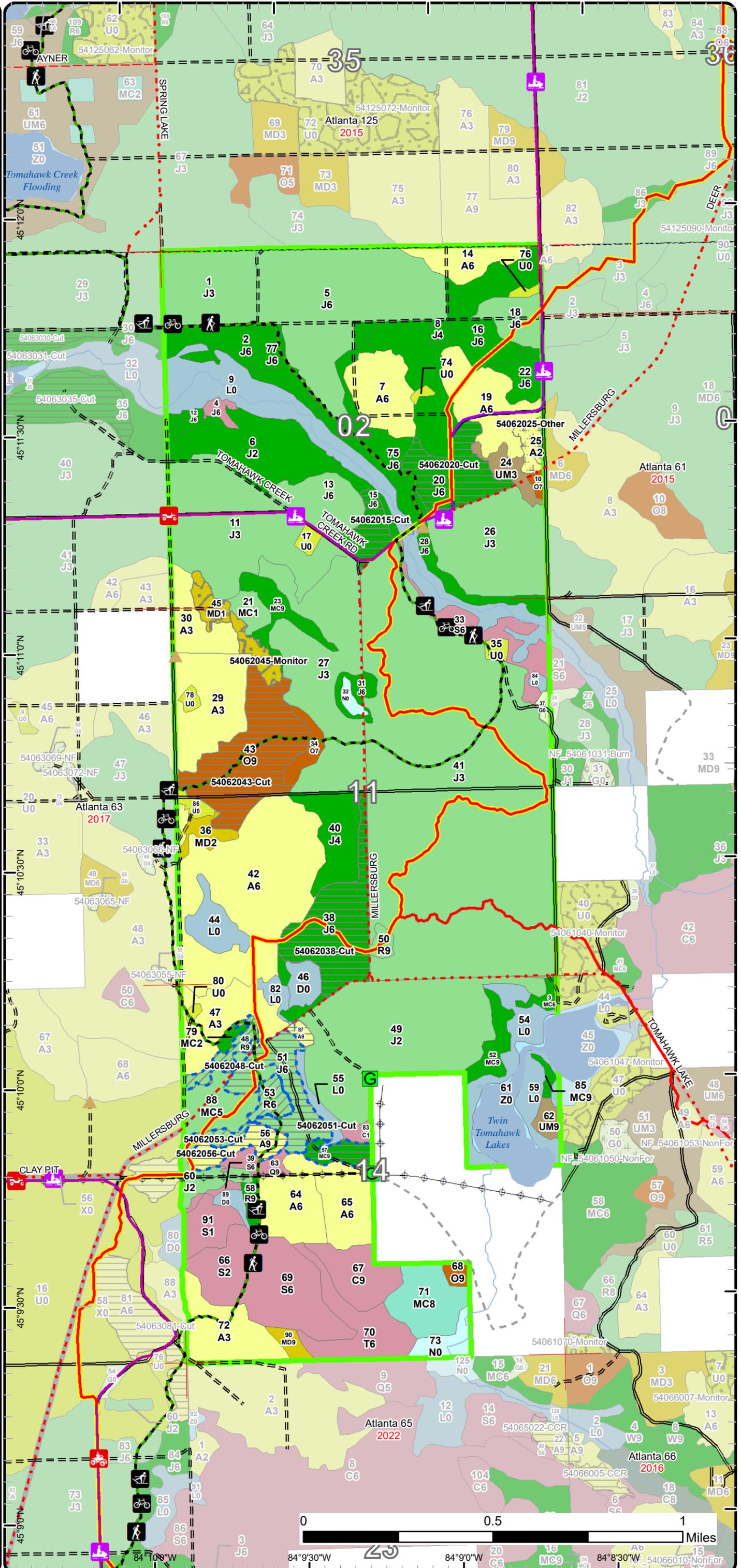
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 62  
 T32N, R02E, Sec. 2, 11, 14  
 County: Montmorency  
 Unit: Atlanta  
 Mgmt Area: Kirtland's Warbler  
 YOE: 2023  
 Acres: 1711.4 GIS Calculated  
 Examiner: Darrick Coy  
 Map Revised: 10/7/2021  
 Map Phase: Post-Review

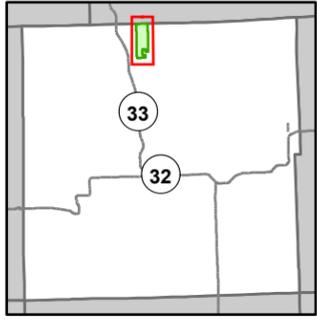


- Miris Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Bike Trails
- Ski Trails
- MCCCT Trails
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Multi-Use Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Gate
- Culvert
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Opening Maintenance
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

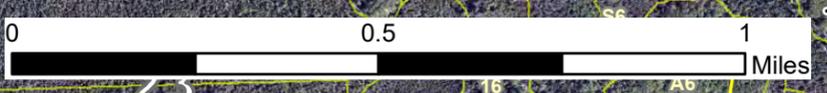
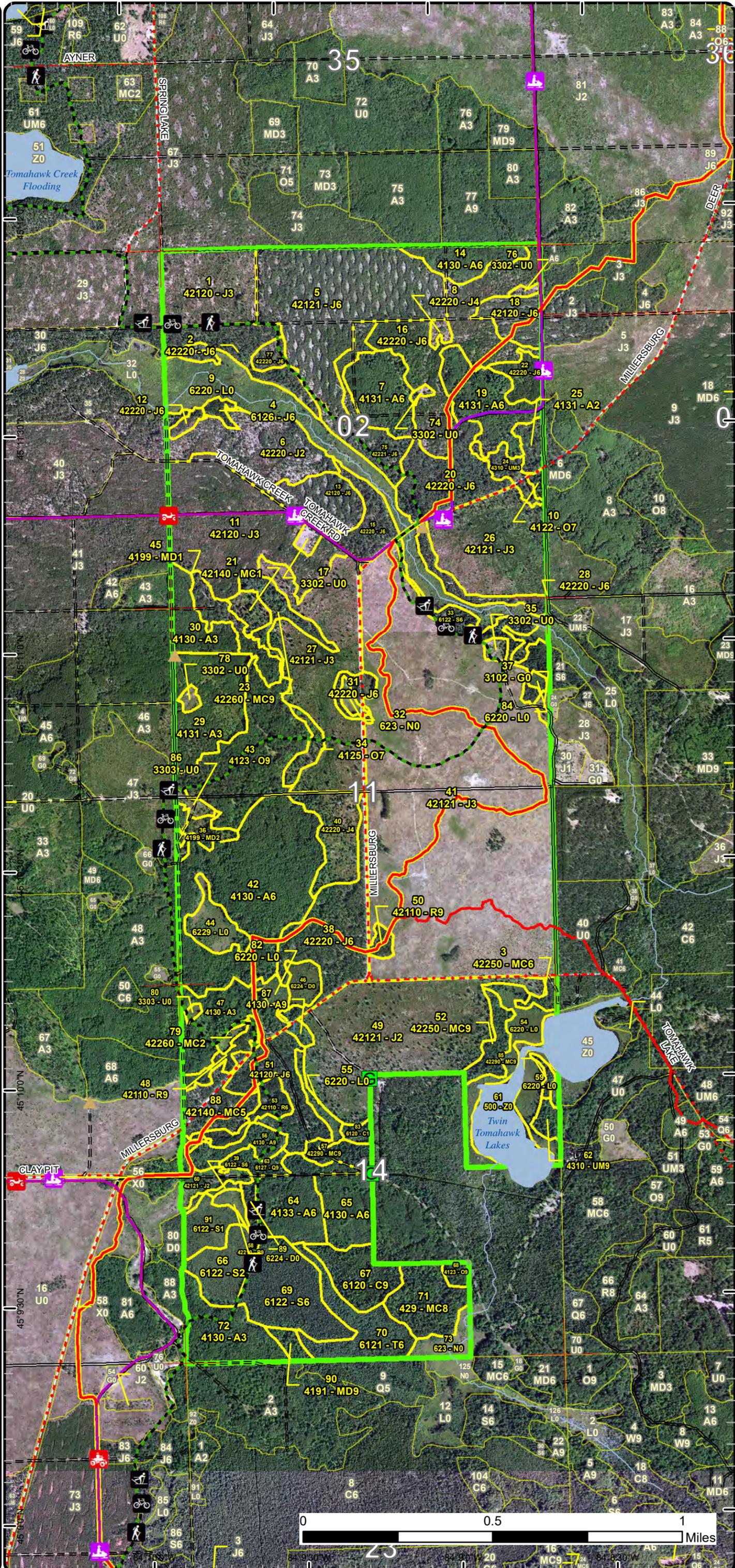


# Stand Boundary Map

Compartment: 62  
 T32N, R02E, Sec. 2, 11, 14  
 County: Montmorency  
 Unit: Atlanta  
 Mgmt Area: Kirtland's Warbler  
 YOE: 2023  
 Acres: 1711.4 GIS Calculated  
 Examiner: Darrick Coy  
 Map Revised: 10/7/2021  
 Map Phase: Post-Review

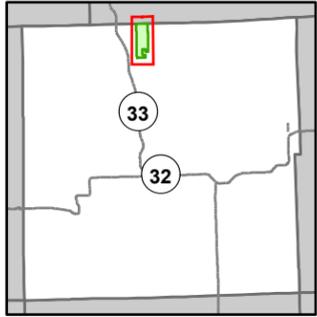


- Miris Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Bike Trails
- Ski Trails
- MCCCT Trails
- ORV Trails
- ORV Routes
- Snowmobile Trails
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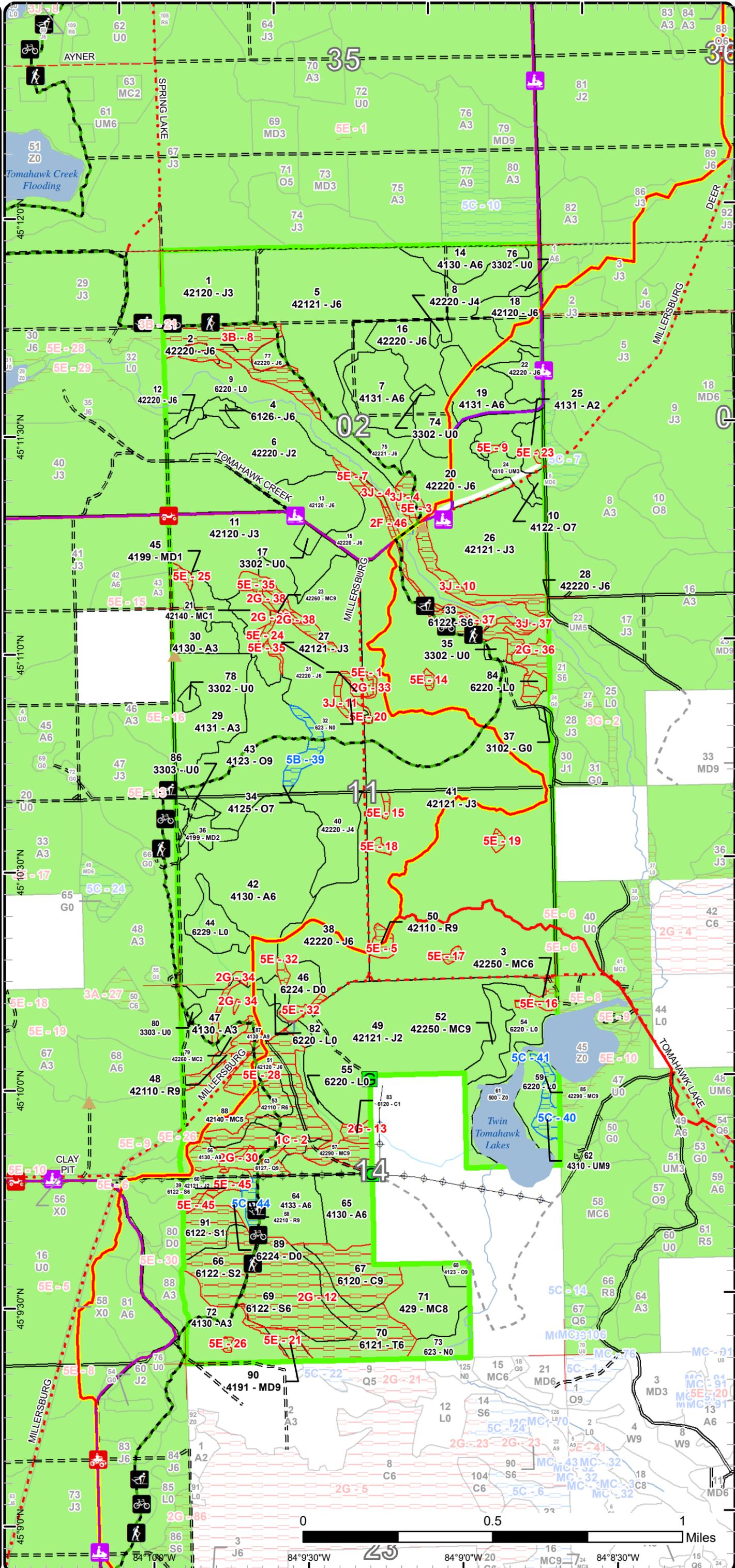


# Special Conservation Areas

Compartment: 62  
 T32N, R02E, Sec. 2, 11, 14  
 County: Montmorency  
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- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
- - - Designated Bicycle Trails
- Designated Multi-Use Trails
- Designated ATV
- - - Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Gate
- Culvert
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	43	31	23	164	17	0	0	11	0	0	0	0	0	0	0	0	0	288
Cedar	0	0	0	0	0	0	0	0	0	3	17	0	0	0	0	0	0	0	19
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	288	203	32	287	24	0	60	79	0	0	0	0	0	0	0	0	0	972
Low-Density Trees	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Conifers	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Lowland Shrub	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Lowland Spruce/Fir	0	0	0	0	0	0	26	31	17	0	0	0	0	0	0	0	0	0	74
Marsh	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	0	11	0	0	6	0	0	0	0	4	0	0	0	0	0	0	0	0	21
Natural Mixed Pines	0	0	2	0	0	0	0	22	2	7	0	0	0	0	0	0	0	0	33
Oak	0	0	0	0	0	0	0	0	47	8	0	0	0	0	0	0	0	0	55
Planted Mixed Pines	0	0	5	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	20
Red Pine	0	0	0	0	0	0	3	14	0	3	0	0	0	0	0	0	0	0	20
Tamarack	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	22
Treed Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Conifers	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20
Upland Mixed Forest	0	6	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	10
Water	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
<b>Total</b>	<b>155</b>	<b>348</b>	<b>241</b>	<b>55</b>	<b>457</b>	<b>41</b>	<b>29</b>	<b>142</b>	<b>166</b>	<b>47</b>	<b>37</b>	<b>0</b>	<b>1715</b>						



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 62

Year of Entry: 2023

Acres of Harvest

Total Compartment Acres: 1,711

Commercial Harvest - 114  
 Harvests with Site Condition - 52  
 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	11	0	0	0	0	0	0	0	0	11
Jack Pine	89	0	0	0	0	0	0	0	0	89
Natural Mixed Pines	7	0	0	0	0	0	0	0	0	7
Oak	45	0	0	0	0	0	0	0	0	45
Red Pine	0	0	0	0	0	14	0	0	0	14
<b>Total</b>	<b>151</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>166</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	166	0	0	0	0	11	5	2		183
Next Step	0	106	89	0	0	178	330	0	0	703
<b>Total</b>	<b>166</b>	<b>106</b>	<b>89</b>	<b>0</b>	<b>0</b>	<b>178</b>	<b>341</b>	<b>5</b>	<b>2</b>	<b>886</b>



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

<p><b>15 54062015-Cut</b>    10.2    42220 - Natural Jack Pine    Poletimber Well    73    81-110    Harvest    Clearcut with Retention    42221 - Natural Jack Pine, Mixed Deciduous    Even-Aged    No</p> <p><u>Prescription</u> -clearcut  <u>Specs:</u> -leave 3-10% in retention pocket(s) (already excluded)                      -keep treatment 100-120ft away from Tomahawk Creek                      -protect Atlanta ORV, MCCCT, and snowmobile trail LP9 in timber sale specifications                      -cut stumps low, reduce, and/or break up slash and follow KW timing specs for cutting and hauling</p> <p><u>Next Step</u>    Monitoring, Natural Regen (Intermediate);    SitePrep, Trenching;    Pesticide, Skidder - Site Prep;    Planting, Initial Plant;    Monitoring,  <u>Treatments:</u> Artificial Regen(1yr);    Pesticide, Skidder - Release;    Monitoring, Artificial Regen(3yr);    SitePrep, Roller Chop</p> <p><u>Acceptable Regen:</u> -survey regeneration early after 2 growing seasons                      -pine, aspen, maple, oak, fir, and fir of medium to high stocking                      -a planted red pine objective is also acceptable if natural regeneration is too low</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>
<p><b>20 54062020-Cut</b>    23.3    42220 - Natural Jack Pine    Poletimber Well    71    81-110    Harvest    Clearcut with Retention    42221 - Natural Jack Pine, Mixed Deciduous    Even-Aged    No</p> <p><u>Prescription</u> -clearcut  <u>Specs:</u> -leave retention pocket(s) (already excluded along High Country Pathway)                      -protect High Country Pathway and the Atlanta ORV, MCCCT, and snowmobile trail LP9 in timber sale specifications                      -cut stumps low, reduce, and/or break up slash and follow KW timing specs for cutting and hauling</p> <p><u>Next Step</u>    Monitoring, Natural Regen (Intermediate);    SitePrep, Trenching;    Pesticide, Skidder - Site Prep;    Planting, Initial Plant;    Monitoring,  <u>Treatments:</u> Artificial Regen(1yr);    Pesticide, Skidder - Release;    Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> -survey regeneration early after 2 growing seasons                      -pine, aspen, maple, oak, and fir of medium to high stocking                      -planted red pine is also an acceptable cover type if regeneration stocking is too low</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>
<p><b>25 54062025-Other</b>    5.1    4131 - Aspen, Oak    Sapling Medium    3    Immatu re    Other    Other    4131 - Aspen, Oak    Even-Aged    No</p> <p><u>Prescription</u>    The regeneration survey cover type is Aspen, Oak. Since the original objective of Oak, Pine was not achieved, this treatment will need to be  <u>Specs:</u>    approved during compartment review to accept the Aspen, Oak cover type objective.</p> <p><u>Next Step</u>     <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> -a mix of aspen, oak, maple, and pine of moderate to high stocking</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>37</b>	<b>54062037-NF</b>	1.7	3102 - Grass	Nonstocked	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other  
Specs: agriculture practices.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>38</b>	<b>54062038-Cut</b>	34.0	42220 - Natural Jack Pine	Poletimber Well	63	51-80	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
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Prescription -clearcut  
Specs: -leave 3-10% in retention pocket(s) (already excluded)  
-protect the Atlanta ORV, MCCCT, and ATV Trail in timber sale specifications  
-cut stumps low, reduce and/or break up slash for planted jack pine, and follow KW timing specs for cutting and hauling

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring,  
Treatments: Artificial Regen(1yr); Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)

Acceptable -survey regeneration early after 2 growing seasons  
Regen:  
-pine, aspen, maple, oak, and fir of medium to high stocking  
-trench and plant jack pine as per KW plan if natural regeneration fails  
-planted jack pine is also an acceptable cover type objective

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>43</b>	<b>54062043-Cut</b>	44.6	4123 - Red Oak	Sawtimber Well	74	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription -clearcut  
Specs: -protect the High Country Pathway in timber sale specifications  
-leave 3-10% in retention pocket(s) near the trail  
-leave all white pine and red pine (only a trace present, <5 BA)

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

Acceptable -any combination of aspen, oak, pine, maple, and fir of low to high stocking  
Regen: -other acceptable cover types are aspen, oak; oak, aspen; and aspen, mixed deciduous

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
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<b>45</b>	<b>54062045-Monitor</b>	11.0	4199 - Other Mixed Upland Deciduous	Sapling Poor	3	1-50	Monitoring	Natural Regen (Intermediate)	4122 - Oak, Pine	Two-Aged	No
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Prescription -first regeneration survey failed

Specs: -perform a natural regeneration survey during YOE 2023 sale prep work to ensure the stand has regenerated

Next Step

Treatments:

Acceptable Acceptable regen can be of oak, mixed conifer and aspen.

Regen:

\*Added red maple as an acceptable species and other upland deciduous as acceptable cover type objectives for this treatment during 2023 YOE compartment review.

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>48</b>	<b>54062048-Cut</b>	6.2	42110 - Planted Red Pine	Sawtimber Well	61	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription -thin to 120 residual BA leaving around 2/3rds residual (accept higher variability due to small and irregular treatment boundary)

Specs: -ensure that equipment has at least 11 ft of operating space between the rows while marking  
-protect the High Country Pathway and Atlanta ORV, MCCCT, and ATV Trail in timber sale specifications

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition Other Dept./Div. Processes

Proposed Start Date: 10/1 /2022

<b>51</b>	<b>54062051-Cut</b>	21.7	42120 - Planted Jack Pine	Poletimber Well	69	81-110	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
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Prescription -clearcut

Specs: -leave 3-10% in retention pocket(s) (already excluded)  
-protect the High Country Pathway and the Atlanta ORV, MCCCT, and ATV Trail in timber sale specifications  
-cut stumps low, reduce and/or break up slash for planted pine, and follow KW timing specs for cutting and hauling  
-see locked site condition comments for other timber sale preparation concerns/guidance

Next Step

Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring,

Treatments: Artificial Regen(1yr); Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)

Acceptable -survey regeneration early after 2 growing seasons

Regen:

-pine, aspen, maple, oak, fir, and pine of medium to high stocking  
  
-planted red pine is also an acceptable cover type if regeneration stocking is too low

Other

Comment:

Site Condition Other Dept./Div. Processes

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
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<b>53</b>	<b>54062053-Cut</b>	8.1	42110 - Planted Red Pine	Poletimber Well	61	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription -3rd row thin and thin between residual rows as needed  
Specs:  
 -mark to cut  
 -remove trees of low vigor/small crowns in adjacent residual rows  
 -cut all jack pine except for a few  
 -leave roughly 2/3rds BA of residual or 120 residual BA (accept higher variability due to small and irregular treatment boundary)  
 -ensure that equipment has at least 11 ft of operating space between the rows while marking  
 -protect the High Country Pathway and Atlanta ORV, MCCCT, and ATV Trail in timber sale specifications  
 -see locked site condition comments for other timber sale preparation concerns/guidance

Next Step  
Treatments:

Acceptable Regen:

Other Comment:

Site Condition Other Dept./Div. Processes

Proposed Start Date: 10/1 /2022

<b>56</b>	<b>54062056-Cut</b>	9.1	4130 - Aspen	Sawtimber Well	78	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
-----------	---------------------	-----	--------------	----------------	----	--------	---------	-------------------------	--------------	-----------	----

Prescription -clearcut  
Specs:  
 -leave all white pine and red pine for visual along trail and regenerating white pine over time under new aspen stand (should not need to mark, less than 20 BA, seed-tree is also acceptable if residual BA is higher than 10)  
 -protect the High Country Pathway and Atlanta ORV, MCCCT, and ATV Trail in timber sale specifications

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

Acceptable Regen: -aspen, maple, oak, fir, and pine of medium to high stocking

Other Comment:

Site Condition Other Dept./Div. Processes

Proposed Start Date: 10/1 /2022

<b>57</b>	<b>54062057-Cut</b>	6.5	42290 - Natural Mixed Pine	Sawtimber Well	84	111-140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
-----------	---------------------	-----	----------------------------	----------------	----	---------	---------	-------------------------	--	-----------	----

Prescription -clearcut  
Specs:  
 -leave 3-10% in area retention in the middle along the northern edge of treatment where white pine overstory exists

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

Acceptable Regen: -any combination of pine, aspen, maple, oak, spruce, and fir of medium to high stocking  
 -if necessary, also accept a low stocking and alternative cover types of mixed coniferous, mixed deciduous or red maple, mixed conifer

Other Comment: -stand is transitional in hydrology with pit and mound terrain  
 -do not allow trucking across too wet area to the adjacent north, temporary mats or corduroy will help reduce rutting

Site Condition Other Dept./Div. Processes

Proposed Start Date: 10/1 /2022



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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87	54062087-Cut	1.8	4130 - Aspen	Sawtimber Well	70	81-110	Harvest	Clearcut	4130 - Aspen	Even-Aged	No
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Prescription -clearcut

Specs: -no retention necessary to maximize regeneration acreage  
-follow KW timing specs for cutting and hauling

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable -aspen, maple, oak, fir, and pine of medium to high stocking

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

**Total Treatment** 183.3  
**Acreage Proposed:**

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Darrick Coy : Examiner

Compartment: 62  
Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions								
		With Condition	Not Available		5B	5C	1C	2F	2G	3B	3J	5E	
289	273	0	15	Aspen			9		2				4
19	0	0	19	Cedar					19				
2	2	0	0	Herbaceous Openland									
972	899	0	73	Jack Pine			22	1	1	21	15	14	
12	12	0	0	Low-Density Trees									
5	1	0	4	Lowland Conifers					4				
100	100	0	1	Lowland Shrub					0	0	0		
74	0	0	73	Lowland Spruce/Fir					70		2	2	
9	9	0	0	Marsh									0
20	17	0	3	Mixed Upland Deciduous									3
32	10	2	20	Natural Mixed Pines		2	7		1				12
54	49	5	0	Oak	5								
21	21	0	0	Planted Mixed Pines									0
20	0	3	17	Red Pine		3	14						3
22	0	0	22	Tamarack					22				0
9	9	0	0	Treed Bog									
19	19	0	0	Upland Conifers									
10	6	4	0	Upland Mixed Forest		4							0
24	24	0	0	Water									
1,711	1,451	14	247	Total Forested Acres	5	8	52	1	119	21	17	37	
	85%	1%	14%	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	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Darrick Coy : Examiner

Compartment: 62  
Year of Entry: 2023

2	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	52	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> area retention for stand 20							
4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> -retention for stand 41							
7	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> area retention for stand 15							
8	<b>Unavailable</b>	<b>3B: Threatened, endangered, and special concern species</b>	21	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> -monitor for forest health concerns with conversion to desirable subcanopy mix of oak, rp, and jp taking place and allow switch to soft factor as necessary							
9	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is long term retention for the harvest to the south. Sale Name: Tom and Milly's Aspen Oak Blend; Sale No.: 54-040-15-01.							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Darrick Coy : Examiner

Compartment: 62  
Year of Entry: 2023

10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	95	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Darrick Coy : Examiner

Compartment: 62  
Year of Entry: 2023

16	Unavailable	5E: Long-Term Retention	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> -leave as additional retention for stand 72							
23	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is long term retention for the harvest to the the north, south, and east. Sale Name: Tom and Milly's Aspen Oak Blend; Sale No.: 54-040-15-01.							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Darrick Coy : Examiner

Compartment: 62  
Year of Entry: 2023

24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is long term retention for the harvest to the southwest. Sale Name: Tom and Milly's Aspen Oak Blend; Sale No.: 54-040-15-01.							
25	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is long term retention for the harvest to the south. Sale Name: Tom and Milly's Aspen Oak Blend; Sale No.: 54-040-15-01.							
26	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is long term retention for the surrounding harvest. Sale Name: Tom and Milly's Aspen Oak Blend; Sale No.: 54-040-15-01.							
28	Unavailable	5E: Long-Term Retention	1	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
<b>Comments:</b> area retention for stand 51							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
32	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> -area retention for stand 38							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> marsh							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Darrick Coy : Examiner

Compartment: 62  
Year of Entry: 2023

34	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> -non-stand specific area retention -old railroad grade goes through middle of stand sw to ne							
36	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
37	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
38	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> alder under birch							
39	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Darrick Coy : Examiner

Compartment: 62  
Year of Entry: 2023

40	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
41	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
44	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
45	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> -area retention for stand 60							
46	<b>Unavailable</b>	<b>2F: Too steep</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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.

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SCA Name	SCA Category	Detail Type	Recommendation	Acres
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**Comments**

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## Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
1	42120 - Planted Jack Pine	Sapling Well	31.7	27	Immature	N/A	-cut 2 jp down for age average, find planting record-previous inventory age was 21 yrs																																					
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2	42220 - Natural Jack Pine	Poletimber Well	20.9	71	81-110	N/A	-odd stand, over 50% subcanopy coverage of adv rp, oak, and jp-if it's not cut, it will cover to mixed natural pine and oak-east half has most adv pine regen																																					
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3	42250 - Pine, Oak	Poletimber Well	2.9	69	81-110	N/A	-left as area retention for stand 41																																					
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4	6126 - Lowland Jack Pine	Poletimber Well	2.6	40	81-110	N/A	cored 40in north half and 73 in south half, merge all with st 15																																					
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5	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	79.5	38	1-50	N/A	-past treatment- clearcut, cut all jp -sale number- 52-78a, no map -sale map acres- 60 -leave trees- other species -volume (cgs)- 500 jp -completion- 10/26/79  -couldn't located planting record																																					
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Black Cherry	Medium	5 - 10 feet	Sapling																																									
6	42220 - Natural Jack Pine	Sapling Medium	35.8	33	1-50	N/A	Trenched with natural regen? Look for planting record/ftp-cored 32, 30, and 37 yrs-previous inventory age was 40 -mostly natural regen																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
<b>7</b>	4131 - Aspen, Oak	Poletimber Well	20.2	38	51-80	N/A	-past treatment- salvage, cut all aspen and oak -sale number- 54-027-83-01 -sale map acres- 28 (MIFI stands 7 and 19) -leave trees- orange sign trail trees -volume (cads)- 132 aspen, 20 red oak -completion- 09/29/83 -more overstory rp logs to se and ne edges of stand, was still cut through and regenerated deciduous in these areas																																																	
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<b>8</b>	42220 - Natural Jack Pine	Poletimber Poor	2.0	30	1-50	N/A	-old inventory said 38 yrs -cored 3 jp and got 30 yrs -trenches present but trees are outside furrows and scattered																																																	
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<b>9</b>	6220 - Alder/willow	Nonstocked	54.7			No																																																		
<b>10</b>	4122 - Oak, Pine	Sawtimber Poor	1.6	73	1-50	N/A	-past treatment- clearcut -sale number- 54-021-03-01 -sale map acres- 53 -leave trees- advanced regeneration of pine and oak -volume (cads)- 29 rm, 165 aspen, 825 jp -completion- 04/18/05																																																	
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<b>11</b>	42120 - Planted Jack Pine	Sapling Well	64.3	30	Immature	N/A	cut 2 trees down and both trees read 30 years old-old inventory said 38 years, find planting record-couldn't located planting record																																																	
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<b>12</b>	42220 - Natural Jack Pine	Poletimber Well	2.2	73	81-110	N/A	cored 71, and 75																																																	
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<b>13</b>	42120 - Planted Jack Pine	Poletimber Well	17.2	38	51-80	N/A	-past treatment- clearcut -sale number- 40-77, no map -sale map acres- 28 -leave trees- none -volume (cads)- 85 jp -completion- 9/30/77  -couldn't located planting record - cored 38																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
14	4130 - Aspen	Poletimber Well	13.1	38	51-80	N/A		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	25	Pole/Sapling	6		Red Oak	Medium	Variable	Sapling
Bigtooth Aspen	55	Pole/Sapling	6	38	Black Cherry	Medium	5 - 10 feet	Sapling
Red Maple	10	Pole/Sapling	5		Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub
Red Oak	10	Pole/Sapling	6		Red Maple	High	Variable	Sapling
					Witch Hazel	Medium	5 - 10 feet	Tall Shrub
15	42220 - Natural Jack Pine	Poletimber Well	13.7	73	81-110	N/A	cored 71, and 75	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	15	Pole	7		Black/Red (Hybrid) Oak	High	Variable	Sapling
Red Pine	20	Log	14		White Oak	Medium	Variable	Sapling
Jack Pine	65	Pole/Log	8	73	Jack Pine	Medium	Variable	Sapling
16	42220 - Natural Jack Pine	Poletimber Well	50.7	30	1-50	N/A	-old inventory said 38 yrs -cored 3 jp and got 30 yrs -trenches present but trees are outside furrows and scattered -T54-92 clearcut	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	15	Pole/Sapling	5		Black Cherry	Medium	5 - 10 feet	Sapling
Jack Pine	85	Pole/Sapling	5	30	Black/Red (Hybrid) Oak	Low	Variable	Sapling
					Red Maple	Low	Variable	Sapling
17	3302 - Low Density Conifer Trees	Nonstocked	2.3			No		
18	42120 - Planted Jack Pine	Poletimber Well	11.2	38	51-80	N/A	-couldn't located planting record	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Sapling/Pole	4		Black Cherry	Medium	5 - 10 feet	Sapling
Northern Pin Oak	5	Sapling/Pole	4					
Jack Pine	90	Pole/Sapling	5	38				
19	4131 - Aspen, Oak	Poletimber Well	25.2	38	51-80	N/A	-past treatment- salvage, cut all aspen and oak -sale number- 54-027-83-01 -sale map acres- 28 (MIF stands 7 and 19) -leave trees- orange sign trail trees -volume (cds)- 132 aspen, 20 red oak -completion- 09/29/83	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	45	Pole/Sapling	6	38	Red Maple	High	Variable	Sapling
Bigtooth Aspen	15	Pole/Sapling	6		Red Oak	Medium	Variable	Sapling
Jack Pine	5	Pole/Sapling	7		Black Cherry	Medium	5 - 10 feet	Sapling
Red Oak	30	Pole/Sapling	6					
Red Pine	5	Log/XLog	15					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>20</b>	42220 - Natural Jack Pine	Poletimber Well	27.8	71	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		10	Log	13		Red Maple	Medium	Variable	Sapling
Jack Pine		85	Pole/Log	9	71	Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Red Maple		5	Pole/Log	9		White Oak	Low	Variable	Sapling
						Red Pine	Medium	Variable	Sapling
						Black Cherry	Medium	5 - 10 feet	Sapling
<b>21</b>	42140 - Planted Mixed Pine	Sapling Poor	5.2	13	1-50	N/A	Some mature red pine pockets with planted jack pine. -past treatment- clearcut -sale number- 54-021-03-01 -sale map acres- 79 (in-part-MIFI stands 21 and 27) -leave trees- advanced regeneration of pine and oak -volume (cds)- 925 jp -completion- 04/18/05-most adv regen is released-manage for jp		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		10	Log	13		Black Cherry	Medium	5 - 10 feet	Sapling
Red Pine		25	Log	14	65				
Jack Pine		40	Sapling	2	13				
White Pine		5	Sapling	2					
White Oak		5	Sapling	2					
Black/Red (Hybrid) Oak		5	Sapling	2					
Black/Red (Hybrid) Oak		5	Log/Pole	12					
Red Pine		5	Sapling	2					
<b>22</b>	42220 - Natural Jack Pine	Poletimber Well	7.4	36	51-80	N/A	-rows not well defined, going with not planted, look for record		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Jack Pine		100	Pole/Sapling	6	36	Black Cherry	Medium	5 - 10 feet	Sapling
						Black/Red (Hybrid) Oak	Medium	Variable	Sapling
<b>23</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	10.2	65	51-80	N/A	-railroad grade goes through stand-a few lowland shrub inclusions - species and hydrology diverse-high growth rate on rp due to transitional edge and higher available water		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		15	Log/Pole	12		Red Maple	Medium	Variable	Sapling
Quaking Aspen		20	Log/Pole	11		White Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak		15	Log/Pole	12		Serviceberry (Juneberry)	Medium	< 5 feet	Tall Shrub
Jack Pine		20	Log/Pole	10	79	Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Red Pine		25	Log/XLog	16	65	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch		5	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>24</b>	4310 - Pine, Oak Mix	Sapling Well	6.4	3	1-50	N/A	Sale Name: Tom and Milly's Aspen Oak Blend The current canopy data is an estimate based on what was remembered of the site immediately post harvest. -past treatment- seed-tree -sale number- 54-040-15-01 -sale map acres- 6 -leave trees- 27 BA oak and pine -volume (cgs)- 3 rp, 2 jp, 35 mixed oak -completion- 04/20/18  - good rp regen -mixed regen composition of mostly rp and oak
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Black/Red (Hybrid) Oak		10	Log	13	86		
Red Pine		5	Log	14			
White Oak		5	Log	13			
Black/Red (Hybrid) Oak		40	Sapling	1	3		
Red Maple		5	Sapling	1			
Red Pine		20	Sapling	2			
White Oak		5	Sapling	1			
Bigtooth Aspen		5	Sapling	1			
White Pine		5	Sapling	1			
<b>25</b>	4131 - Aspen, Oak	Sapling Medium	5.4	3	Immature	N/A	Sale Name: Tom and Milly's Aspen Oak Blend -past treatment- clearcut -sale number- 54-040-15-01 -sale map acres- 5 -leave trees- none -volume (cgs)- 24 aspen, 11 rp, 34 mixed oak, 1 rm, 16 jp -completion- 04/13/18
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Bigtooth Aspen		40	Sapling	1	3		
Black/Red (Hybrid) Oak		20	Sapling	1			
Red Maple		10	Sapling	1			
Red Pine		5	Sapling	2			
Black Cherry		25	Sapling	1			
<b>26</b>	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	45.2	15	Immature	N/A	-past treatment- clearcut-sale number- 54-021-03-01-sale map acres- 53-leave trees- advanced regeneration of pine and oak-volume (cgs)- 29 rm, 165 aspen, 825 jp -completion- 04/18/05
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Black/Red (Hybrid) Oak		20	Sapling/Pole	3			
White Oak		5	Sapling	2			
Red Pine		2	Log	13			
Jack Pine		63	Sapling	2	15		
Quaking Aspen		10	Sapling	3			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Black Cherry		Medium	5 - 10 feet	Sapling			
<b>27</b>	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	62.5	13	1-50	N/A	-past treatment- clearcut-sale number- 54-021-03-01-sale map acres- 79 (in-part-MIFI stands 21 and 27)-leave trees- advanced regeneration of pine and oak-volume (cgs)- 925 jp-completion- 04/18/05
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Black/Red (Hybrid) Oak		25	Sapling/Pole	3			
Bigtooth Aspen		5	Sapling	1			
White Pine		3	Sapling/Pole	4			
Jack Pine		67	Sapling	2	13		
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>			
Black Cherry		Medium	5 - 10 feet	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
28	42220 - Natural Jack Pine	Poletimber Well	8.9	71	81-110	N/A	-stream protection area/stand-illegal narrow road runs through stand, and it has been blocked on both ends																																																		
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29	4131 - Aspen, Oak	Sapling Well	30.9	16	1-50	N/A	-past treatment- clearcut -sale number- 54-022-03-01 -sale map acres- 32 -leave trees- protected rp, wp, and oak regeneration -volume (cds)- bta 500, rm 43, ro 400, wo 6 -completion- 08/02/05																																																		
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30	4130 - Aspen	Sapling Well	14.4	3	Immature	N/A	Sale Name: Tom and Milly's Aspen Oak Blend -past treatment- clearcut -sale number- 54-040-15-01 -sale map acres- 14 -leave trees- none -volume (cds)- 228 aspen, 181 ro, 10 rm -completion- 05/23/18																																																		
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31	42220 - Natural Jack Pine	Poletimber Well	5.0	74	81-110	N/A	Surrounds marsh																																																		
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32	623 - Emergent Wetland	Nonstocked	2.1			No	marsh																																																		
33	6122 - Black Spruce	Poletimber Well	15.5	71	81-110	N/A	transitional, mostly soils that are saturated year long																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**34** 4125 - Black, N. Pin Oak Sawtimber Poor 5.3 84 1-50 N/A Recent thinning.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	85	Log/Pole	10	84	Red Maple	Medium	5 - 10 feet	Sapling
White Pine	15	Log/Pole	11		Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling
					Jack Pine	Medium	10 - 20 feet	Sapling
					White Oak	Low	5 - 10 feet	Sapling
					Black Cherry	Medium	5 - 10 feet	Sapling

**35** 3302 - Low Density Conifer Trees Nonstocked 2.1 Immature No odd little spot of natural jp

**36** 4199 - Other Mixed Upland Deciduous Sapling Medium 5.5 38 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	40	Sapling/Pole	4		Serviceberry (Juneberry)	Medium	Variable	Sapling
Jack Pine	5	Pole/Sapling	6					
Black Cherry	50	Sapling	4	38				
White Oak	5	Sapling/Pole	4					

scattered oak and cherry

**37** 3102 - Grass Nonstocked 1.7 Unspecified No

**38** 42220 - Natural Jack Pine Poletimber Well 37.0 63 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	75	Pole/Log	9	63	Red Maple	Medium	Variable	Sapling
White Oak	5	Log/Pole	13		Northern Pin Oak	Medium	Variable	Sapling
Northern Pin Oak	10	Log/Pole	12		Blueberry/Bilberry/Cranberry	Full	< 5 feet	Tall Shrub
Red Pine	5	Log/Pole	10		White Oak	Medium	Variable	Sapling
Quaking Aspen	5	Log/Pole	11					

cored 2 jp and average 63, both close to 63  
-30-50ft tall, mostly 4-5 stick  
-T95-58

**39** 6122 - Black Spruce Poletimber Well 1.6 78 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Pole	7		Red Maple	Medium	Variable	Sapling
Black Spruce	60	Pole	7	78	Balsam Fir	Low	Variable	Sapling
Jack Pine	30	Pole/Log	8		Black Spruce	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>40</b>	42220 - Natural Jack Pine	Poletimber Poor	18.4	43	1-50	N/A	Has been thinned. Jack pine is one stick pole size and very bushy. -past treatment- clearcut -sale number- 003-79A -sale map acres- 60 (MIFI st 40 and 43) -leave trees- all rp, wp, and wo -volume (cds)- 396 aspen, 252 jp, 108 black/red oak, 192 mhwd, 18 bf -completion- 3/10/82  -past treatment- timber cutting permit, cut all rp and wp -sale number- 54-016-85-01 -sale map acres- 9 -leave trees- other species -volume (cds)- 7 rp, 17 wp (permit says permittee cut outside of the boundary and left trees inside the boundary, kept the \$100 bond) -completion- 11/13/85		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		10	Pole/Sapling	7		Blueberry/Bilberry/Cranberry	High	< 5 feet	Tall Shrub
Jack Pine		90	Pole	8	43	Black Cherry	Medium	5 - 10 feet	Sapling
						Sweet Fern	High	< 5 feet	Tall Shrub
<b>41</b>	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	288.0	7	Immature	N/A	FTP W54-979Trenched: 7/15/2013Planted on 5/5/2014 at 1499 JP/acYear 1 Survey in 2016 at 1187 JP/ac and 89 C competition/acYear 3 Survey on 9/22/2017 at 827 JP/ac and 391 O competition/acRegeneration was accepted stand is free to grow.Cut 54-004-11-01. -past treatment- clearcut-sale number- 54-004-11-01-sale map acres- 285-leave trees- green painted areas-volume (cds)- 32 qa aspen, 2,021 rp, 2,572 jp, 45 oak-completion- 5/9/2013		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Jack Pine		65	Sapling	1	7	Black Cherry	Medium	5 - 10 feet	Sapling
Northern Pin Oak		30	Sapling	1					
White Oak		5	Sapling	1					
<b>42</b>	4130 - Aspen	Poletimber Well	81.9	38	81-110	N/A	-past treatment- clearcut -sale number- 003-79A-sale map acres- 60  -leave trees- all rp, wp, and wo-volume (cds)- 396 aspen, 252 jp, 108 black/red oak, 192 mhwd, 18 bf-completion- 3/10/82		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		15	Pole/Sapling	6		Red Maple	High	Variable	Sapling
Red Oak		10	Log/Pole	12		Red Oak	Low	Variable	Sapling
Quaking Aspen		64	Pole/Sap/Log	7	38	White Pine	Low	Variable	Sapling
White Pine		5	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
Red Pine		2	Log	15					
Balsam Fir		4	Pole/Sapling	6					
<b>43</b>	4123 - Red Oak	Sawtimber Well	44.6	74	81-110	N/A	This stand was the larger portion of a greater stand. Just more than a third of the stand to the northwest was harvested vha/vvb -close to 70% rm subcanopy coverage -cored 2 oak trees trees -T85-44 -Aspen is patchy		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black/Red (Hybrid) Oak		20	Pole/Log	8		Red Maple	High	Variable	Sapling
Bigtooth Aspen		20	Log/Pole	10		Red Oak	Medium	Variable	Sapling
Red Oak		42	Log/Pole	12	74	White Oak	Low	Variable	Sapling
Red Pine		3	Log/Pole	13		Black Cherry	Medium	5 - 10 feet	Sapling
White Oak		15	Log/Pole	12					
<b>44</b>	6229 - Mixed lowland shrub	Nonstocked	10.4			No	Stand swapped from Forested to Non-Forested.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>45</b>	4199 - Other Mixed Upland Deciduous	Sapling Poor	11.0	3	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	Log	12	
Black/Red (Hybrid) Oak	15	Log	12	79
White Pine	5	Log	12	
Black/Red (Hybrid) Oak	35	Sapling	1	3
White Pine	5	Sapling	1	
Red Pine	5	Sapling	1	
Red Maple	30	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	5 - 10 feet	Sapling

Sale Name: Tom and Milly's Aspen Oak Blend. The current canopy data is an estimate based on what was remembered of the site and what is likely to grow.

- past treatment- seed-tree
- sale number- 54-040-15-01
- sale map acres- 11
- leave trees- all yellow painted oak & pine trees (26 BA)
- volume (cgs)- 9 rp, 83 mixed oak, 14 wp, 3 jp
- completion- 05/23/18

- extreme browse on oak and rm, 2-3 ft tall

-vzb/vha

-conducted regen survey walkthrough on 1/13/21, snow is only 3 inches deep

-south half has poorly regenerated due to extreme browse and mostly red maple

-north half is mixed to pine and oak, over 75% is oak here but too short to pass regen survey

-rm is 1-2 feet and extremely browse in s half

-oak is highly browsed and 2-3ft tall

-pine is 2-3 ft tall

<b>46</b>	6224 - Treed Bog	Nonstocked	6.0			No	10-20% black spruce tree cover
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<b>47</b>	4130 - Aspen	Sapling Well	23.4	26	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling/Pole	4	
Paper Birch	5	Sapling/Pole	4	
Quaking Aspen	60	Sapling/Pole	4	26
Northern Pin Oak	5	Log/Pole	12	
White Pine	5	Log	11	
Jack Pine	5	Pole/Sapling	6	
White Pine	5	Sapling	4	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
White Oak	Low	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Gray Dogwood	Low	5 - 10 feet	Tall Shrub
Black Cherry	Medium	5 - 10 feet	Sapling

Stream runs through part of stand.-past treatment- clearcut (winter harvest only)-sale number- 54-025-93-01-sale map acres- 20-leave trees- green painted area and all rp and wp-volume (cgs)- 269 bt aspen, 187 oak, 115 mhwd, 32 m softwood-completion- 3/17/95



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
<b>48</b>	42110 - Planted Red Pine	Sawtimber Well	6.2	61	141-170	N/A	-past treatment- 3rd row thin, cut all aspen, jp, fir, and rm -sale number- 54-025-93-01 -sale map acres- 6 -leave trees- 2 out of 3 residual rows -volume (cgs)- 15 rp, 38 jp, 6 aspen, 2 rm -completion- 09/16/08  -average is 50ft tall  -planting record- R23 -method- tractor and killefer planter -species- RP -acres planted- 26 (stands 48, 53, and 88) -stocking- 800/ac -spacing- 7.5x7.5 -planting completion- 10/28/59																																								
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<b>49</b>	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	86.3	13	1-50	N/A	-past treatment- clearcut -sale number- 54-021-03-01 -sale map acres- 86 -leave trees- advanced regeneration of pine and oak -volume (cgs)- 852 jp -completion- 04/18/05																																								
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Sweet Fern	High	< 5 feet	Tall Shrub																																												
<b>50</b>	42110 - Planted Red Pine	Sawtimber Well	2.7	55	141-170	N/A	left as retention 40-50ft tall																																								
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<b>51</b>	42120 - Planted Jack Pine	Poletimber Well	22.6	69	81-110	N/A	-74 yrs and 66 yrs cored -1952 jp planting record, largely for portions in the north, 22 acres planted, south looks slightly older but counted as an inclusion																																								
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<b>52</b>	42250 - Pine, Oak	Sawtimber Well	8.5	68	81-110	N/A	-more rp and scattered potential legacy pines in south half, almost like a previous seedtree cut was done -looks 2 aged in places -cored 77 on oak and 58 years on wp, average the 2 since they are most common																																								
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<b>53</b>	42110 - Planted Red Pine	Poletimber Well	8.1	61	141-170	N/A	-planting record- R23 -method- tractor and kilifer planter -species- RP -acres planted- 26 (stands 48, 53, and 88) -stocking- 800/ac -spacing- 7.5x7.5 -planting completion- 10/28/59																																																					
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<b>54</b>	6220 - Alder/willow	Nonstocked	16.4			No																																																						
<b>55</b>	6220 - Alder/willow	Nonstocked	4.2			No																																																						
<b>56</b>	4130 - Aspen	Sawtimber Well	9.1	78	81-110	N/A	almost all aspen have rot, will convert to rm, chry, aspen, and fir																																																					
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<b>57</b>	42290 - Natural Mixed Pine	Sawtimber Well	6.6	84	111-140	N/A	-pit and mound terrain, transitional hydrology but still mostly upland-fire scarring on old wp stumps																																																					
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<b>58</b>	42210 - Natural Red Pine	Sawtimber Well	2.8	84	81-110	N/A	-some scattered potential legacy pines with the stand																																																					
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<b>59</b>	6220 - Alder/willow	Nonstocked	10.2			No																																																						



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60	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	8.3	13	1-50	N/A	-past treatment- clearcut -sale number- 54-021-03-01 -sale map acres- 9 -leave trees- advanced regeneration of pine and oak -volume (cds)- 218 jp -completion- 04/18/05																																																			
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61	500 - Water	Nonstocked	23.9			No																																																				
62	4310 - Pine, Oak Mix	Sawtimber Well	3.8	78	51-80	N/A	-past treatment- clearcut, all aspen, rm, and pb -sale number- 54-018-83-01 -sale map acres- 9 (s 1/2 only) -leave trees- all oak (east half- C61, already cut again)) and all pine (west half- c62) -volume (cds)- 25 ro, 50 pb, 10 bta, 5 rm -completion- 07/19/83																																																			
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63	6127 - Lowland Pine	Sawtimber Well	5.5	78	81-110	N/A																																																				
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64	4133 - Aspen, Mixed Pine	Poletimber Well	23.3	35	51-80	N/A	-past treatment- clearcut -sale number- 54-022-85-01-sale map acres- 16-leave trees- none-volume (cds)- 120 qa, 22 ro, 26, rm, 8 ms, 32 pb, 2 jp, 15 wp, 36 rp-completion- 3/12/86																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>65</b>	4130 - Aspen	Poletimber Well	16.5	42	51-80	N/A	-past treatment- clearcut -sale number- 8-78 -sale map acres- 15, no map -leave trees- none -volume (cds)- 150 aspen, 90 ro, 60 mhwds, 24 mswd -completion- 3/31/78			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak	10	Pole	6			Red Maple	High	Variable	Sapling	
Paper Birch	5	Pole/Sapling	5			Balsam Fir	Medium	Variable	Sapling	
Quaking Aspen	50	Pole/Sapling	6	42		White Pine	Medium	Variable	Sapling	
White Pine	3	XLog	19							
Red Pine	2	Log	14							
Bigtooth Aspen	15	Pole/Sapling	6							
Red Maple	10	Pole/Sapling	5							
Red Oak	5	Log	14							
<b>66</b>	6122 - Black Spruce	Sapling Medium	15.8	50	1-50	N/A	-forested bog			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce	80	Sapling	3	50		Leatherleaf	High	< 5 feet	Tall Shrub	
Balsam Fir	20	Sapling	3							
<b>67</b>	6120 - Lowland Cedar	Sawtimber Well	16.7	93	141-170	N/A	cored 95, keeping at 93 yrs			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine	5	XLog	20			Balsam Fir	Medium	Variable	Sapling	
Black Spruce	10	Pole	8			Black Spruce	Medium	Variable	Sapling	
Northern White Cedar	83	Log/Pole	10	93		Red Maple	Low	Variable	Sapling	
Red Pine	2	XLog	20			Tag Alder	Low	5 - 10 feet	Tall Shrub	
<b>68</b>	4123 - Red Oak	Sawtimber Well	2.6	88	81-110	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak	92	Log/Pole	13	88		White Pine	Medium	Variable	Sapling	
White Pine	3	Pole	7			Balsam Fir	Medium	Variable	Sapling	
Red Pine	5	Log	13			Red Maple	Low	Variable	Sapling	
<b>69</b>	6122 - Black Spruce	Poletimber Well	30.6	62	81-110	N/A	spruce bog, trees growing on hummocks and moss ground cover greater than 80%			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir	5	Pole/Sapling	7			Balsam Fir	Low	Variable	Sapling	
Black Spruce	82	Pole	7	62		Tag Alder	Low	5 - 10 feet	Tall Shrub	
Tamarack	10	Pole	7			Black Spruce	Medium	Variable	Sapling	
White Pine	3	Log/Pole	12							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
70	6121 - Tamarack	Poletimber Well	21.6	85	51-80	N/A																																																										
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71	429 - Mixed Upland Conifers	Sawtimber Medium	19.5	91	81-110	N/A	-only access is through pvt -on a hill, mixed ages in smaller fir, wp, and rm -highly variable size, species, and height structure in canopy and subcanopy -scattered legacy pines scattered throughout -rolling terrain																																																									
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72	4130 - Aspen	Sapling Well	23.4	3	1-50	N/A	Sale Name: Tom and Milly's Aspen Oak Blend -past treatment- clearcut -sale number- 54-040-15-01 -sale map acres- 21 -leave trees- green painted trees (white and red oak) -volume (cds)- 82 rm, 37 mixed oak, 64 mixed aspen, 20 wp, 4 bf, 6 rp -completion- 04/13/18																																																									
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73	623 - Emergent Wetland	Nonstocked	7.2			No																																																										
74	3302 - Low Density Conifer Trees	Nonstocked	0.9	0		No																																																										
75	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	18.4	38	51-80	N/A																																																										
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76	3302 - Low Density Conifer Trees	Nonstocked	1.2	0	Unspecified	No																																				
77	42220 - Natural Jack Pine	Poletimber Well	3.7	42	51-80	N/A	-appears to have been cut with stand to the east that is younger -natural regeneration																																			
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78	3302 - Low Density Conifer Trees	Nonstocked	1.6	0		No	15-20% cover of wp and jp saplings, old landing																																			
79	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	1.7	12	Immature	N/A	from 2008 pine thinning																																			
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80	3303 - Mixed Low Density Trees	Nonstocked	0.9	0		No	scattered cherry																																			
82	6220 - Alder/willow	Nonstocked	3.4			No																																				
83	6120 - Lowland Cedar	Sapling Poor	2.5	84	1-50	N/A	-very poor low vigor/dying crown cedar stand-small newly added stand-saturated muck soils-used edge call and adjacent pine stand age due to water and thick alder																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
85	42290 - Natural Mixed Pine	Sawtimber Well	1.7	78	81-110	N/A																																																			
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86	3303 - Mixed Low Density Trees	Nonstocked	2.5	0		No	scattered oak and cherry																																																		
87	4130 - Aspen	Sawtimber Well	1.8	70	81-110	N/A																																																			
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88	42140 - Planted Mixed Pine	Poletimber Medium	15.4	61	51-80	N/A	-rp has been planted in furrows -jp is natural -planting partial failure, inconsistent stocking in rows -planting record- R23 -method- tractor and kilifer planter -species- RP -acres planted- 26 (stands 48, 53, and 88) -stocking- 800/ac -spacing- 7.5x7.5 -planting completion- 10/28/59																																																		
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89	6224 - Treed Bog	Nonstocked	2.9	0		No	-forested bog																																																		
90	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	3.5	83	81-110	N/A																																																			
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91	6122 - Black Spruce	Sapling Poor	10.2	50	1-50	N/A	-forested bog																																																		
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