



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54049

Entry Year 2022

Acreage: 1,781

County Montmorency

Management Area: Thunder Bay Outwash

Revision Date: 2020-05-19

Stand Examiner: Darrick Coy

Legal Description:

T31N, R3E, Sec. 2, 11, 14 & 23

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 pine, aspen, and other deciduous cover types to sustainably produce various timber products, enhance game and non-game wildlife habitat and provide for forest-based recreational uses.

Soil and topography:

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

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

The compartment has some private parcels along the edge. The compartment has recreational use by ORVs & snowmobiles. Some natural gas production and infrastructure is located within sections 14 and 23. Surrounding lands are mostly other state land and a few hunting parcels. The farmland of Pleasant Valley lies to the south.

Unique Natural Features:

Rare and endanger species present. Contact Michigan Natural Features Inventory for more information or reporting.

Archeological, Historical, and Cultural Features:

No known sites exist. Contact the State Historical Preservation Office for more information or reporting of new sites.

Special Management Designations or Considerations:

Begin to introduce planted pine into areas of medium to high site quality where natural regeneration efforts have failed to sufficiently restock stands with more desirable northern hardwood regeneration.

Watershed and Fisheries Considerations:

Maintain proper protection distances for Miller Creek and other streams per BMP guidance and Fisheries Division consultation when preparing timber sales.

Miller Creek and Brush Creek are high quality wild brook trout streams, based on fisheries data over the years. Fish Division has been working hard to remove a small dam at the mouth of Miller Creek, to open upstream fish passage. Both creeks (but particularly Brush Creek) have numerous documented beaver overuse issues. Maintain a 300 ft. (100 m) buffer against clear cuts along both streams.

Wildlife Habitat Considerations:

This compartment is an excellent opportunity to manage for wildlife. It is part of a multiple compartment, large scale block of public land providing contiguous wildlife pathways that are necessary for many of our large game animals such as black bear. Habitat components of heavy aspen, mixed pine and deciduous provide food and cover for multiple species at a variety of age classes. We are working to maintain oak and other mast producing trees as well as keep a good age rotation of aspen in this compartment with consideration of adjacent compartments. Species which benefit from our management include white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel operation is less than two miles to the southeast. While there appears to be some sand & gravel potential in the compartment, the water table is generally shallow in this area, which could limit development. The southern half of the compartment has been drilled and is producing gas from the Antrim Shale. There may be additional Antrim potential to the north, but the Antrim Shale is thinning and becoming shallower in this direction, reducing the potential for successful wells. Furthermore, at current low gas prices, additional development is unlikely for the foreseeable future.

State-owned mineral rights in the southern half of the compartment are currently leased and held by production. No known metallic mineral potential exists in this part of the state.

Vehicle Access:

There is very good access into the compartment with many straight fire break two-tracks off CR 624, Grass Lake Rd, and Brush Creek Truck Trl. Access within the southern portion of the compartment is more difficult due to Miller Creek and private property.

Survey Needs:

Section 14, SENE and potentially other areas.

Recreational Facilities and Opportunities:

Non-motorized recreation includes wildlife viewing, hunting, fishing, and mushroom picking. Motorized recreation is permitted within Snowmobile Trails 4 and 494 and riding ORVs along the Atlanta Trail and Route.

Fire Protection:

Fire response to the compartment will be covered by the Atlanta DNR office as well as the Hillman and Tri-Township Fire Departments.

Additional Compartment Information:

The following reports from the Inventory are attached:

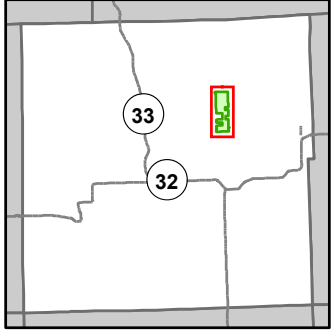
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

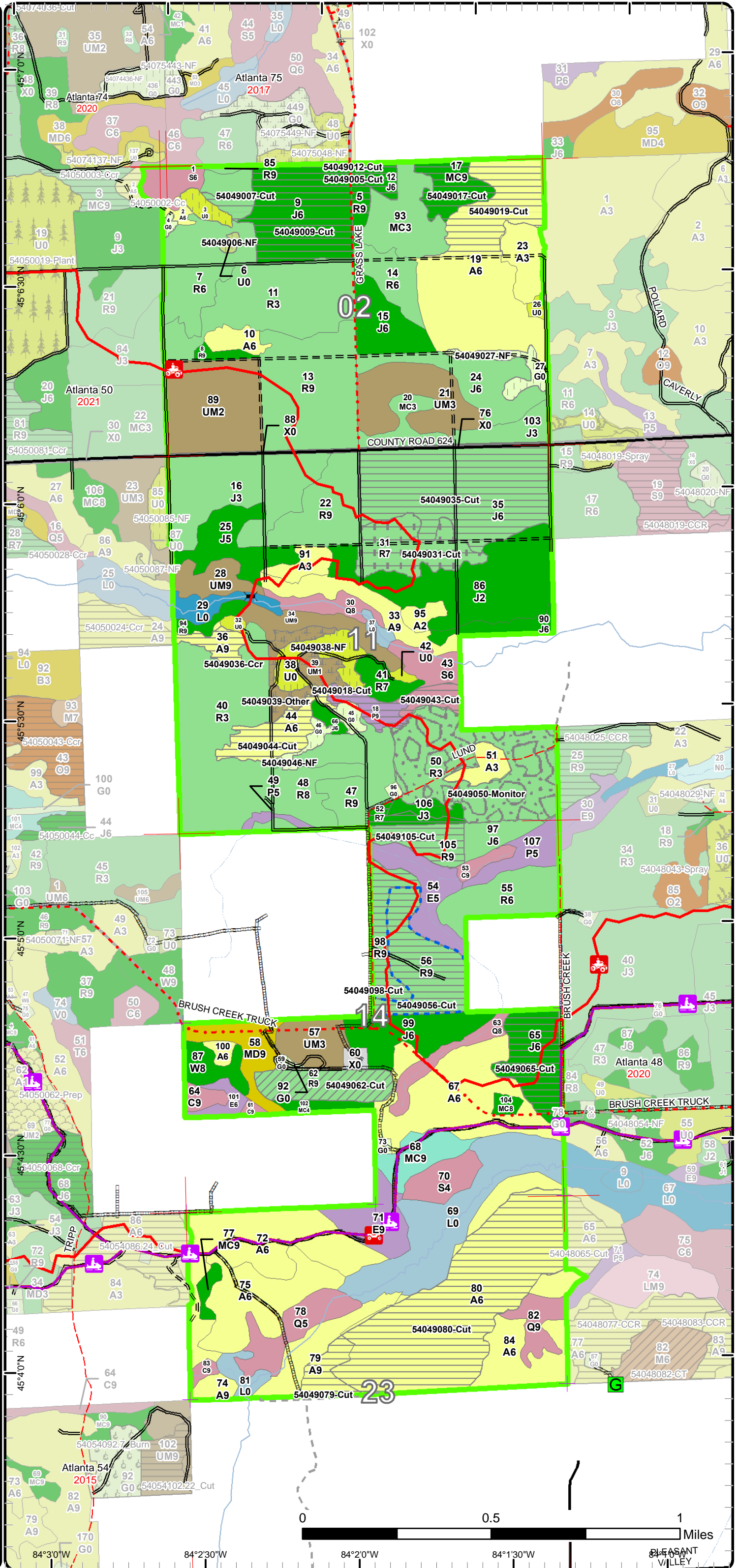
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 49
 T31N, R03E, Sec. 2, 3, 11, 14, 23
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Thunder Bay
 Outwash
 YOE: 2022
 Acres: 1,781 GIS Calculated
 Examiner: Darrick Coy
 Map Revised: 10/22/2020
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🛵 ORV Trails
- 🛵 ORV Routes
- 🛷 Snowmobile Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Perennial River
- Gate
- Bridges
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Opening Maintenance
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland

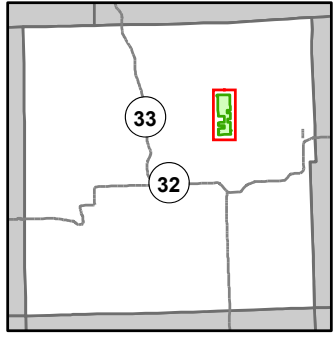


0 0.5 1 Miles

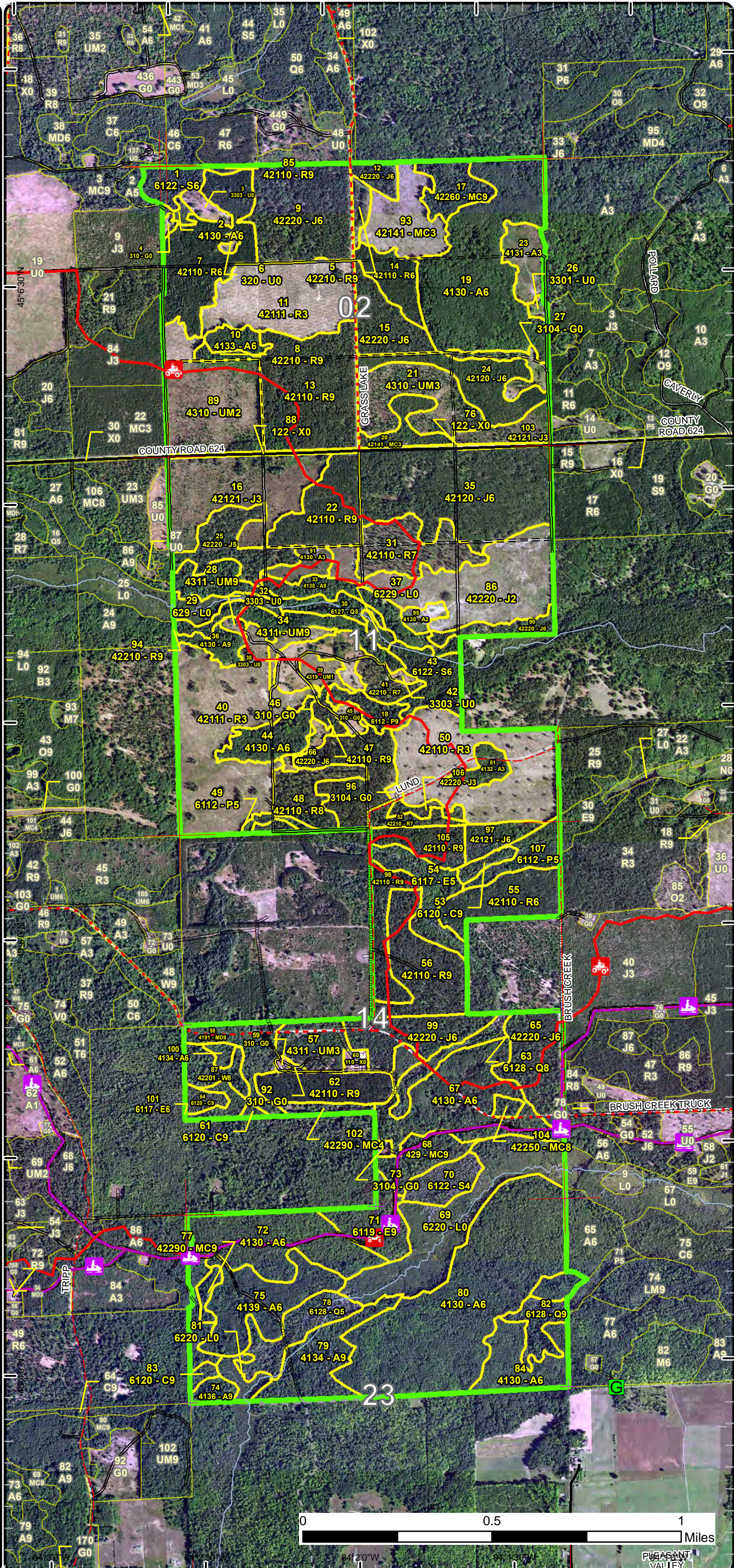
84° 30' W 84° 2' 30' W 84° 2' 0' W 84° 1' 30' W 84° 1' 0' W

Stand Boundary Map

Compartment: 49
 T31N, R03E, Sec. 2, 3, 11, 14, 23
 County: Montmorency
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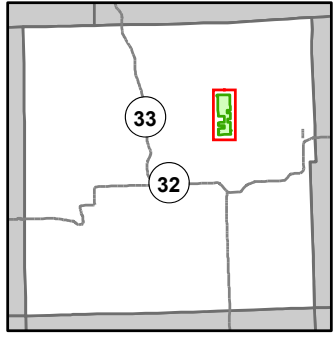
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- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
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- Snowmobile Trails
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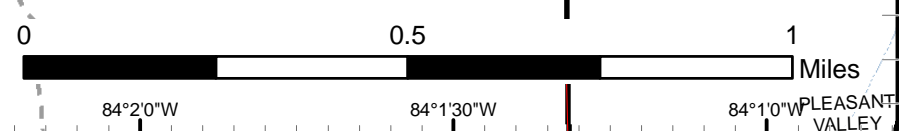
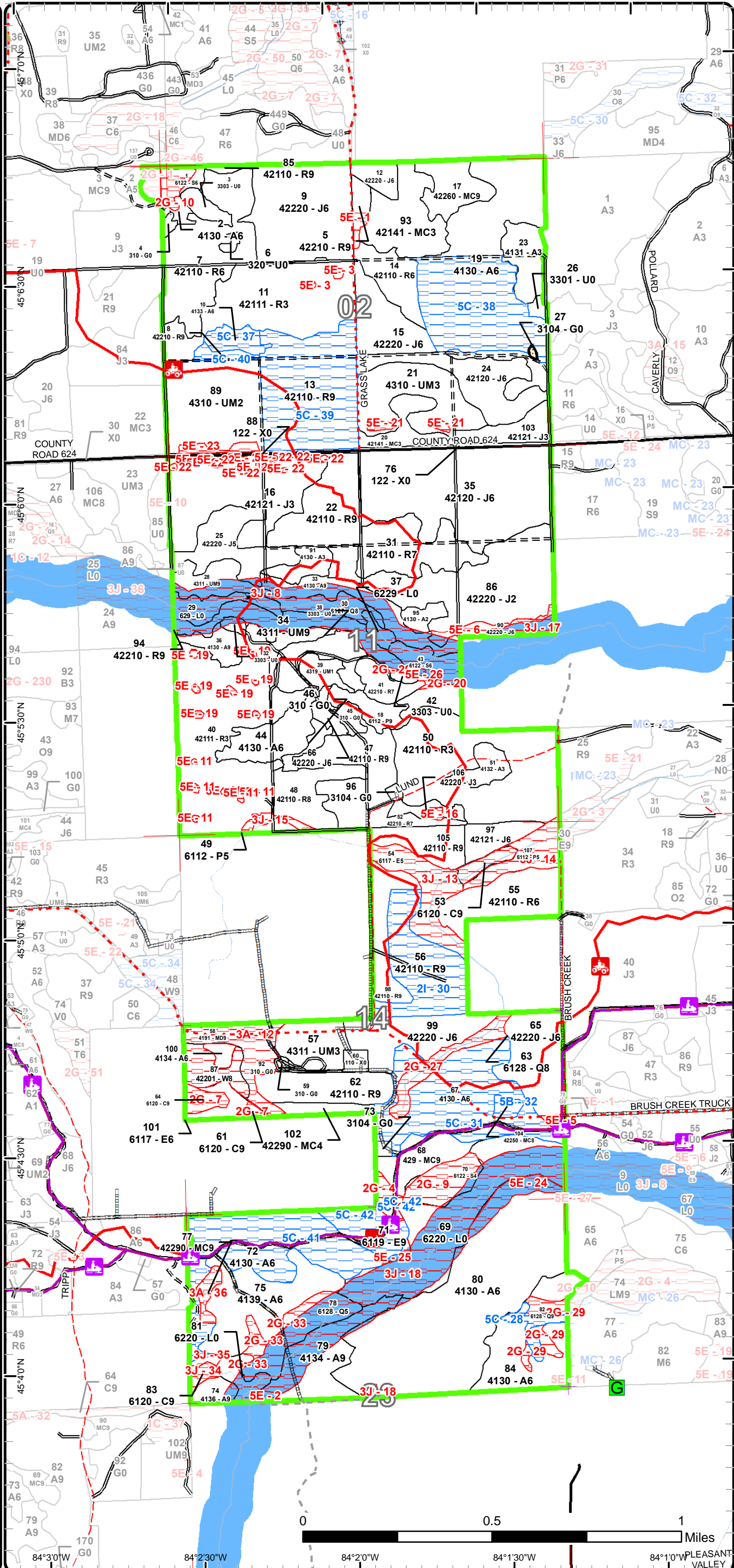
PLEASANT VALLEY

Special Conservation Areas

Compartment: 49
 T31N, R03E, Sec. 2, 3, 11, 14, 23
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 Unit: Atlanta
 Mgmt Area: Thunder Bay
 Outwash
 YOE: 2022
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- 🚲 ORV Routes
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- Designated ATV
- - - Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Perennial River
- G Gate
- Bridges
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 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
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Sand or Gravel Pit



Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit
Darrick Coy : Examiner

Compartment 49 Year of Entry 2022



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	22	0	39	25	101	213	16	0	0	29	0	0	0	0	0	0	0	445
Cedar	0	0	0	0	0	0	0	0	0	0	2	0	0	4	5	0	0	0	11
Herbaceous Openland	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Jack Pine	0	52	55	27	0	34	42	43	104	0	0	0	0	0	0	0	0	0	357
Low-Density Trees	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Aspen/Balsam Poplar	0	0	0	0	0	14	0	0	8	0	0	0	0	0	0	0	0	0	22
Lowland Conifers	0	0	0	0	0	0	0	0	0	10	0	25	9	0	0	0	0	0	44
Lowland Deciduous	0	0	0	0	0	5	0	18	17	0	0	0	0	0	0	0	0	0	40
Lowland Shrub	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	24	11	0	0	0	0	0	0	0	0	35
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	16
Natural Mixed Pines	0	0	0	0	0	0	0	5	13	2	3	0	0	0	0	0	0	0	23
Planted Mixed Pines	0	23	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Red Pine	0	178	0	0	75	0	0	45	101	64	33	0	0	0	0	0	0	0	496
Upland Conifers	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	13
Upland Mixed Forest	0	14	69	14	0	10	0	0	0	13	0	0	0	0	0	0	0	0	120
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	9
Total	117	289	124	90	100	164	255	127	296	90	77	0	25	22	5	0	0	0	1781



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 49

Total Compartment Acres: 1,781

Commercial Harvest - 409
 Harvests with Site Condition - 30
 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	161	0	0	0	0	0	0	0	0	161
Jack Pine	142	0	0	0	0	0	0	0	0	142
Lowland Aspen/Balsam Poplar	7	0	0	0	0	0	0	0	0	7
Lowland Spruce/Fir	6	0	0	0	0	0	0	0	0	6
Natural Mixed Pines	13	0	0	0	0	0	0	0	0	13
Red Pine	69	0	0	0	18	23	0	0	0	110
Total	397	0	0	0	18	23	0	0	0	439

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	439	0	0	0	0	59	14	33	0	545
Next Step	0	449	225	0	0	435	696	0	0	1805
Total	439	449	225	0	0	435	755	14	33	2350



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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Approved Treatments:

65	54048065-Cut	12.9	4134 - Aspen, Spruce/Fir	Poletimber Well	39		Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> -clearcut (approved in out-of-YOE 2022) <u>Specs:</u> -leave 3-10% in area retention <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> -medium to high stocking of aspen, maple, fir, pine, and spruce <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 8 /7 /2020</p>											
3	54049003-NF	4.2	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
4	54049004-NF	1.1	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</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
5 54049005-Cut	2.8	42210 - Natural Red Pine	Sawtimber Well	87	81-110	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> -clearcut <u>Specs:</u> -no retention due to small stand size -do not cut into area to the south left as retention for stand 93 to the adjacent east</p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - <u>Treatments:</u> Release; Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping</p> <p><u>Acceptable</u> -fully stocked red pine with a minor component of mixed deciduous species <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
6 54049006-NF	1.1	320 - Upland Shrub	Nonstocked			Unspec NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture <u>Specs:</u> practices</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
7 54049007-Cut	3.5	42110 - Planted Red Pine	Poletimber Well	37	141-170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> -clearcut-no retention due to small stand size <u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - <u>Treatments:</u> Release; Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping</p> <p><u>Acceptable</u> -fully stocked red pine with a minor component of mixed deciduous species <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
9 54049009-Cut	43.2	42220 - Natural Jack Pine	Poletimber Well	67	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> -clearcut <u>Specs:</u> -leave 3-10% in retention pocket(s) along the Grass Lake Rd</p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - <u>Treatments:</u> Release; Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping</p> <p><u>Acceptable</u> -fully stocked red pine with a minor component of mixed deciduous species <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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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12	54049012-Cut	5.5	42220 - Natural Jack Pine	Poletimber Well	47	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription -clearcut
Specs: -no retention due to small stand size
Next Step SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder -
Treatments: Release; Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping
Acceptable -fully stocked red pine with a minor component of mixed deciduous species
Regen:
Other
Comment:
Site Condition
Proposed Start Date: 10/1 /2021

17	54049017-Cut	12.9	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	78	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription -clearcut
Specs: -leave 2-3 wp and/or rp per acre to fill in low stocked areas
 -leave 3-10% in retention pocket(s)
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:
Acceptable -any combination of aspen, maple, oak, fir, and pine of medium to high stocking
Regen:
Other
Comment:
Site Condition
Proposed Start Date: 10/1 /2021

18	54049018-Cut	7.4	6112 - Lowland Aspen	Sawtimber Well	72	51-80	Harvest	Clearcut with Retention	6130 - Fir, Aspen, Maple	Even-Aged	No
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Prescription -clearcut
Specs: -no retention due to small stand size
 -protect Atlanta ORV trail in timber sale specifications
 -add grouse timber sale specification (recommend marking 1 log sized tree to fell and/or push over every 2 acres)
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:
Acceptable -any combination of aspen, maple, oak, fir, spruce, and pine of medium to high stocking
Regen:
Other
Comment:
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
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19	54049019-Cut	29.5	4130 - Aspen	Poletimber Well	47	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription -clearcut-leave 3-10% in retention pocket(s) -add grouse timber sale specification (recommend marking 1 log sized tree to fell and/or push over every 2 acres)

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

27	54049027-NF	7.3	3104 - Degraded	Nonstocked			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, or other agriculture practices

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

31	54049031-Cut	23.2	42110 - Planted Red Pine	Sawtimber Poor	90	1-50	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription -overstory removal

Specs: -leave 1 tree per acre to serve as retention and help seed in areas after the harvest
-protect existing advanced regeneration, no tree-length skid with crowns attached
-protect Atlanta ORV trail in timber sale specifications

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other

Comment:

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
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35	54049035-Cut	70.6	42120 - Planted Jack Pine	Poletimber Well	78	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription -clearcut
Specs: -leave 3-10% in retention pocket(s) along CR 624
 -require low stumps and have tops reduced and chipped (if possible)
 -protect Atlanta ORV trail in timber sale specifications
Next Step SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)
Acceptable -fully stocked red pine with a minor component of mixed deciduous species
Regen:
Other
Comment:
Site Condition
Proposed Start Date: 10/1 /2021

36	54049036-Ccr	6.3	4130 - Aspen	Sawtimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be in or near the stream buffer on north side of
Specs: stand. Use Atlanta grouse spec. 5.2.4.7.
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:
Acceptable Any combination of aspen, maple, oak or conifer
Regen:
Other Use current, standard trail specs for safety and infrastructure protection of ORV trail. Treatment approved OYOYE on 8/7/2019.
Comment:
Site Condition
Proposed Start Date: 10/1 /2020

38	54049038-NF	13.3	3303 - Mixed Low Density Trees	Nonstocked		Immatur re	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, or other agriculture
Specs: practices
 Use current, standard trail specs for safety and infrastructure protection.
Next Step
Treatments:
Acceptable
Regen:
Other
Comment:
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
39 54049039-Other	14.1	4319 - Mixed Upland Forest	Sapling Poor	5	Immature	Other	Other	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Past treatment failed to regenerate to minimum acceptable species stocking and to desired Natural Jack Pine, Mixed Deciduous cover type objective.</p> <p><u>Specs:</u></p> <p>Compartment review decision is to accept lower failed regeneration monitoring and close this treatment.</p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); SitePrep, Roller Chopping;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</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 /2021</p>										
43 54049043-Cut	5.9	6122 - Black Spruce Poletimber Well		72	111-140	Harvest	Clearcut with Retention	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> -clearcut (partial stand harvest)</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> -leave 3-10% in area retention (already excluded, see site conditions layer) -keep treatment boundary at least 300ft away from Brush Creek (already excluded, see site conditions layer) -protect Atlanta ORV trail in timber sale specifications <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> -any combination of aspen, maple, oak, fir, spruce, cedar, and pine of medium to high stocking</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
44 54049044-Cut	15.7	4130 - Aspen Poletimber Well		44	51-80	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> -clearcut</p> <p><u>Specs:</u></p> <ul style="list-style-type: none"> -leave 3-10% in retention pocket(s) -protect Atlanta ORV trail in timber sale specifications -add grouse timber sale specification (recommend marking 1 log sized tree to fell and/or push over every 2 acres) <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> -any combination of aspen, maple, oak, fir, and pine of medium to high stocking</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
45 54049045-NF	3.0	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, 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 /2021</p>										
46 54049046-NF	3.1	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, 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 /2021</p>										
50 54049050-Monitor	58.7	42110 - Planted Red Pine	Sapling Well	5	Immature	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> -Survey regeneration per Work Instructions</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> trench and replant to rp</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 /2020</p>										
52 54049052-Cut	5.0	42210 - Natural Red Pine	Sawtimber Poor	90	1-50	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> -clearcut-area retention already left to the north (see site conditions layer)-protect Atlanta ORV trail in timber sale specifications</p> <p><u>Next Step Treatments:</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Release; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> -fully stocked red pine and/or jack pine with a minor component of mixed deciduous species</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
56 54049056-Cut	30.3	42110 - Planted Red Pine	Sawtimber Well	89	81-110	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> -clearcut <u>Specs:</u> -leave 3-10% in retention pocket(s) along portions of the Atlanta ORV trail -protect Atlanta ORV trail in timber sale specifications</p> <p><u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Skidder - Release; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); <u>Treatments:</u> Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> -fully stocked red pine and jack pine with a minor component of mixed deciduous species <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2021</p>										
62 54049062-Cut	18.3	42110 - Planted Red Pine	Sawtimber Well	60	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> -thin to 120 residual BA <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> -mark during leaf on or off, subcanopy is relatively unoccupied <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
65 54049065-Cut	22.4	42220 - Natural Jack Pine	Poletimber Well	70	81-110	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> -clearcut <u>Specs:</u> -leave 3-10% in retention pocket(s) (already excluded south of Brush Creek Truck Trl -protect high Atlanta ORV trail in timber sale specifications -keep treatment boundary at least 100ft away from the intermittent stream to the west -protect Atlanta ORV trail in timber sale specifications</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, <u>Treatments:</u> Initial Plant; Pesticide, Skidder - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(</p> <p><u>Acceptable</u> -any combination of pine, aspen, maple, oak, fir, and pine of medium to high stocking <u>Regen:</u> -survey regeneration early -planted red pine is also an acceptable cover type if regeneration stocking is low</p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</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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79	54049079-Cut	8.8	4134 - Aspen, Spruce/Fir	Sawtimber Well	90	81-110	Harvest	Clearcut	4130 - Aspen	Even-Aged	No
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Prescription -clearcut
Specs: -leave 3-10% in area retention (already excluded, see site conditions layer)
 -keep treatment boundary at least 300ft away from Miller Creek (already excluded, see site conditions layer)
 -add grouse timber sale specification (recommend marking 1 log sized tree to fell and/or push over every 2 acres)
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:
Acceptable Regen: -any combination of aspen, maple, oak, fir, and pine of medium to high stocking
Other Comment:
Site Condition
 Proposed Start Date: 8 /7 /2020

80	54049080-Cut	100.4	4130 - Aspen	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription -clearcut
Specs: -leave 3-10% in area retention (already excluded, see site conditions layer)
 -keep treatment boundary at least 300ft away from Miller Creek (already excluded, see site conditions layer)
 -add grouse timber sale specification (recommend marking 1 log sized tree to fell and/or push over every 2 acres)
Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:
Acceptable Regen: -any combination of aspen, maple, oak, fir, and pine of medium to high stocking
Other Comment:
Site Condition
 Proposed Start Date: 8 /7 /2020

98	54049098-Cut	14.6	42110 - Planted Red Pine	Sawtimber Well	89	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription -clearcut
Specs: -leave 3-10% in retention pocket(s) along portions of the Atlanta ORV trail
 -protect Atlanta ORV trail in timber sale specifications
Next Step Pesticide, Skidder - Release; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Skidder -
Treatments: Release; SitePrep, Roller Chopping; Monitoring, Artificial Regen(3yr)
Acceptable Regen: -fully stocked red pine with a minor component of mixed deciduous species
Other Comment:
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
105 54049105-Cut	12.6	42110 - Planted Red Pine	Sawtimber Well	81	81-110	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> -clearcut</p> <p><u>Specs:</u> -leave 3-10% in retention pocket(s) along portions of the Atlanta ORV trail -protect Atlanta ORV trail in timber sale specifications</p> <p><u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);</p> <p><u>Treatments:</u> Pesticide, Skidder - Release; Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> -fully stocked red pine and/or jack pine with a minor component of mixed deciduous species</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment Acreage Proposed: 557.7

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Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
445	261	147	37
11	0	0	11
18	18	0	0
357	345	0	12
22	21	0	1
21	8	0	14
44	0	4	40
39	5	12	22
66	13	0	53
35	8	0	27
16	0	0	16
23	18	2	3
33	33	0	0
496	403	84	10
13	13	0	0
121	100	0	21
1	1	0	0
9	9	0	0
9	0	0	9
1,781	1,256	250	275
	71%	14%	15%

Dominant Site Conditions

	Availability for Management				Dominant Site Conditions							
	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	2I	5B	5C	2G	3A	3J	5E	
Aspen	445	261	147	37			147	0	0	29	8	
Cedar	11	0	0	11				5	0	6		
Herbaceous Openland	18	18	0	0					0			
Jack Pine	357	345	0	12						5	7	
Low-Density Trees	22	21	0	1				0		1	0	
Lowland Aspen/Balsam Poplar	21	8	0	14						14		
Lowland Conifers	44	0	4	40			4	19		20		
Lowland Deciduous	39	5	12	22			12	4	0	18	1	
Lowland Shrub	66	13	0	53				0		53	0	
Lowland Spruce/Fir	35	8	0	27				18		9	1	
Mixed Upland Deciduous	16	0	0	16					16			
Natural Mixed Pines	23	18	2	3		2			3			
Planted Mixed Pines	33	33	0	0								
Red Pine	496	403	84	10	30		53	0	0	4	6	
Upland Conifers	13	13	0	0								
Upland Mixed Forest	121	100	0	21				0	0	16	4	
Upland Shrub	1	1	0	0								
Urban	9	9	0	0								
White Pine	9	0	0	9					9			
Total Forested Acres	1,781	1,256	250	275	30	2	217	47	28	174	27	
Relative Percent		71%	14%	15%								

**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:							
This is long term retention from timber Sale Name: C49 RPP TWO; Sale Number: 54-014-11-01.							

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2	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 79 -Priority Trout Stream 100 m Buffer							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 65							
6	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -no area retention designated on past sale map -use as area retention for stand 86							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	60	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
Comments: Priority Trout Stream 100 m Buffer							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention from Stand 47, Sale Name: C49 RPP TWO; Sale Number: 54-014-11-01.							
12	Unavailable	3A: Conservation Values incompatible with harvest at this time	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	22	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: -3-5 ft stream flows through this area and contains muck soils							

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14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -3-5 ft stream flows through this area							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -seasonally wet drainage							
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
Comments: Priority Trout Stream 100 m Buffer							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	71	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
Comments: Priority Trout Stream 100 m Buffer							
19	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention from Stand 40, Sale Name: C49 RPP TWO; Sale Number: 54-014-11-01.							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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21	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 21							
22	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 89							
24	Unavailable	5E: Long-Term Retention	7	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 80 Priority Trout Stream 100 m Buffer							
25	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 71 Priority Trout Stream 100 m Buffer							
26	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 43 -Priority Trout Stream 100 m Buffer							

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27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	2I: Survey needed	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Available	5B: Maintain for regeneration purposes	2	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							

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33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	3A: Conservation Values incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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
Historically Used Pit (years 1965-69)	Mineral Resource Area	Sand or Gravel Pit	Error	0
Comments				
historically mined in the past for county road use				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
1	6122 - Black Spruce	Poletimber Well	8.5	71	81-110	N/A	old deer blind west of wildlife opening. -some higher ground on east 1/4 where log jp and rp exist-too wet																																																														
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2	4130 - Aspen	Poletimber Well	2.1	43	51-80	N/A																																																															
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3	3303 - Mixed Low Density Trees	Nonstocked	4.2		Unspecified	No																																																															
4	310 - Herbaceous Openland	Nonstocked	1.1		Unspecified	No																																																															
5	42210 - Natural Red Pine	Sawtimber Well	4.3	87	81-110	N/A	-area was left as area retention for stand 93																																																														
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6	320 - Upland Shrub	Nonstocked	1.1		Unspecified	No																																																															
7	42110 - Planted Red Pine	Poletimber Well	39.6	37	141-170	N/A	-FTP record- planted 5/1983 800 trees/acre at 6 x 9-10 spacing with Olive AG-6 and killifer planter (interplanted with existing jp)-past treatment- - completion- -sale number- -leave trees- -volume (cds)- -40% live crown																																																														
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9	42220 - Natural Jack Pine	Poletimber Well	43.2	67	81-110	N/A	The overstory data for this stand was lost when the east portion of this stand's harvest data was updated. The info used to describe the stand was taken from the 2012 YOE inventory binder.-bored 4 trees, age is younger																																						
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10	4133 - Aspen, Mixed Pine	Poletimber Well	5.9	46	81-110	N/A																																							
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11	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	48.6	4	Immature	N/A	Overstory removal was to release fully established rp regen. rp regen is natural and planted. Survey needed to determine status of regeneration.																																						
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12	42220 - Natural Jack Pine	Poletimber Well	5.5	47	81-110	N/A	water table seems higher here																																						
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13	42110 - Planted Red Pine	Sawtimber Well	50.6	79	141-170	N/A	orv trail thru stand -past treatment- thinning, N of 2-trk only, cut all JP -completion- 1/21/76 -sale number- 122-74 -leave trees- other spec -volume (cds)- jp 440																																																			
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				-past treatment- thinning, S of 2 trk only, cut all JP -sale number- 54-018-94-01 -acres- 40 -leave trees- rp and oak -volume (cds)- JP 344 -completion- 1/18/95 planting records for 1929, 1937, and 1939, cored 2 trees and average is closer to 79 yrs																																																						
14	42110 - Planted Red Pine	Poletimber Well	12.6	37	111-140	N/A	-FTP record- planted 5/1983 800 trees/acre at 6 x 9 spacing with Olive AG-6 and killifer planter (open planted, not interplanted)-40% live crown																																																			
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16	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	45.2	12	Immature	N/A	-past treatment- clearcut, no tree-length skidding or chipping of tops, protected rp, wp, oak, and shrub adv regen -completion- 11/15/05 -sale number- 54-021-02-01 -leave trees- oak -volume (cds)- jp 1101 & aspen 40 (in part, includes stands 16, 21, and 89)																																																			
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17	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	13.0	78	81-110	N/A	-appears that some of oak was cut and all rm, aspen, and jp																																																			
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19	4130 - Aspen	Poletimber Well	75.1	47	81-110	N/A	4-6 stick, healthy minimal rot																																																
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20	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	9.6	26	1-50	N/A	-past treatment- clearcut-sale number- 54-001-92-01-acres- 8-leave trees- none-volume (cgs)- jp 111, oak 1, rp 35 -completion- 4/14/93-FTP- RP planting-FTP number- C54-598-acres- 8-stock- 2-0-spacing- -trees/acre- 871-completion- 05/94																																																
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21	4310 - Pine, Oak Mix	Sapling Well	29.0	14	Immature	N/A	-planted only the east 40? Looks that way -past treatment- clearcut, no tree-length skidding or chipping of tops, protected rp, wp, oak, and shrub adv regen -completion- 11/15/05 -sale number- 54-021-02-01 -leave trees- oak -volume (cgs)- jp 1101 & aspen 40 (in part, includes stands 16, 21, and 89)																																																
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22	42110 - Planted Red Pine	Sawtimber Well	25.3	60	111-140	N/A	-planted ~30 acres in 8/29/1960 750 trees/acre at 7.5 x 7.5 spacing with Olive AG-6 and killifer planter -past treatment- 3rd row thin -completion- 2014 -sale number- 54-010-12-01 -leave trees- 130 residual BA in 2014 -volume (cgs)- 338 rp, 78 jp																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
23	4131 - Aspen, Oak	Sapling Well	11.7	4	Immature	N/A	-past treatment- clearcut -sale number- 54-026-12-01 -acres- 11 -leave trees- green painted trees -volume (cds)- aspen 119, jp 7, rp 13, ro 110, wp 3, rm 24 -completion- 10/16/15 -mixed regeneration of aspen, oak, and red maple		
Canopy Species		% Cover	Size Class	DBH	Age				
Black/Red (Hybrid) Oak		30	Sapling	1					
Bigtooth Aspen		50	Sapling	1	4				
Red Maple		20	Sapling	1					
24	42120 - Planted Jack Pine	Poletimber Well	23.5	26	51-80	N/A	-past treatment- clearcut-sale number- 54-001-92-01-acres- 23- leave trees- -volume (cds)- jp 295, oak 17, rp 82 -completion- 4/14/93-FTP- JP planting-FTP number- C54-598-acres- 28- stock- 2-0-spacing- -trees/acre- 1044-completion- 05/94		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		5	Sapling/Pole	4		Black Cherry	Medium	5 - 10 feet	Sapling
Northern Pin Oak		10	Pole/Sapling	5		Red Maple	Medium	5 - 10 feet	Sapling
Jack Pine		85	Pole/Sapling	5	26	Northern Pin Oak	Medium	5 - 10 feet	Sapling
25	42220 - Natural Jack Pine	Poletimber Medium	19.7	52	81-110	N/A	SWNW-1940 planting record- NP3 JP2 800 trees/acre, planted 24 acres 1982 clearcut record- aspen, pine, and hardwoods		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak		5	Pole/Log	8		Jack Pine	Low	Variable	Sapling
Red Pine		10	Log	14		Black Cherry	Low	5 - 10 feet	Sapling
Jack Pine		83	Pole/Log	8	52	Northern Pin Oak	Low	Variable	Sapling
White Pine		2	Pole	8		White Oak	Low	Variable	Sapling
26	3301 - Low Density Deciduous Trees	Nonstocked	1.6			No			
27	3104 - Degraded	Nonstocked	7.3			No	-1969 mineral permit 5-69- 1,000 cubic yards of clay at no charge to county road commission -1968 mineral permit 5-68- 3,000 cubic yards of clay at no charge to county road commission -1966 mineral permit 5-66- 1,000 cubic yards of clay at no charge to county road commission -1965 mineral permit 5-65- 300 cubic yards of clay at no charge to county road commission		
28	4311 - Pine, Aspen Mix	Sawtimber Well	10.4	47	51-80	N/A	1982 clearcut record- aspen, pine, and hardwoods, cored 2 trees, ages are mixed, some younger aspen in west 1/3rd, close to 37 yrs old there -older 57 year log aspen in middle -most wp is in the east half		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		55	Log/Pole	10	47	Balsam Fir	Medium	Variable	Sapling
Balsam Fir		7	Pole	8		Red Maple	Medium	Variable	Sapling
White Pine		1	XLog	25		White Pine	Medium	Variable	Sapling
Red Pine		2	Log	14					
Red Oak		1	XLog	22					
White Oak		2	XLog	31					
Jack Pine		15	Pole	8					
White Pine		15	Pole	9					
Tamarack		2	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29 629 - Mixed non-forested wetland Nonstocked 7.8 Unspecified No

30 6127 - Lowland Pine Sawtimber Medium 7.8 116 51-80 N/A -transitional in hydrology and between ridge and stream bank

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
White Pine	50	Log/XLog	16	116	Balsam Fir	Medium	Variable	Sapling
Red Pine	30	XLog/Log	18		White Pine	Medium	Variable	Sapling
Black Spruce	5	Pole	6		Red Maple	Medium	Variable	Sapling
Northern White Cedar	5	Log	12					

31 42110 - Planted Red Pine Sawtimber Poor 23.2 90 1-50 N/A SWNE-1940 planting record- NP3 JP2 800 trees/acre, planted 38 acres

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	4	Pole/Log	9		Northern Pin Oak	High	5 - 10 feet	Sapling
Red Pine	96	Log	12	90	Red Maple	Low	5 - 10 feet	Sapling
					Balsam Fir	Low	< 5 feet	Sapling
					White Pine	Low	< 5 feet	Sapling
					Red Pine	Low	< 5 feet	Sapling
					Jack Pine	Medium	< 5 feet	Sapling
					Black Cherry	Low	5 - 10 feet	Sapling
					White Oak	Low	5 - 10 feet	Sapling

Sign on site gives planting history. Students and teachers from Detroit, 1930.
8/26/18 Regen check. Significant natural regeneration is present and consists mostly of oak and big toothed aspen. Other notable species are red pine, white pine, jack pine, red maple, and black cherry.
-past treatment- shelterwood
-completion- 1/21/2014, cut mid-late summer
-sale number- 54-010-12-01
-leave trees- left 20-30 BA oak and pine
-volume (cds)- 327 rp, 247 jp, aspen 6, rm 7, oak 7

32 3303 - Mixed Low Density Trees Nonstocked 1.6 Immature No planted autumn olive along trail

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	Variable	Pole
Black Cherry	Low	Variable	Pole
Autumn Olive	Low	5 - 10 feet	Tall Shrub

33 4130 - Aspen Sawtimber Well 15.9 67 81-110 N/A Buffer, Brush Creek to South of Stand. Campsite/firepit in center of stand. ORV Trail runs through N part of stand.-was cut and is showing rot in 10-20% of trees

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	7		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	80	Log/Pole	11	67	White Pine	Medium	Variable	Sapling
Red Pine	5	Log/Pole	13		Red Pine	Low	Variable	Sapling
White Pine	10	Log/Pole	13		Balsam Fir	Low	Variable	Sapling

34 4311 - Pine, Aspen Mix Sawtimber Well 13.1 87 81-110 N/A ORV Trail through stand. Stand borders Brush Cr. to the south.-past treatment- clearcut, cut all aspen, mixed hwd, and all rp and wp with yellow paint-acres- 9-completion- 8-18-82-sale number- 032-82-leave trees- -volume (cds)- 72 aspen, 14 mhwd, 1 mbf rp and 1 mbf wp

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	2	Log	10		Red Oak	Low	Variable	Sapling
Quaking Aspen	25	Pole	7	38	White Pine	Low	Variable	Sapling
White Pine	10	Log/Pole	12		Red Maple	Medium	Variable	Sapling
Red Pine	48	Log	14	87	Black Cherry	Low	5 - 10 feet	Sapling
Red Maple	15	Pole	6	38	Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
35	42120 - Planted Jack Pine	Poletimber Well	70.7	78	111-140	N/A	NENE-1929 planting record- NP2 JP2 800 trees/acre, planted 38 acres NWNE-1933 planting record- NP2 JP2 800 trees/acre, planted 19 acres NWNE-1940 planting record- NP3 JP2 800 trees/acre, planted 38 acres -1929 planting failed per notes, burned in 1939																																									
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36	4130 - Aspen	Sawtimber Well	6.7	56	81-110	N/A	cored 56 yrs																																									
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37	6229 - Mixed lowland shrub	Nonstocked	2.7			No																																										
38	3303 - Mixed Low Density Trees	Nonstocked	13.5		Immature	No	planted autumn olive present																																									
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39	4319 - Mixed Upland Forest	Sapling Poor	14.1	5	Immature	N/A	-past treatment- clearcut -sale number- 54-026-12-01 -acres- 15 -leave trees- green painted trees -volume (cds)- jp 187, rp 113, rm 15 -completion- 10/16/15																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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40 42111 - Planted Red Pine, Mixed Deciduous Sapling Well 69.6 4 Immature N/A

This site was part of the Red Pine Project. C54-902W
-Trenched 08/07/2014.
-Planted 4/16/2015 with 1-0 PRT at 902/acre.
-Year 1 Survey on 6/6/16 at 876 RP/ac and 1,469 Competition/ac
-Herbicide Application on 9/27/17 was approved through variance on 1/25/2017
-Year 3 Survey 6/14/18 at 616 RP/ac and 1010 Comp./ac
The regeneration was acceptable and the treatment sequence has been closed out.
This stand has been updated from a field evaluation for a project on free to grow red pine.
June 2018: 616 TPA red pine, 64 TPA jack pine, 256 TPA cherry, 334 TPA red oak, 356 TPA red maple. Moderate deer browse. High amounts of forest tent caterpillars. Healthy looking seedlings.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	60	Sapling	1	4
Black Cherry	5	Sapling	1	
Northern Pin Oak	13	Sapling	1	
Jack Pine	5	Sapling	1	
Red Maple	15	Sapling	1	
Red Pine	2	Log/XLog	16	87

41 42210 - Natural Red Pine Sawtimber Poor 7.4 71 1-50 N/A

-NWSE 1940 planting record- NP3 JP2 800 trees/acre, planted 26 acres stand to ne
-cored trees appear to be younger
2 aged, 71 yrs, 25-50%, 10-30 ba, cover-95% 13 in rp, pink oak 12 in, overstory, seedtree cut 15 yrs ago?, sub saps 10-15ft tall, 15 yrs, med jp and pin oak 70% cover together, low cherry, rm, and rp

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	95	Log/Pole	13	71	Northern Pin Oak	Medium	10 - 20 feet	Sapling
Northern Pin Oak	5	Log/Pole	12		Jack Pine	Medium	10 - 20 feet	Sapling
					Red Maple	Low	10 - 20 feet	Sapling
					Black Cherry	Low	5 - 10 feet	Sapling
					Red Pine	Low	Variable	Sapling

42 3303 - Mixed Low Density Trees Nonstocked 1.1 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	Variable	Sapling
Black Cherry	Low	Variable	Pole
Northern Pin Oak	Low	Variable	Sapling

43 6122 - Black Spruce Poletimber Well 15.0 72 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	50	Pole	8	72	Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	25	Log/Pole	11	95	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack	5	Log/Pole	10					
Paper Birch	5	Pole	7					
Red Maple	5	Pole	8					
Quaking Aspen	5	Log/Pole	10					
Balsam Fir	5	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
44	4130 - Aspen	Poletimber Well	15.8	44	51-80	N/A	-cutting record for 1975 -internal rot showing already																																										
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47	42110 - Planted Red Pine	Sawtimber Well	26.3	72	111-140	N/A	SESW 1940 planting record- NP3 JP2 800 trees/acre, planted 38 acres-past treatment- thinning, cut all jp and aspen-sale number- 54-002-92-01-acres- 93 (stands 50, 47, 48, and 52)-leave trees- none-volume (cde)- aspen 43, rm 7, jp 550-completion- 9/1/94-cored 72 yrs on 3 trees-81 yrs in south leg, 80-110 ba, 15 inch, 44 yr old jp poles 6-7 inch, 25% coverage, m oak saps, m rm saps, clearcut south leg, merge south leg with rp stand to south																																										
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48	42110 - Planted Red Pine	Sawtimber Medium	17.4	72	81-110	N/A	SESW 1940 planting record- NP3 JP2 800 trees/acre, planted 38 acres -past treatment- thinning, cut all jp and aspen -sale number- 54-002-92-01 -acres- 93 (stands 50, 47, 48, 49, and 52) -leave trees- none -volume (cde)- aspen 43, rm 7, jp 550 -completion- 9/1/94																																										
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49	6112 - Lowland Aspen	Poletimber Medium	2.6	45	51-80	N/A	-seasonal broad drainage																																										
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50	42110 - Planted Red Pine	Sapling Well	59.3	5	Immature	N/A	This stand is being planted to red pine and was part of the Red Pine Project. C54-902S Trenched 8/4/2014. Site prep herbicide 9/3/2014. Planted 4/16/2015 with 1-0 PRT at 956/acre. Year 1 Survey at 830 RP/ac and 694 Competition/ac Year 2 Survey done special on 5/15/17 at 568 RP/ac and 215 competition/ac Replanted with 462 JP/ac on 5/14/2018; site now at 941 JP/ac This stand has been updated from a field evaluation for a project on free to grow red pine. Year 1 replant Survey 10/22/18. 693 red pine TPA. Competition includes red oak and jack pine. Red pine is 90+% free to grow.																																								
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51	4132 - Aspen, Jack Pine	Sapling Well	6.7	26	1-50	N/A	-past treatment- clearcut -sale number- 54-002-92-01 -acres- 7 -leave trees- none -volume (cfs)- aspen 57, rp 90, jp 16 -completion- 9/1/94																																								
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52	42210 - Natural Red Pine	Sawtimber Poor	5.7	90	1-50	N/A	SWSE 1929 planting record- NP3 JP2 800 trees/acre, planted 38 acres SWSE 1933 planting record- NP3 JP2 800 trees/acre, planted 38 acres SWSE 1940 planting record- NP3 JP2 800 trees/acre, planted 38 acres -past treatment- thinning, cut all jp and aspen- -sale number- 54-002-92-01-acres- 93 (stands 50, 47, 48, 49, and 52)- -leave trees- none- -volume (cfs)- aspen 43, rm 7, jp 550-completion- 9/1/94																																								
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53	6120 - Lowland Cedar	Sawtimber Well	3.7	121	141-170	N/A	2-5ft stream flows through stand																																								
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54	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	17.8	67	81-110	N/A	small stream through center of stand, little left to harvest when buffered. great wildlife corridor, and thermal cover from cedar. don't cut.																																																				
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55	42110 - Planted Red Pine	Poletimber Well	22.6	37	111-140	N/A	RP plantation, with lots of JP volunteers -FTP record- planted ~22 acres in 5/1983 800 trees/acre at 6 x 9 spacing with Olive AG-6 and killifer planter, \$56/acre-wide rows, fairly well defined -50-35% live crown																																																				
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56	42110 - Planted Red Pine	Sawtimber Well	30.3	89	81-110	N/A	Can harvest, see distribution of current RPP sales in area and then make decision. Stand is healthy and could wait till next entry. -planting record for RP/JP 1931 35 acres -cut record for jp in 1958 or 1974 with aspen, rm, spruce and fir -could be 2 aged with the JP cut out in the past -cored 82 and 87 years																																																				
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57	4311 - Pine, Aspen Mix	Sapling Well	14.4	28	1-50	N/A	-past treatment- clearcut -sale number- 54-022-92-01 -acres- 14 -leave trees- oak -volume (cds)- jp 153, aspen 71, rp 14 -completion- 2/5/92																																																				
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58	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	15.9	78	81-110	N/A	-some scatted potential legacy pines within this stand to the NW -high level of advanced white pine coming in under the aspen which is declining -stand is next to a significantly old white pine stand to the west																																																				
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59	310 - Herbaceous Openland	Nonstocked	0.8		Unspecified																																																						



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61	6120 - Lowland Cedar	Sawtimber Well	1.2	130	111-140	N/A	-past treatment- cut all cedar, spruce, fir, aspen and misc hwd. Cut all yellow painted wp, rp, and white spruce log trees. Looks like a strip cut according to map. -acres- 10 -completion- 9/29/77 -sale number- 2-77 -leave trees- -volume (cds)- cedar 5, spruce 2, fir 3, wp 8 mbf, rp 4 mbf -blowdown in middle of stand heading SE -standing water throughout																																																
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62	42110 - Planted Red Pine	Sawtimber Well	18.3	60	141-170	N/A	Stand was thinned in the past 3 years. -completed planting 18 acres 10/18/1960 800 trees/acre at 7.5 x 7.5 spacing with Oliver AG-6 and killifer planter -past treatment- 9/1985 FTP for contract completion for release cut, \$22/acre- chainsaw fell or girdle all trees overtopping red pine saplings -past treatment- 3rd row thin -completion- 11/8/05 -sale number- 54-030-02-01 -leave trees- 115 BA RP-17, 19, 15, 17, 15-open subcsnopy and understory with well-defined rows																																																
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63	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	9.1	120	81-110	N/A	-past treatment- ftp- contractor chainsaw cut all aspen, maple, birch, and oak. \$165-acres- 13 acres-completion- 1/25/74-sale number- w-201-59-leave trees- -volume (cds)-																																																
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64	6120 - Lowland Cedar	Sawtimber Well	3.9	130	111-140	N/A	-past treatment- cut all cedar, spruce, fir, aspen and misc hwd. Cut all yellow painted wp, rp, and white spruce log trees. Looks like a strip cut according to map.-acres- 10-completion- 9/29/77-sale number- 2-77-leave trees- -volume (cds)- cedar 5, spruce 2, fir 3, wp 8 mbf, rp 4 mbf-blowdown in middle of stand heading SE-standing water throughout																																																
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67	4130 - Aspen	Poletimber Well	48.8	50	81-110	N/A	3-4 stick aspen, vha site, rot already showing																																																																			
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68	429 - Mixed Upland Conifers	Sawtimber Well	13.3	70	81-110	N/A	-some scattered xxl red pine and wp throughout -more spruce and fir in south with more wp in the north -cedar and hemlock to sw																																																																			
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69	6220 - Alder/willow	Nonstocked	50.2	0	Unspecified	No																																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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70	6122 - Black Spruce	Poletimber Poor	11.2	83	1-50	N/A	-stand water throughout and very difficult to walk through with thick subcanopy
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	80	Pole	8	83	Tag Alder	High	5 - 10 feet	Tall Shrub
Tamarack	10	Pole	8		Balsam Fir	High	Variable	Sapling
Northern White Cedar	10	Log/Pole	10		Red Maple	Low	Variable	Sapling

71	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	16.7	71	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	44	Pole/Log	8	71	Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	37	Log/Pole	10		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole/Sapling	5		Red Maple	Medium	Variable	Sapling
Northern White Cedar	5	Pole/Log	8					
White Pine	2	Log/XLog	14					
Red Oak	2	Log	13					

72	4130 - Aspen	Poletimber Well	48.7	52	81-110	N/A	1968 cut record
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	21	Pole/Log	8		Red Maple	High	Variable	Sapling
Red Oak	5	Log/XLog	16		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	70	Pole/Log	9	52				
White Pine	2	XLog/Log	19					
Red Pine	2	XLog/Log	19					

73	3104 - Degraded	Nonstocked	1.1	0	Unspecified		
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74	4136 - Aspen, Mixed Conifer	Sawtimber Well	4.3	98	81-110	N/A	-significant rot in large aspen-no good access
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
75	4139 - Aspen, Mixed Deciduous	Poletimber Well	32.5	26	Immature	N/A	-past treatment- clearcut-sale number- 54-013-92-01-acres- 35-leave trees- green trees-volume (cgs)- mhwd 310, mixed pine 263, red oak 130, aspen 100-completion- 10/25/93																																														
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76	122 - Road/Parking Lot	Nonstocked	3.0	0		No	-past treatment- clearcut-sale number- 54-001-92-01-acres- 8-leave trees- none-volume (cgs)- jp 111, oak 1, rp 35 -completion- 4/14/93-FTP- RP planting-FTP number- C54-598-acres- 8-stock- 2-0-spacing- -trees/acre- 871-completion- 05/94																																														
77	42290 - Natural Mixed Pine	Sawtimber Well	3.2	92	81-110	N/A	-a few legacy white pine over 30 inches present -rather young age for size of trees but site quality is parvb																																														
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78	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	17.4	111	51-80	N/A	-mixed ages but still even aged -declining to dead cedar to NE -difficult to walk through or code cover type -converting to balsam fir -draigeway and stream through stand																																														
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79	4134 - Aspen, Spruce/Fir	Sawtimber Well	24.4	90	81-110	N/A	1946 cut record																																														
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80	4130 - Aspen	Poletimber Well	108.9	50	81-110	N/A	1948, 1969, or 1982 cut record appears to be 50 years old from cored trees																																														
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81	6220 - Alder/willow	Nonstocked	5.6		Unspecified	No																																															
82	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	9.9	92	111-140	N/A																																															
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83	6120 - Lowland Cedar	Sawtimber Well	2.1	98	141-170	N/A	-2-4ft stream runs through stand																																														
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84	4130 - Aspen	Poletimber Well	25.0	35	51-80	N/A	1948, 1969, or 1982 cut record-past treatment- clearcut-acres- 25-completion- 3/18/85-sale number- 54-038-82-01-leave trees- oak-volume (cds)- 275 cds aspen, 128 cds mhwd, 95 cds birch, 77 cds softwood																																														
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85	42110 - Planted Red Pine	Sawtimber Well	1.1	60	111-140	N/A																																															
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86	42220 - Natural Jack Pine	Sapling Medium	52.3	5	Immature	N/A	-past treatment- clearcut -sale number- 54-026-12-01 -acres- 54 -leave trees- green painted trees -volume (cds)- aspen 13, jp 1119, rp 150, ro 42, rm 5 -completion- 10/16/15																																													
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87	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	9.1	122	111-140	N/A	-older than average white and red pine of extra large log size -past treatment- selection, cut all orange trees and cut all aspen, birch, red maple, jack pine, and balsam fir -acres- 8 -completion- 4/30/84 -sale number- 54-065-82-01 -leave trees- unmarked or undesignated trees -volume (cds)- mostly mhwd, aspen, and jp in order of greatest volume																																													
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88	122 - Road/Parking Lot	Nonstocked	3.3	0	Unspecified	No																																														
89	4310 - Pine, Oak Mix	Sapling Medium	40.0	11	Immature	N/A	The inventory data on this stand was compiled using the FTP spreadsheet year 3 survey data. Therefore, the canopy data is somewhat of a guess until this stand can be inventoried again. Trenched on 9/13/10 Planted on 4/25/11 at 953 RP/ac Year 1 Survey in 2012 at 643 RP/ac Year 3 Survey in 2014 at 486 RP/ac and 1,267 O/M/C Competition/ac Orv trail in northern half of stand. -past treatment- clearcut, no tree-length skidding or chipping of tops, left 5-10 trees/ acre with tops, protected rp, wp, oak, and shrub adv regen -completion- 11/15/05 -sale number- 54-021-02-01 -leave trees- oak -volume (cds)- jp 1101 & aspen 40 (in part, includes stands 16, 21, and 89) -used average of 9 and 14 years due to natural and artificial regen rp are shorter and smaller than oak and jp																																													
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90	42220 - Natural Jack Pine	Poletimber Well	8.0	78	111-140	N/A																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
91	4130 - Aspen	Sapling Well	6.4	4	Immature	N/A	-past treatment- clearcut -sale number- 54-026-12-01 -acres- 11 (stands 91 and 95)- originally stand 33 -leave trees- green painted trees -volume (cads)- aspen 325, jp 14, rp 12, ro 3, wp 10, rm 7 -completion- 10/16/15 -conducted a walk-through during field inventory and this stand has regenerated to well stocked aspen		
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		85	Sapling	1	4				
Jack Pine		5	Sapling	1					
Northern Pin Oak		5	Sapling	1					
Red Maple		5	Sapling	1					
92	310 - Herbaceous Openland	Nonstocked	0.6			No			
93	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	23.3	3	Immature	N/A	C54-902NTrenched 7/2/2014Site prep herbicide 9/3/2014Planted 4/18/2015 with 1-0 PRT 987/acreYear 1 Survey at 891 RP/ac and 1,105 competitionYear 2 Survey done special on 5/15/17 919 RP/ac and 333 Competition/acThis stand has been updated from a field evaluation for a project on free to grow red pineYear 3 Regen Survey- 852 RP/ac and 1190 Comp./acThis stand has met the acceptable planted red pine stocking level for the third year regen survey and the treatment sequence has been closed outIn June 2018-852 TPA red pine, 1100 TPA red oak, 52 TPA cherry, 24 TPA jack pine. Height of planted- 2.5ft. Height of natural- 2 ft-added 1 yr for planted seedling age		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		55	Sapling	1	3				
Black/Red (Hybrid) Oak		35	Sapling	1					
Black Cherry		5	Sapling	1					
Jack Pine		5	Sapling	1					
94	42210 - Natural Red Pine	Sawtimber Well	4.2	97	81-110	N/A	ORV Trail through stand. Stand borders Brush Cr. to the south.possibly did this treatment-past treatment- clearcut, cut all aspen, mixed hwd, and all rp and wp with yellow paint-acres- 9-completion- 8-18-82-sale number- 032-82-leave trees- -volume (cads)- 72 aspen, 14 mhwd, 1 mbf rp and 1 mbf -probably was cut through, wp in ne leg of stand		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		5	Pole	7	38	Red Maple	Medium	Variable	Sapling
White Pine		5	Log/Pole	13		White Pine	Low	5 - 10 feet	Sapling
Red Pine		60	Log/XLog	15	97	Jack Pine	Low	5 - 10 feet	Sapling
Jack Pine		15	Log/Pole	10		Pin Cherry	Low	5 - 10 feet	Sapling
Balsam Fir		10	Pole	8	38	Balsam Fir	Medium	Variable	Sapling
Red Maple		5	Pole	7	38				
95	4130 - Aspen	Sapling Medium	3.9	5	Immature	N/A	-past treatment- clearcut -sale number- 54-026-12-01 -acres- 11 (stands 91 and 95)- originally stand 33 -leave trees- green painted trees -volume (cads)- aspen 325, jp 14, rp 12, ro 3, wp 10, rm 7 -completion- 10/16/15 Conducted walk-through on 6/4/20 and this treated area has successfully regenerated. Northeast half is lacking in regen due to a truck turn-around from the past timber sale.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		85	Sapling	1	5				
Red Maple		5	Sapling	1	5				
Jack Pine		10	Sapling	1	5				
96	3104 - Degraded	Nonstocked	1.0	0	Unspecified				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
97	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	8.4	44	81-110	N/A	-cut record in 1974 or 1976, core sample confirms																																														
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98	42110 - Planted Red Pine	Sawtimber Well	14.6	89	141-170	N/A	-planting record for RP/JP 1931 35 acres -cut record for jp in 1958 or 1974 with aspen, rm, spruce and fir -cored 82 and 87 years																																														
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99	42220 - Natural Jack Pine	Poletimber Well	22.4	50	81-110	N/A	Can harvest, see distribution of current RPP sales in area and then make decision. Stand is healthy and could wait till next entry. -1977 JP helicopter seed for 10 acres-50 year average, natural and planted intermixed, south of rd is 10 yrs older-trees are not in furrows north of road																																														
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100	4134 - Aspen, Spruce/Fir	Poletimber Well	2.4	45	51-80	N/A	Harvest to release white pine understory. Leave combination of 1-3 large crowned red oak and white pine per acre for wildlife.-past treatment-selection, cut all orange trees and cut all aspen, birch, red maple, jack pine, and balsam fir -acres- 8-completion- 4/30/84-sale number- 54-065-82-01-leave trees- unmarked or undesignated trees-volume (cds)- mostly mhwd, aspen, and jp in order of greatest volume																																														
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101	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	4.7	42	51-80	N/A	-past treatment- cut all cedar, spruce, fir, aspen and misc hwd. Cut all yellow painted wp, rp, and white spruce log trees. Looks like a strip cut according to map.-acres- 10-completion- 9/29/77-sale number- 2-77-leave trees- -volume (cds)- cedar 5, spruce 2, fir 3, wp 8 mbf, rp 4 mbf																																														
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102	42290 - Natural Mixed Pine	Poletimber Poor	4.6	60	1-50	N/A																																																													
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103	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	9.6	14	Immature	N/A	-planted only the east 40? Looks that way-past treatment- clearcut, no tree-length skidding or chipping of tops, protected rp, wp, oak, and shrub adv regen-completion- 11/15/05-sale number- 54-021-02-01-leave trees- oak-volume (cds)- jp 1101 & aspen 40 (in part, includes stands 16, 21, and 89) west half natural -30% rp, 38% pin oak, 30% jp,, 2% 14 in rp																																																												
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104	42250 - Pine, Oak	Sawtimber Medium	2.3	85	81-110	N/A	-good visual stand along the trail with mast oak and good advanced wp establishing under and around the oak																																																												
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105	42110 - Planted Red Pine	Sawtimber Well	12.6	81	81-110	N/A																																																													
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106	42220 - Natural Jack Pine	Sapling Well	3.8	26	1-50	N/A	SWSE 1929 planting record- NP3 JP2 800 trees/acre, planted 38 acresSWSE 1933 planting record- NP3 JP2 800 trees/acre, planted 38 acresSWSE 1940 planting record- NP3 JP2 800 trees/acre, planted 38 acres-past treatment- thinning, cut all jp and aspen-sale number- 54-002-92-01-acres- 93 (stands 50, 47, 48, 49, and 52)-leave trees- none-volume (cds)- aspen 43, rm 7, jp 550-completion- 9/1/94																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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107	6112 - Lowland Aspen	Poletimber Medium	11.1	43	81-110	N/A	small stream through center of stand, little left to harvest when buffered. great wildlife corridor, and thermal cover from cedar -1974 and 1976 cut record
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	31	Pole/Sapling	6	
Paper Birch	2	Pole	5	
Quaking Aspen	48	Pole	7	43
Black Spruce	2	Pole	7	
Balsam Fir	17	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub