



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54123

Entry Year 2018

Acreage: 1,731

County Presque Isle

Management Area: Cheboygan Basin Moraines

Revision Date: 2016-06-09

Stand Examiner: Chad Fate

Legal Description:

T33N, R02E, Sec. 22, 23 & 24.

Identified Planning Goals:

Protection of karst formations (sink holes), maintenance of recreational trails and campgrounds, wildlife and timber management.

Soil and topography:

Soils are typically sandy and well to excessively well-drained. Habitat types are mostly PVCd and PARVHa, with some PARVVb occurring on shallow oak ridges. Terrain is rather flat, except for the sinkholes.

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

The compartment and surrounding lands are mostly state land with scattered private forties.

Unique Natural Features:

Numerous features have been reported by MNFI.

Archeological, Historical, and Cultural Features:

One archeological site is recorded within this compartment, within section 22. no treatments have been proposed in this area and there are no concerns with protection.

Special Management Designations or Considerations:

Protection of the karst features (sink holes) are the main consideration.

Watershed and Fisheries Considerations:

maintain appropriate driving access into Francis Lake if any cutting is completed in those stands; maintain setback or some mature timber (selective cut) near Shoepac Lake stand 73.

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 and pine provide food and cover for multiple species at a variety of age classes. We are working to maintain mast producing trees as well as keep a good age rotation of aspen in this compartment as well as 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

Sections 21-24, T33N R2E, Presque Isle County

Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 50 and 200 feet. Beneath the glacial drift is the Devonian Traverse Group. The Traverse is quarried for limestone and cement products near Alpena. A large sand/gravel pit is located three miles to the north, in Section 5. Aerial imagery and the USGS topo map indicate there is a small sand pit (inactive?) on the border of sections 23 and 26. This pit is on state land but is not documented in existing DNR or MDOT inventories. It is unknown how recently the pit has been used. Sand and gravel potential within the compartment is considered moderate. This area has had some drilling for Silurian Niagaran Reefs, with production occurring just to the southwest. Additional drilling is possible. The Antrim Shale is not present. All state minerals in the compartment and surrounding area are currently under lease.

Vehicle Access:

Tomahawk Lake Highway is the main access to this compartment. Roads inside the ring formed by Tomahawk Lake Hwy, Elk Rd. Co. Rd. 634 and Shoepac Lake Rd. are already closed by a directors order.

Survey Needs:

No surveys needed at this time.

Recreational Facilities and Opportunities:

There are two State Forest Campgrounds, ORV trails, ORV routes, MCCCT, the High Country Pathway and Sinholes Pathway, and boating access sites.

Fire Protection:

Fire protection from the Onaway and Atlanta Field Offices along with local VFDs is adequate.

Additional Compartment Information:

The following reports from the Inventory are attached:

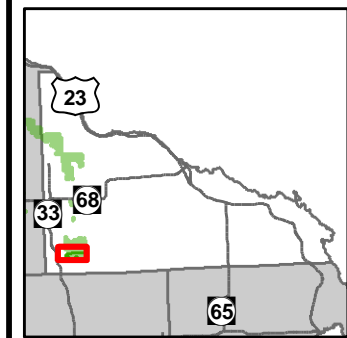
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

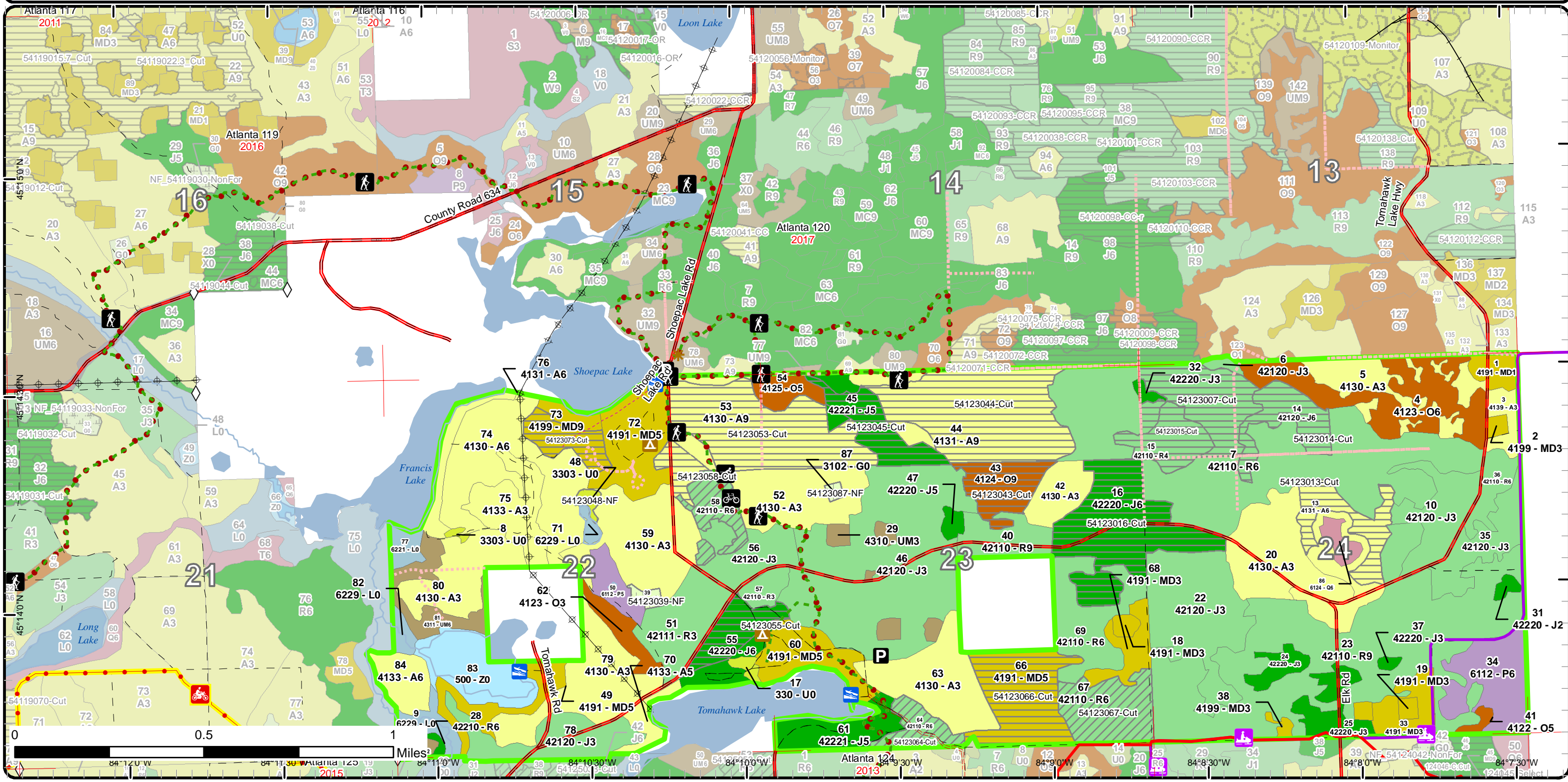
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 123
 T33N, R02E, Sec: 22 - 24
 County: Presque Isle
 Unit: Atlanta
 Mgmt Area: Cheboygan Basin
 Moraines
 YOE: 2018
 Acres: 1,731 GIS Calculated
 Examiner: Chad Fate
 Map Revised: 10/6/2016
 Map Phase: Post Review

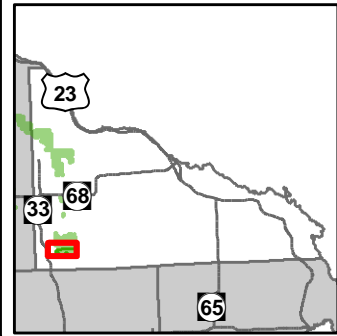


- Miris Corners
- ◇ Field Grade GPS Corners
- ▢ Boating Access Site
- ▲ Campground
- P Parking Lot
- * Trailhead
- 🚲 Bike Trails
- 🚶 Hiking Trails
- 🚲 MCCCT Trails
- 🛷 Ski Trails
- 🛷 Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Ski Trails
- ORV License & Trail Permit
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Railroads
- Rivers
- Pipeline
- + Powerline
- ▭ Compartment Boundary
- ▭ Clearcut (w/Reserves)
- ▭ Opening Maintenance
- ▭ Thinning (Crown, Low, Systematic)
- ▭ 412 - Oak Types
- ▭ 413 - Aspen Types
- ▭ 419 - Mixed Upland Deciduous
- ▭ 421 - Planted Pines
- ▭ 422 - Natural Pines
- ▭ 430 - Upland Mixed Forest
- ▭ 611 - Lowland Deciduous Forest
- ▭ 612 - Lowland Coniferous Forest
- ▭ 310 - Herbaceous Openland
- ▭ 330 - Low Density Trees
- ▭ 500 - Water
- ▭ 622 - Lowland Shrub
- ▭ Lakes

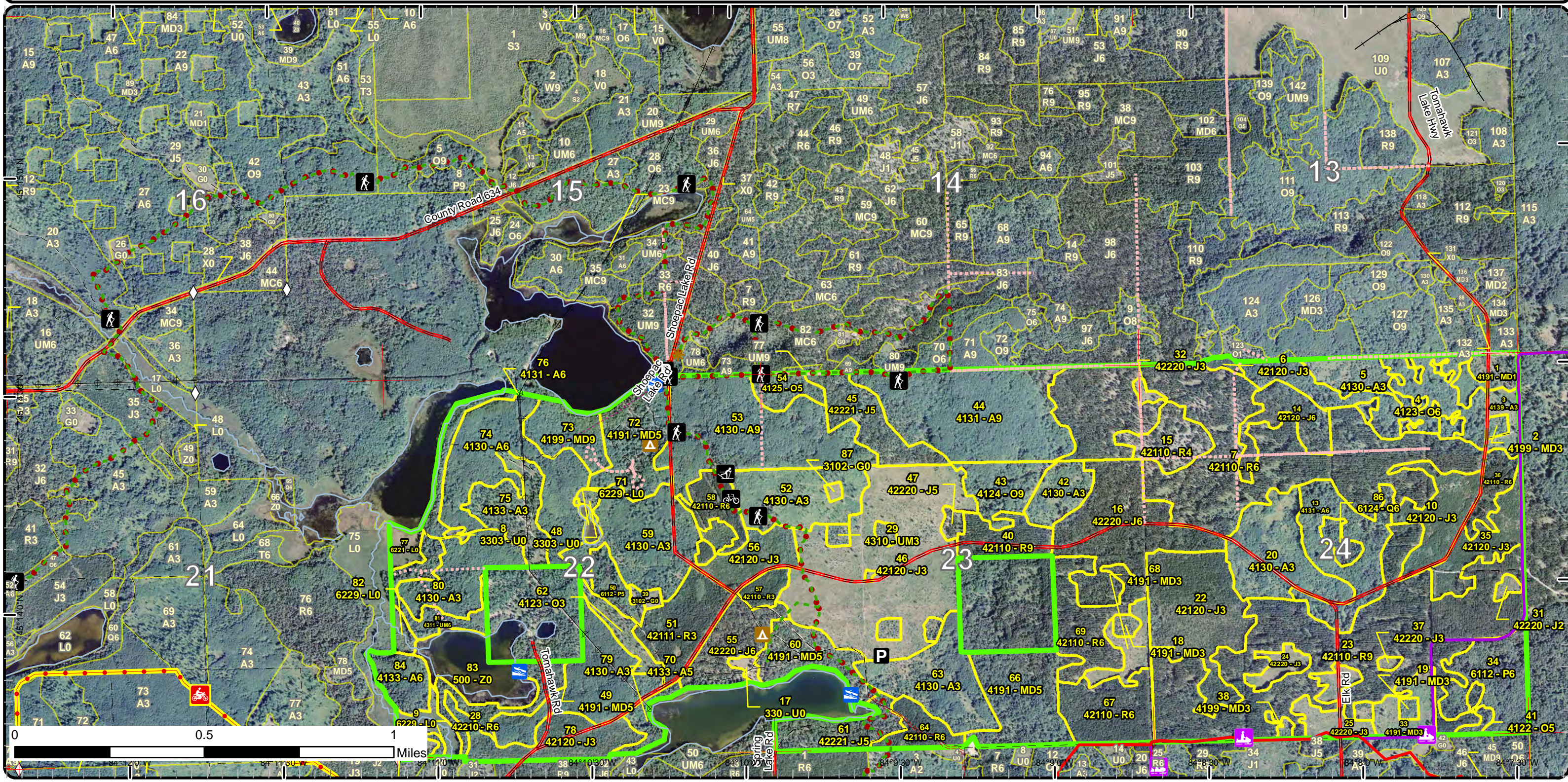


Stand Boundary Map

Compartment: 123
 T33N, R02E, Sec: 22 - 24
 County: Presque Isle
 Unit: Atlanta
 Mgmt Area: Cheboygan Basin
 Moraines
 YOE: 2018
 Acres: 1,731 GIS Calculated
 Examiner: Chad Fate
 Map Revised: 10/6/2016
 Map Phase: Post Review

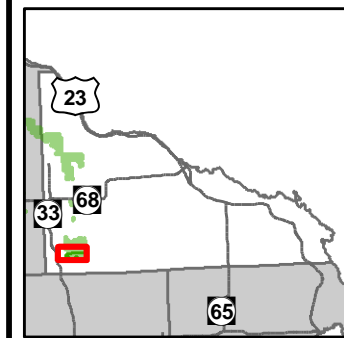


- Miris Corners
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- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Paved Roads
- County Gravel Roads
- - Poor Dirt Roads
- - - County Poor Dirt Roads
- - - Trail (Non-Recreation)
- - - Closed Roads
- Railroads
- Rivers
- Pipeline
- ⊕ Powerline
- ▭ Compartment Boundary
- ▭ Stand Boundaries
- 412 - Oak Types
- 413 - Aspen Types
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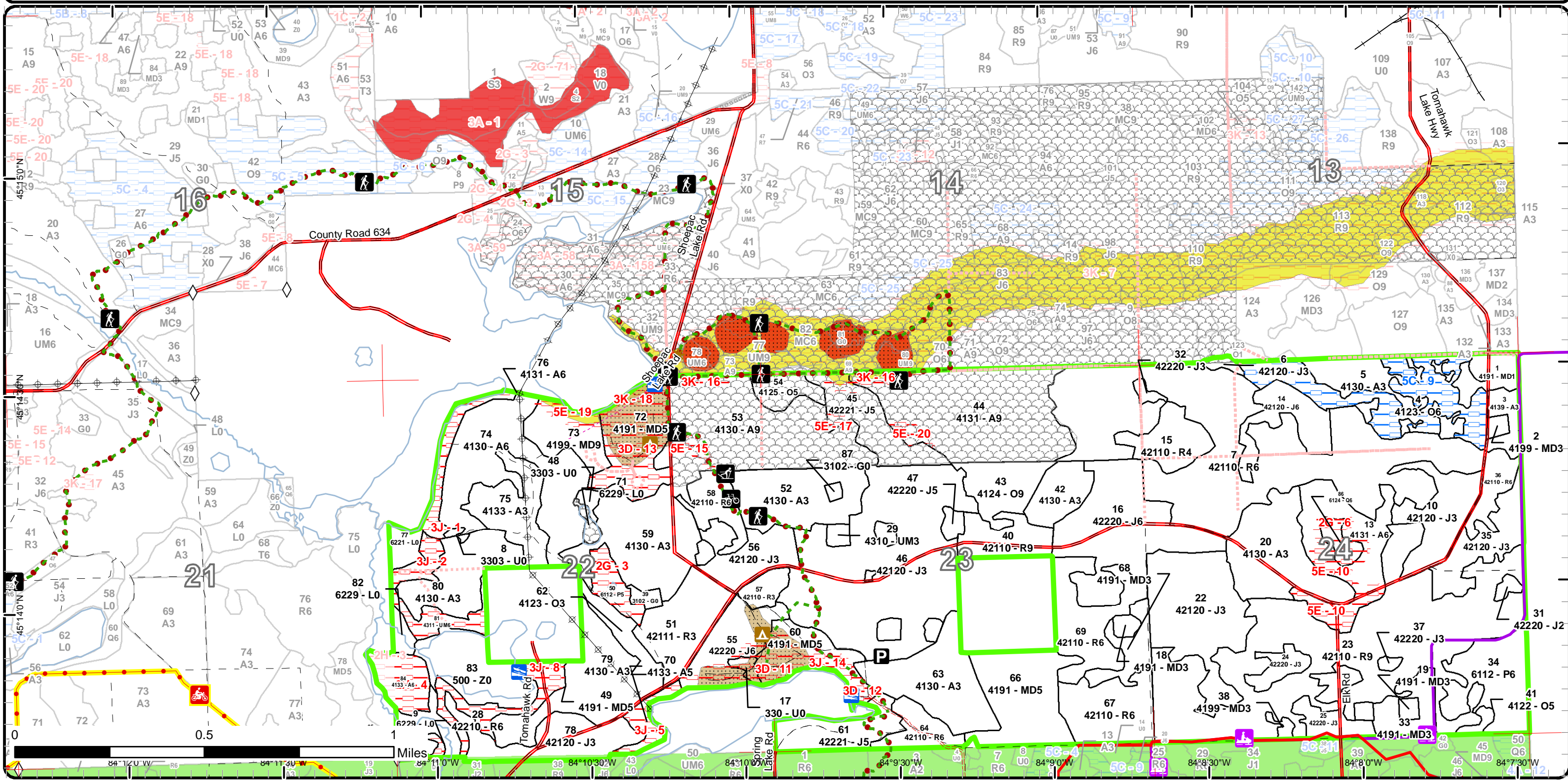


Special Conservation Areas & Site Conditions Map

Compartment: 123
 T33N, R02E, Sec: 22 - 24
 County: Presque Isle
 Unit: Atlanta
 Mgmt Area: Cheboygan Basin
 Moraines
 YOE: 2018
 Acres: 1,731 GIS Calculated
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 Map Phase: Post Review



- Miris Corners
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- Closed Roads
- Railroads
- Rivers
- Pipeline
- Powerline
- Compartment Boundary
- SCA
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 3K: Rare or unique landforms
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Kirtland Warbler Habitat
- Cold Water Streams
- State Forest Campground
- Limestone or Dolomite



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	61	139	123	0	0	0	0	16	186	0	0	0	0	0	0	0	0	525
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	128	92	48	0	21	70	0	44	0	0	0	0	0	0	0	0	0	403
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Aspen/Balsam Poplar	0	0	0	0	28	0	0	9	0	0	0	0	0	0	0	0	0	0	37
Lowland Conifers	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Lowland Shrub	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Mixed Upland Deciduous	0	23	16	0	0	0	0	65	52	0	0	0	0	0	0	0	0	0	156
Oak	0	9	0	0	0	0	2	9	57	0	0	0	0	0	0	0	0	0	76
Red Pine	0	0	0	32	0	35	383	0	0	2	0	0	0	0	0	0	0	0	451
Upland Mixed Forest	0	3	8	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	26
Water	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Total	52	224	255	203	28	56	455	9	134	302	15	0	0	0	0	0	0	0	1731



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 123

Total Compartment Acres: 1,731

Commercial Harvest - 388
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	143	0	0	0	0	0	0	0	0	143
Jack Pine	84	0	0	0	0	0	0	0	0	84
Mixed Upland Deciduous	47	0	0	0	0	0	0	0	0	47
Oak	17	0	0	0	0	0	0	0	0	17
Red Pine	46	0	0	0	0	51	0	0	0	97
Total	338	0	0	0	0	51	0	0	0	388

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	388	0	0	0	0	0	0	5		394
Next Step	0	60	60	0	0	60	397	0	0	577
Total	388	60	60	0	0	60	397	0	5	971



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	Approval Status
9	54120009-CCR	3.6	4125 - Black, N. Pin Oak	Sawtimber Medium	82	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Specs: CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and may include areas with pre-existing site conditions. Cut with sale to south in Compartment 123. Protect oak regeneration. Use Atlanta grouse spec. 5.2.4.4.

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

Acceptable Regen: Acceptable regeneration is any combination of pine, oak, maple, or aspen.

Other Comment:

Proposed Start Date: 10/01/2017

38	54120038-CCR	42.9	42140 - Planted Mixed Pine	Sawtimber Well	78	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Specs: CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species mix as a whole. Tops must be chipped within 3 months of the parent stem's severance from the stump. Re-plant red pine.

Next Step Treatments: Planting, Initial Plant; SitePrep, Trenching; Planting, Initial Plant; Pesticide, Aerial; Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration is any combination of red pine, white pine, oak, Jack pine, or aspen, resulting in a medium or well stocked stand incontrovertibly dominated by unsuppressed red pine.

Other Comment: Site prep may require thermal, chemical or mechanical methods.

Proposed Start Date: 10/01/2016

71	54120071-CCR	7.8	4130 - Aspen	Sawtimber Well	82	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Specs: CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and may include areas with pre-existing site conditions. Cut with sale to south in Compartment 123. Use Atlanta grouse spec. 5.2.4.4.

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

Acceptable Regen: Acceptable regeneration is any combination of pine, oak, maple, or aspen.

Other Comment: Use current, standard trail specs for safety and infrastructure protection.

Proposed Start Date: 10/01/2017

72	54120072-CCR	4.8	4125 - Black, N. Pin Oak	Sawtimber Well	82	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Specs: CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and may include areas with pre-existing site conditions. Cut with sale to south in Compartment 123. Use Atlanta grouse spec. 5.2.4.4.

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

Acceptable Regen: Acceptable regeneration is any combination of pine, oak, maple, or aspen.

Other Comment: Use current, standard trail specs for safety and infrastructure protection.

Proposed Start Date: 10/01/2017



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	Approval Status
74	54120074-CCR	1.2	4130 - Aspen	Sawtimber Well	82	Unspecified	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and may include areas with pre-existing site conditions. Cut with sale to south in Compartment 123. Protect oak regeneration. Use Atlanta grouse spec. 5.2.4.4.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Acceptable regeneration is any combination of pine, oak, maple, or aspen.

Other Comment:

Proposed Start Date: 10/01/2017

75	54120075-CCR	0.8	4125 - Black, N. Pin Oak	Poetimber Well	82	1-50	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and may include areas with pre-existing site conditions. Cut with sale to south in Compartment 123. Protect oak regeneration. Use Atlanta grouse spec. 5.2.4.4.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Acceptable regeneration is any combination of pine, oak, maple, or aspen.

Other Comment:

Proposed Start Date: 10/01/2017

93	54120093-CCR	3.7	42110 - Planted Red Pine	Sawtimber Well	75	111-140	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species mix as a whole. Tops must be chipped within 3 months of the parent stem's severance from the stump. Re-plant red pine.

Next Step Planting, Initial Plant; SitePrep, Trenching; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration is any combination of red pine, white pine, oak, Jack pine, or aspen, resulting in a medium or well stocked stand incontrovertibly dominated by unsuppressed red pine.

Other Comment: Site prep may require thermal, chemical or mechanical methods.

Proposed Start Date: 10/01/2016

95	54120095-CCR	6.8	42110 - Planted Red Pine	Sawtimber Well	78	111-140	Harvest	Clearcut with Retention	4221 - Natural Red Pine	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species mix as a whole. Tops must be chipped within 3 months of the parent stem's severance from the stump. Re-plant red pine. TMS may exclude any areas of high oak regeneration.

Next Step Planting, Initial Plant; SitePrep, Trenching; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration is any combination of red pine, white pine, oak, Jack pine, or aspen, resulting in a medium or well stocked stand incontrovertibly dominated by unsuppressed red pine. EXCEPTION: excluded areas of oak.

Other Comment: Site prep may require thermal, chemical or mechanical methods.

Proposed Start Date: 10/01/2016



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	Approval Status
97	54120097-CCR	11.2	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	70	Unspecified	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Specs: CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and may include areas with pre-existing site conditions. Cut with sale to south in Compartment 123.

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

Acceptable Regen: Acceptable regeneration is any combination of pine, oak, maple, or aspen.

Other Comment:

Proposed Start Date: 10/01/2016

98	54120098-CCR	24.3	42220 - Natural Jack Pine	Poletimber Well	75	Unspecified	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Specs: CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and may include areas with pre-existing site conditions. Cut with sale to south in Compartment 123. Protect oak regeneration.

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

Acceptable Regen: Acceptable regeneration is any combination of pine, oak, maple, or aspen.

Other Comment:

Proposed Start Date: 10/01/2016

101	54120101-CCR	5.2	42220 - Natural Jack Pine	Poletimber Medium	75	Unspecified	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Specs: CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species mix as a whole. Tops must be chipped within 3 months of the parent stem's severance from the stump. Plant red pine.

Next Step Treatments: Planting, Initial Plant; SitePrep, Trenching; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration is any combination of red pine, white pine, oak, Jack pine, or aspen, resulting in a medium or well stocked stand incontrovertibly dominated by unsuppressed red pine.

Other Comment: Site prep may require thermal, chemical or mechanical methods.

Proposed Start Date: 10/01/2016

103	54120103-CCR	51.5	42110 - Planted Red Pine	Sawtimber Well	78	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Specs: CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and may include areas with pre-existing site conditions. Tops must be chipped within 3 months of the parent stem's severance from the stump. Re-plant red pine. TMS may exclude areas of high oak regeneration.

Next Step Treatments: Planting, Initial Plant; SitePrep, Trenching; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration is any combination of red pine, white pine, oak, Jack pine, or aspen, resulting in a medium or well stocked stand incontrovertibly dominated by unsuppressed red pine. EXCEPTION: excluded areas of oak.

Other Comment:

Proposed Start Date: 10/01/2016



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	Approval Status
110	54120110-CCR	1.9	42110 - Planted Red Pine	Sawtimber Well	78	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription Specs:</u>			CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species mix as a whole. Tops must be chipped within 3 months of the parent stem's severance from the stump. Re-plant red pine.								
<u>Next Step Treatments:</u>			Planting, Initial Plant; SitePrep, Trenching; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)								
<u>Acceptable Regen:</u>			Acceptable regeneration is any combination of red pine, white pine, oak, Jack pine, or aspen, resulting in a medium or well stocked stand incontrovertibly dominated by unsuppressed red pine.								
<u>Other Comment:</u>			Site prep may require thermal, chemical or mechanical methods.								
<u>Proposed Start Date:</u>			10/01/2016								
112	54120112-CCR	12.3	42110 - Planted Red Pine	Sawtimber Well	78	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription Specs:</u>			CCR. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and may include areas with pre-existing site conditions. Tops must be chipped within 3 months of the parent stem's severance from the stump. Re-plant red pine.								
<u>Next Step Treatments:</u>			Planting, Initial Plant; SitePrep, Trenching; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)								
<u>Acceptable Regen:</u>			Acceptable regeneration is any combination of red pine, white pine, oak, Jack pine, or aspen, resulting in a medium or well stocked stand incontrovertibly dominated by unsuppressed red pine.								
<u>Other Comment:</u>			Site prep may require thermal, chemical or mechanical methods.								
<u>Proposed Start Date:</u>			10/01/2016								
7	54123007-Cut	30.1	42110 - Planted Red Pine	Poletimber Well	57	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription Specs:</u>			Clearcut, leave retention in an area that will not affect any follow up treatments. Cut all trees 2" DBH and larger, chip tops, low stumps, replant red pine.								
<u>Next Step Treatments:</u>			SitePrep, Trenching; Planting, Initial Plant; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)								
<u>Acceptable Regen:</u>			fully stocked stand of planted red pine, natural oak and jack pine may also be present.								
<u>Other Comment:</u>											
<u>Proposed Start Date:</u>			10/01/2017								
13	54123013-Cut	17.9	4131 - Aspen, Oak	Poletimber Well	80	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription Specs:</u>			Clearcut, retention is already excluded from the treatment boundary and vernal ponds are buffered. If any additional vernal ponds are found, paint a 100' buffer around them and protect them from any damage.								
<u>Next Step Treatments:</u>			Monitoring, Natural Regen (Re-Inventory)								
<u>Acceptable Regen:</u>			medium to well stocked stand of aspen and oak with a mix of red maple and mixed pine.								
<u>Other Comment:</u>											
<u>Proposed Start Date:</u>			10/01/2017								



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	Approval Status
14	54123014-Cut	17.5	42120 - Planted Jack Pine	Poletimber Well	51	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription clearcut, cut all trees 2" DBH and larger.Specs:Next Step Monitoring, Natural Regen (Re-Inventry)Treatments:Acceptable medium to well stocked stand of natural jack pine with a mix of aspen, oak, and/or red pine.Regen:OtherComment:Proposed Start Date: 10/01/2017

15	54123015-Cut	16.0	42110 - Planted Red Pine	Poletimber Poor	58	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription clearcut and replant to red pine. chip tops and low stumps.Specs:Next Step SitePrep, Trenching; Planting, Initial Plant; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)Treatments:Acceptable fully stocked red pine standRegen:Other

open grown trees

Comment:Proposed Start Date: 10/01/2017

16	54123016-Cut	52.2	42220 - Natural Jack Pine	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Clearcut, leave retention around pockets of younger jack pine. cut all trees 2" dbh and largerSpecs:Next Step Monitoring, Natural Regen (Re-Inventry)Treatments:Acceptable medium to well stocked stand of jack pine with a mix of oak, aspen, and/or red pineRegen:OtherComment:Proposed Start Date: 10/01/2017

39	54123039-NF	2.3	3102 - Grass	Nonstocked	Unspec ified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland			Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Opening will be maintained on a rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.Specs:Next StepTreatments:AcceptableRegen:Other

If access is possible

Comment:Proposed Start Date: 10/01/2017



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	Approval Status
43	54123043-Cut	17.3	4124 - Red with White Oak	Sawtimber Well	82	81-110	Harvest	Clearcut with Retention	4124 - Red with White Oak	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut, leave 3-10% retention. place retention island around oaks with more developed crowns. Cut all trees 2" DBH and larger.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable A mix of red and white oak along with aspen and jack pine. medium to fully stocked stand

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

44	54123044-Cut	62.9	4131 - Aspen, Oak	Sawtimber Well	82	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut, the sink holes, hiking trails, and slopes have been excluded from the treatment for visual and BMP management, retention has also been

Specs: excluded from the treatment. cut all trees 2" DBH and larger. Use grouse log specs.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium to well stocked stand of aspen and oak with a mix of jack pine and/or red pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

45	54123045-Cut	17.5	42221 - Natural Jack Pine, Mixed Deciduous	Poetimber Medium	73	51-80	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut, sink hole slopes, hiking trails, and retention have already been excluded from the treatment. Cut everything 2" DBH and larger.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium to fully stocked stand of a mix of jack pine, oak, and aspen.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

48	54123048-NF	1.9	3303 - Mixed Low Density Trees	Nonstocked			NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Opening will be maintained on a rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



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	Approval Status
53	54123053-Cut	62.5	4130 - Aspen	Sawtimber Well	82	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut, sink holes area and slopes have been excluded from the treatment for visual and BMP management. Retention is excluded along the west side of the High Country Pathway for visual management. Use appropriate trail specs, Use grouse log specs.

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Medium to fully stoked stand of aspen with a mix of oak, and pine.

Other Comment:

Proposed Start Date: 10/01/2017

55	54123055-Cut	13.8	42220 - Natural Jack Pine	Poletimber Well	71	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription clearcut, cut all trees 2"DBH and larger. Retention is already excluded in and around the campground.

Next Step SitePrep, Trenching; Planting, Initial Plant; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: fully stocked stand of planted red pine with a mix of natural oak, aspen, and/or jack pine.

Other Comment:

Proposed Start Date: 10/01/2017

58	54123058-Cut	13.9	42110 - Planted Red Pine	Poletimber Well	48	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription 3rd row thin. Measure rows to ensure enough width for equipment. If it is too narrow, remove 2 rows and leave 3. If 2 rows need to be removed, mark to thin the remaining rows to release larger canopy trees within. Protect High Country Pathway.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2017

64	54123064-Cut	11.3	42110 - Planted Red Pine	Poletimber Well	49	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription 3rd row thin. Measure rows to ensure enough width for equipment. If it is too narrow, remove 2 rows and leave 3. If 2 rows need to be removed, mark to thin the remaining rows to release larger canopy trees within. Protect High Country Pathway and ORV trail.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2017



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	Approval Status
66	54123066-Cut	34.9	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	81	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut, leave 3-10% retention in an island along the north end of the stand for visual. Use trail specs for hauling.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A medium to fully stocked stand with a mix of aspen, oak, and jack pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

67	54123067-Cut	25.5	42110 - Planted Red Pine	Poletimber Well	57	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription 3rd row thin. Measure rows to ensure enough width for equipment. If it is too narrow, remove 2 rows and leave 3. If 2 rows need to be removed,

Specs: mark to thin the remaining rows to release larger canopy trees within. Use trail specs for hauling.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

73	54123073-Cut	12.4	4199 - Other Mixed Upland Deciduous	Sawtimber Well	82	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut, Retention is along Shoepac Lake to protect slopes and for BMP and visual management. Cut all trees 2" and larger. There is a non-rec trail

Specs: that people use to hike between the lakes, protect this trail with trail specs. Access and haul to the southwest, do not haul through the camp ground to the east. Use grouse log specs.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium to fully stocked stand of aspen and oak with a mix of white pine, jack pine, and/or red maple.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

87	54123087-NF	1.1	3102 - Grass	Nonstocked	Unspecified	NonForestMgt	Herbaceous/Crop/Grass Planting	310 - Herbaceous Openland			Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Opening will be maintained on a rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other if access is possible

Comment:

Proposed Start Date: 10/01/2017

**Total Treatment
Acreage Proposed: 589.0**

Report 4 – Site Conditions

Atlanta Mgt. Unit
Chad Fate : Examiner

Compartment: 123
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions							
		With Condition			5C	2G	2H	3D	3J	3K	5E	
525	466	0		59	Aspen		10	12		16	7	13
3	3	0		0	Herbaceous Openland							
402	390	0		12	Jack Pine				8		3	1
5	3	0		2	Low-Density Trees				2			
37	28	0		9	Lowland Aspen/Balsam Poplar		9					
5	0	0		5	Lowland Conifers		5					
19	19	0		0	Lowland Shrub							
156	92	0		64	Mixed Upland Deciduous				36	19	5	5
76	36	40		1	Oak	40					1	
451	449	0		2	Red Pine					2		
26	12	0		14	Upland Mixed Forest					14		
26	26	0		0	Water							
1,731	1,524	40		168	Total Forested Acres	40	24	12	47	51	15	20
	88%	2%		10%	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	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Chad Fate : Examiner

Compartment: 123
Year of Entry: 2018

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Chad Fate : Examiner

Compartment: 123
Year of Entry: 2018

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3D: Recreational / Scenic values	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: State Forest Campground							
12	Unavailable	3D: Recreational / Scenic values	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: water access/boat launch							
13	Unavailable	3D: Recreational / Scenic values	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: State Forest Campground and boat launch							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	2F: Too steep	3D: Recreational / Scenic values	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Chad Fate : Examiner

Compartment: 123
Year of Entry: 2018

16	Unavailable	3K: Rare or unique landforms	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Karst area. Sinkholes, limestone fractures, shearing/collapsing soil, plus 100 foot buffer.							
17	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3K: Rare or unique landforms	5	3J: Water quality / BMPs (stream, river, or lake)	3D: Recreational / Scenic values	Unspecified	Unspecified
Comments: State Forest Campground and boat launch Karst area. Sinkholes, plus 100 foot buffer.							
19	Unavailable	5E: Long-Term Retention	5	3J: Water quality / BMPs (stream, river, or lake)	3K: Rare or unique landforms	3D: Recreational / Scenic values	Unspecified
Comments: State Forest Campground and boat launch. Karst area. Sinkholes, shearing/collapsing soil, plus 100 foot buffer.							
20	Unavailable	5E: Long-Term Retention	3	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
Comments	Potential Old Growth		SCA Removal	2
Comments	Potential Old Growth		SCA Removal	166
Shoepac Lake Campground Comments boat launch, day use area	Concentrated Recreation Area	State Forest Campground	Proposed SCA	19
Tomahawk Lake Campground Comments Tomahawk Lake Campground	Concentrated Recreation Area	State Forest Campground	Proposed SCA	18

**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
HCVA	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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	7.1	14	Immature	OPIIC - FMD: OI Stand Year Origin was
2	4199 - Other Mixed Upland Deciduous	Sapling Well	1.9	16	Immature	5 spots cut 2000, sale 19-98
3	4139 - Aspen, Mixed Deciduous	Sapling Well	7.5	7	Immature	54-013-08-01- clearcut in 2009
4	4123 - Red Oak	Poletimber Well	39.6	84	111-140	
5	4130 - Aspen	Sapling Well	22.4	14	Immature	CLEAR-CUT 2002, sale 016-98. Motorized vehicles prohibited by Director's Order.
6	42120 - Planted Jack Pine	Sapling Well	1.9	17	Immature	this stand was cut with the stand to the north in compartment 120.
7	42110 - Planted Red Pine	Poletimber Well	149.2	57	111-140	Thinned 2008. variable BA from 70-150.
10	42120 - Planted Jack Pine	Sapling Well	22.8	16	Immature	CLEAR-CUT, 1999. planted in 2000
13	4131 - Aspen, Oak	Poletimber Well	34.9	80	81-110	
14	42120 - Planted Jack Pine	Poletimber Well	17.5	51	51-80	
15	42110 - Planted Red Pine	Poletimber Poor	16.0	58	1-50	open grown and scattered red pine
16	42220 - Natural Jack Pine	Poletimber Well	52.2	55	81-110	stand is mostly 55 yrs old with pockets of trees as old as 79 yrs old
18	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	2.3	16	Immature	One 2-acre 5-spot cut 2000, sale 19-98.
19	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	3.3	16	Immature	2 spots cut in 2000
20	4130 - Aspen	Sapling Well	36.6	14	Immature	Cut 2002, sale 106-98.
22	42120 - Planted Jack Pine	Sapling Well	47.6	24	Immature	Stand planted in 1992. small pocket of pole size oak and aspen on west side of the stand.
23	42110 - Planted Red Pine	Sawtimber Well	148.9	57	111-140	3RD ROW thinned, 2005.
24	42220 - Natural Jack Pine	Sapling Well	6.5	7	Immature	54-013-08-01- treated 2009. Very high density jack pine regeneration.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42220 - Natural Jack Pine	Sapling Well	13.6	7	Immature	54-013-08-01- treated 2009. Very high density jack pine regeneration.
42210 - Natural Red Pine	Poletimber Well	1.8	86	111-140	steep buffer along L0 type
4310 - Pine, Oak Mix	Sapling Well	8.4	16	Immature	5 spots cut in 2000 sale # 19-98
42220 - Natural Jack Pine	Sapling Medium	1.9	11	Immature	pocket cut in 2005
42220 - Natural Jack Pine	Sapling Well	1.8	8	Immature	
4191 - Mixed Upland Deciduous with Conifer	Sapling Well	12.2	7	Immature	54-013-08-01- treated 2009
6112 - Lowland Aspen	Poletimber Well	28.3	36	Unspecified	CUT IN 1980 ON CONTRACT 140-78. mostly pole size with pockets of sapling size through out. Mostly aspen on the west side and more mixed with fir on the east side.
42120 - Planted Jack Pine	Sapling Well	19.9	16	Immature	CLEAR-CUT in 1999, planted in 2000
42110 - Planted Red Pine	Poletimber Well	9.7	48	111-140	3RD ROW THINNING. Thinned 2008.
42220 - Natural Jack Pine	Sapling Well	1.2	7	Immature	
4199 - Other Mixed Upland Deciduous	Sapling Well	1.6	11	Immature	cut in 2005
42110 - Planted Red Pine	Sawtimber Well	15.3	57	111-140	Thinned 2008.
4122 - Oak, Pine	Poletimber Medium	2.2	58	51-80	
4130 - Aspen	Sapling Well	13.2	14	Immature	CLEAR-CUT 2002, sale 016-98.
4124 - Red with White Oak	Sawtimber Well	17.3	82	81-110	
4131 - Aspen, Oak	Sawtimber Well	70.3	82	81-110	more aspen to the north, more oak to the south
42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	21.9	73	51-80	

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Report 7 – Forested Stands

Compartment: 123
Year of Entry: 2018

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	42120 - Planted Jack Pine	Sapling Well	105.2	6	Immature	Harvested 2008, 50-011-08-01, Tomahawk Combo Block. 6/7/2010 - Variance received - natural regeneration failed, changed to planting jack pine.
47	42220 - Natural Jack Pine	Poletimber Medium	2.7	46	1-50	
49	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	14.4	77	51-80	LITTLE TOMAHAWK PUBLIC ACCESS SITE and lake buffer
50	6112 - Lowland Aspen	Poletimber Medium	8.8	65	1-50	Drainage channel. multiple age including old red pine and young aspen
51	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	25.8	28	Immature	PLANTED RP 1988
52	4130 - Aspen	Sapling Well	31.2	7	Immature	Harvested 2008, 50-011-08-01, Tomahawk Combo Block. 6/7/2010
53	4130 - Aspen	Sawtimber Well	68.6	82	111-140	
54	4125 - Black, N. Pin Oak	Poletimber Medium	8.5	76	1-50	
55	42220 - Natural Jack Pine	Poletimber Well	22.0	71	81-110	mature jack pine
56	42120 - Planted Jack Pine	Sapling Well	19.2	15	Immature	CLEAR-CUT 1999. Replanted 2001
57	42110 - Planted Red Pine	Sapling Well	6.0	28	Immature	PLANTED RP 1988
58	42110 - Planted Red Pine	Poletimber Well	13.9	48	141-170	
59	4130 - Aspen	Sapling Well	40.7	14	Immature	Left OAK OVER 12 IN. DBH. Cut 2002, sale 016-98.
60	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	21.0	76	51-80	TOMAHAWK LAKE CAMPGROUND AND BOAT LAUNCH. steep slopes around the lake. high country pathway
61	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	18.4	45	51-80	
62	4123 - Red Oak	Sapling Well	8.8	6	Immature	54-021-08-01- clearcut 2010. some mature red and white pine
63	4130 - Aspen	Sapling Well	34.1	27	Immature	HIGH COUNTRY PATHWAY.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
64	42110 - Planted Red Pine	Poletimber Well	11.3	49	141-170	Stand Year Origin was 1967
66	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	34.9	81	81-110	
67	42110 - Planted Red Pine	Poletimber Well	25.5	57	141-170	
68	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	10.4	7	Immature	54-013-08-01- treated 2009
69	42110 - Planted Red Pine	Poletimber Well	27.6	57	111-140	Thinned 2008. variable BA ranging from 80-140
70	4133 - Aspen, Mixed Pine	Poletimber Medium	7.0	76	51-80	Buffer between Tomahawk Lake Road and Tomahawk Lake.
72	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	29.8	76	51-80	Shoepac Lake Campground. multiple age stand
73	4199 - Other Mixed Upland Deciduous	Sawtimber Well	17.2	82	81-110	INCLUDES TWO CLOSED LOOPS AT SHOEPAC LAKE.
74	4130 - Aspen	Poletimber Well	52.1	26	Immature	Stand Year Origin was 1990
75	4133 - Aspen, Mixed Pine	Sapling Well	21.9	6	Immature	54-021-08-01- treated 2010
76	4131 - Aspen, Oak	Poletimber Well	9.2	77	81-110	FRANCIS LAKE BUFFER. CONVERTING TO WP.
78	42120 - Planted Jack Pine	Sapling Well	26.0	16	Immature	CLEAR-CUT 1999. planted in 2000. lots of natural regeneration with it.
79	4130 - Aspen	Sapling Well	36.7	28	Immature	cut in 1988
80	4130 - Aspen	Sapling Well	26.1	14	Immature	Left WHITE PINE. Cut 2002, Sale 016-98
81	4311 - Pine, Aspen Mix	Poletimber Well	14.6	94	111-140	Lake frontage on little Tomahawk Lake.
84	4133 - Aspen, Mixed Pine	Poletimber Well	12.4	80	81-110	Island surrounded by beaver flooding. No access, insufficient acreage after water is buffered and slope is taken out. Mostly pine along the edge on the slopes with aspen/oak in the center.
85	4310 - Pine, Oak Mix	Sapling Medium	3.2	8	Immature	
86	6124 - Lowland Spruce-Fir	Poletimber Well	4.8	80	Unspecified	Lowland vernal pond with standing water.



Stand	Cover Type	Acres	Managed Site	General Comments:
8	3303 - Mixed Low Density Trees	0.9	No	
9	6229 - Mixed lowland shrub	7.7	No	OPIC - FMD: Little Tomahawk Lake and flooded portion of Tomahawk Creek.
17	330 - Low-Density Trees	2.2	No	TOMAHAWK LAKE CAMPGROUND
39	3102 - Grass	2.3	No	OPIC - FMD: OLD WELL SITE AND ADJACENT NATURAL OPENING.
48	3303 - Mixed Low Density Trees	1.9	No	scattered white pine, jack pine, and oak
71	6229 - Mixed lowland shrub	2.2	No	
77	6221 - Fen	5.3	No	OPIC - FMD: Tomahawk Creek.
82	6229 - Mixed lowland shrub	3.4	No	OPIC - FMD: Tomahawk Creek.
83	500 - Water	25.8	No	OPIC - FMD: Little Tomahawk Lake and flooded portion of Tomahawk Creek.
87	3102 - Grass	1.1	No	Gas Well