



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54072

Entry Year 2021

Acreage: 1,258

County Montmorency

Management Area: Thunder Bay Outwash

Revision Date: 2019-04-05

Stand Examiner: Daniel Natzke

Legal Description:

T32N, R03E, Sec. 29 & 30

Identified Planning Goals:

Management goals include balancing aspen and red pine age classes and sustainably regenerating oak to enhance wildlife habitat and recreational uses.

Soil and topography:

Compartment 72 features flat to gently rolling topography with relatively few rolling to steep slopes. The compartments soils are chiefly of the Millerburg-Klacking-Horsehead Association with a few inclusions of the Rubicon-Grayling-Tawas Association. In general, loamy-sand and sands make up most of the uplands. The loamy-sands seem particularly productive forest land, especially for hardwoods. Generally, the water table on these sites is greater than six feet below the surface but some soil types have a seasonally perched water table. Between upland lobes, mucky and poorly drained stringers undergird the swamps, drainages and stream courses. Kotar habitat types that dominate this stand are PArVHa/b and lowland types. There is a limited amount of AFO in the compartment's northeast and northwest corners.

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

State ownership surrounds most of the compartment. There is a large area of private landholdings just to the south of the compartment and a smaller parcel, about 40 acres on the northern boundary.

Unique Natural Features:

One or more occurrences of unique natural features have been reported for this compartment.

Archeological, Historical, and Cultural Features:

There are no known archaeological, historical and cultural features within the compartment.

Special Management Designations or Considerations:

There are no special management designations or considerations.

Watershed and Fisheries Considerations:

Rush Lake lies in the compartment's east.

Wildlife Habitat Considerations:

The primary focus of wildlife habitat management will be to address the habitat requirements identified for the listed featured species found in this compartment. These species include ruffed grouse, black bear, wild turkey, and white-tailed deer. Based on the selected featured species, some of the most significant wildlife management issues in the management area are the maintenance of young forest, the retention of large, over-mature trees and snags and the maintenance and expansion of hard mast and mesic conifer components.

Mineral Resource and Development Concerns and/or Restrictions

No active sand/gravel operations are located nearby. There appears to be sand & gravel potential within the compartment, but a shallow water table and wetlands in the area would limit surface development. The compartment is outside of the current extent of Antrim Shale gas development, and there are no active leases. The Antrim Shale is thin here and disappears north of the compartment, which limits hydrocarbon potential. Oil & gas potential is considered low for the compartment at this time. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Vehicle access is very good along the compartment's western and southern boundaries from County Road 628 and Michabo Trail respectively. Secondary forest roads and forest access routes proved access to northern central and northern portions.

Survey Needs:

The compartment seems to have adequate survey monument documentation and evidence of monumentation in the field at the time of examination.

Recreational Facilities and Opportunities:

ORV trail. Fishing on Rush Lake.

Fire Protection:

Tri-township and Hillman volunteer fire departments along with Atlanta and Onaway DNR task forces would respond to fires in the area.

Additional Compartment Information:

Frequent fire shaped the forested landscape we see today, supporting the growth of natural pine and oak stands in the area. Indeed, large fire-scarred pine and cedar stumps are a common sight in many stands. Current cover types in this compartment include aspen, northern hardwoods, red oak, natural red and white pine, lowland aspen, lowland hardwood, lowland conifer and northern white cedar as well as grass openings, marsh, emergent wetlands, streams and lakes.

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**

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	9	0	36	202	26	18	23	6	0	0	0	0	0	0	0	0	0	319
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	11	49	0	1	0	0	61
Herbaceous Openland	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	0	0	25	34	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Lowland Deciduous	0	0	0	9	0	0	0	53	0	0	0	0	0	0	0	0	0	0	61
Lowland Mixed Forest	0	0	0	0	80	15	0	0	0	0	0	0	0	0	0	0	0	0	95
Lowland Shrub	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Marsh	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Mixed Upland Deciduous	0	0	0	18	0	0	3	0	7	15	13	0	0	0	0	0	0	0	54
Natural Mixed Pines	0	0	0	7	0	0	0	31	7	20	0	0	0	0	0	0	0	0	64
Northern Hardwood	0	0	0	0	0	0	0	0	0	63	172	0	0	0	0	0	0	0	235
Upland Conifers	0	0	0	2	0	27	0	0	0	0	0	0	0	0	0	0	0	0	29
Upland Mixed Forest	0	0	0	7	14	20	0	0	27	0	18	16	0	0	0	0	0	0	102
Water	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Total	175	9	0	104	330	88	21	107	47	98	203	16	11	49	0	1	0	0	1253



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 72

Year of Entry: 2021

Acres of Harvest

Total Compartment Acres: 1,258

Commercial Harvest - 202
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 4

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	75	0	0	0	0	0	0	0	0	75
Mixed Upland Deciduous	28	0	0	0	0	0	0	0	0	28
Northern Hardwood	79	0	0	0	0	0	21	0	0	100
Upland Mixed Forest	4	0	0	0	0	0	0	0	0	4
Total	186	0	0	0	0	0	21	0	0	206

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	206	0	0	0	0	25	0	20	0	251
Next Step	0	92	46	0	46	252	0	0	0	437
Total	206	92	46	0	46	277	0	20	0	688



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
1	54072001-NF	2.5	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal

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

Comment:

Proposed Start Date: 10/1 /2020

2	54072004-Cut- SBW	19.1	4119 - Mixed Northern Hardwoods	Sawtimber Medium	90	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut, leave 3-10% retention. This treatment is part of the spruce budworm efforts, include SBW in the sale name.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable medium to well stocked stand of aspen, fir, red maple, and birch.

Regen:

Other

Comment:

Proposed Start Date: 4 /1 /2016

7	54072005-Cut	4.2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	88	81-110	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
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Habitat Cut: Yes**Site Condition:**

Prescription Clearcut without retention. Leave all N.W. Cedar and Hemlock, if present.

Specs:

Next Step

; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of aspen, maple, oak, red pine, white pine, spruce and balsam fir yielding a medium to well stocked stand.

Regen:

Other

Percent to Treat = 100%

Comment:

Proposed Start Date: 8 /10/2019

8	54072008-NF	1.0	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal
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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

Comment:

Proposed Start Date: 10/1 /2020



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	54072009-Cut	4.3	4319 - Mixed Upland Forest	Poletimber Well	41	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Clearcut without retention owing to the stand's small size. Rabbit each three chains along the wetland edge (a tree root-sprung and pushed over with slash/tops piled on top creating a cavity for rabbits). Mark and retain legacy trees.
Specs: Protect these with designated-to-cut bumper trees. Grouse logs. 2" spec.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Any combination of aspen, maple, balsam fir and native pines yielding a medium to well stocked stand.

Regen:

Other Why leave this rump of a stand when the stand to the north and the west is most similar and also slated for harvest?

Comment:

Proposed Start Date: 10/1 /2020

11	54072011-Cut	46.2	4119 - Mixed Northern Hardwoods	Sawtimber Well	81	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with 3-10% retention. Retention is delineated on a hemlock grove. Cut stumps low, chip all tops. Access from the north is best (thru recent clearcut). Roller chop, herbicide, trench, plant red pine. Include red shoulder hawk specification 5.8.3

Next Step SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);

Treatments: Monitoring, Artificial Regen(3yr)

Acceptable A stand in which red pine irrefutably dominates with common deciduous and coniferous associates.

Regen:

Other red shoulder hawk observed in stand 11 near the southeast corner of the long term retention. The nest was blown out of the nest tree in 2003
Comment: with no further observations. Keep your eyes and ears open during sale prep.

Proposed Start Date: 10/1 /2020

11	54072011- Cutx	13.9	4119 - Mixed Northern Hardwoods	Sawtimber Well	81	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut without retention owing to the stand's narrowness. 2 inch shearing requirement. Leave all native pines exceeding 18"DBH unless

Specs: blocking reasonable access for harvest equipment.

Rabbitat: designate and root spring one tree every three chains along the wetland edge and place brush over it (consult with Wildlife Biologist). Exclusion of wet areas may reduce total harvestable acreage. Use reasonable operating caution to avoid rutting. Consider dry summer/frozen winter requirements and a three year contract.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration is any combination of maple, aspen, oak, spruce, balsam fir and native pines yielding a medium to well stocked stand.

Regen:

Other

Comment:

Proposed Start Date: 2 /28/2019

13	54072013-NF	1.7	310 - Herbaceous Openland	Nonstocked	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland			Approved Proposal
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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

Comment:

Proposed Start Date: 10/1 /2020

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
14 54072014-Cut	10.1	4199 - Other Mixed Upland Deciduous	Sawtimber Well	82	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Clearcut. Keep off the slope leading to the drainage. Retention is pre-excluded on this slope. 2" spec. Leave pine exceeding 18" and marked
Specs: pine (where present) not to exceed 4 trees per acre as individuals or clumps.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: Includes any combination of maple, aspen, oak, spruce, fir and native pines yielding a medium to well stocked stand

Other Comment:

Proposed Start Date: 10/1 /2020

15 54072015-Cut	11.8	4134 - Aspen, Spruce/Fir	Poletimber Well	60	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. Concentrate retention on the wettest areas, especially consider the swale in the east and portions of the swale in the center. Grouse logs. Rabbitat (one root sprung tree with tops placed over to form a cavity) every 3 chains along the wetland edge. 2" requirement is waived in the wet swale. This area will be indicated by an appropriately colored painted boundary. Harvest only under dry or frozen ground conditions. Oak wilt specs. Consider a three year contract. Retention may exceed 10% to exclude wet areas with fragile soils.

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

Acceptable Regen: Any combination of aspen, maple, oak, balsam fir and spruce yielding a medium to well stocked stand.

Other Comment:

Proposed Start Date: 10/1 /2020

17 54072017-NF	2.0	310 - Herbaceous Openland	Nonstocked	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal
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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 Comment:

Proposed Start Date: 10/1 /2020

18 54072018-NF	1.0	310 - Herbaceous Openland	Nonstocked	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal
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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 Comment:

Proposed Start Date: 10/1 /2020



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
25	54072025-NF	3.3	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal

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
Comment:

Proposed Start Date: 10/1 /2020

35	54072035-NF	1.2	310 - Herbaceous Openland	Nonstocked	0	Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal
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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
Comment:

Proposed Start Date: 10/1 /2020

39	54072039-Cut	13.4	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	95	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut without retention due to the stand's narrowness and small size. Mark to retain legacy trees and choicest white oak. Protect these trees with marked-to-cut bumper trees. Slope toward Michabo Trl is somewhat steep. Some consideration should be given to mitigate erosion. Oak wilt specs. 2" specs

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Any combination of aspen, maple, oak, balsam fir and native pines yielding a medium to well stocked stand.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

41	54072041-NF	1.6	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal
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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
Comment:

Proposed Start Date: 10/1 /2020



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
44	54072044-NF	1.5	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal

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

Comment:

Proposed Start Date: 10/1 /2020

45	54072045-Cut	20.5	4110 - Sugar Maple Association	Sawtimber Well	92	81-110	Harvest	Salvage	4112 - Maple, Beech, Cherry Association	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription -salvage-cut all ash and beech, except leave mast, scale resistant, or hollow wildlife beech (2-3 every 3-5 acres in clumps or scattered

Specs: individuals)-mark trees to cut as needed to fell large beech-recommend doing prep work with leaf-off to aid in painting and cruising

Next Step

Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable

-maple with basswood, ash, pine, fir, aspen, and beech associates of medium to full stocking-EXPECT heavy beech regen

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2016

48	54072048-NF	2.5	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal
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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

Comment:

Proposed Start Date: 10/1 /2020

51	54072051-Cut	62.7	4136 - Aspen, Mixed Conifer	Poletimber Well	38	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clear cut with retention. Locate 3-10% retention in wet areas and drainages while still representing the stand as a whole. It is acceptable if

Specs: retention exceeds 10% when it coincides with the previously mentioned wet areas. Grouse spec. Rabbit in the southwest, if not used for retention (One root-sprung and tipped tree with tops placed over for cover every 3 chains along the wetland edge). Operating caution to limit harvest to summer, fall and winter. 2" spec. Do not cut legacy or non-legacy leave marked trees (latter not to exceed 4 trees per acre). Protect leave trees with marked bumper trees. 3 year contract.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Any combination of aspen, maple, oak, native pines, balsam fir and spruces resulting in a medium to well stocked stand.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020



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
54	54072054-NF	1.8	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal

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
Comment:

Proposed Start Date: 10/1 /2020

56	54072056-Monitor	24.6	629 - Mixed non-forested wetland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	Approved Proposal
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Habitat Cut: No

Site Condition:

Prescription Search for trees.
Specs:

Next Step
Treatments:

Acceptable Any combination of native tree species yielding a stand of at least poor stocking.
Regen:

Other Objectives of previous monitoring failed. Changing monitoring goals as a part of compartment review process.
Comment:

Proposed Start Date: 10/1 /2028

58	54072058-NF	2.1	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal
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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
Comment:

Proposed Start Date: 10/1 /2020

60	54072060-NF	1.4	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Approved Proposal
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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
Comment:

Proposed Start Date: 10/1 /2020

Total Treatment Acreage Proposed: 254.4

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 72
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
321	264	55	2
61	13	0	48
24	24	0	0
3	3	0	0
59	59	0	0
62	49	0	13
95	78	0	17
42	42	0	0
59	59	0	0
55	52	0	3
65	37	27	0
235	231	0	4
29	0	29	0
103	82	19	2
46	46	0	0
1,258	1,040	129	89
	83%	10%	7%

Dominant Site Conditions

	Acres Available	With Condition	Not Available	Dominant Site Condition	Dominant Site Conditions								
					5B	5C	MC	2F	2G	3J	5A	5E	
321	264	55	2	Aspen	38	16			0				2
61	13	0	48	Cedar					38		10		
24	24	0	0	Herbaceous Openland	0								
3	3	0	0	Low-Density Trees									
59	59	0	0	Lowland Aspen/Balsam Poplar									
62	49	0	13	Lowland Deciduous					13				
95	78	0	17	Lowland Mixed Forest				0	17				0
42	42	0	0	Lowland Shrub			0						
59	59	0	0	Marsh					0				
55	52	0	3	Mixed Upland Deciduous				0					2
65	37	27	0	Natural Mixed Pines	7	20			0				
235	231	0	4	Northern Hardwood	0					1			3
29	0	29	0	Upland Conifers	29								
103	82	19	2	Upland Mixed Forest	19				1				1
46	46	0	0	Water									
1,258	1,040	129	89	Total Forested Acres	94	36	0	0	69	1	10		8
	83%	10%	7%	Relative Percent									

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: This retention pocket contains three vernal pools and it is retention for Timber Sale No. 54-047-16; Sale Name: 628 Jabba the Toad Mix.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 72
Year of Entry: 2021

3	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for the stand to the north.							
4	Available	5B: Maintain for regeneration purposes	94	Unspecified	Unspecified	Unspecified	Unspecified
Comments: White pine seeding naturally in this area. Future regeneration goal is white pine. Given the number of large stumps in the compartment, historically white pine maintained a greater proportion of the overstory than currently. Furthermore, white pine grows readily and well in the area.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for the stand to the north.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments: Wet, non-productive lowland conifer.							
8	Unavailable	5A: Not able to obtain desirable regeneration	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: How likely will we achieve cedar regeneration?							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

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Year of Entry: 2021

9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Drainages from the beaver dam in the north and from wetlands to the east. Some areas may be too steep for equipment to turn around before reaching sensitive soils.							
11	Unavailable	5E: Long-Term Retention	3	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: A hemlock grove within the northern hardwood stand that would make an excellent focus for retention.							
12	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for (future) harvest of stand 61, the aspen stand to the west.							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is three quarters of its way to rotation age and currently meets density requirements for thinning. In order to reduce brushy competition in the initiation of the next stand, the stand examiner recommends avoiding harvest until the shelterwood preparation cut probably in about 10 years. A seed tree would also be a viable prescription to regenerate this primarily white pine stand.							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 72
Year of Entry: 2021

15	Unavailable	2F: Too steep	0	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Too steep, no place for equipment to turn downslope.</p>							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Corresponds to the slope leading to the lowland brush/marsh in the adjacent compartment. There is no room to safely turn at the bottom of the slope in what is basically a lowland mixed inclusion.</p>							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
----------	--------------	-------------	----------------	-------

Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
1	310 - Herbaceous Openland	Nonstocked	2.7		Unspecified	Managed Opening																													
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2	4119 - Mixed Northern Hardwoods	Sawtimber Medium	66.0	90	81-110	N/A	A few acres of pole trees especially adjacent to the wildlife opening near CR628 and also in the stand's far east. Pit and mound microtopography. The stand's northeast contains more sugar maple, some very good quality. Westward, red oak, some of very good quality, and basswood become more common as sugar maple quality and quantity decrease. Beech seems to decrease in the north, replaced by more basswood and sugar maple. Plenty of beech scale. Considerable ironwood in the understory in the stand's north where striped maple also become more prevalent. Crop trees seem well tended with large crowns. 50" Atlanta ORV trail runs through the stand.																												
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4	4319 - Mixed Upland Forest	Poletimber Well	18.4	99	51-80	N/A	marginally upland w/ much vernal pond and walking on tree roots. much class 4-5 woody material. one 9" black ash thirty feet from a 14" white ash.																												
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5	6112 - Lowland Aspen	Poletimber Well	34.3	37	51-80	N/A	Dense fir understory. A few odd fir and spruce that predate this stand. The center of the stand is upland but the majority is lowland. Pit and mound microtopography. Increasingly wet to the south. Standing water is evident. Many large burned stumps look like cedar from the cutover. Wet areas in the north seem to trend more to red maple, northern white cedar and balsam poplar.																												
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6	6120 - Lowland Cedar	Sawtimber Medium	10.8	117	51-80	N/A	Black ash is on the way out. The only portion of this stand showing good productivity is in the northwest. Widely spaced trees surrounded by dense alder and a few balsam fir and individual black spruce, paper birch and balsam poplar saplings. A fair amount of blow down once one exits the area of good growth.																												
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7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	4.2	88	81-110	N/A	Dense fir understory. Aspen overstory in decline. Relatively more quaking aspen in the north and south. In the center birch, red oak and some fir make most of the overstory. North half is a side slope between hardwoods and recent aspen cut. South half is more or less level.																																					
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8	310 - Herbaceous Openland	Nonstocked	1.1		Unspecified	No	Brushing in with balsam poplar, red and white pine, and balsam fir. Fair amount of natural pine.																																					
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9	4319 - Mixed Upland Forest	Poletimber Well	6.0	41	51-80	N/A	Some old looking fir in the northwest. Medium quality aspen although some quaking aspen already beginning to show conk. Protect the big oak near the trail and the few big spruce in the north. Harvest sooner rather than later.																																					
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10	623 - Emergent Wetland	Nonstocked	5.7		Unspecified	No	Beavers dammed upstream of road. The old road across the lowland seems solid, at least in winter. A lot of dead cedar.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
11	4119 - Mixed Northern Hardwoods	Sawtimber Well	63.0	81	81-110	N/A	Thinnings 1957, 1981 (effecting the southern 11 acres, likely), 1991, 2001. Current BA is still low perhaps because of ash falling out of the stand. A Hemlock grove in the center-west of the stand should be the focus of future retention. The stand grades toward wetter types along the northern and eastern fringes. Generally tree ages in these areas agreed more with most of stand 11 and suggested these areas were managed or originated with the main portion of stand 11 rather than with other nearby stands. Resultingly, the stand examiner choose to merge these areas into stand 11 as inclusions.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Sugar Maple		30	Log/Pole	11	81	Sugar Maple		Medium	10 - 20 feet	Sapling
Basswood		20	Log/XLog	14	87	Striped Maple		Medium	Variable	Tall Shrub
Beech		10	Log	16		Ironwood		High	Variable	Sapling
Red Maple		20	Log/Pole	10		Beech		Medium	Variable	Tall Shrub
						Balsam Fir		Low	Variable	Sapling
						Leatherwood		Low	< 5 feet	Tall Shrub
						Red Pine		Trace	Variable	Sapling
						White Pine		Low	Variable	Sapling
12	4134 - Aspen, Spruce/Fir	Sapling Well	15.4	27	1-50	N/A		White ash seedlings and saplings in low spots. Northern most portion of the stand has more lowland characteristics and is fir-dominated. The westernmost portion of the stand next to the beaver flooding shows considerable beaver damage. Beavers have cut many of the easily reachable aspen. The stand is on the verge of becoming a pole stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density		Avg. Height	Size
Quaking Aspen		35	Sapling/Pole	3	27	Balsam Fir	Low		Variable	Sapling
Balsam Fir		25	Sapling/Pole	4		Beech	Low		5 - 10 feet	Tall Shrub
Bigtooth Aspen		15	Sapling/Pole	4	27	Choke Cherry	Low		5 - 10 feet	Sapling
Balsam Poplar		10	Sapling/Pole	3		White Oak	Trace		5 - 10 feet	Sapling
13	310 - Herbaceous Openland	Nonstocked	1.7		Unspecified	No				
Canopy Species		Density	Avg. Height	Size						
White Pine		Trace	10 - 20 feet	Sapling						
Balsam Poplar		Low	Variable	Sapling						
Red Pine		Trace	10 - 20 feet	Sapling						
Blackberry/Raspberry		Low	< 5 feet	Tall Shrub						
Spotted Knapweed		Medium	Unspecified	Non-Wood						
Big Bluestem		Trace	Unspecified	Non-Wood						
14	4199 - Other Mixed Upland Deciduous	Sawtimber Well	10.5	82	81-110	N/A	Broke this stand out of the stand to the south. Too divergent in age, species composition and land position. A nice hardwood knoll in the center grades in to aspen and red maple in the east and a fir heavy mixed deciduous on a down slope to a drainage that drains the beaver dam. Basically the same age as the hardwoods to the east.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Maple		15	Log/Pole	10		Serviceberry (Juneberry)		Trace	Variable	Tall Shrub
Quaking Aspen		13	Log/Pole	12		Balsam Fir		High	Variable	Sapling
Balsam Fir		12	Pole/Sapling	7		Ironwood		Low	Variable	Sapling
Bigtooth Aspen		25	Log/Pole	12	82					
Paper Birch		15	Pole/Log	9						
Sugar Maple		10	Log/Pole	10						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
15	4134 - Aspen, Spruce/Fir	Poletimber Well	11.8	60	81-110	N/A	This stand probably relates more to the harvest to the north than any other surrounding stands. Looks like there was a recent species cut with chiefly maple saplings (30-ish years ago). A good amount of sugar maple in the north east. In the middle a wet swale, more or less lowland aspen. In the west back to upland. Blowdown patch in the far west. It seems like a similar series of disturbances occurred across the stand in roughly the same time frame with similar species compositions grading from upland to lowland and back; this is the reason for carving this stand out of surrounding ones.																																														
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16	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	17.7	27	1-50	N/A	Some areas are not far from being a pole stand with a few trees even achieving 2-3 sticks. Conifer inclusion at the center seems to be situated on poorer soil. These inclusions contain trees more widely spaced trees. A fair amount of red pine mixes in to southwest. In the west, oak, red maple and conifers mix in with quaking and big tooth aspen.																																														
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17	310 - Herbaceous Openland	Nonstocked	2.0		Unspecified	No	Nice little pocket of big bluestem in the north east screaming "save me!"																																														
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18	310 - Herbaceous Openland	Nonstocked	1.0		Unspecified	No	Brushing in with balsam poplar and pine as is common in this compartment. There is a little bit of big bluestem on the western stand boundary.																																														
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19	6120 - Lowland Cedar	Poletimber Medium	39.1	125	51-80	N/A	Stand becomes increasingly poor to the west. The edges hold some good white and black spruce and cedar. Struggling cedar and balsam fir characterize the center, along with increasing densities of brush. On the western fringes, there are stringers of dead black ash. Fir understory is especially dense in the east.																																														
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20	42290 - Natural Mixed Pine	Sawtimber Well	30.7	62	81-110	N/A	<p>Weavilly open grown branchy white pine dominate the panhandle. A dense fir understory and legacy red pine also characterize this area. Broken canopy in the west. Dense fir subcanopy. Cedar stringer in the far south associated with the lowland stand. Some big tooth aspen show 27 rings at DBH. Stump sprouted saplings indicate a recent past thinning or species cut, probably about 25 to 30 years ago. The center features a deciduous dominated knoll with some big tooth aspen that appeared to be about 80-90 years old, also some white birch associates.</p> <p>50" Atlanta ORV trail runs through the stand.</p>																																																		
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22	6120 - Lowland Cedar	Sawtimber Well	9.6	120	171-200	N/A	<p>Nice looking cedar stand. Early successional are senescing. A few small blowdowns and poor drainages but this must be generally a very good site as cedar cores were solid.</p>																																																		
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23	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	6.9	74	81-110	N/A	<p>The narrow panhandle may relate better to the aspen stand to the west. Should consider harvesting both at the same time. Legacy pine is common in this stand. Retention in the future is best left in the north against the creek to capture these pine.</p>																																																		
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24	4319 - Mixed Upland Forest	Sawtimber Well	8.7	71	111-140	N/A	<p>Lower elevation (wet) characteristics than the stand to the northwest. Significant white pine component. Aspen on the way out with quaking aspen sometimes showing conk or breaking apart. More heavily pine and fir toward the center and south, likely an influence from stands to the west and south. Good amount of browse noted as well as numerous ash seedlings. An alder slough is included in the southern boundary of the stand.</p>																																																		
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25	310 - Herbaceous Openland	Nonstocked	3.3		Unspecified	No	<p>White pine is seeding in readily along the perimeter. There's even some sapling red pine! Otherwise it's the usual sorta not awesome invasive-y (native or exotic) plants.</p>																																																		
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26	6220 - Alder/willow	Nonstocked	11.0		Unspecified	No	Creek with beaver dams winds its way through marsh/lowland shrub.																																																															
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27	429 - Mixed Upland Conifers	Sawtimber Well	26.9	48	111-140	N/A	Swapped some ages to depict what ages were in the stand. The oldest trees are about 100-120 years old (X logs). The next cohort is about 60-80 years old (Logs and X logs). The next is about 40 years old (small logs and poles) and is the most widely represented in the stand. Cored RP 121 years old, 51 years old. Cored WP 47 and 76 years old. Aspen most numerous in the center and east but pine common throughout. Considerable structural diversity. Circa 80-100 year old fire scars at the base of the legacy WP and RP face south and slightly east are evidence of the conditions that regenerated the current stand.																																																															
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28	6130 - Fir, Aspen, Maple	Poletimber Well	43.6	37	51-80	N/A																																																																
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29	4134 - Aspen, Spruce/Fir	Sapling Well	26.4	41	81-110	N/A	A few denser fir pockets that are low. Wire fence on the north. Drainages lead to the cedar stand to the west. The fir understory is generally dense. A few legacy red and white pine bleed in from the stand to the southwest. Red pine ages are 54 and 82 years old.																																																															
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30	4319 - Mixed Upland Forest	Sapling Well	6.6	20	51-80	N/A	Mostly quaking aspen with big tooth on the highest ground and BAM on apparently wet swales. This stand includes a natural mixed pine inclusion about 32 years old. This fits better with the size and age of this stand than the other adjacent stand in the compartment. Beaver damage noted even at the slope leading to the wetland. A fringe of legacy pine and spruce line the lowland and the slope leading to it. Generally fir is densest as one approaches the slope. It is also in this fir band that the stand examiner noted the oak saplings.																																																															
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32	42290 - Natural Mixed Pine	Sawtimber Well	20.0	86	111-140	N/A	Looks like a natural stand originating from the slash fires of the early 20th century, most likely. There are some beastly large pine legacies. The fir understory is very dense. An underburn following a shelterwood or seedtree might produce some interesting results. QD: 125BA; Ave st. dia 11"																																												
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33	622 - Lowland Shrub	Nonstocked	4.7		Unspecified	No	<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Alder</td> <td>Full</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Maple</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Paper Birch</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Elm (Spp.)</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tamarack</td> <td>Low</td> <td>>20 feet</td> <td>Pole</td> </tr> </tbody> </table>	Canopy Species	Density	Avg. Height	Size	Alder	Full	5 - 10 feet	Tall Shrub	Red Maple	Trace	10 - 20 feet	Sapling	Paper Birch	Trace	Variable	Sapling	Balsam Fir	Trace	Variable	Sapling	White Pine	Trace	10 - 20 feet	Sapling	Elm (Spp.)	Trace	Variable	Sapling	Tamarack	Low	>20 feet	Pole												
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34	3104 - Degraded	Nonstocked	1.4		Unspecified	No	White pine encroaching.																																												
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35	310 - Herbaceous Openland	Nonstocked	1.2	0	Unspecified	No	Balm of Gilead creeping inward from the edges. Perimeter also features an interesting amount of red pine poles.																																												
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36	4311 - Pine, Aspen Mix	Poletimber Well	18.7	74	111-140	N/A	Heavy browse noted. Aspen decaying. Blowdown in west. A few lowland spots.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
37	4136 - Aspen, Mixed Conifer	Sapling Well	20.9	26	Immature	N/A	In NW: wet pockets with fir and balsam poplar growing on hummocky ground. Very diverse. Some surprisingly good oak stems as well as densest hardwood component. Aspen dominates increasingly to the south.																																										
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38	4130 - Aspen	Poletimber Well	11.3	69	81-110	N/A	One of those higher productivity knolls surrounded by lower piney stands. A swale separates this stand from the aspen stand to the east. Formerly contained white ash.																																										
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39	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	13.4	95	81-110	N/A	Dense fir understory. Oldest trees show good growth up to 30 years ago. Hilltop has less fir; fir increases on slopes. Pit and mound microtopography. North and south ends trend more to pine.																																										
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40	429 - Mixed Upland Conifers	Sapling Poor	2.3	29	1-50	N/A																																											
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41	3303 - Mixed Low Density Trees	Nonstocked	1.6		Unspecified	No	Unlisted stuff: raspberry, queen ann's lace, common yarrow. Opening is brushing over with balsam poplar and conifers.																																										
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42	42290 - Natural Mixed Pine	Sapling Well	7.3	29	51-80	N/A	Natural pine mix. Contains some small clones of aspen. Almost pure red pine underneath legacy red pine in the east. Fire scars on west faces (if memory serves correctly) of legacy pine.																																												
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43	4130 - Aspen	Sawtimber Well	6.1	71	111-140	N/A	A pattern of deciduous-dominated knolls in a U-shape surround the large conifer swamp at the north-center of the compartment. This stand appears to be apart of that complex. Between the knolls are piney stands, mostly white pine. Some fairly nice big tooth aspen that's beginning to decline now, as evidenced by a couple blowdown pockets and some conk. Formerly contained white ash. Previous inventory indicates "aspen on what may be a hardwood site".																																												
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44	310 - Herbaceous Openland	Nonstocked	1.5		Unspecified	No																																													
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45	4110 - Sugar Maple Association	Sawtimber Well	44.1	92	81-110	N/A	Heaviest beech and larger diameters in the north. Much ironwood and beech brush. More ash, decadent aspen and smaller trees in the southeast. Interestingly there's understory red pine along with the more common white pine.																																												
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46	4311 - Pine, Aspen Mix	Poletimber Well	13.8	49	81-110	N/A	Quaking aspen dominated fringes grade into pine, oak and big tooth aspen on the heights.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
47	4311 - Pine, Aspen Mix	Poletimber Well	14.4	38	81-110	N/A	Upland with a few marginally lowland bits. Areas of best site quality are producing log-sized trees. Log sized pine are probably 60-80 years old based on adjacent stands. A new stand broken out of the adjacent aspen (lowland) stand of fairly good quality and health.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Quaking Aspen		40	Pole	6	38	Red Maple		Low	Variable	Sapling
White Pine		15	Log/XLog/Pole	13		Balsam Fir		High	Variable	Sapling
Balsam Fir		20	Pole/Sapling	5		White Pine		Low	Variable	Sapling
Bigtooth Aspen		10	Pole	7						
48	310 - Herbaceous Openland	Nonstocked	2.5		Unspecified	Managed Opening				
Canopy Species		Density	Avg. Height	Size						
Bracken Fern		Full	Unspecified	Non-Wood						
White Pine		Low	Variable	Sapling						
Autumn Olive		Low	5 - 10 feet	Tall Shrub						
Balsam Poplar		Low	Variable	Sapling						
Mixed Grasses		Full	Unspecified	Non-Wood						
49	6112 - Lowland Aspen	Sapling Well	25.1	26	1-50	N/A	Half sort of upland, half sort of lowland, with the nod to lowland. Higher ground generally to the west. Quite diverse.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Balsam Poplar		10	Sapling	3	26	Witch Hazel		Low	5 - 10 feet	Tall Shrub
Balsam Fir		20	Pole/Sapling	6		Alder		Low	5 - 10 feet	Tall Shrub
Quaking Aspen		20	Sapling/Pole	4	26	Sedges		Medium	Unspecified	Non-Wood
Bigtooth Aspen		20	Sapling/Pole	4		Bunchberry	Low	< 5 feet	Tall Shrub	
50	6229 - Mixed lowland shrub	Nonstocked	2.2		Unspecified	No				
Canopy Species		Density	Avg. Height	Size						
Northern White Cedar		Low	>20 feet	Log						
Red Pine		Trace	< 5 feet	Sapling						
Balsam Fir		Low	10 - 20 feet	Sapling						
Dogwood (spp.)		Trace	5 - 10 feet	Tall Shrub						
Quaking Aspen		Low	10 - 20 feet	Sapling						
Willow spp.		Trace	5 - 10 feet	Tall Shrub						
Cattail spp.		Low	Unspecified	Non-Wood						
Blackberry/Raspberry		Trace	5 - 10 feet	Tall Shrub						
Rushes		Low	Unspecified	Non-Wood						
51	4136 - Aspen, Mixed Conifer	Poletimber Well	77.9	38	111-140	N/A	Stringers of fir/spruce. (Previous inventory: becomes more PARVVb as one moves down slope with more white pine)			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Maple		10	Pole/Sapling	5		Red Maple		Medium	Variable	Sapling
Bigtooth Aspen		20	Pole	7	38	Balsam Fir		Medium	Variable	Sapling
Balsam Fir		13	Pole/Sapling	5		White Pine		Low	Variable	Sapling
White Pine		7	Pole	8		Hemlock	Trace	Variable	Sapling	
Quaking Aspen		35	Pole	8	38	White Ash	Low	< 5 feet	Seeding	



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52	4119 - Mixed Northern Hardwoods	Sawtimber Medium	13.6	92	51-80	N/A	A hardwood knoll grading into more or less lowland types on the margins. Balsam fir, red maple more common where it's wet. Site quality is fairly good in the north. It seems the last treatment was a single tree selection with small gap initiation (about 30' diameter). The lower portions in the east might've been simply species cut. Portions of the stand are open enough to grow common mullein, raspberries and balsam poplar. Regen layer is mostly beech, many of which show browse, ironwood, and balsam fir with limited white pine seedlings. Besides ash in the east, what little hardwood regeneration is mostly 1' and below. Regen failure.																																																											
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53	6130 - Fir, Aspen, Maple	Sapling Well	36.2	35	51-80	N/A	Oddly interesting stand for being lowland fir and aspen. Drainages contain cedar. Various pods of legacy cedar, spruce and white pine, especially at the stand margins to the south. Estimate legacy trees to be around 80-120 years ago. Some log and sapling sized oak along the south and west. Old skid paths remain evident. Topographically seems like a bowl that empties to the SE and ultimately to Rush Lake.																																																											
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54	310 - Herbaceous Openland	Nonstocked	1.8		Unspecified	No	Opening is brushing in with white pine.																																																											
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55	4130 - Aspen	Poletimber Well	109.8	38	81-110	N/A	Nice upland stand with drainages running E-W. Drainages feature more fir and red/white pine than the rest of the stand. Stand is in good health with aspen achieving 4-5 sticks. Legacy red/white pine and oak present, especially in the SE. Moving toward Rush Lake, the stand gradually takes on wetter characteristics with dense red maple saplings and lowland brush (nannyberry, alder) mixing in at the eastern-most extent. Another patch of legacy trees is located in the NE arm near Rush Lake.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments												
56	629 - Mixed non-forested wetland	Nonstocked	24.6	0	Unspecified	613 - Lowland Mixed Forest	So far the stand isn't regenerating as hoped. Really more of a lowland mix of species. Considerable mossy areas and pits with water/ice. Margins generally bare of any tree species. Areas that were maple dominated are not currently regenerating much. Suspect browse is the reason. What I identified as raspberry is shown as blackberry above having not found raspberry in the list. Monitor for a forested goal of a poorly stocked lowland mixed.... Sale closed 2015												
								Canopy Species	Density	Avg. Height	Size								
								Balsam Poplar	Low	Variable	Sapling								
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								White Spruce	Low	Variable	Sapling								
								Northern White Cedar	Trace	>20 feet	Pole								
								White Pine	Low	Variable	Sapling								
								Red Maple	Low	Variable	Sapling								
								Bulrush	Low	Unspecified	Non-Wood								
								Cattail spp.	Low	Unspecified	Non-Wood								
								Common Blackberry	High	5 - 10 feet	Tall Shrub								
57	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	53.4	63	81-110	N/A	A nice high ridge in the southwest supporting some nice pine descends into a broad lowland basin fed by two wetland swales that look like an E-type running NW to SE. A somewhat higher ridge containing some impressive legacy pine and oak separates these drainages. The basin features black spruce, white birch, dead black ash, northern white cedar. There is a broad open, probably marshy area in the south center. This seems to feed what might be a stream to the south.												
								Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size			
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								White Pine	10	Log/XLog/Pole	15		White Pine	Low	Variable	Sapling			
								Balsam Fir	10	Pole	5		American Elm	Trace	>20 feet	Sapling			
								Paper Birch	10	Pole	7		Alder	Medium	5 - 10 feet	Tall Shrub			
								Black Spruce	10	Pole	6	108	Black Spruce	Trace	Variable	Sapling			
								58	3102 - Grass	Nonstocked	2.1		Unspecified	Managed Opening					
																Canopy Species	Density	Avg. Height	Size
																Sweet Fern	High	< 5 feet	Tall Shrub
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59	42290 - Natural Mixed Pine	Sawtimber Well	3.3	79	81-110	N/A	Contributes structural, species and size class diversity contrasting with surrounding young aspen. Becomes almost pure red pine to the west. The stand sits on a small rise between the upland and lowland aspen.												
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								Balsam Fir	15	Pole/Sapling	5		Balsam Fir	Medium	Variable	Sapling			
								White Pine	30	Log	14	90	Wintergreen	High	< 5 feet	Tall Shrub			
								Red Pine	40	Log/Pole	11	79							



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60	3102 - Grass	Nonstocked	1.4		Unspecified	Managed Opening																												
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61	4136 - Aspen, Mixed Conifer	Poletimber Well	18.3	58	81-110	N/A	Kind of a weird two agey thing going on here. Stand dominant aspen are around 57 years old with numerous poles of a younger age which probably correspond to the sale in 1984. South and West of trail on map: Sale 091-80-1 "Rush Lake Access Block". Closed 09/14/1984. Aspen 780cds, Mx softwds 215cds, Mx hdwds 190cds, WP 1 MBF, RP 1MBF. 65ac. Rx was cut only b/w 1 October and 1 May, cut all merch aspen, mx hardwood, spruce and balsam. Leave all cedar. Cut only pine 20" or more at the stump.																											
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62	4119 - Mixed Northern Hardwoods	Sawtimber Well	48.2	91	81-110	N/A	QD reveals the basal area is too low to harvest. Maybe in 10 years. Quality generally seems to improve as one moves east. Basswood make more of an impression than the numbers (truth) suggests. If a harvest is deemed possible, try large group selection to small patch cuts (100-200' crown to crown) with a light thinning from below. Will need to consider brush competition above 160' diameter.																											
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White Ash	Medium	< 5 feet	Seeding																															
65	6130 - Fir, Aspen, Maple	Poletimber Well	15.3	48	51-80	N/A	A wet drainage into Rush Lake. Range of ages for the oldest cedar and white spruce 100-140. Generally most of the stand seems about 45-48 years old. Northern portions of the stand likely harvestable under the right conditions; the center and south are very wet. Old stumps, spruce and/or cedar present show a history of past harvest even in the wettest areas. Heavy browse to white ash seedlings in the higher areas. Any larger ash tends to be dead.																											
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66	4130 - Aspen	Sapling Poor	8.5	5	Immature	N/A	Gets a bit wet toward the northernmost arm as balm of gilead mixes in along with evidence of rutting. Sale closed 2015.																											
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67	623 - Emergent Wetland	Nonstocked	53.5		Unspecified	No																												
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68	42290 - Natural Mixed Pine	Sawtimber Well	3.2	79	1-50	N/A	Solid canopy of natural pine. Mostly close to 80 years old. The rest is mostly suppressed aspen and maple. Sale 077-80-1, "Rush Lake Backwaters" 17 ac. Aspen (147cds), balsam (98cds), Mx Hdwd (30cds), WP 2.5 MBF, RP 1.9MBF. Closed 09/14/1984.																																																			
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69	4134 - Aspen, Spruce/Fir	Poletimber Well	14.1	35	81-110	N/A	Balsam poplar on edges next to cedar. Red maple seems to increase southward. Trace legacy white and red pine. Sale 077-80-1, "Rush Lake Backwaters" 17 ac. Aspen (147cds), balsam (98cds), Mx Hdwd (30cds), WP 2.5 MBF, RP 1.9MBF. Closed 09/14/1984.																																																			
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70	500 - Water	Nonstocked	46.4		Unspecified	No	Rush Lake.																																																			
71	330 - Low-Density Trees	Nonstocked	1.0	0	Unspecified	No																																																				
72	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	2.5	50	81-110	N/A	Retention for stand 56. A mish-mash of species and ages it seems. Repeated disturbances from the trail nearby?																																																			
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74	4319 - Mixed Upland Forest	Sawtimber Medium	15.9	103	51-80	N/A	This stand is the result of a species thinning that occurred concurrently with the aspen stand to the north and east. In the current stand, the prescription changed to leave all pine, oak and green-marked trees. The result is a canopy that resembles an irregular shelterwood with aspen that likely will not amount to much plus some red maple, a few oak and in a few areas, some nice pine regen.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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85 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Poor 8.5 28 1-50 N/A

Enough tree canopy to call forested by a whisker. Will never be productive unless water levels change. Spits (old beaver dams?) of productive lowland separate lagoons of non-productive treed bog.

Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
White Pine	25	Pole/Sap/Log	6	28	Sedges	Full	Unspecified	Non-Wood
Paper Birch	10	Pole/Sapling	5		Cattail spp.	High	Unspecified	Non-Wood
Balsam Fir	6	Sapling/Pole	4		Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	40	Sapling	3	28	Nannyberry	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	10	Pole/Sapling	5		Michigan Holly	Low	5 - 10 feet	Tall Shrub

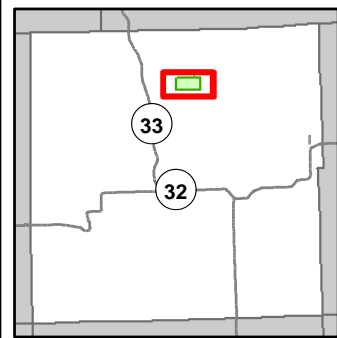
86 6120 - Lowland Cedar Sawtimber Well 1.1 147 171-200 N/A

Nice old cedar on an apparently excellent site. Ground is reasonably solid for a lowland stand. Some patches of blowdown.

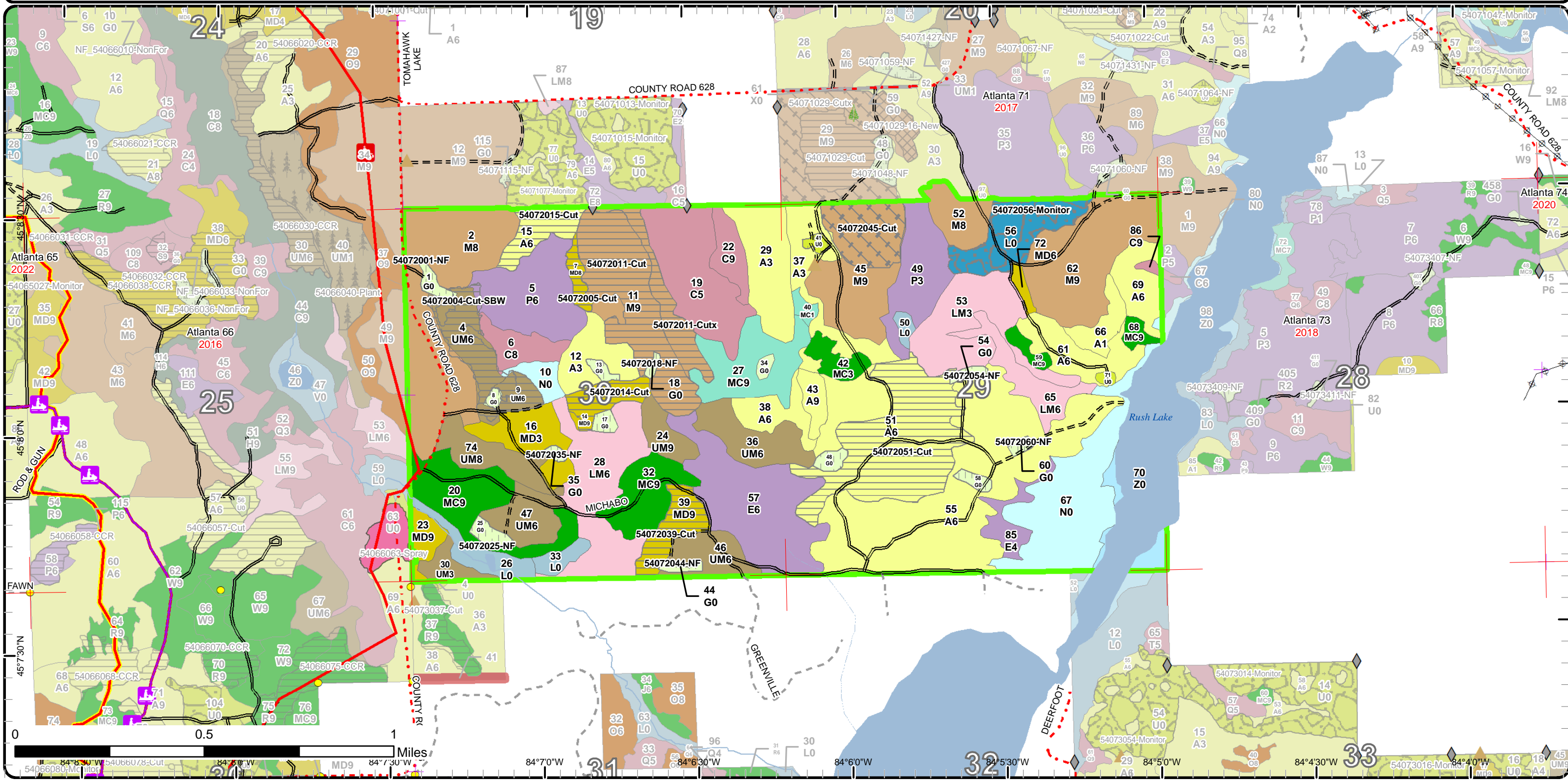
Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole/Sap/Log	6	73	Red Maple	Medium	Variable	Sapling
Northern White Cedar	70	Log/Pole/XLog	15	147	Balsam Fir	Medium	5 - 10 feet	Sapling
					Ash (spp.)	Medium	10 - 20 feet	Sapling
					Quaking Aspen	Medium	Variable	Pole

Cover Type & Treatments Map

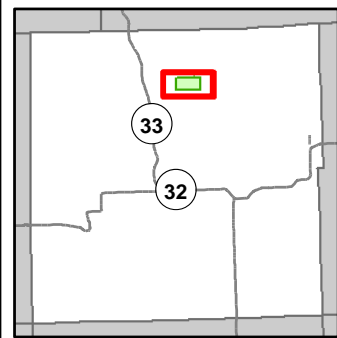
Compartment: 72
 T32N, R03E, Sec. 20, 29, 30
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Thunder Bay
 Outwash
 YOE: 2021
 Acres: 1,258 GIS Calculated
 Examiner: Daniel Natzke
 Map Revised: 10/10/2019
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- - - County - Gravel Road
- - - Private - Dirt / Gravel Road
- ORV Trails
- Snowmobile Trails
- Designated ATV
- Designated ORV Route
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- Michigan Cross Country Cycle Trail (MCCCT)
- Berms
- Tree (marking)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Salvage
- Regeneration Survey
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- Lakes

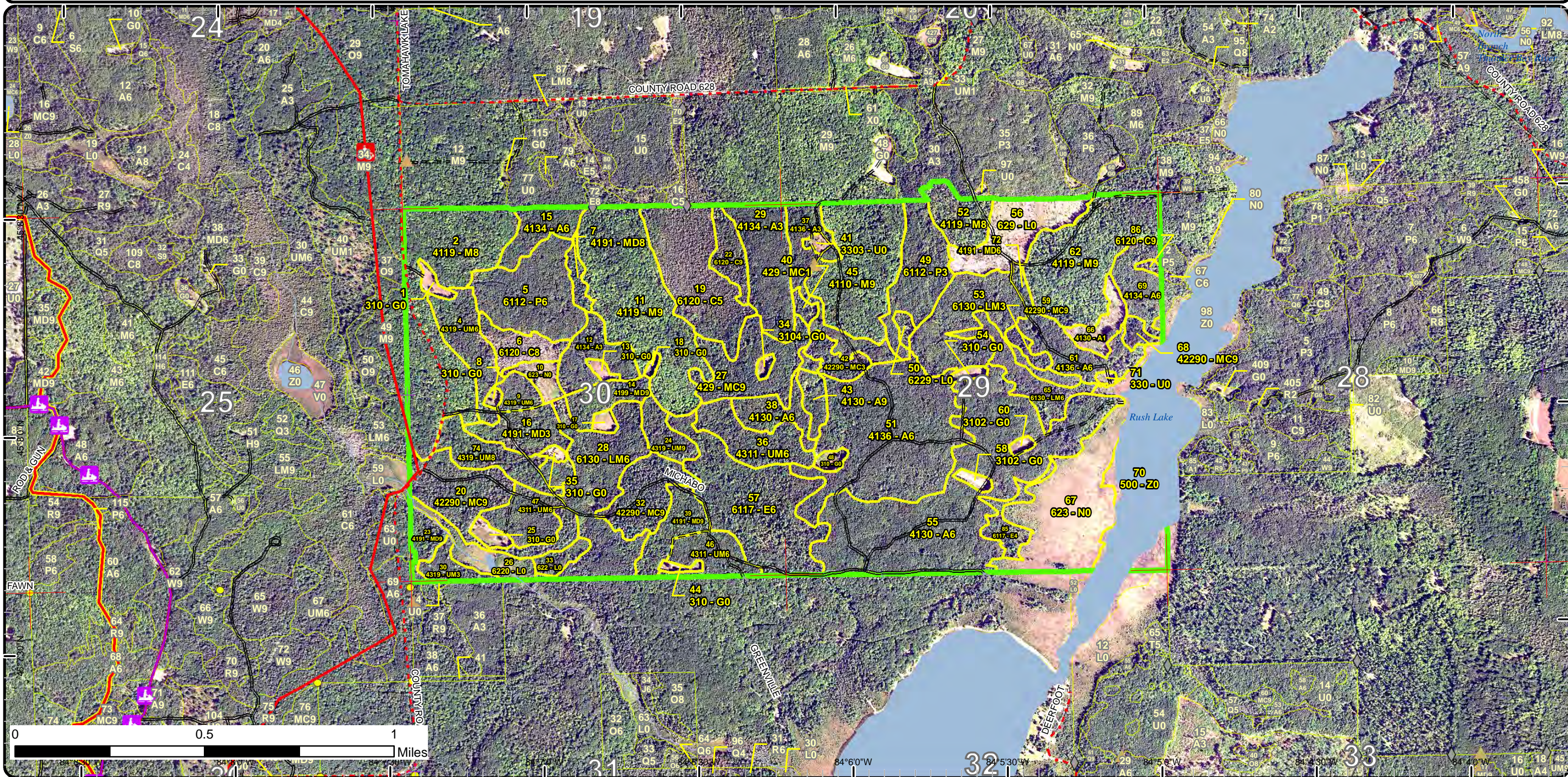


Stand Boundary Map



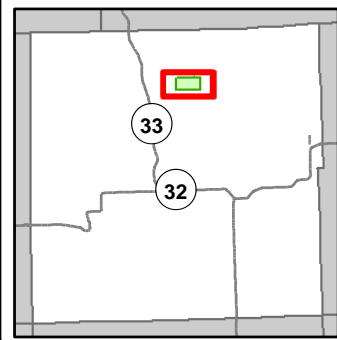
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Special Conservation Areas & Site Conditions Map

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 - Compartment Boundary
 - Available w/ Constraints
 - Unavailable
 - Stand Boundaries
- 5C: Delay treatment for age/size class diversity or exceptional site quality
 2F: Too steep
 2G: Too wet (sensitive soils, does not include access issues)
 3J: Water quality / BMPs (stream, river, or lake)
 5A: Not able to obtain desirable regeneration
 5E: Long-Term Retention
 5B: Maintain for regeneration purposes

