



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54002

Entry Year 2021

Acreage: 1,478

County Montmorency

Management Area: AuSable Outwash

Revision Date: 2019-08-09

Stand Examiner: Daniel Natzke

Legal Description:

T29N, R1E, Sec. 5, 6, 7 & 8

Identified Planning Goals:

Management planning goals include regenerating jack pine and oak, as well as maintaining or increasing the area of pine barrens and pine/oak savanna within the compartment.

Soil and topography:

Soil series include Graycalm, Horsehead, Clacking, Chinwhisker and Grayling sands on slopes from 0 – 45%. Much of the compartment is flat to gently rolling with small areas with steeper slopes in the compartment's southwest. These steeply sloped areas contain many small kettle depressions and lakes. The soils themselves are well drained to excessively well drained, droughty, prone to wind erosion and water erosion on steeper slopes and are commonly found on outwash plains, moraines, beach ridges, stream terraces, lake terraces, and eskers. In terms of forested cover, these soils are most productive supporting the growth of pine, especially jack pine, and oak of the red oak group. Good aspen growth is locally possible. The loose nature of these soils is a concern when harvesting on slopes, as these soils may cause wheeled vehicles traction loss and as disturbance may lead to erosion. These soils' porousness and tendency toward droughtiness may make plantation establishment difficult in years without frequent periodic rain.

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

Other state land surrounds most of the compartment. Private land, camps, second homes and retirement homes are located chiefly to the west and south of the compartment.

Unique Natural Features:

The compartment's unique natural features include remnant pine barrens and an area of small kettle depressions and lakes.

Archeological, Historical, and Cultural Features:

Archeological, historical and cultural features exist in this compartment.

Special Management Designations or Considerations:

There are no special management designations or considerations for this compartment.

Watershed and Fisheries Considerations:

No clear cut along the following lakes (and others) in compartment (Crystal, McMullen, Hidden lakes); no cutting of trees larger than 4 inches DBH within 25 feet of waters edge; selective cutting within the buffer (to 25ft of waters edge) may be done.

Wildlife Habitat Considerations:

This compartment is a good 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 game animals. Habitat components of aspen and oak provide food and cover for multiple species at a variety of age classes. In this compartment and surrounding compartments, we are working on establishment of large scale barrens management. The soils and historical features of the site indicate that barrens is a natural state for majority of the compartment. Species which benefit from our management include white-tailed deer, elk, turkey, Kirtland's warbler, prairie warbler, dusted skipper, and secretive locust.

Mineral Resource and Development Concerns and/or Restrictions

Sections 5-8, T29N-R1E, Montmorency County

Active sand/gravel production is occurring less than two miles to the northeast, and there appears to be good sand & gravel potential within the compartment. This area is mostly leased and has been developed for the Antrim Shale. There is no known potential for production from other formations beneath the compartment. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Numerous roads traverse the compartment, lending good access to most stands.

Survey Needs:

The compartment is well documented and monumented. Few to no additional surveys should be required.

Recreational Facilities and Opportunities:

The Buttles Pathway and numerous ORV and snowmobile paths cross the compartment.

Fire Protection:

Fire protection is adequate with response from DNR Atlanta Task Force and Lewiston VFD.

Additional Compartment Information:

The following reports from the Inventory are attached:

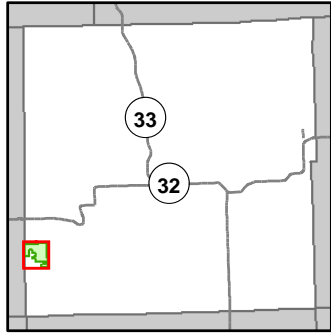
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

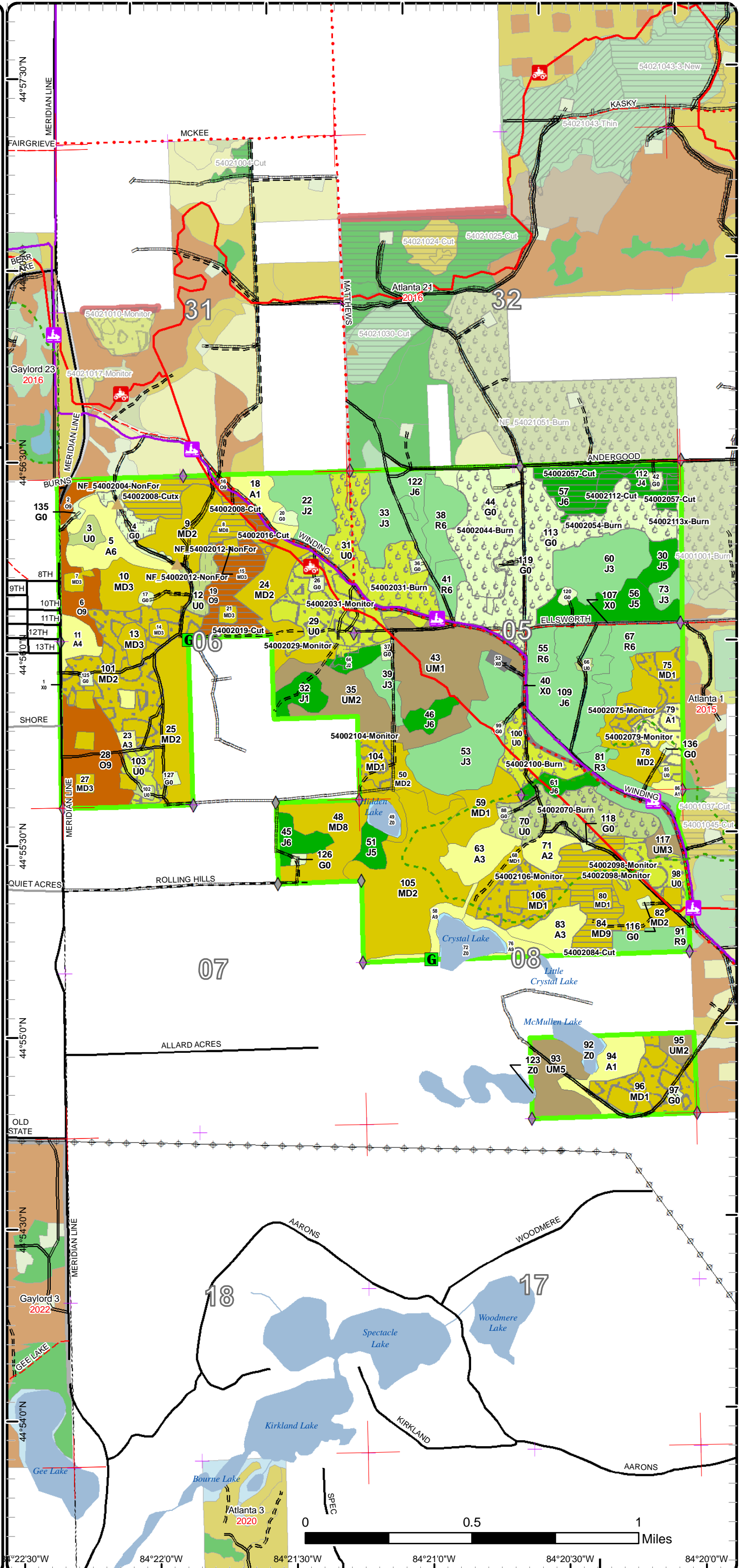
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 2
 T29N, R01E, Sec. 5-8
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: AuSable Outwash
 YOE: 2021
 Acres: 1,478 GIS Calculated
 Examiner: Daniel Natzke
 Map Revised: 10/10/2019
 Map Phase: Post-Review



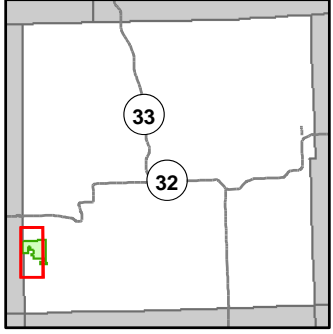
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- Gate
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- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Prescribed Burn
- Regeneration Survey
- Opening Maintenance
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- Lakes



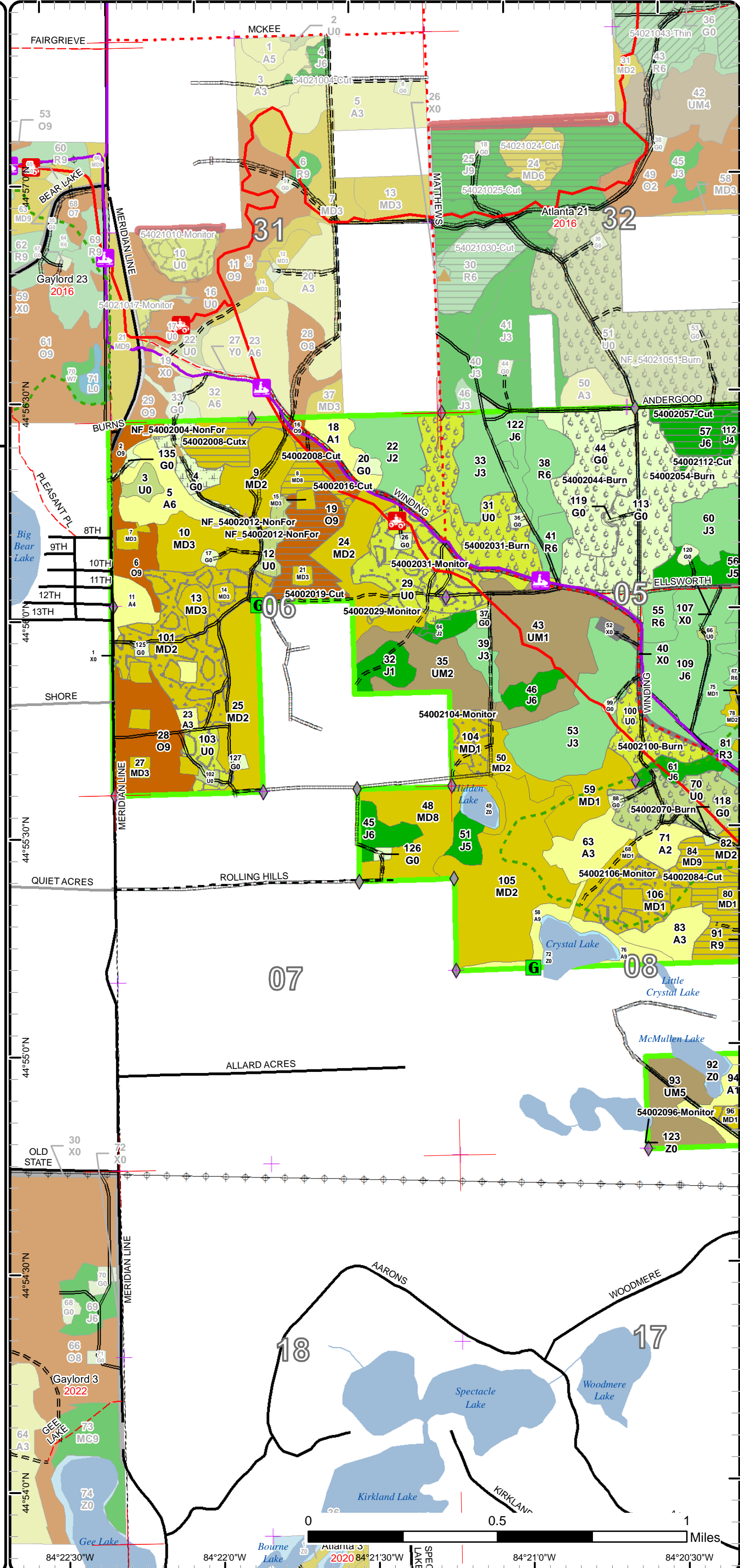
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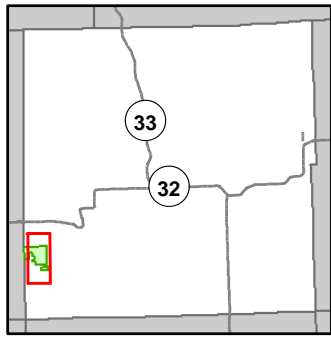


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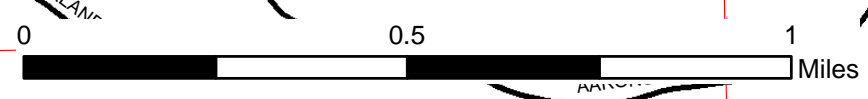
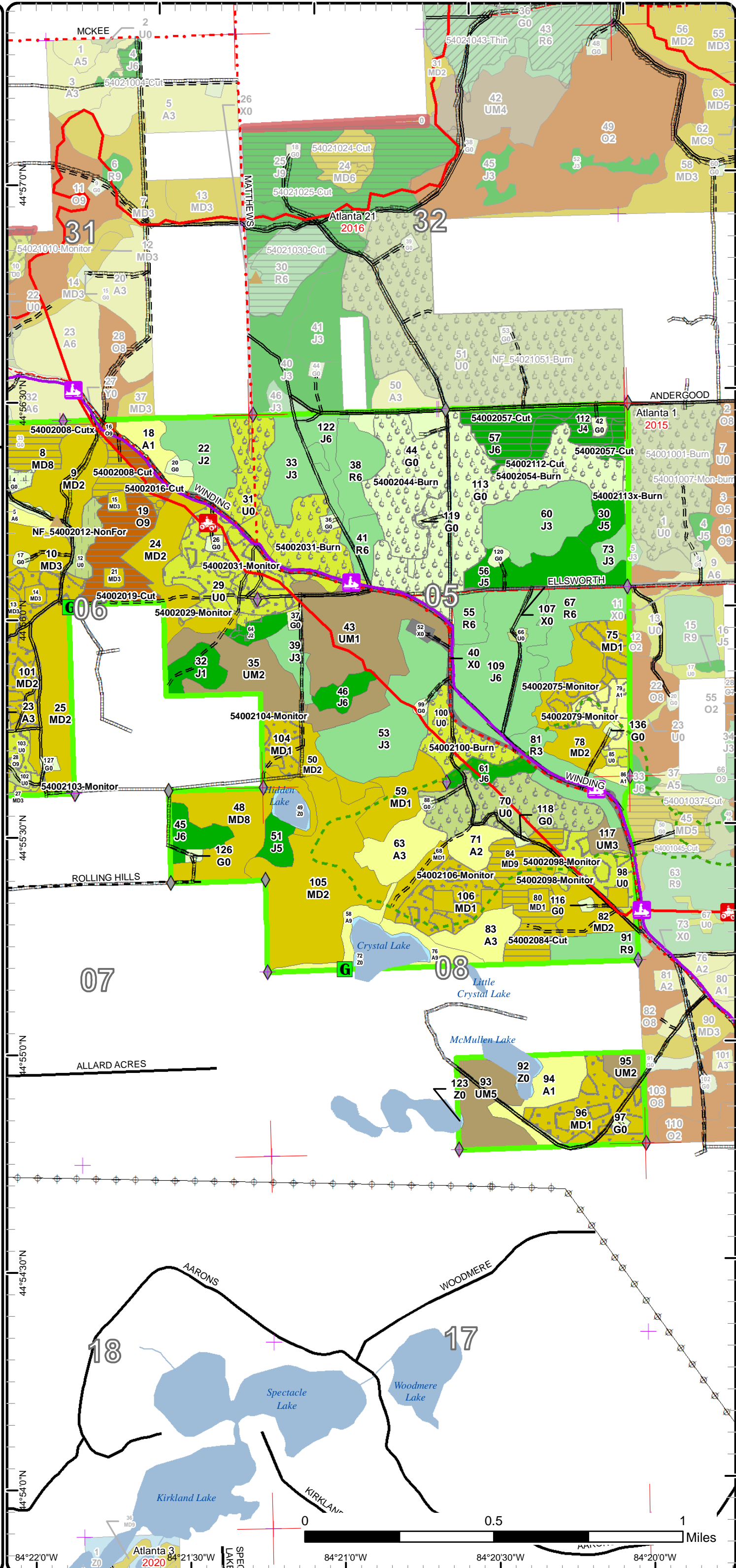


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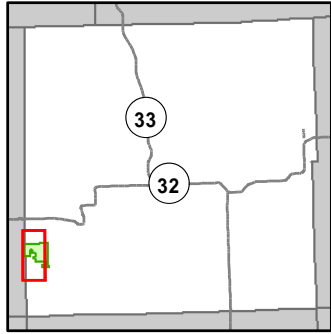
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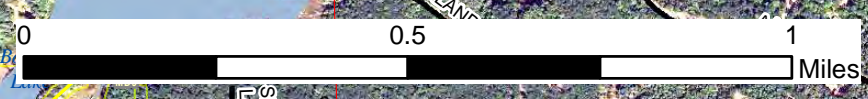
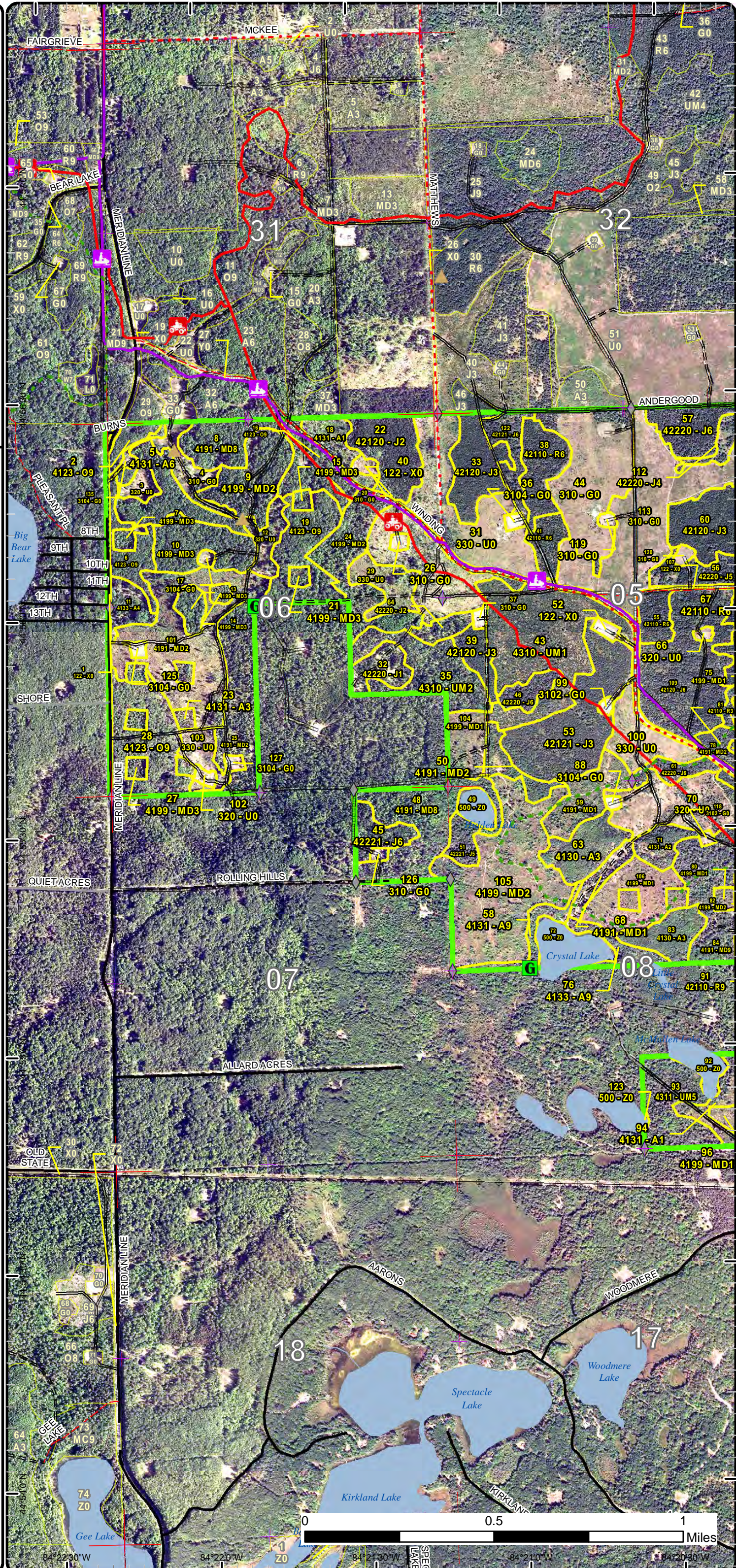
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Stand Boundary Map

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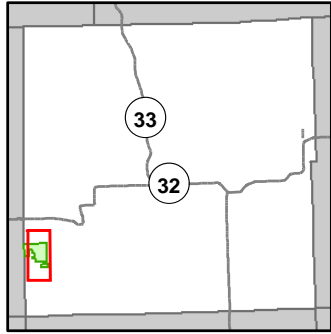
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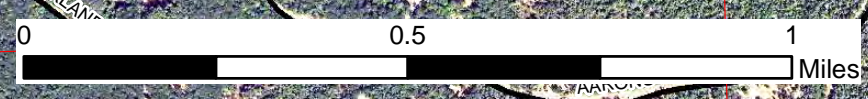
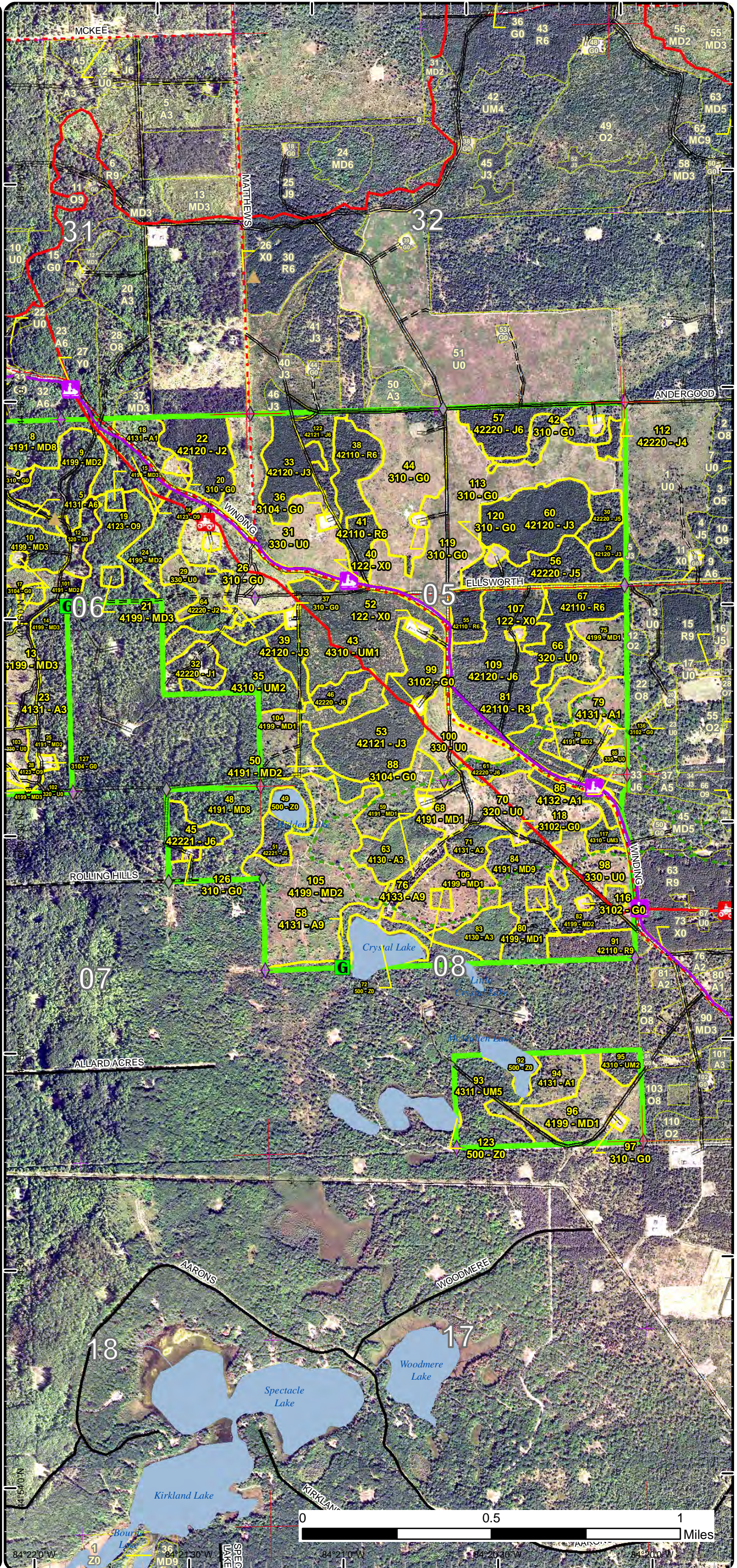
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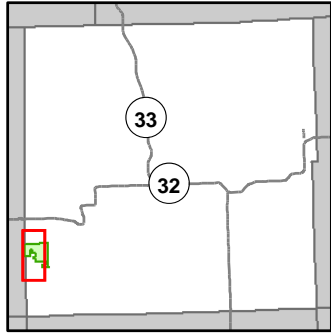
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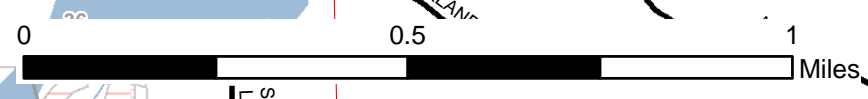
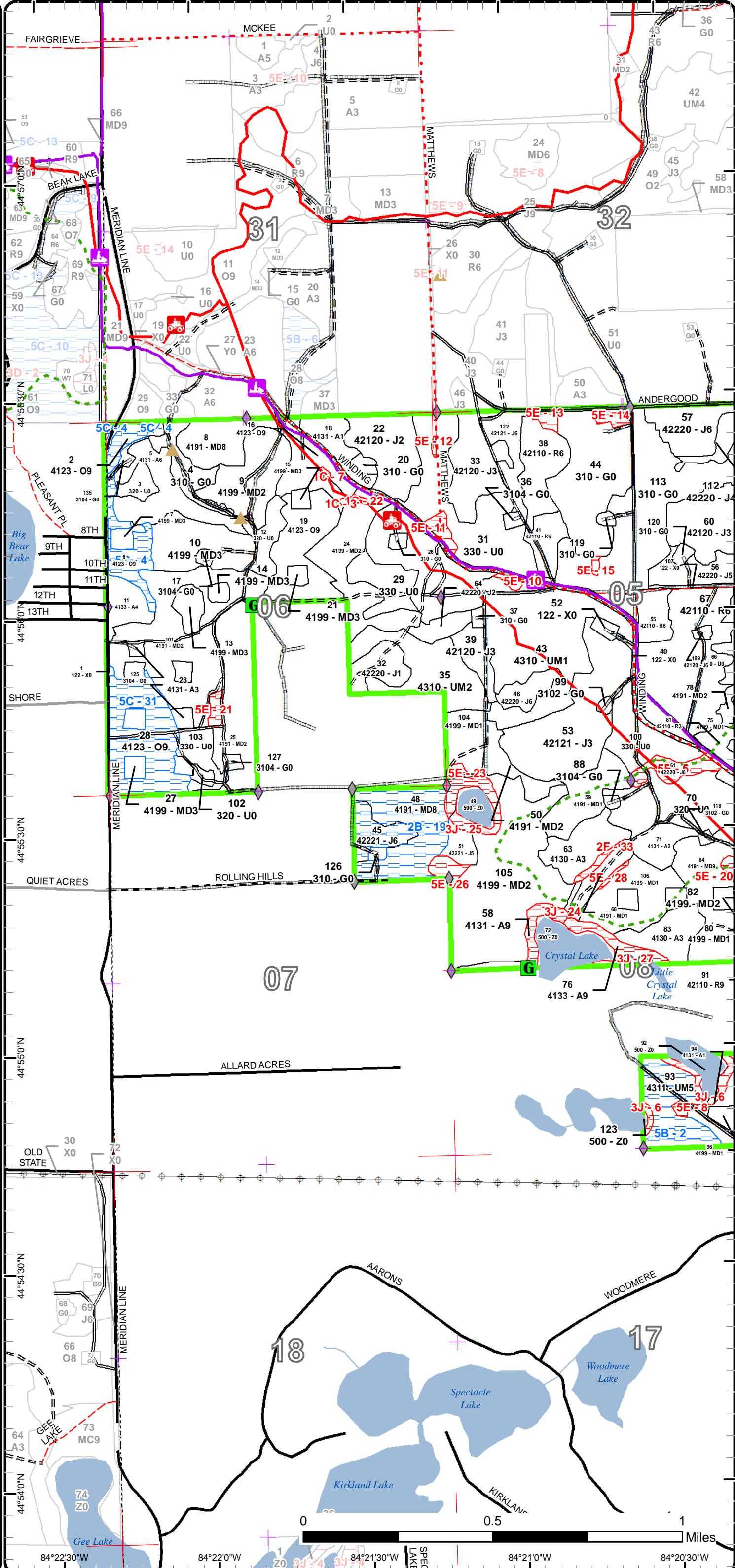
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Special Conservation Areas & Site Conditions Map

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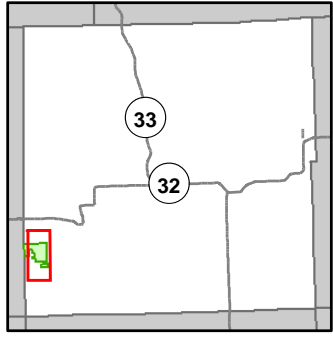
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries



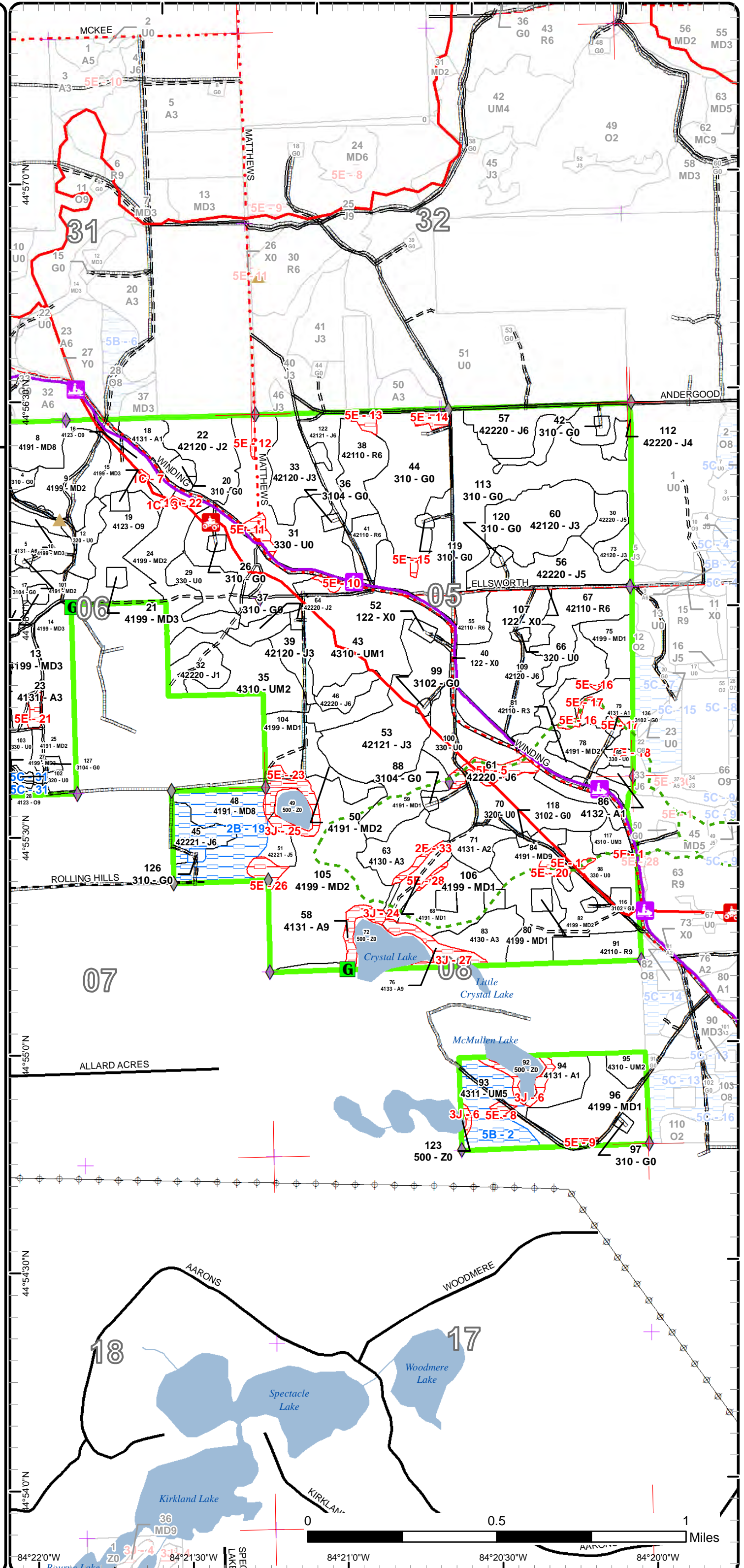
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Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment 2

Year of Entry 2021



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	36	3	35	22	8	0	0	0	7	7	0	0	0	0	0	0	0	118
Herbaceous Openland	143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	143
Jack Pine	0	0	0	121	92	6	39	6	15	0	0	0	0	0	0	0	0	0	279
Low-Density Trees	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123
Mixed Upland Deciduous	0	187	45	19	121	0	0	0	0	0	23	62	0	0	0	0	0	0	455
Oak	0	0	0	0	0	0	0	0	0	0	64	11	0	0	0	0	0	0	75
Red Pine	0	0	0	0	65	0	0	11	0	0	0	0	0	0	0	0	0	0	76
Upland Mixed Forest	0	0	53	9	25	0	0	22	0	0	0	0	0	0	0	0	0	0	109
Upland Shrub	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Urban	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Water	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Total	363	223	101	184	325	14	39	39	15	7	94	73	0	0	0	0	0	0	1475



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Compartment 2

Year of Entry: 2021

Acres of Harvest

Total Compartment Acres: 1,478

Commercial Harvest - 110
 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
Jack Pine	32	0	0	0	0	0	0	0	0	32
Mixed Upland Deciduous	50	0	0	0	0	0	0	0	0	50
Oak	28	0	0	0	0	0	0	0	0	28
Total	110	0	0	0	0	0	0	0	0	110

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	110	0	0	0	193	0	194	0	17	515
Next Step	0	23	165	0	240	0	345	15	14	802
Total	110	23	165	0	433	0	540	15	31	1316

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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
8 54002008-Cut	8.2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	96	1-50	Harvest	Clearcut	330 - Low-Density Trees		Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Clearcut. Site condition areas will serve as retention. Retain individual trees, especially large crowned oak and pine, and clumps around the site conditions. Mark bumper trees to protect leave trees. Burn to maintain as a savanna/barrens. The area contains the Big Bear 50" ORV Trail/Snowmobile Trail #448.

Specs: Protect trail infrastructure: limit harvest equipment crossing the trail, use appropriate sale specifications to protect the trail itself and all associated signage and markers. Use appropriate sale specifications to warn recreationists of treatments affecting the trail.

Next Step NonForestMgt, Other - Specify; Monitoring, Prescribed Burn
Treatments:

Acceptable grass
Regen:

Other
Comment:

Proposed Start Date: 1 /25/2019

8 54002008-Cutx	14.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	96	1-50	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 small size. Mark pine to retain in the south center to mimic savanna/barrens structure. Consider merging this southern most portion into the wildlife opening (see reference layer). The harvest extends into the next compartment, following topography and apparent stand outlines. Grouse log spec: 5.2.4.7 Oak wilt specs. The area contains the Big Bear 50" ORV Trail/Snowmobile Trail #448.

Specs: Protect trail infrastructure: limit harvest equipment crossing the trail, use appropriate sale specifications to protect the trail itself and all associated signage and markers. Use appropriate sale specifications to warn recreationists of treatments affecting the trail.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

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

Other May be a part of Winding Road burn units?
Comment:

Proposed Start Date: 10/1 /2020

16 54002016-Cut	5.5	4123 - Red Oak	Sawtimber Well	95	81-110	Harvest	Clearcut	330 - Low-Density Trees		Approved Proposal
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Acceptable grass
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
19	54002019-Cut	22.7	4123 - Red Oak	Sawtimber Well	96	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal

Habitat Cut: No

Site Condition:

Prescription Clearcut, leaving 3-10% retention. Suggested retention area: in the northeast near former rail grades. Oak wilt specifications.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: Acceptable regeneration includes any combination of maple, aspen, oak, jack pine, white pine and red pine leading to a medium to well-stocked stand.

Other Comment: May be included with Winding Barrens burn units?

Proposed Start Date: 10/1 /2020

29	54002029-Monitor	11.1	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Search for trees sufficient to meet acceptable regeneration.
Specs:

Next Step
Treatments:

Acceptable Regen: Any combination of aspen, oak, jack pine, red pine, or white pine resulting in a low to medium stocked stand.

Other Comment: Percent to Treat = 100%

Objectives of previous monitoring failed. Changing acceptable regeneration to low-medium stocking as a part of compartment review process.

Proposed Start Date: 10/1 /2028

31	54002031-Burn	38.3	330 - Low-Density Trees	Nonstocked	0	Unspecified	Burn	Other	3303 - Mixed Low Density Trees		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Burn as site prep for planting, for wildlife and for rare species. WLD DIV to prepare FTP for burn.

Specs: Hand plant, without trenching, desirable oak and pine if necessary.
Big Bear 50" ORV Trail/Snowmobile Trail #448. Protect trail infrastructure: use appropriate measures to protect the trail itself and all associated signage. Use appropriate measures to warn recreationists of treatments affecting the trail.
Next steps: Barrens restoration planting/rotational burning beginning 7-10 years following planting establishment.

Next Step Planting, Other - Specify; Burn, Opening; Monitoring, Artificial Regen(3yr); Monitoring, Prescribed Burn
Treatments:

Acceptable Regen: Grasses and forbs with native pine and deciduous associates in a barrens/savanna structure.

Other Comment: Percent to Treat = 100%

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
31	54002031-Monitor	27.5	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Search for trees sufficient to meet acceptable regeneration. If this stand is incorporated within the Ellsworth/Winding Rds pine barrens complex, protect trail infrastructure: use appropriate measures to protect the trail itself and all associated signage. Use appropriate sale specifications to warn recreationists of treatments affecting the trail.

Next Step
Treatments:

Acceptable Regen: any combination of aspen, oak, jack pine, red pine, or white pine resulting in a low to medium stocked stand.

Other Comment: Percent to Treat = 100%

Objectives of previous monitoring failed. Reducing acceptable regeneration to low-medium stocking as a part of compartment review process (YOE 2021).

Proposed Start Date: 10/1 /2028

44	54002044-Burn	35.7	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Burn	Opening	330 - Low-Density Trees		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Burn as site prep for planting, for wildlife and for rare species. WLD DIV to prepare FTP for burn.

Specs: Hand plant, without trenching, desirable oak and pine if necessary. Next steps: Barrens restoration planting/rotational burning beginning 7-10 years following planting establishment.

Next Step Monitoring, Prescribed Burn
Treatments: ; Planting, Other - Specify; ; Monitoring, Artificial Regen(3yr)

Acceptable Regen: Grasses and forbs with native pine and deciduous associates in a barrens/savanna structure.

Other Comment: Percent to Treat = 100%

Proposed Start Date: 10/1 /2020

113	54002054-Burn	68.2	310 - Herbaceous Openland	Nonstocked	0		Burn	Opening	3105 - Mixed Upland Herbaceous		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Burn as site prep for planting, for wildlife and for rare species. WLD DIV to prepare FTP for burn. Hand plant, without trenching, desirable oak and pine if necessary. Burn on rotation. Protect trail infrastructure: use appropriate measures to protect the trail itself and all associated signage. Use appropriate measures to warn recreationists of treatments affecting the trail. Big Bear 50" ORV Trail/Snowmobile Trail #448. Burn as site prep for planting, for wildlife and for rare species. WLD DIV to prepare FTP for burn. Hand plant, without trenching, desirable oak and pine if necessary.

Next steps: Barrens restoration planting/rotational burning beginning 7-10 years following planting establishment.

Next Step Burn, Opening; Monitoring, Prescribed Burn
Treatments: ; Planting, Other - Specify; Burn, Opening

Acceptable Regen: .

Other Comment: Percent to Treat = 100%

Proposed Start Date: 4 /1 /2018



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
57	54002057-Cut	18.9	42220 - Natural Jack Pine	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	3102 - Grass		Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Clear cut with retention. Retention will be in individual trees and clumps marked to leave. Clumps should grade into single trees and open spaces. Think "patchy mosaic". Whole tree harvest. Chip tops. Cut stumps low. Discuss with wildlife biologist this harvest's goals.

Next Step Burn, Other
Treatments:

Acceptable Regen: Non-forested barrens condition. After burning, native fire dependent grasses and forbs should recover.

Other Comment: Clumps will exist at XX basal area with a clear understory. These clumps will be about XX acres in size with approximately XX clumps within the current stand. [Specifics will follow the burn area management plan which is not finalized yet (august 2019)].

Proposed Start Date: 10/1 /2020

70	54002070-Burn	33.4	320 - Upland Shrub	Nonstocked		Unspecified	Burn	Opening	3105 - Mixed Upland Herbaceous		Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Continue to burn on cycle: Restore jack pine barrens using prescribed fire. Retain scattered shrubs and small trees (conifer and deciduous) and snags along with a mix of native herbaceous vegetation. Protect trail infrastructure: use appropriate measures to protect the designated ATV trail itself and all associated signage. Use appropriate sale specifications to warn recreationists of treatments affecting the trail.

Next Step Monitoring, Prescribed Burn
Treatments: ; Burn, Opening

Acceptable Regen: .

Other Comment: Jack pine barrens with several indicator/rare plant species. Used by elk in fall and winter; multiple species of greatest conservation need. Monitor fuels and vegetative composition/structure. Re-burn as deemed necessary to retain floral/faunal diversity

Proposed Start Date: 4 /1 /2018

75	54002075-Monitor	16.0	4199 - Other Mixed Upland Deciduous	Sapling Poor	5	Immature	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Search for enough trees.
Specs:

Next Step
Treatments:

Acceptable Regen: Any combination of aspen, maple, oak, jack pine, red pine and white pine yielding a poorly to moderately stocked stand.

Other Comment: Objectives of prior monitoring failed. Suggest accepting a stand of poor to moderate stocking as a part of the compartment review process.

Proposed Start Date: 10/1 /2028

79	54002079-Monitor	9.7	4131 - Aspen, Oak	Sapling Poor	5	Immature	Monitoring	Natural Regen (Re-Inventory)	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Search for enough trees.
Specs:

Next Step
Treatments:

Acceptable Regen: Acceptable regeneration is any combination of aspen, oak, jack pine, red pine, or white pine resulting in a low-medium stocked stand.

Other Comment: Percent to Treat = 100%

Objectives of previous monitoring failed. Changing acceptable regeneration to low-medium stocking as a part of compartment review process.

Proposed Start Date: 10/1 /2028



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
84	54002084-Cut	27.4	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	102	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Shortwood to protect advanced regeneration.

Specs: The 2" spec waived for non merchantable oak and pine. Cut stumps low. Chip tops. Oak wilt specs. The sale area contains the Buttles Pathway. This trail must not be crossed and requires two landings within the sale area. Protect trail infrastructure of the Buttles Pathway and the designated ATV trail: limit harvest equipment crossing the trail, use appropriate sale specifications to protect the trail itself and all associated signage and markers. Use appropriate sale specifications to warn recreationists of treatments affecting the trail. Long term retention must be placed as shown in the site conditions layer as further protection for the Buttles Pathway. A steep railroad embankment cuts off the northeast corner of the stand except for a narrow area which could be used for skidding/forwarding adjacent to the burn unit to the north.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Any combination of aspen, maple and oak with associated conifers achieving a low to moderate stocking

Regen:

Other The hope is for natural regeneration of low-medium stocking. If this succeeds, merge the five spot surrounded by the harvest into that stand
Comment: after the completion of the treatment. If this is not achieved, roller chop, herbicide, trench and plant red pine. The five spot will remain as a deciduous inclusion for wildlife purposes.

Proposed Start Date: 10/1 /2020

85	54002085-Monitor	2.0	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Look for trees sufficient to meet acceptable regeneration statement. Consider managing with the stand to the South.

Specs:

Next Step

Treatments:

Acceptable Any combination of native pines and native deciduous trees to make a stand of at least poor stocking.

Regen:

Other Previous monitoring failed. Suggest lowering density requirement as a part of compartment review process.

Comment:

Proposed Start Date: 10/1 /2028

96	54002096-Monitor	27.4	4199 - Other Mixed Upland Deciduous	Sapling Poor	5	Immatu re	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription search for enough trees.

Specs:

Next Step

Treatments:

Acceptable Any combination of aspen, maple, oak, red pine, white pine, jack pine or balsam fir yielding a stand of at least poor stocking.

Regen:

Other Objective of previous monitoring failed. Suggest accepting a stand of poor to medium stocking as a part of compartment review process.

Comment:

Proposed Start Date: 10/1 /2028

98	54002098-Monitor	13.9	330 - Low-Density Trees	Nonstocked			Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition:**

Prescription Search for enough trees.

Specs:

Next Step

Treatments:

Acceptable Any combination of aspen, maple, oak, red pine, white pine, jack pine or balsam fir yielding a stand of at least poor stocking.

Regen:

Other Objective of previous monitoring failed. Suggest accepting a stand of poor to medium stocking as a part of compartment review process.

Comment:

Proposed Start Date: 10/1 /2028



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
100	54002100-Burn	15.2	330 - Low-Density Trees	Nonstocked	0		Burn	Opening	330 - Low-Density Trees		Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Plan C: Burn to restore oak-pine barrens. Protect designated ATV trail infrastructure: use appropriate measures to protect the trail itself and all associated signage. Use appropriate sale specifications to warn recreationists of treatments affecting the trail.

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Prescribed Burn
Treatments: ; Other, Other

Acceptable Regen: Predominantly native grasses and forbs with associated native coniferous and deciduous tree species in savanna or barrens structure.

Other Comment: Percent to Treat = 100%

Proposed Start Date: 10/1 /2019

101	54002101-Monitor	49.3	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	4	Immature	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	Approved Proposal
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Habitat Cut: No **Site Condition:**

Prescription Survey for trees.
Specs:

Next Step
Treatments:

Acceptable Regen: Any combination of aspen, oak, maple, red pine, white pine and jack pine leading to a medium to well stocked stand.

Other Comment: The stand is recruiting well; deciduous trees should be free to grow (6' threshold) within a few years.

Proposed Start Date: 10/1 /2028

103	54002103-Monitor	7.7	330 - Low-Density Trees	Nonstocked	0		Monitoring	Natural Regen (Re-Inventory)	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Survey regeneration
Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable Regen: Acceptable regeneration is any combination of aspen, oak, jack pine, red pine, or white pine resulting in a low to medium stocked stand.

Other Comment: Percent to Treat = 100%

Objectives of previous monitoring failed. Changing acceptable regeneration to low-medium stocking as a part of compartment review process.

Proposed Start Date: 10/1 /2028

104	54002104-Monitor	10.1	4199 - Other Mixed Upland Deciduous	Sapling Poor	7	Immature	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	Approved Proposal
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Habitat Cut: No **Site Condition:**

Prescription Search for enough trees.
Specs:

Next Step
Treatments:

Acceptable Regen: Any combination of aspen, maple, oak, red pine, white pine, jack pine or balsam fir yielding a stand of at least poor stocking.

Other Comment: Objective of previous monitoring failed. Suggest accepting a stand of poor to medium stocking as a part of compartment review process.

Proposed Start Date: 10/1 /2028



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
106	54002106- Monitor	19.6	4199 - Other Mixed Upland Deciduous	Sapling Poor	7	Immature	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	Approved Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Search for trees.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Any combination of aspen, maple, oak, red pine, white pine, jack pine or balsam fir yielding a stand of at least poor stocking.											
<u>Regen:</u>											
<u>Other</u> Objectives of previous monitoring failed. Changing acceptable regeneration to low-medium stocking as a part of compartment review process.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2028											
112	54002112-Cut	12.7	42220 - Natural Jack Pine	Poletimber Poor	53	1-50	Harvest	Clearcut with Retention	3102 - Grass		Approved Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clear cut with retention. Retention will be in individual trees and clumps marked to leave. Clumps should grade into single trees and open spaces. Think "patchy mosaic". Whole tree harvest. Chip tops. Cut stumps low. Discuss with wildlife biologist this harvest's goals.											
<u>Specs:</u>											
<u>Next Step</u> Burn, Other											
<u>Treatments:</u>											
<u>Acceptable</u> Native grasses and forbs, especially after burning. Scattered single trees and clumps of trees.											
<u>Regen:</u>											
<u>Other</u> Clumps will exist at XX basal area with a clear understory. These clumps will be about XX acres in size with approximately XX clumps within the current stand. [Specifics will follow the burn area management plan which is not finalized yet (august 2019)].											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											
113	54002113x- Burn	2.0	310 - Herbaceous Openland	Nonstocked	0		Burn	Opening	3105 - Mixed Upland Herbaceous		Approved Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Burn on rotation. Normally burns with the stand to the east.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Prescribed Burn											
<u>Treatments:</u>											
<u>Acceptable</u> .											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 4 /5 /2019											
4	NF_54002004- NonFor	8.3	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Opening will be maintained on an ongoing rotational basis to produce wildlife forage or cover through burning, mowing, planting, or other agriculture practices											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> Old next step comments: monitor and repeat every 5 years or as needed to keep open											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/18/2018											



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
12	NF_54002012- NonFor	7.0	320 - Upland Shrub	Nonstocked			NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Reclaim opening by cutting brush Opening will be maintained on an ongoing rotational basis to produce wildlife forage or cover through
Specs: burning, mowing, planting, or other agriculture practices

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments: Monitor brush regrowth and repeat with cutting or mowing every 5 years or as needed to maintain as open.
Comment:

Proposed Start Date: 10/18/2018

64	NF_54002034- NonFor	2.0	42220 - Natural Jack Pine	Sapling Medium	34	Immatu re	NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mow and cut brush
Specs:

Would like to terminate. Not really much of an opening. More like a lightly stocked patch.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments: Monitor for effects, repeat mowing every 5 years
Comment:

Proposed Start Date: 4 /5 /2019

**Total Treatment
Acreage Proposed: 514.5**

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 2
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
1,478	1,321	101	56
	89%	7%	4%

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions						
					2B	5B	5C	1C	2F	3J	5E
118	101	0	17	Aspen					1	14	2
143	137	0	6	Herbaceous Openland							6
280	263	9	8	Jack Pine	9					2	6
123	117	0	6	Low-Density Trees							6
456	413	27	16	Mixed Upland Deciduous	27		0	1		6	10
75	29	46	0	Oak		0	46	0			
76	76	0	0	Red Pine			0				
110	88	20	3	Upland Mixed Forest		20	0			3	
48	48	0	0	Upland Shrub							
26	26	0	0	Urban							
23	23	0	0	Water						0	
1,478	1,321	101	56	Total Forested Acres	36	20	46	1	1	24	30
	89%	7%	4%	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	2	2F: Too steep	3D: Recreational / Scenic values	(Inactive)3I: Historical / archeological (add locked comments)	Unspecified
Comments: Long term retention for the clearcut to the east. Also along Buttles Pathway and ORV trail. Portions are in a steep cut on an old RR grade.							
2	Available	5B: Maintain for regeneration purposes	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very poor quality aspen in the overstory. Generally a widely spaced overstory. Understory maple and oak saplings seem poised for a better quality stand in the future (which a current harvest may damage).							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 2
Year of Entry: 2021

3	Unavailable	1C: Other dept or div proc/practices	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Believe was long term retention for the frost pocket burn area.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	1C: Other dept or div proc/practices	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for the stand to the east.							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for the stand to the north.							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 2
Year of Entry: 2021

10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 2
Year of Entry: 2021

18	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	2B: Unknown if access through adjacent landowner(s) is possible	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Attempts made in the past to use the private road (rolling hills trail) for hauling; landowner(s) refused to allow this. Otherwise haul route will have to be a less-than-direct and long route through state.							
20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: long term retention for harvest in the stand to the west.							
21	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: retention for harvest area to the west.							
22	Unavailable	1C: Other dept or div proc/practices	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	1	2F: Too steep	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments: Long term retention for the stand to the north.							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 2
Year of Entry: 2021

24	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	5E: Long-Term Retention	3	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Long term retention for the stand to the east. A kettle hole with a small wetland at the bottom.							
27	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	5E: Long-Term Retention	1	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Pretty steep. I'd say about 40%.							

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
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1	122 - Road/Parking Lot	Nonstocked	5.0	0		No	Meridian Line Road. Ground Cover: Bituminous Macadam.
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2	4123 - Red Oak	Sawtimber Well	5.4	94	111-140	N/A	"Meh" quality in the stand's south. Quality improves to the north. In the southern part of the stand form and size diminish.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	8	Pole/Sap/Log	8	
Red Oak	63	Log/Pole/XLog	11	94
Bigtooth Aspen	20	Log/Pole	13	

Canopy Species	Density	Avg. Height	Size
Red Maple	High	Variable	Sapling
Serviceberry (Juneberry)	Low	Variable	Tall Shrub

3	320 - Upland Shrub	Nonstocked	4.1			No	Scramble area, could use more boulders...
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Canopy Species	Density	Avg. Height	Size
Black Cherry	Trace	Variable	Sapling
Northern Pin Oak	Trace	Variable	Sapling
Red Maple	Trace	Variable	Sapling
White Pine	Trace	Variable	Sapling
Jack Pine	Trace	Variable	Sapling
Sweet Fern	Full	< 5 feet	Tall Shrub
Serviceberry (Juneberry)	Trace	5 - 10 feet	Sapling
Spotted Knapweed	High	Unspecified	Non-Wood

4	310 - Herbaceous Openland	Nonstocked	9.9			Managed Opening	Failed berm at the narrows between stand 5 and 8.
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Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	Variable	Sapling
Spotted Knapweed	High	Unspecified	Non-Wood
Sweet Fern	Full	< 5 feet	Tall Shrub
Mixed Grasses	High	Unspecified	Non-Wood
Jack Pine	Low	Variable	Sapling
Quaking Aspen	Trace	Variable	Sapling
Red Pine	Trace	Variable	Sapling
White Pine	Trace	Variable	Sapling
Big Bluestem	Trace	Unspecified	Non-Wood

5	4131 - Aspen, Oak	Poletimber Well	19.8	35	81-110	N/A	The area of the stand that surrounds the upland brush opening are made of somewhat steep ridges. The best growth occurs at the ridge tops. Red pine growth rings show rapid growth 1900-1950, poor growth 1950-1990, then better growth beginning again around 1990. This seems to support the roughly 30 year old age of the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	20	Sapling/Pole/Log	4	
Bigtooth Aspen	50	Pole/Sapling	6	35
White Oak	10	Log/Pole	12	

Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	5 - 10 feet	Sapling
Oak (spp.)	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
6	4123 - Red Oak	Sawtimber Well	10.8	104	81-110	N/A	Poorer quality and hybrid oak on down slopes. Shoulder slope and crests have some good red oak. If left on own, probably would succeed to white pine. Lewiston grade runs through it.																																														
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7	4199 - Other Mixed Upland Deciduous	Sapling Well	2.5	16	Immature	N/A	Surprising amount of white oak. Panhandle is a kettle depression.																																														
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8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	23.3	96	1-50	N/A	A wide range of ages that the stand examiner believes probably came from past species cuts. Quite a few saplings under a widely spaced log-sized canopy.																																														
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9	4199 - Other Mixed Upland Deciduous	Sapling Medium	21.3	37	1-50	N/A	Kinda open and crummy. Includes perhaps 15% log size trees of the previous stand. I would estimate their age at about 92-100 years old as many of the other trees their size in stands to the west. (borer broken) Air photos seem to indicate this was more or less open in the past.																																														
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10	4199 - Other Mixed Upland Deciduous	Sapling Well	19.8	39	81-110	N/A	White oak seedlings and saplings surprisingly common. Hard to nail down age. Essentially the age of the aspen agree with the cutting record. Site productivity and tree quality drop to the southeast, with pin oak becoming more common.																																														
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11	4133 - Aspen, Mixed Pine	Poletimber Poor	8.0	47	1-50	N/A	A few poor quaking aspen clones surrounded by grass and brush with sparse jack pine and hybrid oak. In the center is a kettle depression that is often wet.																																																																																																											
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12	320 - Upland Shrub	Nonstocked	7.8			No	More open than imagery suggests. Already has barrens/savanna structure but brush and saplings are encroaching. Valuable opportunity for ecological management.																																																																																																											
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13	4199 - Other Mixed Upland Deciduous	Sapling Well	5.0	35	1-50	N/A	Numerous standards left from previous stand, often making it to log size trees. However there are far more saplings. It seems there is a N-S social trail in the stand. Elk tracks.																																																																																																											
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14	4199 - Other Mixed Upland Deciduous	Sapling Well	1.7	16	Immature	N/A	Stand center is a little less dense but otherwise it has regenerated well.																																																																																																											
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15	4199 - Other Mixed Upland Deciduous	Sapling Well	1.6	16	Immature	N/A	Red maple particularly thick in the old rail grade. The center is open with more oak and also more browse pressure.																																																															
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16	4123 - Red Oak	Sawtimber Well	6.4	95	81-110	N/A	Areas of heavily browsed oak understory under 3 feet. Red maple is dense and sapling sized in the center.																																																															
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17	3104 - Degraded	Nonstocked	1.1	0		No	Gas pad with the usual assortment of invasive/exotics.																																																															
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18	4131 - Aspen, Oak	Sapling Poor	9.2	4	Immature	N/A	Overall the stand is moderately stocked and well stocked in the aspen areas. A large area that failed to regenerate was broken out as an opening. Origin: "Hotlanta Jack Pine". closed 2014.																																																															
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19	4123 - Red Oak	Sawtimber Well	22.7	96	81-110	N/A	Variable site and timber quality. SE of stand includes jack pine. South boundary liberally posted, single wire fence. Some oak exhibiting decline.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
20	310 - Herbaceous Openland	Nonstocked	1.9	0		No	This stand was broken out of the adjacent aspen/oak stand due to regeneration failure. It currently is an herbaceous open land dominated by sweet fern and cherry. Browse has also set this stand back. Two other areas that are non-stocked did not meet mapping rules and are inclusions of the aspen/oak stand.					
								Canopy Species	Density	Avg. Height	Size	
								Sweet Fern	Full	5 - 10 feet	Tall Shrub	
								Choke Cherry	Low	Variable	Sapling	
								Red Maple	Low	< 5 feet	Sapling	
Quaking Aspen	Low	< 5 feet	Sapling									
21	4199 - Other Mixed Upland Deciduous	Sapling Well	1.8	16	Immature	N/A	Red maple seems densest on the edge. Browse may have kept the more open oak dominated center short. Still most are above 3'.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	29	Sapling	1	16
								Red Oak	35	Sapling	1	16
								Bigtooth Aspen	18	Sapling	1	16
White Oak	10	Sapling	1									
22	42120 - Planted Jack Pine	Sapling Medium	20.0	25	1-50	N/A	Nice stand. Diameters and heights drop to the east.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	85	Sapling/Pole	4	25
								Canopy Species	Density	Avg. Height	Size	
Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub									
Blueberry/Bilberry/Cranberry	High	< 5 feet	Tall Shrub									
23	4131 - Aspen, Oak	Sapling Well	3.4	16		N/A	North unit has a frost pocket to its west. About half that unit westward to the frost pocket is heavily oak.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	14	Sapling	1	
								Red Oak	20	Sapling	1	
Bigtooth Aspen	50	Sapling	2	16								
24	4199 - Other Mixed Upland Deciduous	Sapling Medium	25.0	30	1-50	N/A	Site and timber quality generally declines as one moves eastward. A nice solid big tooth aspen clone in the southeast.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	30	Sapling	1	30
								Northern Pin Oak	25	Sapling	2	
								Jack Pine	15	Pole/Sapling	6	
								Bigtooth Aspen	10	Pole/Sapling	7	
Quaking Aspen	10	Pole/Sapling	5									
25	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	28.8	34	Immature	N/A	Single wire fence and signage along private. Many wildlife trails. Conifers look older than the rest of the stand. A probable frost pocket south of the old rail grade has relatively few trees. This and a few other places in the southern half of the stand have an almost open savanna-like feel.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern Pin Oak	40	Sapling/Pole	3	34
								Jack Pine	20	Pole/Sapling	6	
								Red Pine	10	Pole/Log	8	
Canopy Species	Density	Avg. Height	Size									
Blueberry/Bilberry/Cranberry	Full	< 5 feet	Tall Shrub									
Serviceberry (Juneberry)	Low	Variable	Tall Shrub									



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26	310 - Herbaceous Openland	Nonstocked	1.3		Unspecified	No																																																						
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27	4199 - Other Mixed Upland Deciduous	Sapling Well	6.9	16		N/A	Nice aspen. Each spot has its own character. Each is very well stocked. Browse on margins.																																																					
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28	4123 - Red Oak	Sawtimber Well	29.7	96	81-110	N/A	Red maple appears to have been species cut. Stand shows very heavy browse.																																																					
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29	330 - Low-Density Trees	Nonstocked	11.2	0	Unspecified	4122 - Oak, Pine	Much of the oak regeneration lies around 3 feet. As such it will keep this from becoming a forested stand until it outgrows the browse height. Browse pressure and competition with sweet fern seems pronounced in the west.																																																					
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30	42220 - Natural Jack Pine	Poletimber Medium	7.3	53	1-50	N/A	Common origin with stand 112 (likely). More or less open grown, probably natural jack pine.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
31	330 - Low-Density Trees	Nonstocked	70.7	0	Unspecified	4319 - Mixed Upland Forest	Origin: "Hotlanta Jack Pine". closed 2014. NE lobe is a regeneration failure. Portions around Matthews Rd are mod-well stocked. South of Winding Road probably low-moderately stocked. Regeneration failure in the western most lobe south of Winding Rd. Generally the deciduous regeneration is too short to call it a success.									
								Canopy Species	Density	Avg. Height	Size					
								Choke Cherry	Low	Variable	Sapling					
								Quaking Aspen	Medium	Variable	Sapling					
								Northern Pin Oak	Medium	< 5 feet	Sapling					
								Jack Pine	Medium	< 5 feet	Sapling					
								Sweet Fern	High	< 5 feet	Tall Shrub					
								Mixed Grasses	Low	Unspecified	Non-Wood					
Spotted Knapweed	Medium	Unspecified	Non-Wood													
32	42220 - Natural Jack Pine	Sapling Poor	9.3	34	Immature	N/A	Kettle depressions and frost pockets. South boundary is well posted (pvt) and looks like same ownership as to the west.									
								Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
								Jack Pine	75	Sapling/Pole	4	34	Sweet Fern	Medium	< 5 feet	Tall Shrub
								Northern Pin Oak	15	Sapling	1		Wintergreen	Medium	< 5 feet	Tall Shrub
													Big Bluestem	Low	Unspecified	Non-Wood
													Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
													Serviceberry (Juneberry)	Low	Variable	Tall Shrub
33	42120 - Planted Jack Pine	Sapling Well	19.2	25	Immature	N/A	Larger crowns in imagery are probably volunteers from the previous stand.									
								Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
								Jack Pine	91	Sapling	3	25	Blueberry/Bilberry/Cranberry	High	< 5 feet	Tall Shrub
35	4310 - Pine, Oak Mix	Sapling Medium	25.0	34	1-50	N/A	Origin: "Next Best Block" closed 1984. Roller chopped 1985. Very cool stand with lots of structural and species diversity. Liberally posted private boundary with old single wire fence. DNR monument on S E-W1/4 line on the on the N-S boundary between 5 and 6. Bearing trees present and painted. Nice big tooth clone nearby.									
								Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
								Northern Pin Oak	25	Sapling/Pole	2		Bilberry	High	< 5 feet	Tall Shrub
								Jack Pine	40	Sapling/Pole	4	34				
								Bigtooth Aspen	15	Pole/Sapling	5					
								White Oak	9	Sapling/Pole	2					
36	3104 - Degraded	Nonstocked	1.3		Unspecified	No										
								Canopy Species	Density	Avg. Height	Size					
								Spotted Knapweed	Medium	Unspecified	Non-Wood					
37	310 - Herbaceous Openland	Nonstocked	1.3		Unspecified	No										
								Canopy Species	Density	Avg. Height	Size					
								Spotted Knapweed	Medium	Unspecified	Non-Wood					
								Jack Pine	Trace	Variable	Sapling					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
38	42110 - Planted Red Pine	Poletimber Well	15.5	34	1-50	N/A	Jack pine tends to increase to the south and east. Just entering pole size class.																																			
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39	42120 - Planted Jack Pine	Sapling Well	7.4	28	Immature	N/A	Becoming a pole stand.																																			
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40	122 - Road/Parking Lot	Nonstocked	17.2			No	Ground cover: gravel and native surface material. Winding Road.																																			
41	42110 - Planted Red Pine	Poletimber Well	8.0	34	51-80	N/A	Red pine with jack pine volunteers (JP between rows). Becomes patchier with more openings to the south. Just entering the pole size class.																																			
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42	310 - Herbaceous Openland	Nonstocked	1.2	0	Unspecified	No																																				
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43	4310 - Pine, Oak Mix	Sapling Poor	53.3	13	Immature	N/A	Stand is low-medium stocking with most pin oak just below 6'.																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
44	310 - Herbaceous Openland	Nonstocked	42.5	0	Unspecified	Managed Opening	Origin: "Hotlanta Jack Pine". closed 2014. Pretty much like the stand to the east but with the addition of a few quaking aspen, a few more jack pine sprinkled generally throughout and a few pin oak saplings.									
								Canopy Species	Density	Avg. Height	Size					
								Jack Pine	Low	< 5 feet	Seeding					
								Northern Pin Oak	Low	Variable	Sapling					
								Quaking Aspen	Low	Variable	Sapling					
								Sweet Fern	High	< 5 feet	Tall Shrub					
								Big Bluestem	Medium	Unspecified	Non-Wood					
								Spotted Knapweed	Medium	Unspecified	Non-Wood					
								Choke Cherry	Medium	< 5 feet	Tall Shrub					
								Goldenrod spp.	Low	Unspecified	Non-Wood					
								St. Johns Wort	Low	Unspecified	Non-Wood					
Little Bluestem	Low	Unspecified	Non-Wood													
45	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	9.0	78	81-110	N/A	A fairly dense oak understory. Some kettle holes and steep topography. Some oaks and jack pine are declining.									
								Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
								Jack Pine	65	Pole/Log	9	78	Red Maple	Medium	10 - 20 feet	Sapling
								Northern Pin Oak	15	Log/XLog	14		Northern Pin Oak	High	10 - 20 feet	Sapling
								Red Maple	10	Pole	6		Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
								Bigtooth Aspen	7	Pole	7		White Oak	Low	10 - 20 feet	Sapling
													Beech	Trace	< 5 feet	Seeding
													Serviceberry (Juneberry)	Low	10 - 20 feet	Sapling
													Choke Cherry	Low	10 - 20 feet	Sapling
46	42220 - Natural Jack Pine	Poletimber Well	6.2	45	81-110	N/A	Nice stand.									
								Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
								Jack Pine	95	Pole/Log	8	45	Serviceberry (Juneberry)	Low	Variable	Tall Shrub
													Northern Pin Oak	High	5 - 10 feet	Sapling
													Jack Pine	Trace	< 5 feet	Seeding
													White Oak	Low	5 - 10 feet	Sapling
					Choke Cherry	Low	< 5 feet	Tall Shrub								
48	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	32.5	102	51-80	N/A	Merged former stand 30 into this one because no other surrounding stands represented it well enough. It was about the same with a touch more pine. Surprising amount of white oak north of the jack pine stand. Quaking aspen is on its way to making high grade culverts. Some large crowned oak in the east center of the stand. Lots of saplings and many are desirable. The log size trees make up a kind of broken overstory. I'm guessing this is the result of a past species cut.									
								Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
								Red Maple	20	Pole/Sap/Log	6		Red Maple	High	Variable	Sapling
								Quaking Aspen	10	Pole	7	49	Cherry (spp.)	Medium	Variable	Tall Shrub
								Northern Pin Oak	20	Log/Pole	12	102	White Oak	Low	Variable	Sapling
								Jack Pine	20	Log/Pole	10	90	Beech	Trace	10 - 20 feet	Sapling
Bigtooth Aspen	15	Log/Pole	12		Northern Pin Oak	Medium	Variable	Sapling								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
49	500 - Water	Nonstocked	5.2			No	Hidden Lake.			
50	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	8.0	34	1-50	N/A	Likely roller chopped 1985 (stand origin date). Some open areas, otherwise most oak easily make the 6' free-to-grow threshold. Browse especially evident on aspen in open areas. Eastern panhandle is low stocked and leaning toward pin oak but virtually all oak exceed 6'.			
		Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
		Jack Pine	38	Pole/Sapling	5	34	Serviceberry (Juneberry)	Low	Variable	Tall Shrub
		Northern Pin Oak	30	Sapling	1		Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub
51	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	6.0	62	51-80	N/A	The stand occupies a ridge between two kettle holes, one hidden lake, the other unknown wetland. Slopes leading to both are quite steep. Furthermore, these slopes should not be harvested to hinder ORV scrambling. There is a significant stringer of aspen in the southern third of the stand.			
		Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
		Quaking Aspen	35	Pole	6		Red Maple	Medium	Variable	Sapling
		Jack Pine	60	Pole	8	62	White Oak	Low	Variable	Sapling
							Northern Pin Oak	Medium	Variable	Sapling
52	122 - Road/Parking Lot	Nonstocked	1.7			No	Probably a compressing station.			
		Canopy Species	Density	Avg. Height	Size					
		Big Bluestem	Low	Unspecified	Non-Wood					
		Spotted Knapweed	High	Unspecified	Non-Wood					
		Sweet Fern	Medium	< 5 feet	Tall Shrub					
		Jack Pine	Trace	< 5 feet	Seeding					
53	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	40.9	25	1-50	N/A	Records show 1200 JP/acre planted 1994. Seedstock from Itasca Nurseries in MN "styrobloc" seedlot MI0152. Southern deciduous pockets are mostly oak dominated; those in the north mostly aspen dominated. Site productivity and tree quality diminish as one travels northward. In the far south some jack pine have already reached merchantable diameters. The north is almost exclusively saplings. Additionally bare openings with shrubs increase in frequency to the north. This was two stands initially that were merged because of the same planting date, similar species composition and the likelihood of their future combined management.			
		Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
		Jack Pine	75	Sapling/Pole	3	25	Bilberry	Medium	< 5 feet	Tall Shrub
		Northern Pin Oak	12	Sapling	1		Serviceberry (Juneberry)	Low	Variable	Sapling
		Quaking Aspen	7	Sapling/Pole	2		Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
55	42110 - Planted Red Pine	Poletimber Well	7.7	34	1-50	N/A	Becoming a pole stand. Productivity seems to decrease to the south.			
		Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
		Jack Pine	15	Pole/Sapling	5		Choke Cherry	Low	5 - 10 feet	Sapling
		Red Pine	80	Pole/Sapling	5	34	Northern Pin Oak	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
56	42220 - Natural Jack Pine	Poletimber Medium	20.6	35	51-80	N/A	Furrows evident in the middle portion of the stand. It seems it is mostly natural in origin but planting records also seem to indicate that jack pine was planted. Tree ages bear both out. The stand becomes increasingly less dense toward the east and west margins.																																								
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57	42220 - Natural Jack Pine	Poletimber Well	19.0	52	81-110	N/A	Red pine planted in 1960. It seems the jack pine is natural with a cohort about 50 and another one about 35. A few small patches of some very mature jack pine.																																								
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58	4131 - Aspen, Oak	Sawtimber Well	7.0	88	51-80	N/A	Crystal Lake. Quaking aspen is tipping out. Private cable fence may be too far north. Red oak in the NE of stand, farther south it's pin oak.																																								
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59	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	16.2	15	Immature	N/A	Buttles pathway runs E-W through the stand. The east half is moderately to well stocked in general, with a few open areas. The west half is a bit more open, more like low to medium stocking. West half was probably cut earlier than the east which was a part of the "Crystal Jack" sale closed in 2004. The west half features a sprinkling of trees left from the previous stand, including some larger crummy aspen and a kettle depression with relatively steep slopes.																																								
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60	42120 - Planted Jack Pine	Sapling Well	28.5	25	Immature	N/A	Stand is very dense. Walk thru would be difficult. Walked through a small bit of the SW side but otherwise edge called. May be walkable next time around.																																								
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61	42220 - Natural Jack Pine	Poletimber Well	6.2	76	51-80	N/A	Aspen is on the way out. The understory contains a lot of subcanopy pin oak and a few white oak. It would seem from this that the clear cut to the north would've been a slam dunk for oak regeneration but it wasn't.																																				
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63	4130 - Aspen	Sapling Well	15.4	29	Immature	N/A	Near total canopy cover yet some of the crummiest aspen the stand examiner seen on the northwest slope. The ridge top and southeast slope looks a little better. Jack pine stringer in the west and a goodly patch in the north.																																				
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64	42220 - Natural Jack Pine	Sapling Medium	5.1	34	Immature	N/A	Origin: "Next Best Block" closed 1984.																																				
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66	320 - Upland Shrub	Nonstocked	1.0		Immature	No																																					
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67	42110 - Planted Red Pine	Poletimber Well	19.3	34	51-80	N/A	Knolls in the far east and south of this stand are the most productive. As one moves north and west diameters and heights diminish, up to half the height of the areas of best productivity. There is some topography which may present problems in thinning.																																				
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68	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	6.3	15	Immature	N/A	Low density, widely spaced individual and clumps of log-sized jack pine surrounded by saplings that look like maybe 10-20 years old. Corridor to Crystal Lake.																																				
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70	320 - Upland Shrub	Nonstocked	33.5		Unspecified	Managed Opening	Frost pocket burn unit. Anecdotally there seemed to be few grasses represented in the burn unit before the 2017 burn. During 2019 inventory it seemed bluestems seemed to have better representation. Suggestion: burn more often to set back sweetfern and increase bluestem. Portions of the unit are taking on good barrens structure.					
								Canopy Species	Density	Avg. Height	Size	
								Big Bluestem	Medium	Unspecified	Non-Wood	
								Little Bluestem	Low	Unspecified	Non-Wood	
								Goldenrod spp.	Low	Unspecified	Non-Wood	
								Sweet Fern	High	< 5 feet	Tall Shrub	
								Spotted Knapweed	High	Unspecified	Non-Wood	
								Willow spp.	Low	< 5 feet	Tall Shrub	
								Choke Cherry	Low	Variable	Sapling	
								Jack Pine	Low	Variable	Sapling	
								Quaking Aspen	Trace	Variable	Sapling	
								Northern Pin Oak	Low	Variable	Sapling	
Sheep Sorrel	Low	Unspecified	Non-Wood									
71	4131 - Aspen, Oak	Sapling Medium	7.9	29	1-50	N/A	A pretty big open patch in the bottom 1/3 of the stand with trees standing singly or in clumps. Stand margins trend toward jack pine and northern pin oak. The north end of the stand features reasonably good quality quaking aspen.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	60	Sapling	3	29
								Northern Pin Oak	20	Sapling	1	
								Jack Pine	15	Pole/Sapling	5	
Canopy Species	Density	Avg. Height	Size									
Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub									
Northern Pin Oak	Low	Variable	Sapling									
72	500 - Water	Nonstocked	12.6			No	Crystal Lake. Little Crystal Lake adjacent to the East.					
73	42120 - Planted Jack Pine	Sapling Well	5.0	25	Immature	N/A	Edge called; too thick and branchy to walk through without facing imminent mortality.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	97	Sapling	3	25
Canopy Species	Density	Avg. Height	Size									
Hawthorn (spp.)	Low	Variable	Tall Shrub									
75	4199 - Other Mixed Upland Deciduous	Sapling Poor	16.0	5	Immature	N/A	Of the three stands (current 75, 79 and 85) cut as a part of "Atlanta's Hogan's Goat", closed 2014, generally areas that jack pine dominated do not show adequate regeneration. However, jack pine seedlings may be present under the snow. Regen is best in far southwest and a knoll in northeast. Over all enough seedlings but oak is too short at 3 to 5'. Stand examiner believes will become about moderately stocked once oak is free to grow. Considerable browse in this and adjacent stand recently cut. Regen fail for now.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern Pin Oak	45	Sapling	1	5
								Quaking Aspen	25	Sapling	1	
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Bigtooth Aspen	10	Sapling	1									



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76	4133 - Aspen, Mixed Pine	Sawtimber Well	7.0	93	81-110	N/A	Stand protects Crystal Lake as a filter strip. The canopy is decadent and falling apart. The pin oak is falling apart while the big tooth is holding together for the moment. The south side of the lake features a mixed natural pine inclusion. T-posts and no trespassing signs indicate the private line on the south boundary. Beavers have cut a channel between Crystal Lake and Little Crystal Lake.																																																															
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78	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	19.4	28	1-50	N/A	With the exception of a small somewhat open area, southern portions are fully stocked with free to grow jack pine poles and pin oak saplings. The northern portion is similar but trends more toward jack pine. As one moves northward, trees become more widely spaced. A large frost pocket is in the northeast.																																																															
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79	4131 - Aspen, Oak	Sapling Poor	10.9	5	Immature	N/A	Of the three stands (current 75, 79 and 85) cut as a part of "Atlanta's Hogan's Goat", closed 2014, generally areas that jack pine dominated do not show adequate regeneration. However, jack pine seedlings may be present under the snow. Origin: "Atlanta's Hogan's Goat" closed 2014. South lobe well stocked big tooth aspen and oak. West lobe poor to med quaking aspen and northern pin oak. North lobe some good spots but overall not stocked due to oak not above browse line. Heavy browse evident, mostly on stand margins. It's possible the stand will be stocked in future.																																																															
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80	4199 - Other Mixed Upland Deciduous	Sapling Poor	7.6	16	Immature	N/A	In general just about moderately stocked. Westernmost unit is probably low stocking. Considerable browse, still many saplings reaching the 5-6' level now. Some areas would be non-stocked but for the aspen and red maple. The eastern pods of this stand tend to have increased (scrub) oak representation. In general, it seems site quality decreases west to east.																																																															
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81	42110 - Planted Red Pine	Sapling Well	14.5	34	1-50	N/A	Field observations bear out planting records; there were patches that contained more jack pine and aspen, however not so much oak. The stripe in the middle of the northern unit may be an old rail grade.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
82	4199 - Other Mixed Upland Deciduous	Sapling Medium	12.4	37	1-50	N/A	East side is very poor quality and stocking is low. Aspen concentrated in the middle and is very poor quality. Oak seems to do better. Characterized by stump sprouts and individual saplings with widely spaced declining oak and jack pine in the supercanopy. Stand quality seems to improve to the west.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Jack Pine		15	Pole	6	51	Choke Cherry		Medium	< 5 feet	Sapling
Quaking Aspen		30	Sapling/Pole	3	52	Hawthorn (spp.)		Low	< 5 feet	Tall Shrub
Northern Pin Oak		45	Sapling/Pole	3	37	Northern Pin Oak		Medium	< 5 feet	Sapling
83	4130 - Aspen	Sapling Well	12.0	29	1-50	N/A	Private line indicated with t-posts and signage in the south. Best productivity in the west in a big tooth clone with a few rare trees reaching 3 sticks already. Stand and site quality drop as one moves north and east and higher in landscape position. More oak representation at the ridge top adjacent to the oak stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Maple		10	Sapling	1		Red Maple		Medium	Variable	Sapling
Quaking Aspen		50	Sapling/Pole	3	29	Serviceberry (Juneberry)		Low	Variable	Sapling
Northern Pin Oak		14	Sapling	1						
Bigtooth Aspen		15	Sapling/Pole	4						
84	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	28.7	102	51-80	N/A	The understory is almost solid pin oak regen throughout but this become less in the south. Stingers of somewhat younger jack pine and quaking aspen mostly north of the center of this stand. Relatively low basal area, the occasional presence of oak decline, aspen senescence, general patchiness, and large crowned stump sprouted log-sized oak characterize this stand. Fairly diverse species composition and stand structure.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Quaking Aspen		20	Log/Pole	10	67	Serviceberry (Juneberry)		Low	Variable	Tall Shrub
Northern Pin Oak		50	Log/Pole	12	102	Hawthorn (spp.)		Trace	5 - 10 feet	Tall Shrub
Jack Pine		20	Pole/Log/Sap	7	62	Northern Pin Oak		Medium	Variable	Sapling
						Red Maple		Medium	Variable	Sapling
						White Pine		Low	Variable	Sapling
						Beech		Trace	< 5 feet	Tall Shrub
						White Oak		Low	Variable	Sapling
85	330 - Low-Density Trees	Nonstocked	2.0	0	Unspecified	412 - Oak Types	South 3/4 virtually devoid of acceptable regen. North 1/4 is oak below browse height.			
Canopy Species		Density	Avg. Height	Size						
Choke Cherry		Medium	< 5 feet	Tall Shrub						
Northern Pin Oak		Medium	< 5 feet	Seeding						
86	4132 - Aspen, Jack Pine	Sapling Poor	2.3	30	Immature	N/A	Very poor aspen: 30 years old, not a single stick and already dying. Open stand character.			
Canopy Species		% Cover	Size Class	DBH	Age					
Quaking Aspen		40	Sapling	3	30					
Jack Pine		20	Sapling	3						
Northern Pin Oak		30	Sapling	1						
Choke Cherry		8	Sapling	1						
88	3104 - Degraded	Nonstocked	0.9		Unspecified	Managed Opening				
Canopy Species		Density	Avg. Height	Size						
Sweet Fern		High	< 5 feet	Tall Shrub						
Spotted Knapweed		Medium	Unspecified	Non-Wood						
Big Bluestem		Low	Unspecified	Non-Wood						



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91	42110 - Planted Red Pine	Sawtimber Well	10.7	65	81-110	N/A	Just coming into saw size. QD reveals there's not enough density to justify thinning.																																																																							
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92	500 - Water	Nonstocked	5.0			No	McMullen Lake.																																																																							
93	4311 - Pine, Aspen Mix	Poletimber Medium	22.4	60	1-50	N/A	A very confusing stand that seems like it might have been the result of a past species cut. North-south brushy stringer in the middle that's mainly serviceberry, cherry and oak. Some ostensibly natural red pine, about 60 years old, is quite dense along the kettle lake to the south. There seems to be a cohort of pine and oak around 80 -100 as well (estimate). Merchantable trees seem widely spaced mostly. Aspen in all age classes look terrible. Enough saplings exist to tempt one to call it a sapling stand...																																																																							
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94	4131 - Aspen, Oak	Sapling Poor	15.6	5	Immature	N/A	Passes natural regeneration monitoring. Fully stocked ridgetop of aspen and oak. There are scattered red pine standards. As one moves toward McMullen Lake, stocking drops to poor. Over all, moderately stocked.																																																																							
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95	4310 - Pine, Oak Mix	Sapling Medium	5.1	26	Immature	N/A	Widely spaced trees, especially when not in jack pine dominated patches.																																																																							
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96	4199 - Other Mixed Upland Deciduous	Sapling Poor	27.4	5	Immature	N/A	Oak, once again, is the limiting factor in stocking. Most oak currently 4-6' high. Stand examiner believes most oak will continue to grow into free-to-grow trees. Considerable browse to oak. A few scattered pine and oak standards. Quaking aspen doghair in the southwest. Currently poorly stocked: areas ranged from non to well stocked. The stand fails the monitoring treatment but if the same criteria are used in 10 years, it may be otherwise.																																																																							
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97	310 - Herbaceous Openland	Nonstocked	1.0			No					
								Canopy Species	Density	Avg. Height	Size
								Sweet Fern	Medium	< 5 feet	Tall Shrub
								Spotted Knapweed	Medium	Unspecified	Non-Wood
Big Bluestem	Low	Unspecified	Non-Wood								
98	330 - Low-Density Trees	Nonstocked	16.0			412 - Oak Types	Origin: "Atlanta's Hogan's Goat" closed 2014. Eastern portion south of the mixed jack pine and pin oak stand are poorly stocked. Oak present are primarily around 3 feet and not free to grow. Northwest quarter is well stocked quaking aspen. Plenty of pin oak besides but too short over all; low-stocking. Stocking seems poorer nearer to Winding Road.				
								Canopy Species	Density	Avg. Height	Size
								Northern Pin Oak	High	< 5 feet	Sapling
								Quaking Aspen	Medium	Variable	Sapling
								Choke Cherry	Medium	< 5 feet	Sapling
								Willow spp.	Low	< 5 feet	Sapling
								Bigtooth Aspen	Low	>20 feet	Sapling
								Red Pine	Trace	< 5 feet	Sapling
								Jack Pine	Trace	5 - 10 feet	Sapling
								White Pine	Trace	5 - 10 feet	Sapling
								99	3102 - Grass	Nonstocked	0.9
Canopy Species	Density	Avg. Height	Size								
Big Bluestem	Low	Unspecified	Non-Wood								
Choke Cherry	Low	< 5 feet	Tall Shrub								
Spotted Knapweed	Medium	Unspecified	Non-Wood								
Jack Pine	Trace	< 5 feet	Sapling								
100	330 - Low-Density Trees	Nonstocked	15.2			412 - Oak Types	A good portion of the stand, especially near Winding Road has not recruited well. Wide areas are non-stocked or poorly stocked. The western half of the stand is regenerating perhaps at a roughly a moderate stocking level. The cover is probably about 45% pin oak (diameter 1"), 35% jack pine (diameter, 1"), 10% quaking aspen (diameter 1"), 3% white pine (diameter 2"), 2% red pine (diameter 2"). Formerly suppressed oak are the ones free to grow. These are concentrated in the west. Oak stump sprouts in the east half tend to be browsed to about 3' and are not free to grow.				
								Canopy Species	Density	Avg. Height	Size
								Spotted Knapweed	Medium	Unspecified	Non-Wood
								Sweet Fern	High	< 5 feet	Tall Shrub
								Big Bluestem	Low	Unspecified	Non-Wood
								Little Bluestem	Low	Unspecified	Non-Wood
								Northern Pin Oak	Medium	Variable	Sapling
								Jack Pine	Medium	Variable	Sapling
								Quaking Aspen	Low	Variable	Sapling
								Canopy Species	% Cover	Size Class	DBH
Jack Pine	30	Sapling	1	5							
Northern Pin Oak	40	Sapling	1	5							
Choke Cherry	25	Sapling	1								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
101	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	49.4	4	Immature	N/A	The periphery features more oak. The center seems to trend more toward red maple and aspen. There are a few frost pockets/kettle depressions that reduce canopy cover. The stand, however, has recruited well generally.																																			
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102	320 - Upland Shrub	Nonstocked	1.5	0		No	Most trees show browse. (Previous inventory: A natural "U" stand, in an ice-feature frost pocket. Was thought to be less than 1 acre when mapped in IFMAP.)																																			
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103	330 - Low-Density Trees	Nonstocked	7.6	0		42221 - Natural Jack Pine, Mixed Deciduous	Not a ton of jack pine. However there were enough deciduous stump sprouts that made it look about moderately stocked. A little less dense in the south. The stump sprouts need a little more time to reach the 6' browse height, therefore another monitoring.																																			
104	4199 - Other Mixed Upland Deciduous	Sapling Poor	11.1	7	Immature	N/A	Retention located in the stand's south, the steep slope leading to Hidden Lake. Plenty of oak in the stand's south, about 1/2 free to grow. Elsewhere stocking is probably low-medium. Pine retained within the cut portion of the stand, especially in the south. Monitor treatment is a fail. Stocking too low because too much oak is not free to grow. PArVHa. Formerly stand 42 (2009), and before that, stand 50 (1991). This was the remainder of of unit 1 of "Best Block" that remained uncut at the sale's closure in 1984. Finally cut in "Hidden Lakes Mix" closed 2012.																																			
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105	4199 - Other Mixed Upland Deciduous	Sapling Medium	63.8	7	Immature	N/A	Considerable browse on oak below 5'. Oak is free to grow at a low-moderate stocking. Oak is more prominent in the north. When including red maple, aspen etc, the stand is at least moderately stocked. Some hill tops seem to have lower stocking. Big tooth may be found on ridge tops. Cut in "Hidden Lakes Mix" closed 2012.																																			
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106	4199 - Other Mixed Upland Deciduous	Sapling Poor	19.6	7	Immature	N/A	Heavy browse in many areas. The stand is forested at the low stocking level by virtue of just enough vigorous red maple, aspen and pin oak sprouts reaching above 6'. The center-north of the stand is quite sparse but probably still just barely at a low stocking. Changing the acceptable regeneration density as a part of the compartment review process to low-med. The stand examiner believes that the stand will continue to recruit to at least a medium stocking level as sprouts exceed the browse height in the future.																																								
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107	122 - Road/Parking Lot	Nonstocked	2.3	0		No	Ellsworth Road. Gravel.																																								
109	42120 - Planted Jack Pine	Poletimber Well	47.0	34	51-80	N/A	Becoming a pole stand. A hill in the southeast has good productivity and contains more red pine and oak saplings than other areas. Poorer growth found in the north.																																								
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112	42220 - Natural Jack Pine	Poletimber Poor	12.9	53	1-50	N/A	Ratty open grown jack pine, natural origin. Air photos indicate the area corresponding to this stand never grew especially dense stands and perhaps suggests a natural barrens. Tree quality will not likely be markedly better in the future. Good amount of big bluestem around the gas pad. Northeast features some scattered one-stick red pine. Seems this stand has a common origin with the north half of stand 65 south of the burn unit.																																								
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113	310 - Herbaceous Openland	Nonstocked	70.0	0		Managed Opening	Origin: Burnt Thistle sale, closed 2006. Currently maintained as an opening/barrens. Significant amounts of invasive/exotics.																																								
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117	4310 - Pine, Oak Mix	Sapling Well	4.4	28	1-50	N/A	Some nice patches of solid pin oak, solid jack pine and a mix of the two all under a widely scattered canopy of declining pin oak.																																	
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122	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	10.2	34	1-50	N/A	The stand becomes increasingly open to the north, with quaking aspen filling some of that space. There are also pods of slightly older jack pine of about 42 years which must have been volunteers from the prior stand. Looks like a rail grade or ice road in the east.																																	
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123	500 - Water	Nonstocked	0.3	0		No	Kettle Lake, unknown name.																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
125	3104 - Degraded	Nonstocked	1.2	0		No					
								Canopy Species	Density	Avg. Height	Size
								Spotted Knapweed	High	Unspecified	Non-Wood
								Sweet Fern	High	< 5 feet	Tall Shrub
								Quaking Aspen	Trace	< 5 feet	Seeding
126	310 - Herbaceous Openland	Nonstocked	1.0	0		No	Snow depth too great to determine more species.				
								Canopy Species	Density	Avg. Height	Size
								Jack Pine	Trace	< 5 feet	Sapling
								Choke Cherry	Low	Variable	Sapling
								Blackberry/Raspberry	Trace	< 5 feet	Tall Shrub
127	3104 - Degraded	Nonstocked	1.2	0	Unspecified	No	"Good Corner Block", closed 1984, was a clearcut in this stand. The jack pine, now an opening in the south and west of this stand were once an part of the same stand that was portioned off into fire wood sales. The long private line was anchored by "one good corner", hence the name. No discussion of the second corner however! A jack pine "screen" left on western boundary.				
								Canopy Species	Density	Avg. Height	Size
								Jack Pine	Low	Variable	Sapling
								Spotted Knapweed	High	Unspecified	Non-Wood
								Sweet Fern	High	< 5 feet	Tall Shrub
135	3104 - Degraded	Nonstocked	1.3	0	Unspecified	No	Old well site.				
								Canopy Species	Density	Avg. Height	Size
								Spotted Knapweed	Medium	Unspecified	Non-Wood
								Sweet Fern	Medium	< 5 feet	Tall Shrub
136	3102 - Grass	Nonstocked	0.7	0		No					
								Canopy Species	Density	Avg. Height	Size
								Big Bluestem	Medium	Unspecified	Non-Wood
								Spotted Knapweed	Medium	Unspecified	Non-Wood
								Northern Pin Oak	Trace	5 - 10 feet	Sapling
								Bigtooth Aspen	Trace	< 5 feet	Sapling
								Jack Pine	Trace	10 - 20 feet	Sapling