



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54101

Entry Year 2019

Acreage: 1,629

County Alpena

Management Area: Alpena Lake Plain

Revision Date: 2017-05-26

Stand Examiner: Daniel Natzke

Legal Description:

T31N, R7E, Sec. 5, 8 & 17, portions of NWSW Sec. 4, portions of E1/2 NE Sec 7, and portions of W1/2 NW Sec. 9.

Identified Planning Goals:

This compartment's identified planning goals include wetlands protection, balanced aspen age classes within the management area and lowland conifer regeneration.

Soil and topography:

Predicted habitat types are mostly lowland and PARVCo. The compartment is flat, except for sandy ridges. The lowlands have organic muck soils.

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

The compartment is surrounded mainly by other state land, several hunting camps and a subdivision to the north.

Unique Natural Features:

None currently reported.

Archeological, Historical, and Cultural Features:

While there is a section here that contains an archaeological site, the site is not located on state land. Therefore, we have no concerns about treatments in this compartment.

Special Management Designations or Considerations:

Access is difficult due to extensive wetlands. Extensive road work may be necessary to manage the compartment's center.

Watershed and Fisheries Considerations:

None currently reported.

Wildlife Habitat Considerations:

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

Mineral Resource and Development Concerns and/or Restrictions

Sections 4-5, 7-9, & 17, T31N R7E, Alpena County

There is no metallic mineral potential in this part of the state. The closest sand/gravel pit is located more than three miles to the southwest. Sand and gravel potential within the compartment appears to be limited. Bedrock is at or near the surface in places in this area. A former rock quarry is located just over one mile to the southwest and limestone is actively quarried around Alpena. There may be limestone potential beneath the compartment. This area has not seen any drilling for oil and gas. Potential is considered low.

Vehicle Access:

Access is difficult due to extensive wetlands. Furthermore, poor condition and failed forest roads and trails characterize the limited access to the middle of the compartment. Extensive road work may be necessary to manage the compartment's center.

Survey Needs:

Stand 13, lowland aspen, adjacent to Shannon Road, is slated for treatment within the current inventory cycle. During inventory, no corners were found to identify the true location of the private boundary. If these corners cannot be found prior

to sale establishment, a survey will be necessary.

Recreational Facilities and Opportunities:

Hunting is the compartment's primary recreational opportunity.

Fire Protection:

Adequate. There are no heavy slash loads at this time. The compartment is located in Maple Ridge Township. Nearest fire protection is available from Michigan DNR (Alpena), Alpena City and Maple Ridge Township.

Additional Compartment Information:

No additional information noted.

The following reports from the Inventory are attached:

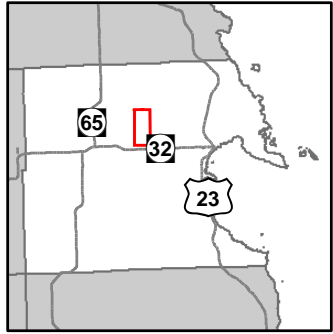
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

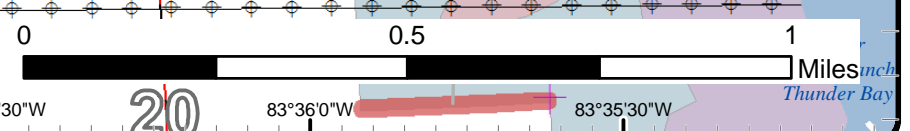
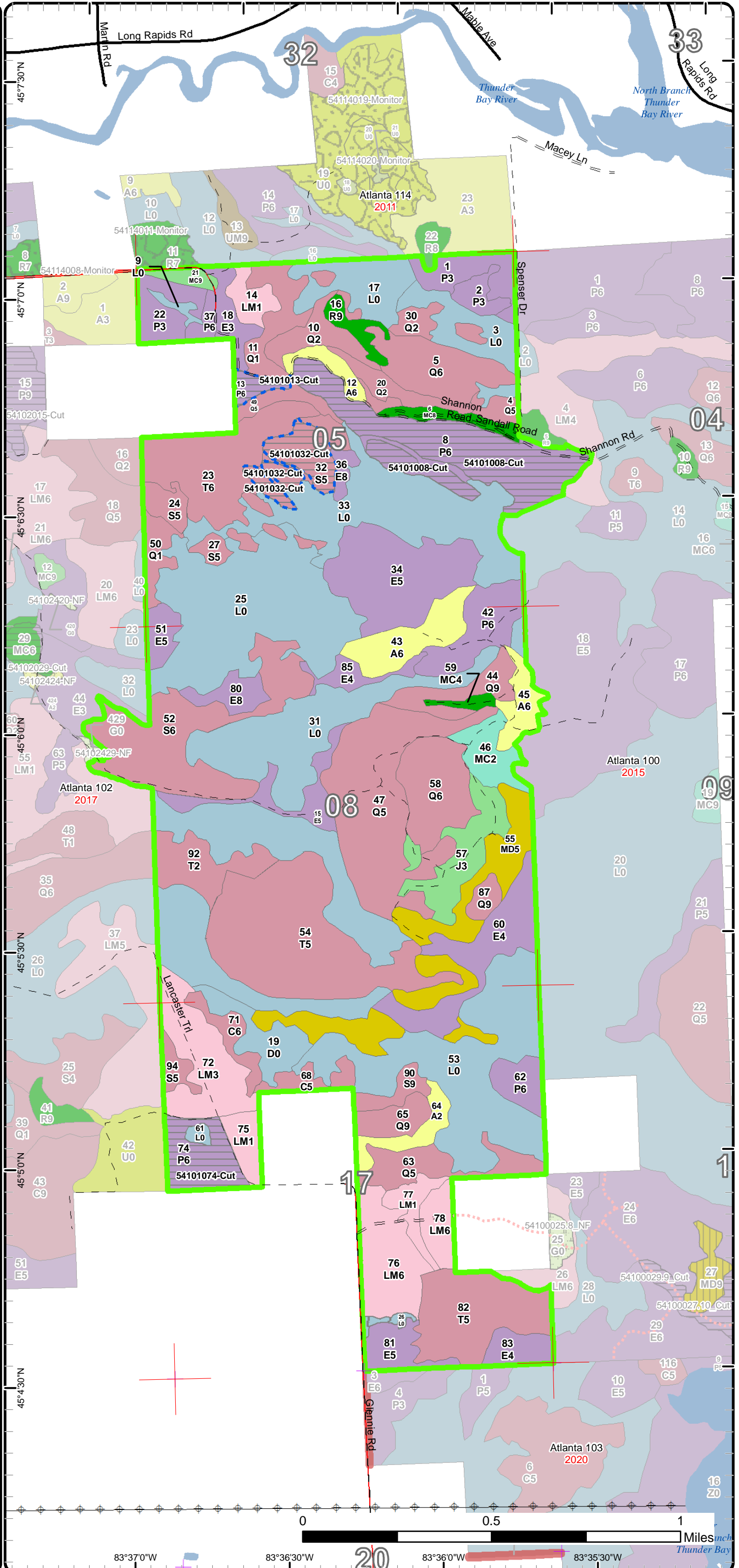
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 101
 T31N, R07E, Sec: 5, 8, 17
 County: Alpena
 Unit: Atlanta
 Mgmt Area: Alpena Lake Plain
 YOE: 2019
 Acres: 1628.9 GIS Calculated
 Examiner: Daniel Natzke
 Map Revised: 10/4/2017
 Map Phase: Post-Review

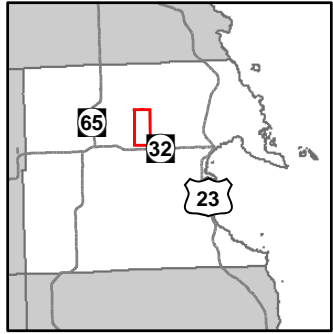


- Miris Corners
- + Remonumented Section Corners
- Counties
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Regeneration Survey
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 622 - Lowland Shrub
- Lakes

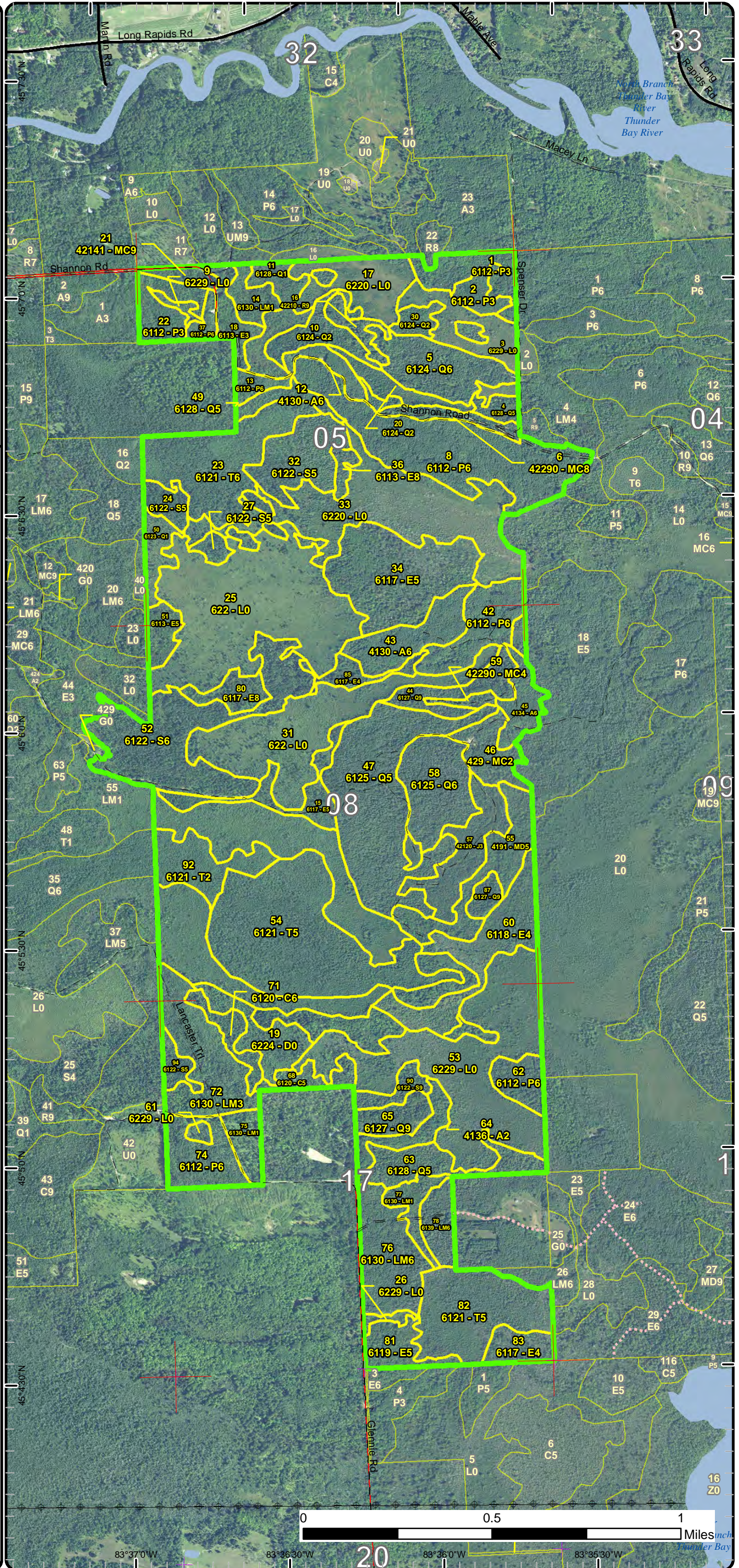


Stand Boundary Map

Compartment: 101
 T31N, R07E, Sec: 5, 8, 17
 County: Alpena
 Unit: Atlanta
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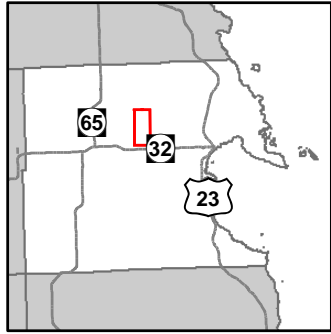


- Miris Corners
- Remonumented Section Corners
- Counties
- Paved Roads
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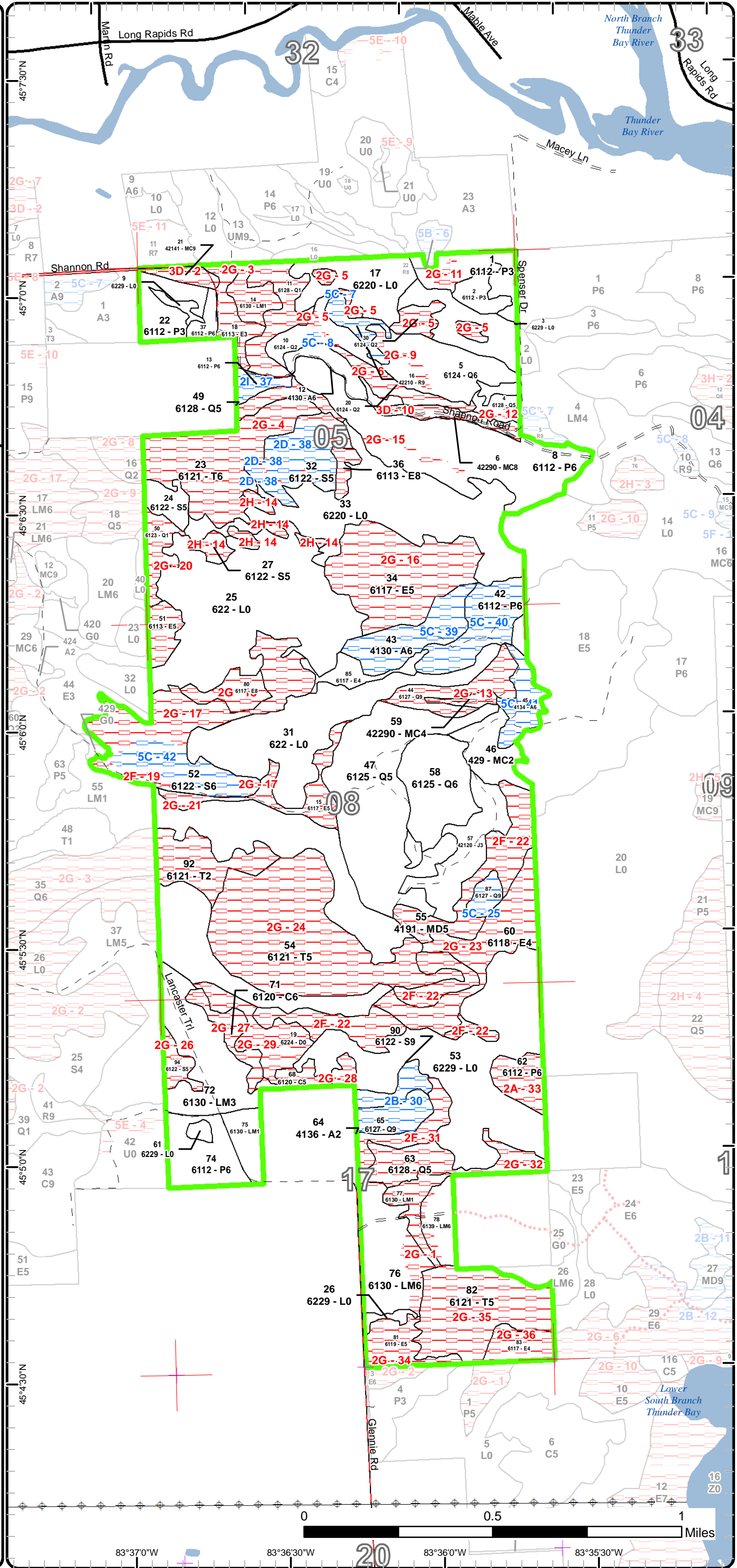


Special Conservation Areas & Site Conditions Map

Compartment: 101
 T31N, R07E, Sec: 5, 8, 17
 County: Alpena
 Unit: Atlanta
 Mgmt Area: Alpena Lake Plain
 YOE: 2019
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- Miris Corners
- + Remonumented Section Corners
- Counties
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2A: Adjacent landowner denied access
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- Stand Boundaries



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	0	0	10	0	40	0	0	0	0	0	0	0	0	0	0	0	0	50
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	8	9	0	0	0	0	17
Jack Pine	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Lowland Aspen/Balsam Poplar	0	0	0	14	22	108	20	0	0	0	0	0	0	0	0	0	0	0	164
Lowland Conifers	0	0	0	0	16	33	77	43	34	10	0	15	20	0	0	0	0	0	248
Lowland Deciduous	0	0	0	0	0	10	0	7	64	16	51	0	9	0	0	0	0	0	157
Lowland Mixed Forest	0	0	0	0	9	81	0	11	0	0	0	0	0	0	0	0	0	0	101
Lowland Shrub	457	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	456
Lowland Spruce/Fir	0	0	0	0	0	6	0	0	77	0	0	7	25	0	0	0	0	0	115
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	53	0	0	0	0	0	0	0	0	53
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	10
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Red Pine	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	6
Tamarack	0	0	0	0	0	20	42	0	0	0	0	130	0	0	0	0	0	0	191
Treed Bog	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Upland Conifers	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Total	474	0	0	24	86	298	139	61	175	79	66	159	62	9	0	0	0	0	1629



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 101

Total Compartment Acres: 1,629

Commercial Harvest - 83
 Harvests with Site Condition - 24
 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
Lowland Aspen/Balsam Poplar	88	0	0	0	0	0	0	0	0	88
Lowland Spruce/Fir	19	0	0	0	0	0	0	0	0	19
Total	107	0	0	0	0	0	0	0	0	107

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	107	0	0	0	0	0	2	0	0	110
Next Step	0	0	0	0	0	0	107	0	0	107
Total	107	0	0	0	0	0	110	0	0	217

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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 54101008-Cut	63.2	6112 - Lowland Aspen	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clear cut with retention: focus a couple large retention pockets in fir and lowland conifer dominated areas along and near Shannon Road. These areas serve to visually break up the harvest area while representing the lowland aspen type along with the conifers. Total harvested acreage may be reduced due to wet areas. A wet alder swale separates the stand in the southern quarter. Crane mats or corduroy should be adequate to cross this short distance for harvest, however if during sale establishment it appears access will be impossible, the total sale acreage may be reduced. Harvest only during frozen or dry ground conditions. Include grouse and raptor specifications. Leave all pine 18" DBH or larger. Consider a three year contract.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration includes any combination of aspen, red maple, balsam fir, black spruce, white spruce, tamarack and paper birch to yield a moderate to well stocked stand.

Other Comment:

Proposed Start Date: 10/01/2018

13 54101013-Cut	4.8	6112 - Lowland Aspen	Poletimber Well	46	111-140	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	Approved Proposal
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Habitat Cut: No**Site Condition: Survey Needed**

Prescription Clearcut: Due to this stand's small size, no retention is necessary; however, wet areas may be used for retention. These areas may reduce the total future harvested acreage. Harvest only during frozen or dry ground conditions. Include grouse log and raptor specifications. Consider a three year contract.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable Regeneration is any combination of aspen, red maple, balsam fir and paper birch leading to a medium to well stocked stand.

Other Comment:

Proposed Start Date: 10/01/2018

32 54101032-Cut	19.3	6122 - Black Spruce	Poletimber Medium	119	51-80	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Portable Bridge Needed**

Prescription Clear cut with group retention: Leave about three large group retention areas spread evenly throughout the stand of approximately one acre apiece focusing on younger, more vigorous spruce. Locate retention about 2 chains from the western stand boundaries, about 4 chains from the eastern stand boundaries and about 4 chains apart, edge-to-edge, to optimize natural seeding. Whole tree skidding may be desirable for seedbed preparation. Scatter remaining slash throughout the stand. Final harvested acreage also may be reduced with the inclusion of wet areas into retention. Protect swales that bisect the treatment area during sale establishment.

Specs:

Harvest only during dry or frozen conditions. A corduroy or crane mats will be necessary to reach this stand. This effort to protect soils and hydrology likely will extend 300 feet or more from the lowland aspen stand before reaching more solid ground in the interior of the spruce stand. Consider a three year contract.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is any combination of black spruce, paper birch, tamarack, red maple and balsam fir leading to a medium to well stocked stand.

Other Comment:

Proposed Start Date: 10/01/2018



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
74	54101074-Cut	20.0	6112 - Lowland Aspen	Poletimber Well	57	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Approved Proposal

Habitat Cut: No**Site Condition:**

Prescription Clear cut with retention: Leave 3-10% area retention. Focus retention in the stand's north near the woods road and the wet swale connecting the lowland brush stand to the adjacent stand to the west. Harvest in frozen winter or dry summer conditions only. Consider a three year contract. Wet areas may reduce the total harvested acreage. Include grouse log and raptor specifications.

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

Acceptable Regen: Acceptable regeneration is any combination of quaking aspen, big tooth aspen, balsam poplar, balsam fir, white spruce and paper birch leading to a medium to well-stocked stand.

Other Comment:

Proposed Start Date: 10/01/2018

26	54101076-Monitor	2.2	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Out of sequence regeneration check in 2022. Ensure regeneration succeeds. Stand's origin: 2011 (Glennie Gleanings sale).
Specs:

Next Step
Treatments:

Acceptable Regen: Acceptable regeneration is any combination of aspen, red maple, oak, spruce, balsam fir, white pine and jack pine resulting in a medium to fully stocked stand.

Other Comment: Percent to Treat = 100%

Proposed Start Date: 10/01/2021

Total Treatment Acreage Proposed: 109.5

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 101
Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition		Acres Not Available	Dominant Site Conditions									
					2B	2D	2I	5C	2A	2F	2G	2H	3D	
50	7	33	10	Aspen				33		10				
16	0	0	16	Cedar							16			
25	25	0	0	Jack Pine										
164	109	27	29	Lowland Aspen/Balsam Poplar			5	22	10		18			
247	111	16	120	Lowland Conifers	10			6			120			
158	7	0	150	Lowland Deciduous							150			
101	67	0	34	Lowland Mixed Forest							34			
456	456	0	0	Lowland Shrub										
114	7	43	63	Lowland Spruce/Fir	7	19		17		5	49	9		
53	0	0	53	Mixed Upland Deciduous						53				
10	0	0	10	Natural Mixed Pines							3		7	
5	0	0	5	Planted Mixed Pines									5	
7	0	7	0	Red Pine				7						
192	0	0	192	Tamarack							192			
17	0	0	17	Treed Bog							17			
14	14	0	0	Upland Conifers										
1,629	803	126	700	Total Forested Acres	17	19	5	85	10	68	600	9	12	
	49%	8%	43%	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	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Low productivity in the north. Generally a dead ash swale with balsam poplar, balsam fir, red maple, paper birch, cedar and black spruce elsewhere.							
2	Unavailable	3D: Recreational / Scenic values	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Aesthetic considerations along Shannon road.							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 101
Year of Entry: 2019

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 101
Year of Entry: 2019

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3D: Recreational / Scenic values	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Aesthetic considerations along Shannon Road							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 101
Year of Entry: 2019

13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: This stand receives some recreational use. The pine component would be difficult to regenerate artificially due the stand's small size, slope and frequent inclusions of black spruce swamp on the toe slopes besides the common concern of natural red pine regeneration.							
14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small island stands of black spruce and tamarack surrounded by lowland brush.							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 101
Year of Entry: 2019

18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2F: Too steep	53	2G: Too wet (sensitive soils, does not include access issues)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified
Comments:							
<p>The northern unit features an often steep bluff that normally runs into lowlands with some upland. Access seems limited. Other stand units are often uplands surrounded by swamp with lowland hardwood and conifer inclusions. Besides the difficulties of access and wet inclusions, slope is a concern in many stand units as this stand traces ridges that rise from the lowland.</p>							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 101
Year of Entry: 2019

23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	106	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Due to the slope of the surrounding stand and the drainages that nearly surround it, this stand is difficult to reach and might be best approached later when other adjacent stands are ready to harvest.							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 101
Year of Entry: 2019

28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	2B: Unknown if access through adjacent landowner(s) is possible	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Fairly steep slopes along private boundary and the aspen stand to the south. Best access would be through private land if possible. It appears as if access in the past was through this property.							
31	Unavailable	2F: Too steep	10	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: This stand is a narrow ridge that drops into lowland on three of four sides. The old skid path typically runs at the top of the ridge. Access would likely have to be through the private land to the west once again as the southwestern corner of the stand features a fairly steep slope that runs into lowland before reaching the end of Glennie Road and the survey corner.							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 101
Year of Entry: 2019

33	Unavailable	2A: Adjacent landowner denied access	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Access is through two private parcels.							
34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The many small drainages and alder swales that bisect this stand leading from Glennie Road complicate access to the small acreage (about 4 ac) that would remain harvestable.							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Available	2I: Survey needed	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The examiner could not find corners on either end of the property line (west line of stand) during inventory.							
38	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Harvest only during dry or frozen conditions. A corduroy or interlocking crane mats will be necessary to reach this stand. This effort to protect soils and hydrology likely will extend 300 feet or more from the lowland aspen stand before reaching more solid ground in the interior of the spruce stand.							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 101
Year of Entry: 2019

39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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
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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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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6112 - Lowland Aspen	Sapling Well	15.7	39	1-50	Many wet swales of low productivity bisect the stand. The aspen canopy is sparser in north-center with dense fir and spruce. The westernmost acre is an inclusion with decadent supercanopy aspen and associated red maple, and black and white spruce, of about 90 years age. The stand is likely a continuation of Compartment 114, stand 23. There is beaver damage in far west.
2	6112 - Lowland Aspen	Sapling Well	6.7	38	81-110	There are big tooth aspen on sandy ridge north of muskeg/bog, along with traces of older pine. This is a better site than stand 1. OPIC - FMD: OI Stand Year Origin was 1981
4	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	4.7	53	1-50	This stand includes a wet, boggy depression and a few larger red pine on some high ground.
5	6124 - Lowland Spruce- Fir	Poletimber Well	29.0	64	81-110	An inclusion of red pine on higher ground exists in the southern portion of the stand, likely a similar origin as the pine along Shannon Road across the muskeg to the south. White Pine is concentrated in the stand's south, and jack pine in the center and east on higher ground. Black spruce and balsam fir are general in the stand. Aspen are concentrated along an old skid road in the north. A wet swale runs from the mature pine in the NW to the mixed lowland conifer stand in the south. This stand also includes the transition between the high ground around Shannon Road and the previously mentioned lowland conifers. This portion of the stand is fringe of lowland more productive than what can be found adjacent to the north.
6	42290 - Natural Mixed Pine	Sawtimber Medium	7.4	94	81-110	There is a wide range of white pine diameters from saplings to x-log. Aspen saplings with a sparse white pine overstory exist especially from the center to the western portion of the stand. Red pine is more common to east. The toe slope, mainly fir, on the north side, and some aspen patches aspen along Shannon Road have more recent origins than overstory. OPIC - FMD: Shannon Road(s.) Much of the stand width is occupied by parallel threads of Shannon Road. These occur two or three are a time.
8	6112 - Lowland Aspen	Poletimber Well	66.4	45	81-110	A wet swale runs NW to SE in stand not far from southern boundary. Extensive beaver damage in the SE. A small island of swamp hardwoods is included in the SE to the east of the beaver dam. The beaver dam is walkable in 2017. Fir-spruce inclusions exist in the NW and NE. A dense fir understory typifies the stand. (Oj origin 1971.)
10	6124 - Lowland Spruce- Fir	Sapling Medium	13.8	68	1-50	Increment cores showed release roughly 50 years ago which might correlate to an old harvest around 1971. Adjacent to stand 16, supercanopy red maple, balsam fir, black spruce and red pine may not have been merchantable in last harvest. A low productivity swale bisects stand from NW to SE. A pocket of log size red pine surrounded by pole/sapling red pine exists north of the aspen stand.
11	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	16.3	32	1-50	This is a very wet stand with very few trees and dense brush. A slough runs along the eastern stand boundary. The south end contains more hardwood: red maple and paper birch. The north end tends more toward conifers. IC - FMD: OI Stand Year Origin was 1981.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
12	4130 - Aspen	Poletimber Well	6.8	46	81-110	Big tooth aspen makes up the majority of this stand with quaking aspen and fir along stand margins toward lower ground. Suppressed red pine are growing adjacent to red pine pocket in the black spruce stand. OPIC - FMD: OI Stand Year Origin was 1971.
13	6112 - Lowland Aspen	Poletimber Well	4.8	46	111-140	Some trunk rot noted. Balsam fir and red maple increase to the west. Red maple often just reaching canopy. OPIC - FMD: OI Stand Year Origin was 1971
14	6130 - Fir, Aspen, Maple	Sapling Poor	8.2	46	1-50	Some "supercanopy" white birch, red maple, black spruce remain over a sparse sapling stand with dense alder and holly. This stand is very wet and was likely cut at the same time as the stand to the west.
15	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	15.1	74	51-80	There are more red maple in the west and more tamarack in the east. A younger cohort tends to concentrate nearer the road.
16	42210 - Natural Red Pine	Sawtimber Well	6.5	107	111-140	This is a 100 year old red pine stand. An older cohort, about 10% of the stand or less, aged about 160 years, exists. Tree rings show a significant release around 110 years ago (2017). There is evidence of past thinnings. OPIC - FMD: A natural stand. Part of this stand is on a narrow ridge, the rest is on leather leaf which fades into spruce swamp. Used by public for camping. Some natural red pine regeneration.
18	6113 - Lowland Maple	Sapling Well	9.7	44	1-50	This stand could be considered two aged with a supercanopy of roughly 100 year old swamp hardwoods (red maple, 98 years) concentrated toward the road. Generally though, this is a sapling stand. The stand tends to be very wet and contains considerable dead ash. The north end contains a fir-spruce inclusion, as well as a small amount of aspen.
20	6124 - Lowland Spruce- Fir	Sapling Medium	9.0	45	1-50	Black spruce age is averaged. Red maple, white birch and lowland brush become more common as one moves from the stand center to the south. The stand becomes increasingly wet as one moves east. OI Stand Year Origin was 1981.
21	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	4.7	91	81-110	This is a patchy red pine plantation: a spruce-fir inclusion exists in the NE of the stand and an aspen and fir inclusion lies in the middle. Plantation records indicate 8 acres were planted at 1,200 trees/acre in spring 1928 with two year old seedlings of red and jack pine.
22	6112 - Lowland Aspen	Sapling Well	14.3	27	1-50	Balsam fir is dense in the north. Bigtooth on higher ground is doing very well. Wet patches exist particularly in the NW and SE. OPIC - FMD: Was CUT WITH STAND TO WEST (Compartment 102).
23	6121 - Tamarack	Poletimber Well	44.5	101	81-110	Water is just below the surface. A cedar swamp inclusion is in the west. A ridge of higher ground and better productivity exists in the stand's southern half between the two black spruce stands. Many ages range from 50-140. The oldest tamarack seem to show significant release around 110 years ago. Winterberry is dense especially in the north.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	6122 - Black Spruce	Poletimber Medium	6.9	73	51-80	The dominant black spruce are about 73 years old, with some older, about 100 years old. The ground is firmer than in surrounding stands. Future access for a treatment may be possible from the adjacent compartment (via Little Road and woods roads) if adjacent stands in compartment 102, stand 18 (Q5) and stand 17 (LM6) are also treated simultaneously.
27	6122 - Black Spruce	Poletimber Medium	9.1	72	51-80	These islands of spruce are surrounded by alder swamp and muskeg. Paper birch is dying out. More tamarack can be found in the south and west, and more black spruce in the north and east.
30	6124 - Lowland Spruce- Fir	Sapling Medium	8.6	45	1-50	This is a low productivity forested stand with many alder and lowland brush stringers bisecting it. A few 80-90 year old black spruce exist on the "island". The portion of the stand adjacent to the "mainland" is balsam fir dominated. The beaver dam is walkable in 2017. The western portion of the stand adjacent to red pine includes limited natural red pine regeneration on higher ground.
32	6122 - Black Spruce	Poletimber Medium	24.6	119	51-80	Numerous ages of black spruce around 110-120 years old encompassed the dominant trees. Many of these dominant trees are tipping out of the stand, especially eastward where stand densities drop, often leaving understory maple saplings to take over. Generally paper birch and jack pine are dead or dying out. The current stand is declining. In the west, stand densities are higher generally with a second age of pole sized black spruce around 55 to 65 years old. Alder sloughs often separate lobes of the stand. Tamarack is more common in the NE periphery. OPIC - FMD: OI Stand Year Origin was 1915
34	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	49.3	73	1-50	Dead ash are throughout this stand. Much of the stand was inundated at time of inventory. A drainage runs west-east across southern boundary. Due to the width of the drainage, access is best through the west from the spruce islands or the lowland brush stands. An older cohort of swamp hardwoods, about 100 years old, exists. OPIC - FMD: REAL WET
36	6113 - Lowland Maple	Sawtimber Medium	3.8	80	51-80	In the south, the red maple canopy has fallen apart, releasing red maple saplings. Black spruce and balsam fir increase toward the north. The stand contains decadent quaking aspen and paper birch and considerable lowland brush.
37	6112 - Lowland Aspen	Poletimber Well	4.0	41	81-110	This stand likely originates from the same harvest that created the stand adjacent to the east. There are several wet swales in the south draining the wetland to the northwest. There is a component of dead ash. To the north, the stand generally becomes drier with big tooth aspen dominating.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
42	6112 - Lowland Aspen	Poletimber Well	22.3	46	81-110	<p>A transitional swamp hardwoods inclusion was added to this stand on the woods road in the SE. A dense fir understory is characteristic of this stand. There is significant beaver activity in the NE. White pine is concentrated to stand center and south.</p> <p>Consider stands 43 (A6), 42 (P6), 45 (A6) and 52 (S6) on the woods road (east-west) bisecting compartment 101 for treatments during the next inventory cycle. This woods road likely will need considerable work across compartments 102 and 101.</p> <p>OPIC - FMD: OI Stand Year Origin was 1971</p>
43	4130 - Aspen	Poletimber Well	21.3	48	81-110	<p>This stand's health looks good with trees of good heights (six sticks possible). Windthrow exists in the west of the stand. Evidence remains of rutting from the last harvest in the main skid trails.</p> <p>Consider stands 43 (A6), 42 (P6), 45 (A6) and 52 (S6) on the woods road (east-west) bisecting compartment 101 for treatments during the next inventory cycle. This woods road likely will need considerable work across compartments 102 and 101.</p> <p>OPIC - FMD: OI Stand Year Origin was 1971</p>
44	6127 - Lowland Pine	Sawtimber Well	14.7	101	141-170	<p>Sphagnum ground leads up to a dry ridge. Windthrow is evident in the western portion of the stand. OPIC - FMD: Another natural red pine stand on a ridge.</p>
45	4134 - Aspen, Spruce/Fir	Poletimber Well	11.5	49	111-140	<p>This is a patchy stand with diverse array of species. Portions of a red pine ridge run through the center. Moving north, the stand includes more lowland species and brush. A few decadent paper birch and red maple exist.</p> <p>Consider stands 43 (A6), 42 (P6), 45 (A6) and 52 (S6) on the woods road (east-west) bisecting compartment 101 for treatments during the next inventory cycle. This woods road likely will need considerable work across compartments 102 and 101.</p> <p>OPIC - FMD: OI Stand Year Origin was 1971.</p>
46	429 - Mixed Upland Conifers	Sapling Medium	13.9	36	51-80	<p>Plantation records indicate this stand originated in sprig 1983 with 2 year old jack pine. Natural competition is stronger here than in the stand to the south despite having been established at the same time. The red pine is likely natural regeneration from a red pine plantation established in 1928. Larger diameter red pine may be from the older plantation itself. This older plantation bled into the mixed lowland conifers to the west and the recent jack pine plantation to the south. OPIC - FMD: plantation JACK PINE</p>
47	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	72.2	51	51-80	<p>A honeycomb of low and upland characterize this stand but the ground is mostly the sphagnum type. Tamarack is concentrated in the stand's southwest. Aspen are present in isolated clones. OPIC - FMD: OI Stand Year Origin was 1971.</p>
49	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	6.7	43	1-50	<p>A lowland slough, mainly consisting mainly of brush with just enough trees to meet a forested condition. Very wet drainage.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
50	6123 - Lowland Fir	Sapling Poor	8.7	45	1-50	This open, boggy non-productive stand barely meets the forested threshold.
51	6113 - Lowland Maple	Poletimber Medium	7.9	91	51-80	A 90-120 year old overstory, mostly red maple but with paper birch, white spruce and cedar, is falling apart releasing a cohort of red maple roughly 30-50 years old (51 years cored on a 10" red maple; smaller trees look about 30 years old). The former black ash component has died out. Walking access is easiest through the alder in the south. This stand gets wetter, towards an extreme degree, as you travel north.
52	6122 - Black Spruce	Poletimber Well	60.8	78	81-110	This stand becomes wetter with an increasing occurrence of drainages and low spots as one travels north. Besides the pine ridge noted below, there are a few other areas of higher elevation that contain pine. Consider stands 43 (A6), 42 (P6), 45 (A6) and 52 (S6) on the woods road (east-west) bisecting compartment 101 for treatments during the next inventory cycle. This woods road likely will need considerable work across compartments 102 and 101. OPIC - FMD: R9 on ridge along south edge of stand.
54	6121 - Tamarack	Poletimber Medium	85.3	108	81-110	Tamarack saplings and seedlings on the periphery bleed into dense brush. Brush remains generally thick throughout except in dense cedar stringers which are concentrated in the center and east. Cedar pockets occur sporadically throughout, however. Very wet.
55	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	52.6	80	51-80	This stand tends to follow ridges and slopes across the compartment. There are some lowland hardwood, cedar and lowland brush inclusions. Some aspen portions were cut around 1980 but among other species there are ages ranging from 60 to 120 throughout.
57	42120 - Planted Jack Pine	Sapling Well	25.2	36	51-80	Plantation records indicate this stand originated with two year old jack pine planted at 900 trees per acre in spring 1983. The western island was formerly connected to the main portion of 57 but rows lose distinction with a wide range of species. OPIC - FMD: plantation JACK PINE
58	6125 - Lowland Black Spruce, Jack Pine	Poletimber Well	28.7	77	81-110	The ground in this stand is a honeycomb of upland and lowland patches that generally seems to get wetter to the south and west. Black spruce dominates the center. OPIC - FMD: A wetter stand than 47.
59	42290 - Natural Mixed Pine	Poletimber Poor	2.9	95	51-80	This stand is essentially a ridge top with an open barrens-like character. One finds more black spruce to the west and more red pine to the east.
60	6118 - Lowland Deciduous with Cedar	Poletimber Poor	33.8	91	1-50	This is an extremely wet lowland stand mainly of swamp hardwoods. The former dominant species, ash, is now dead leaving just enough red maple and paper birch to make this a forested stand. There are two inclusions of cedar.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
62	6112 - Lowland Aspen	Poletimber Well	10.4	49	81-110	A wire fence marks the eastern boundary. As commonly found in lowland aspen, this stand has a dense fir understory. OPIC - FMD: OI Stand Year Origin was 1972.
63	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	19.5	117	111-140	Decadent aspen are found in the far east of the stand. In the west half of the stand, dead ash and swamp hardwoods mix in the dense cedar with some windthrow patches. Generally brushy periphery. OPIC - FMD: OI Stand Year Origin was 1935.
64	4136 - Aspen, Mixed Conifer	Sapling Medium	10.2	24	1-50	In the stand's northeast, balsam fir and red pine seem relatively common, with red maple associates but relatively few aspen. Generally the stand follows a ridge and the slopes tend to be fairly steep, tending to block easy access to stands to the north. An old skid trail is evident at the top of the ridge. Past access looks like it ran through private land. OPIC - FMD: CUT LEFT OAK 1993. A2R1S1. Natural red pine seeding in on this ridge stand. The conifer regeneration tends to be red pine on that side of the ridge which faces the red pine stand. The swamp side of the ridge tends to be spruce.
65	6127 - Lowland Pine	Sawtimber Well	10.2	83	111-140	<p>The stand examiner found no plantation records and believes this to be a natural stand based on old aerial images. The amount of regeneration present, mainly red maple, would likely fully stock the stand if it were harvested but a type shift to lowland hardwood would have to be acceptable.</p> <p>OPIC - FMD: THINNED 1993. Accessing this stand involves crossing an N/L stand which was created by cutting a swath across a cedar stand. Next, the A2 ridge in stand 64 must be crossed, with potential BMP problems due to slope.</p> <p>The red pine occupies a shallow, leatherleaf lined bowl. As one travels farther into the bowl, the leatherleaf gets springier and the red pine get both smaller and farther apart. BA ranges from 200 to 70. Diameter runs up to 18 inches, but most trees are from 5 to 12 inches. The northern ¼ of this stand is mostly spruce.</p> <p>Recommend holding at least 10 years, until local unit has had a chance to evaluate ongoing experiments in natural red pine regeneration.</p>
68	6120 - Lowland Cedar	Poletimber Medium	7.8	119	51-80	This stand features a cedar interior with supercanopy tamarack, quaking aspen (decadent), black spruce and white spruce. Some upland species mix in the eastern lobe. A cable fence indicates the private boundary line with cedar posts at corners.
71	6120 - Lowland Cedar	Poletimber Well	8.6	127	111-140	Fingers of balsam fir and paper birch extend into this stand with an origin roughly the same as the stand to the west. A balsam fir periphery surrounds a core of cedar.
72	6130 - Fir, Aspen, Maple	Sapling Well	34.2	42	1-50	This is a wet stand dense with balsam fir. The stand contains a swamp hardwoods and lowland conifer inclusion in the southwest north of the aspen ridge. OPIC - FMD: OI Stand Year Origin was 1979.
74	6112 - Lowland Aspen	Poletimber Well	20.0	57	81-110	Private line has some blazed aspen. SW corner is near a balsam fir with red and blue paint. Could not find the cedar post as described. Aspen trunk rot noted. A wet swale runs roughly from private land in southwest northward to lowland brush area.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
75	6130 - Fir, Aspen, Maple	Sapling Poor	9.2	43	1-50	Balsam fir seems dominant for now; the aspen likely will overtake them in the future. OPIC - FMD: Acceptable regeneration would be any combination of oak, aspen, maple, ash, spruce, balsam fir or white pine resulting in a medium to fully stocked stand. Cut no red pine, white pine, oak, cedar, or hemlock, if they occur. Buffer drainages and wet areas. Cut 2011 sale 54-020-10-01.
76	6130 - Fir, Aspen, Maple	Poletimber Well	30.0	48	1-50	Toward the east, the stand becomes wetter with swamp hardwoods inclusions along the south and east stand boundaries. Several pockets of low productivity. As typically found in stands like these, understory dense fir is common. OPIC - FMD: OI Stand Year Origin was 1969
77	6130 - Fir, Aspen, Maple	Sapling Poor	8.9	39	1-50	This stand is essentially a very wet drainage with red maple, balsam fir, lowland brush and dead ash. Based on neighboring stands, older swamp hardwood and cedar inclusions are likely between 80 and 120 years old.
78	6139 - Mixed Lowland Forest	Poletimber Well	10.6	62	111-140	A single wire fence marks the private boundary with cedar posts at corners. Browsed ash and dogwood are evident. This is a diverse stand that becomes increasingly wet to the west.
80	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	9.0	112	1-50	The overstory red maple and aspen are falling apart. The stand is in the process of converting to a sapling red maple stand with a supercanopy of the other species. Wet.
81	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	12.3	85	51-80	Many wet drainages thick with lowland brush bisect this stand west to east. OPIC - FMD: OI Stand Year Origin was 1913
82	6121 - Tamarack	Poletimber Medium	42.2	56	51-80	Lowland brush, balsam fir and black spruce are on the periphery with dead ash. Center areas tend toward tamarack. An older stringer of cedar is on the north end near the private 40.
83	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	9.5	98	51-80	Many dead ash swales bisect this stand in a north-south fashion. This very wet stand is brushy and best walked-into from the south. OPIC - FMD: This stand consists of tiny islands of E surrounded by L and V.
85	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	7.3	64	51-80	Scattered open grown trees with poles, saplings and lowland brush mark this stand. Lower land position and densities are found in the north. The stand continues as a stringer of lowland brush and red maple. Ages of the later are close to the same age as the aspen stand to the north. Relatively high ground connects the aspen and spruce stands east and west and is a significant wildlife corridor.
87	6127 - Lowland Pine	Sawtimber Well	4.8	77	141-170	This stand of dense pine and black spruce on sphagnum ground is an epiphany given its immediate surroundings. The best access is through the jack pine immediately to the south as it's surrounded on three sides by various lowland types.
90	6122 - Black Spruce	Sawtimber Well	6.8	106	81-110	A single strand cable fence indicates a boundary with an existing fence corner. A patch of lowland hardwoods is included in the north.

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Atlanta Mgt. Unit

Report 7 – Forested Stands

Compartment: 101
Year of Entry: 2019



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
92	6121 - Tamarack	Sapling Medium	20.4	47	1-50	This is an extremely wet and brushy stand of almost pure tamarack.
94	6122 - Black Spruce	Poletimber Medium	5.5	49	1-50	This black spruce stand with a few odd cedar patches becomes wetter to the north.



Stand	Cover Type	Acres	Managed Site	General Comments:
3	6229 - Mixed lowland shrub	20.6	No	Heavier lowland brush (alder, red osier dogwood, grey dogwood, willows) exists to the west with muskeg to the east. There are trace amounts of red maple, paper birch, black spruce and quaking aspen, typically clumpy, on the perimeter.
9	6229 - Mixed lowland shrub	2.2	No	Very wet and very close to the "forested" threshold. Heavy browse on red osier dogwood.
17	6220 - Alder/willow	23.4	No	A wall of alder greets the stand examiner in this stand containing cattail stringers. OPIIC - FMD: Cattails and stumps.
19	6224 - Treed Bog	16.7	No	There are almost enough trees meet the forested threshold. Those trees making it to pole size and larger are concentrated on a few patches of higher ground. These areas fade quickly into dense lowland brush, standing water and isolated trees at the time of inventory.
25	622 - Lowland Shrub	97.6	No	This is a muskeg with widely scattered trees.
26	6229 - Mixed lowland shrub	2.2		Cut as a result of "Glennie Gleanings" sale 2011. Taller residual balsam fir toward the road, balsam fir regeneration under three feet toward the east. Seedling number indicate this will be fully stocked with balsam fir on its own besides associated maple and scattered oak. Regen survey 11/21/16 estimates the following trees/acre in seedling and sapling sizes: 1200 balsam fir (mostly seedlings below snow depth), 50 red maple, 75 aspen, 75 white pine. Oak is likely overrepresented in the sample due to identification difficulty at about 200/acre. Browse may be keeping fir, oak and maple below snow depth.
31	622 - Lowland Shrub	59.4	No	Densest brush lies to the east. There are a few odd stringers of balsam fir, black spruce and swamp hardwoods.
33	6220 - Alder/willow	73.6	No	An inundated cedar swamp (virtually all dead) directly north of lowland hardwood has been merged into this stand with its typical cover of alder and winterberry. Scattered and low density tamarack, balsam fir, red maple, cedar exist throughout. OPIIC - FMD: Differs from stand 25 by being wetter and having more lowland hardwood patches.
53	6229 - Mixed lowland shrub	175.6	No	The north probably contains the most alder. The east features more Michigan holly. In the south, one finds a bit of dead swamp hardwoods along with scattered paper birch, cedar, red maple and black spruce.
61	6229 - Mixed lowland shrub	1.9	No	Dead ash, willow and brush, cedar. Wet.