



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54165

Entry Year 2022

Acreage: 1,265

County Cheboygan

Management Area: Hammond Bay Lake Plain

Revision Date: 2020-05-19

Stand Examiner: Ryan Zimmerman

Legal Description:

T37N R01W Sec 1 and 2

Identified Planning Goals:

Soil and topography:

Sand, flat.

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

This compartment has a long and well-recorded history of planting and timber harvesting, going back to the 1950s. Most of the land is owned by state except a parcel in the NE1/4 of the SW 1/4.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Using the archaeology, ERA, SCA, HCVA layers in ArcMap, nothing showed up.

Special Management Designations or Considerations:

This compartment has some great aspen stands for grouse. Lower stocking aspen that grows fairly slow due to poor quality sandy soils. These aspen stands are located more on the southern half.

Watershed and Fisheries Considerations:

Elliot Creek runs along the NW1/4 of the NW1/4 of section 2

Wildlife Habitat Considerations:

This compartment is an excellent opportunity to manage for wildlife. It is part of a multi-compartment complex in Cheboygan county, providing good travel corridors for wildlife. Habitat components of aspen and mixed pine provide food and cover for multiple species at a variety of age classes. We are working to maintain mast producing trees as well as keep a good age rotation of aspen. Species which benefit from our management include white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species. Great habitat for deer and grouse. The corridor along Elliot Creek adds diversity to this compartment. This compartment is almost completely pine, aspen, and oak, with a minor red maple component.

Mineral Resource and Development Concerns and/or Restrictions

Vehicle Access:

Access from Alpena State Rd to Smith and Elliot Creek Rd among other two-tracks.

Survey Needs:

Recreational Facilities and Opportunities:

ATV and snowmobile trails throughout.

Fire Protection:

Atlanta fire protection area. Has many two tracks making access very easy.

Additional Compartment Information:

The following reports from the Inventory are attached:

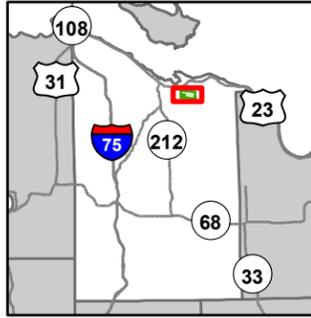
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

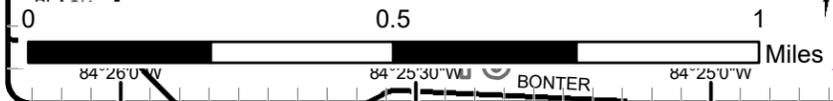
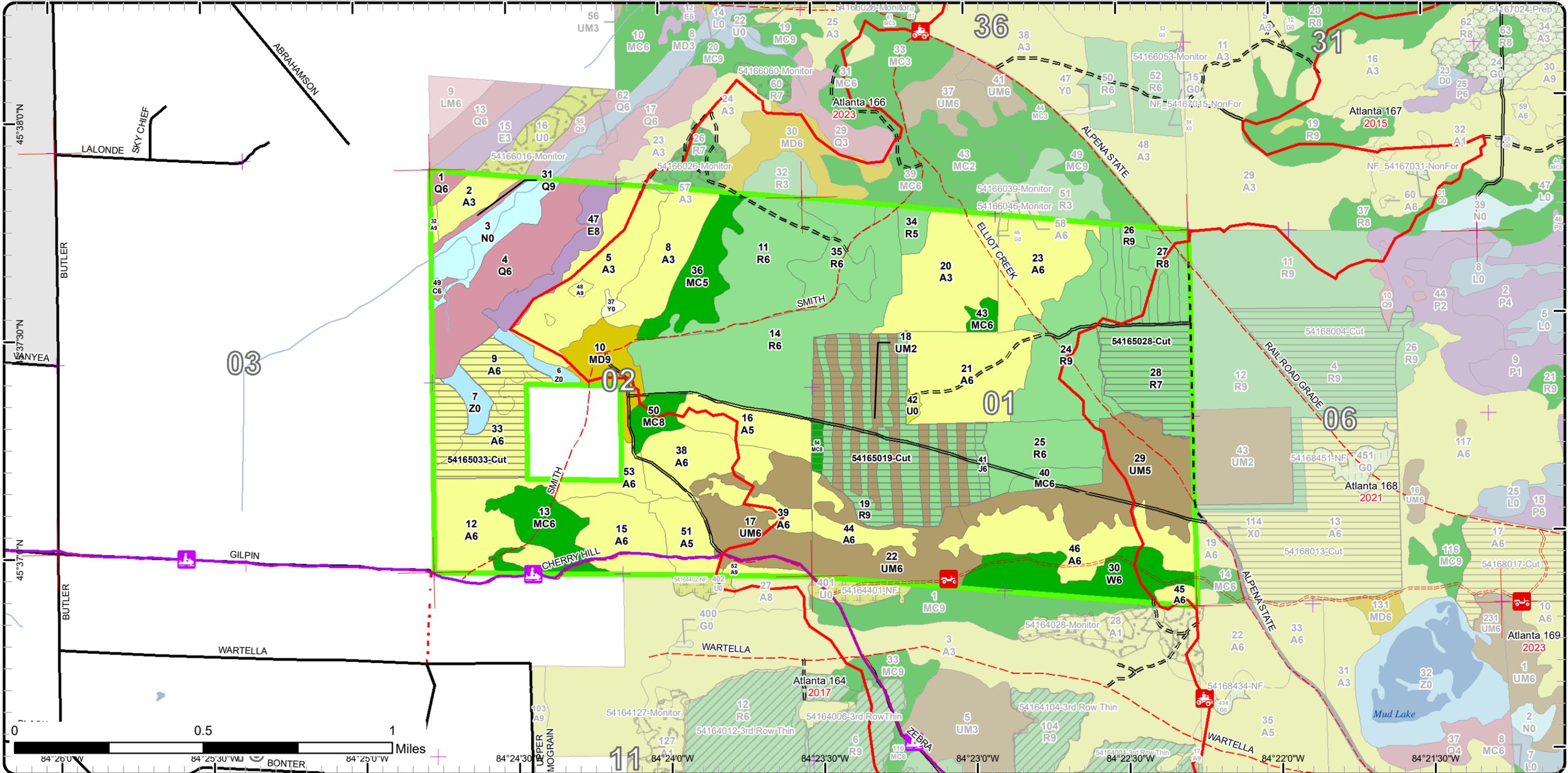
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 165
 T37N, R01W, Sec. 1, 2
 County: Cheboygan
 Unit: Atlanta
 Mgmt Area: Hammond Bay Lake Plain
 YOE: 2022
 Acres: 1,265 GIS Calculated
 Examiner: Ryan Zimmerman
 Map Revised: 10/22/2020
 Map Phase: Post-Review

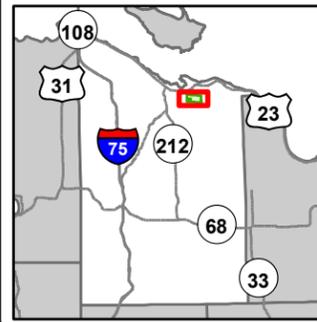


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- 🚲 ORV Trails
- 🚲 ORV Routes
- 🚲 Snowmobile Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cities
- Compartment Boundary
- Clearcut (w/Reserves)
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 500 - Water
- 623 - Emergent Wetland
- 710 - Sand/Soil

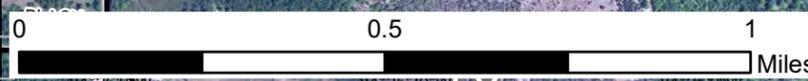
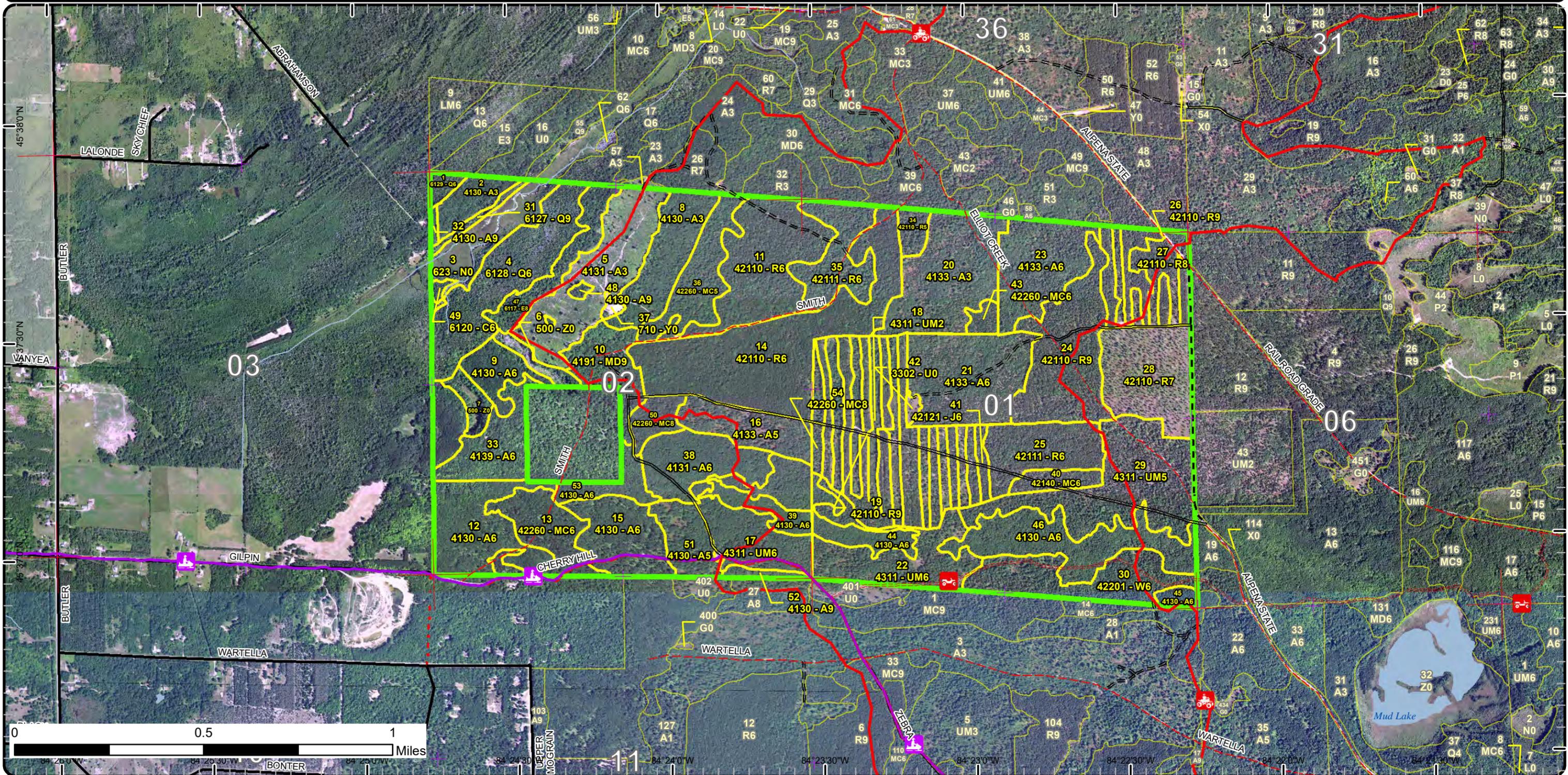


Stand Boundary Map

Compartment: 165
 T37N, R01W, Sec. 1, 2
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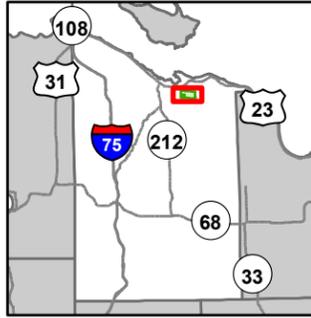
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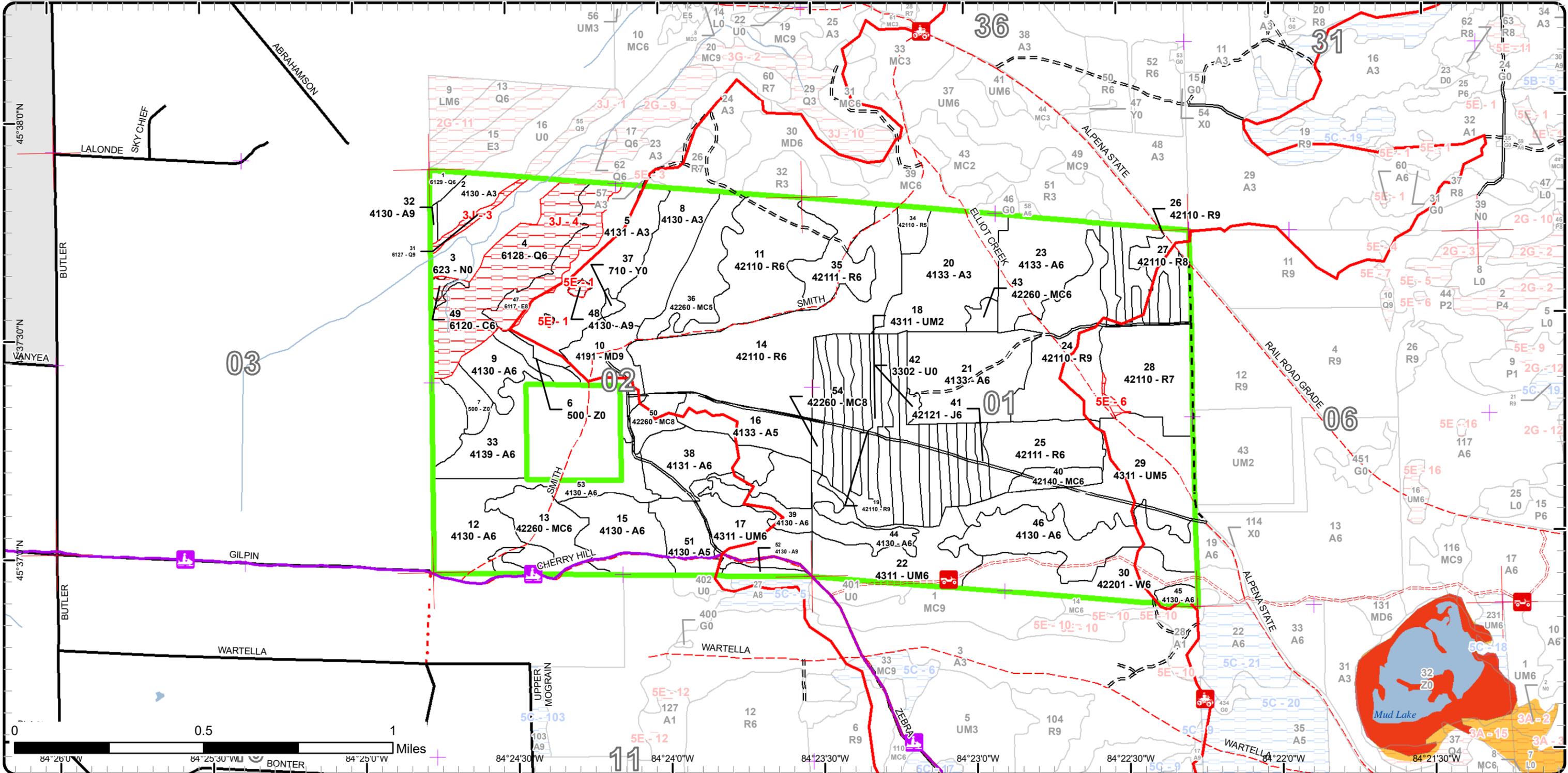
Map coordinates: 45°38'0"N, 45°37'30"N, 45°37'0"N, 45°36'30"N, 45°36'0"N, 84°24'0"W, 84°23'30"W, 84°23'0"W, 84°22'30"W, 84°22'0"W

Special Conservation Areas

Compartment: 165
 T37N, R01W, Sec. 1, 2
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- Perennial River
- Lakes and Rivers
- Cities
- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Non-Dedicated Natural Areas and National Natural Landmarks



Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit

Compartment 165 Year of Entry 2022

Ryan Zimmerman : Examiner



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	58	0	122	114	174	0	3	3	0	0	0	0	0	0	0	0	0	474
Cedar	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Jack Pine	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	3	0	0	4	47	0	0	0	0	0	0	54
Lowland Deciduous	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	18
Marsh	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21
Natural Mixed Pines	0	0	0	0	0	29	0	3	9	0	0	0	0	0	0	0	0	25	65
Planted Mixed Pines	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
Red Pine	0	0	0	0	0	27	165	181	0	0	0	0	0	0	0	0	0	0	372
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	45	0	95	37	0	0	0	0	0	0	0	0	0	0	0	0	177
Water	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
White Pine	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	0	35
Total	39	58	45	122	209	279	165	190	30	35	4	48	0	0	0	0	0	46	1267



Report 2 – Treatment Summary

Atlanta Mgt. Unit
Year of Entry: 2022

Compartment 165
Total Compartment Acres: 1,265

Acres of Harvest

Commercial Harvest - 190
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	46	0	0	0	0	0	0	0	0	46
Red Pine	144	0	0	0	0	0	0	0	0	144
Total	190	0	0	0	0	0	0	0	0	190

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	190	0	0	0	0	0	0	0	0	190
Next Step	0	288	144	0	0	144	335	0	0	911
Total	190	288	144	0	0	144	335	0	0	1101



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

19	54165019-Cut	105.7	42110 - Planted Red Pine	Sawtimber Well	65	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with Retention. 6 inch stump height spec. 2 inch diameter and up to harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> Well stocked planted Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Will need to be roller chopped because of stand 18.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
28	54165028-Cut	38.4	42110 - Planted Red Pine	Sawtimber Poor	69	1-50	Harvest	Clearcut with Retention	42141 - Planted Mixed Pine, Deciduous	Two-Aged	No
<p><u>Prescription</u> Clearcut with 3-10% retention; consider retention near W stand boundary where advanced r. pine regeneration present or in SW quadrant of stand containing most oak regen; cut all trees 2" DBH or greater; chip tops and cut stumps low to prepare for site preparation and planting.</p> <p><u>Specs:</u> Variance required. Variance Approved on 01/25/2017</p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr); Planting, Initial Plant</p> <p><u>Acceptable</u> -Acceptable regen is any mix of pine and oak.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 1 /25/2017</p>											
9	54165033-Cut	46.3	4130 - Aspen	Poletimber Well	49	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with 3-10% retention. Retention determined during sale prep. Cut down to 2 inch DBH. Include grouse spec. Hauling will be out of the south. Include snowmobile protection spec due to hauling being done on snowmobile trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to well stocked aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> Hauling will occur from Gilpin Rd or maybe two track that runs north south to Wartella Rd.</p> <p><u>Comment:</u> Some slopes are steep around stand 6 and 7. Acreage may be reduced due to this.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

Total Treatment Acreage Proposed: 190.4

Report 4 – Site Conditions



Atlanta Mgt. Unit

Ryan Zimmerman : Examiner

Compartment: 165

Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition		Acres Not Available	Dominant Site Conditions	
					3J	5E
473	471	0	1		Aspen	1
1	0	0	1		Cedar	1
4	4	0	0		Jack Pine	
2	2	0	0		Low-Density Trees	
54	4	0	50		Lowland Conifers	50
18	0	0	18		Lowland Deciduous	18
22	21	0	1		Marsh	1
21	21	0	0		Mixed Upland Deciduous	
65	65	0	0		Natural Mixed Pines	
8	8	0	0		Planted Mixed Pines	
372	371	0	1		Red Pine	1
2	2	0	0		Sand, Soil	
177	177	0	0		Upland Mixed Forest	
13	13	0	0		Water	0
35	35	0	0		White Pine	
1,265	1,192		73		Total Forested Acres	70
	94%		6%		Relative Percent	3

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is long term retention for Timber Sale No. 54-019-12-01.							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



Atlanta Mgt. Unit

Ryan Zimmerman : Examiner

Compartment: 165

Year of Entry: 2022

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	67	2F: Too steep	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Implemented to protect high amounts of oak regen.							

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
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
1	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	3.5	97	81-110	N/A	Too wet to harvest and low quality timber. Would not be able to get desirable regeneration either. Would have bad rutting issues from equipment as well.																																																			
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>40</td> <td>Pole</td> <td>8</td> <td>97</td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>20</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	40	Pole	8	97	Balsam Fir	20	Pole	6		White Spruce	20	Pole	6		Red Maple	5	Pole	8		Bigtooth Aspen	5	Pole/Log	9				<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Sapling	Red Maple	Low	Variable	Sapling											
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2	4130 - Aspen	Sapling Well	11.3	2	Immature	N/A	Cut in 2/2018. Has started growing really well. Very well stocked stand.																																																			
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3	623 - Emergent Wetland	Nonstocked	22.3		Unspecified	No	Has Elliot creek that runs through this stand. Where there is not water it is all flooded with some cattails and tag alder.																																																			
4	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	46.8	109	81-110	N/A	Springs coming out of hillside. Very wet with low quality timber besides the cedar. Trees are dying out once they hit that 10-12 inch DBH size. Cedar is doing well for the few I saw that are larger than that.																																																			
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5	4131 - Aspen, Oak	Sapling Well	46.2	5	Immature	N/A	Stand was cut in 2015, left a handful of large red oak, red pine, and white pine scattered about. There is a significant amount of red oak above the browse line, and the ground is covered in red oak seedlings.																																																			
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6	500 - Water	Nonstocked	5.6	0	Unspecified	No	Stand swapped from Non-Forested to Forested. Very steep hillsides with springs. It was a few feet deep in winter of 2020. The hillsides are forested, but very steep. The trees that were growing in the bottom of valley are now all dead. It has become more of a pond.																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
7	500 - Water	Nonstocked	6.9		Unspecified	No	Flooding area that is very steep on the edges of it.																																																	
8	4130 - Aspen	Sapling Well	28.3	26	1-50	N/A	Good mix of upland species. Has some large white and red pine with an age 101. On the verge of being a pole stand.																																																	
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9	4130 - Aspen	Poletimber Well	23.3	49	111-140	N/A	Could be harvested if needing acres. the edges of the stand are very steep that go against stand 7 and 6. Would prefer to hold on for 10 more years.																																																	
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10	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	20.8	58	81-110	N/A	Interesting stand; the oak I cored was at least 120 years old, and the red pine was around 58 years old as well as some of the aspen. The most common strata of aspen was 36 years old when cored. BA within the stand is variable; in some spots I got 30, in others 110. Another unique characteristic about this stand was the amount of red pine and white pine regeneration. Aspen is dying out, but the pine and oak is coming up from the understory in an amazing fashion. Allow for natural progression of the understory to have a really good pine oak mixed stand.																																																	
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11	42110 - Planted Red Pine	Poletimber Well	49.2	51	81-110	N/A	Has variable row direction and rows are not consistently stocked well. Right around 75% canopy cover.																																																	
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12	4130 - Aspen	Poletimber Well	35.7	47	1-50	N/A	Just converting into pole size trees.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
13	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	25.0	47	81-110	N/A	On the verge of becoming a log size stand in spots. Stocking is hit and miss overall. Has some white pine that were left over from the harvest 47 years ago. The aspen is mostly on the NE part of the stand.																																													
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14	42110 - Planted Red Pine	Poletimber Well	85.2	51	81-110	N/A	Same as stand 11, but way less deciduous in the canopy. Rows are easily visible and easy to follow. Better stocking than stand 11 and 35. Larger oaks were planted around. 3 sticks tall red pine. Not quite ready for a 3rd row thin.																																													
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15	4130 - Aspen	Poletimber Well	27.8	47	51-80	N/A	Has the pine and red maple component to the western part of the stand,																																													
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16	4133 - Aspen, Mixed Pine	Poletimber Medium	21.8	38	1-50	N/A	Looks like this stand may have burned. Lower density stand.																																													
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17	4311 - Pine, Aspen Mix	Poletimber Well	37.4	47	1-50	N/A	Almost a 50/50 mix of aspen and red pine. Aspen is slightly larger than red pine.																																													
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18	4311 - Pine, Aspen Mix	Sapling Medium	45.1	15	Immature	N/A	Some strips have more aspen and others have more jack pine. Has some overstory red pine and oak left from the harvest.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
19	42110 - Planted Red Pine	Sawtimber Well	54.4	65	111-140	N/A	Was third row thinned in 2015. Aspen is creeping in on edges from clearcut strips. Some areas of low stocking. Do not thin for awhile because trees already have branching pretty far down the trunk.																																									
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20	4133 - Aspen, Mixed Pine	Sapling Well	47.1	26	Immature	N/A	Some larger white pine was left from when the stand was cut. About ready to convert into pole size. Good mix of pine and aspen.																																									
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Black/Red (Hybrid) Oak	3	Sapling	3																																													
21	4133 - Aspen, Mixed Pine	Poletimber Well	46.3	26	1-50	N/A	Really nice red pine and aspen mixed stand. Just converting into pole size stand.																																									
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22	4311 - Pine, Aspen Mix	Poletimber Well	36.0	37	1-50	N/A	Mix of aspen and pine, scattered mature pine. Some areas have lower stocking levels. Just converting into pole size. Has a lot of red pine seedlings in the understory.																																									
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23	4133 - Aspen, Mixed Pine	Poletimber Well	34.7	34	1-50	N/A	Really good mix of pine and aspen.																																									
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24	42110 - Planted Red Pine	Sawtimber Well	48.9	69	111-140	N/A	Thinned in 2014. Canopy cover is right around 75% Let stand put more diameter on and some more height. About 5 sticks tall.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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25 42111 - Planted Red Pine, Mixed Deciduous Poletimber Well 27.2 40 111-140 N/A Rows are almost impossible to see. No ability to do a third row thin due to rows almost nonexistent.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	10	Log	10		Jack Pine	Trace	Variable	Sapling
Red Pine	75	Pole/Log	8	40	Red Pine	Medium	Variable	Sapling
Jack Pine	5	Pole	7		Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Bigtooth Aspen	10	Pole/Log	8					

26 42110 - Planted Red Pine Sawtimber Well 19.5 69 141-170 N/A Just converting into log size trees. Rows are variable, not consistent and has not been third row thinned. The narrow strips would make this stand tough to third row thin and create a lot of edge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	3	Log	10		Red Maple	Low	Variable	Sapling
Red Pine	97	Log/Pole	10	69	Jack Pine	Trace	Variable	Sapling
					White Oak	Low	Variable	Sapling
					Beech	Trace	Variable	Sapling
					Black/Red (Hybrid) Oak	Low	Variable	Sapling
					Red Pine	Trace	Variable	Sapling

27 42110 - Planted Red Pine Sawtimber Medium 18.5 69 1-50 N/A Stand was species thinned in 2004. Just converting into log size trees. Red Pine is very "branchy" and 5-6 sticks tall.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	3	Log/Pole	10		Red Maple	Low	Variable	Sapling
Red Pine	97	Log/Pole	10	69	Jack Pine	Medium	Variable	Sapling
					White Oak	Low	Variable	Sapling
					Black/Red (Hybrid) Oak	Low	Variable	Sapling
					Red Pine	Low	Variable	Sapling

28 42110 - Planted Red Pine Sawtimber Poor 38.9 69 1-50 N/A Variance approved on 1/25/2017 as follows: Clearcut with 3-10% retention; consider retention near W stand boundary where advanced r. pine regeneration present or in SW quadrant of stand containing most oak regen; cut all trees 2" DBH or greater; chip tops and cut stumps low to prepare for site preparation and planting. Follow up treatments may include mechanical and chemical treatments to control deciduous competition to allow a fully stocked stand of RP.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Pole/Log	8		Jack Pine	Low	< 5 feet	Seeding
Red Pine	95	Log/Pole	12	69	Red Pine	Low	< 5 feet	Seeding
					Red Maple	Full	< 5 feet	Seeding
					Aspen (spp.)	Medium	5 - 10 feet	Seeding
					White Pine	Trace	< 5 feet	Seeding
					Black/Red (Hybrid) Oak	Trace	5 - 10 feet	Sapling
					Black/Red (Hybrid) Oak	Full	< 5 feet	Seeding

strips are very intermixed, red pine dominant throughout stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
29	4311 - Pine, Aspen Mix	Poletimber Medium	58.8	37	1-50	N/A	Nice mixed stand with some overstory large red pine that were 78 years old left from the timber sale 37 years ago.																																																						
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30	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	34.8	85	51-80	N/A	Stocking/regeneration from harvest is variable. Next time this is harvested it will be converted into an aspen stand.																																																						
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31	6127 - Lowland Pine	Sawtimber Well	3.4	61	111-140	N/A	This is the retention area that could not be harvested next to Elliot Creek.																																																						
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32	4130 - Aspen	Sawtimber Well	1.2	66	111-140	N/A	Retention left from timber sale in stand 2. This was made from backing off of private land due to a gate being located there.																																																						
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33	4139 - Aspen, Mixed Deciduous	Poletimber Well	23.0	49	51-80	N/A	Very odd stand. Diameters are all over the place. No tree consistency throughout the stand. Not sure what all was left from the harvest 49 years ago. Could be harvested but would prefer to hold for another 10 years.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
34	42110 - Planted Red Pine	Poletimber Medium	5.8	51	51-80	N/A	Lower stocked red pine stand with extremely variable sizes for red pine.																																								
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35	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	24.6	51	81-110	N/A	Rows are variable and stocking is inconsistent. Almost looks like it may have been a failed planting and just accepted what was there. Rows are not in a straight line and wander.																																								
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36	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	24.5	51	81-110	N/A	This looks to be a failed planting. It has 3 distinct age classes as well. An older white pine age class, some younger oak, and also as 51 year old red pine as well as some red pine that are about 30 years old. It is a very mixed unique stand. Could have been a very bad failed plantation.																																								
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37	710 - Sand, Soil	Nonstocked	1.5	0	Unspecified	No	This is an old landing location that has become a heavily used party spot.																																								
38	4131 - Aspen, Oak	Poletimber Well	27.9	47	51-80	N/A	Really nice aspen oak mix.																																								
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39	4130 - Aspen	Poletimber Well	9.6	47	1-50	N/A	Just converting into pole size trees. Good stocking overall.																																								
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40	42140 - Planted Mixed Pine	Poletimber Well	7.7	40	81-110	N/A	Just about to convert to log size trees. Stocking is variable rows are hardly noticeable in most of the stand. Red pine are larger than the jack pine in height.																																																		
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41	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	3.6	40	51-80	N/A	It almost looks as if it was planted. Just poorly stocked with hard to find row direction.																																																		
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42	3302 - Low Density Conifer Trees	Nonstocked	1.7	0	Unspecified	No	Old landing location that has red pine growing on the edge of it.																																																		
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43	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	3.9	48	51-80	N/A	Appears to have been a retention pocket when stand 23 or 20 was harvested. It is a small pocket of pine.																																																		
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44	4130 - Aspen	Poletimber Well	12.2	37	1-50	N/A	Has some areas of lower stocking. Just converting into pole size trees. Very similar to stand 39 just small trees.																																																		
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45	4130 - Aspen	Poletimber Well	3.5	37	1-50	N/A	Left white and red pine from sale. Low amount left allowed aspen to come through.																																																		
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46	4130 - Aspen	Poletimber Well	41.2	37	1-50	N/A	Great white pine understory. Has large white and red pine left from harvest 37 years ago. Just now converting into a pole size stand.																																											
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47	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Medium	17.6	73	81-110	N/A	Many of the trees that are reaching log size are starting to die out. This is a transitional zone into a lowland. Has some area that is upland, but maybe 4 acres out of the 17 would be able to be harvested. Has some steep areas in it has well that are short hills, but have almost a 4-6 foot drop making much of the area not operable.																																											
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48	4130 - Aspen	Sawtimber Well	1.5	68	111-140	N/A	This is retention from stand 5 when it was cut in 2015.																																											
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49	6120 - Lowland Cedar	Poletimber Well	1.4	105	111-140	N/A	This is a small pocket of cedar that cannot be harvested due to being blocked by Elliot Creek and wetland to the east.																																											
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50	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	8.9	71	1-50	N/A	This is a two aged stand. Looks like the pine and oak were left from timber sale. Red pine are about 4-5 sticks tall. They have large tops.																																											
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51	4130 - Aspen	Poletimber Medium	16.1	47	1-50	N/A	Similar species composition to stand 15, just more open pockets with no trees growing creating less canopy and density.																																											
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52	4130 - Aspen	Sawtimber Well	3.3	76	51-80	N/A	Looks to have been a retention pocket left from sale in stand 17 or 51. Low stocking in spots. On the edge of being 75% canopy cover.																																									
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53	4130 - Aspen	Poletimber Well	10.9	47	51-80	N/A	Sizes of trees are variable. Should hold for another 10 years before harvesting.																																									
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54	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	2.6	68	51-80	N/A	Low density red pine and white pine stand. Looks to be a strip that was not cut maybe?																																									
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