



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73120

Entry Year 2023

Acreage: 2,180

County Isabella

Management Area: Midland-Isabella

Revision Date: 2021-05-19

Stand Examiner: Colton Behrmann

Legal Description:

T15N R03W, Sections 24-27, 35 & 36.

Identified Planning Goals:

Vegetation management in the Midland-Isabella management area will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character including threatened, endangered and special concern species; and provide for forest-based recreational uses. A significant portion of the management area is swampy and therefore relatively inaccessible. Timber management for this 10-year planning period will focus on balancing the age-class distributions for aspen and oak. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends in this 10-year planning period will be the continued need to address illegal off-road vehicle use and trash dumping due to close proximity to the cities of Midland to the east and Mt. Pleasant to the west.

Soil and topography:

This compartment is comprised of the Pipestone-Kingsville soil association of nearly level, somewhat poorly drained and poorly drained sandy soils; typical of glacial deltas, till plains, outwash plains & beach ridges.

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

This is the only compartment of State Forest Land within Isabella County and as such receives much use. The compartment is somewhat fragmented & surrounded by numerous parcels of private residential, hunting and agricultural land.

Unique Natural Features:

The MNFI database lists Blanding's turtle (*Emys blandingii*), a species of state special concern, as recorded in the compartment. Additionally a historic record notes the occurrence of Hayden's sedge (*Carex haydenii*) in the northeast of the compartment.

Archeological, Historical, and Cultural Features:

None listed in the Archeological database.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

There are no recreational fishing opportunities within the compartment.

Wildlife Habitat Considerations:

Wildlife Habitat Considerations: Compartment 120 contains a variety of vegetative types. Both upland and lowland systems are present, making it suitable for a number of wildlife species. Upland systems are dominated by the aspen cover type. Game species likely to be present in this compartment include black bear, bobcat, raccoon, coyote, wild turkey, ruffed grouse, American woodcock and white-tailed deer. Many bird species stand to benefit from the juxtaposition of lowland and upland habitats present in the compartment. These include common yellowthroat, yellow-rumped warbler, gray catbird, redbellied vireo, white-throated sparrow, hermit thrush, and red-breasted nuthatch. The compartment is easily accessible to hunters via Beal City Road.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of Lacustrine (lake) sand and gravel. The glacial drift thickness varies between 200-400 feet. Beneath the glacial drift are the Jurassic Red Beds and the Pennsylvanian Grand River and Saginaw Formations. The Saginaw Formation is used for clay/shale in other areas of the state. This area is predominantly sand, and gravel potential in the compartment is considered limited. The nearest gravel pits are located one mile to the south. This area offsets the Mt. Pleasant Field, discovered in 1928. It has produced more than 29 Million BO and nearly 8 Bcf gas from the Dundee. The compartment is leased for both oil, gas and potash development.

Vehicle Access:

The compartment can be accessed by vehicle through Loomis, Wise and Chippewa Roads.

Survey Needs:

A number of surveys are needed at this time.

Recreational Facilities and Opportunities:

There are no designated trails or facilities with the compartment. Dispersed recreational use of state land is heavily from adjacent land owners for deer hunting, some camping, wheeled vehicles (roads are open to orv use), trapping or berry picking.

Fire Protection:

The current road network into Sections 36, 25 & 24 will result in difficult to reach areas due to lowland soils and poor/failed road conditions.

Additional Compartment Information:

None.

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**

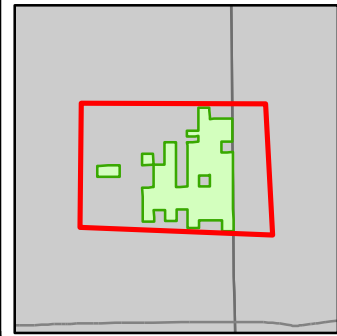
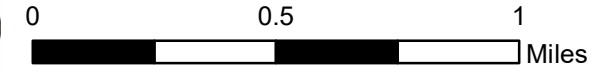
The following information is displayed, where pertinent, on the attached compartment maps:

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

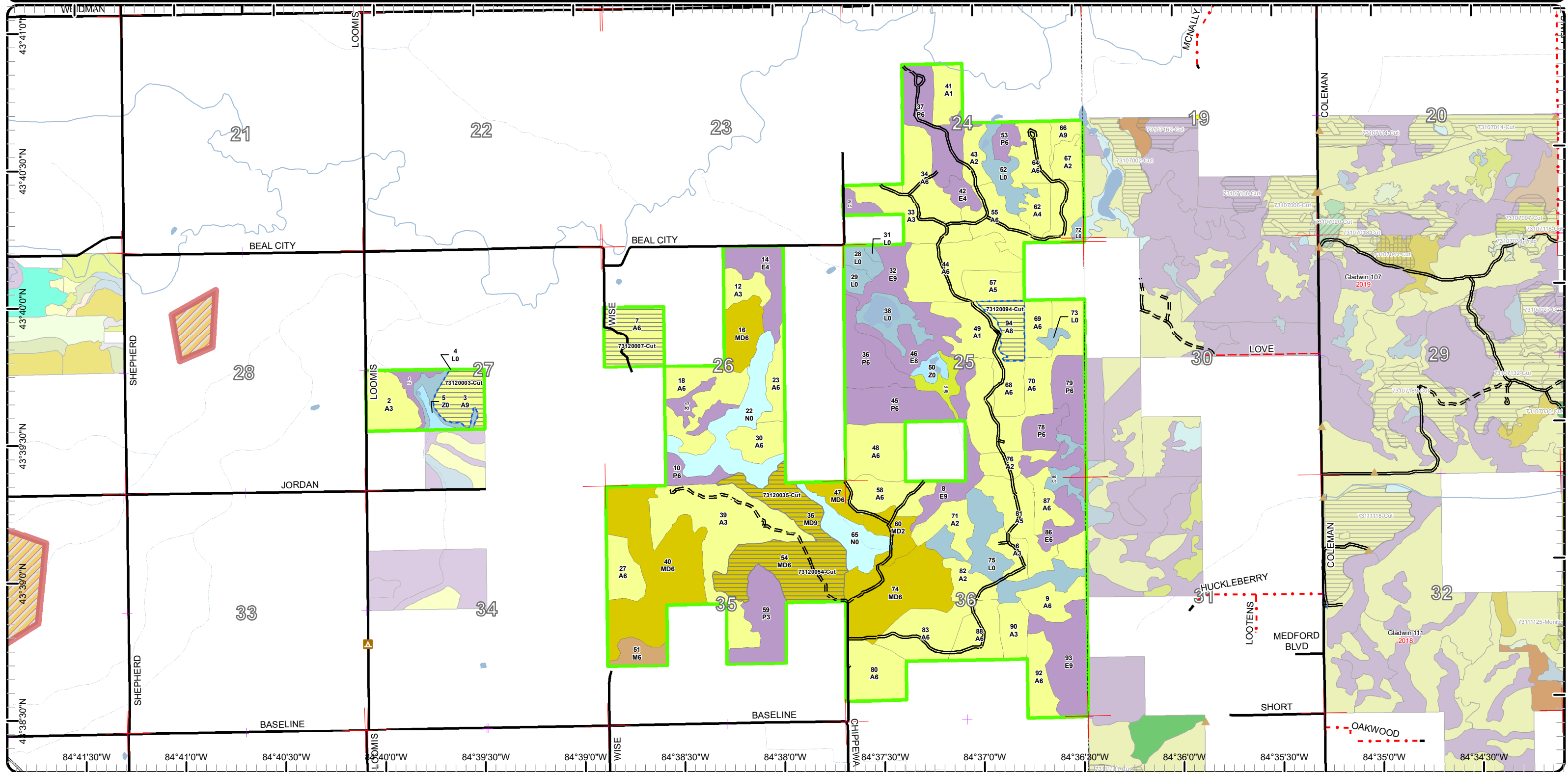
Cover Type & Treatments Map

Compartment: 120
 T15N R 03W Sec. 24-27, 35,36
 County: Isabella
 Unit: Gladwin
 Mgmt Area: Midland-Isabella
 YOY: 2023

Acres: 2180.1 GIS Calculated
 Examiner: Colton Behrmann
 Map Revised: 6/2/2021
 Map Phase: Web-Post

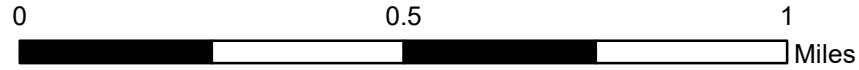


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Berms
- A Campground
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

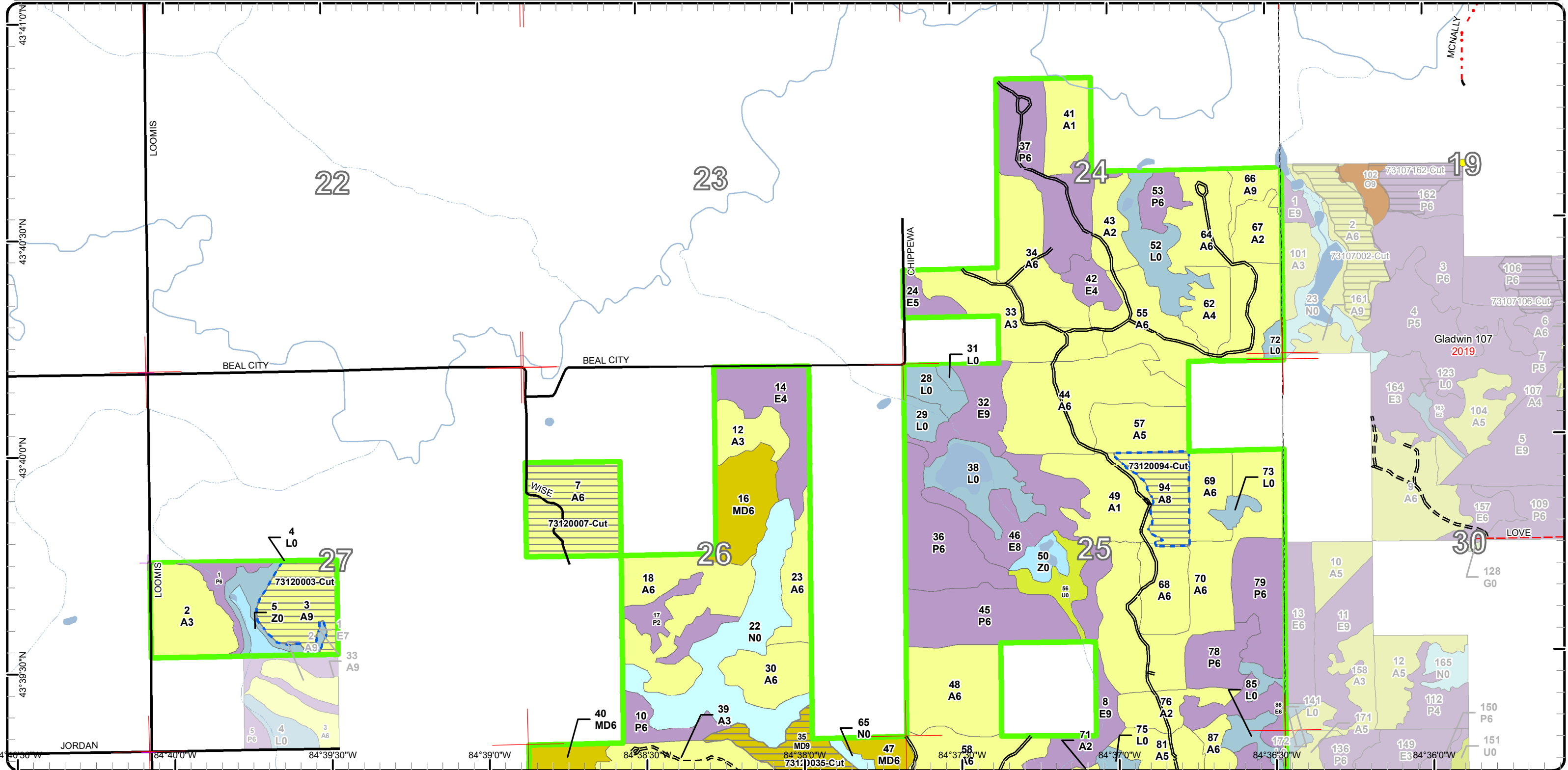


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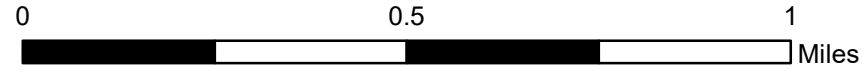


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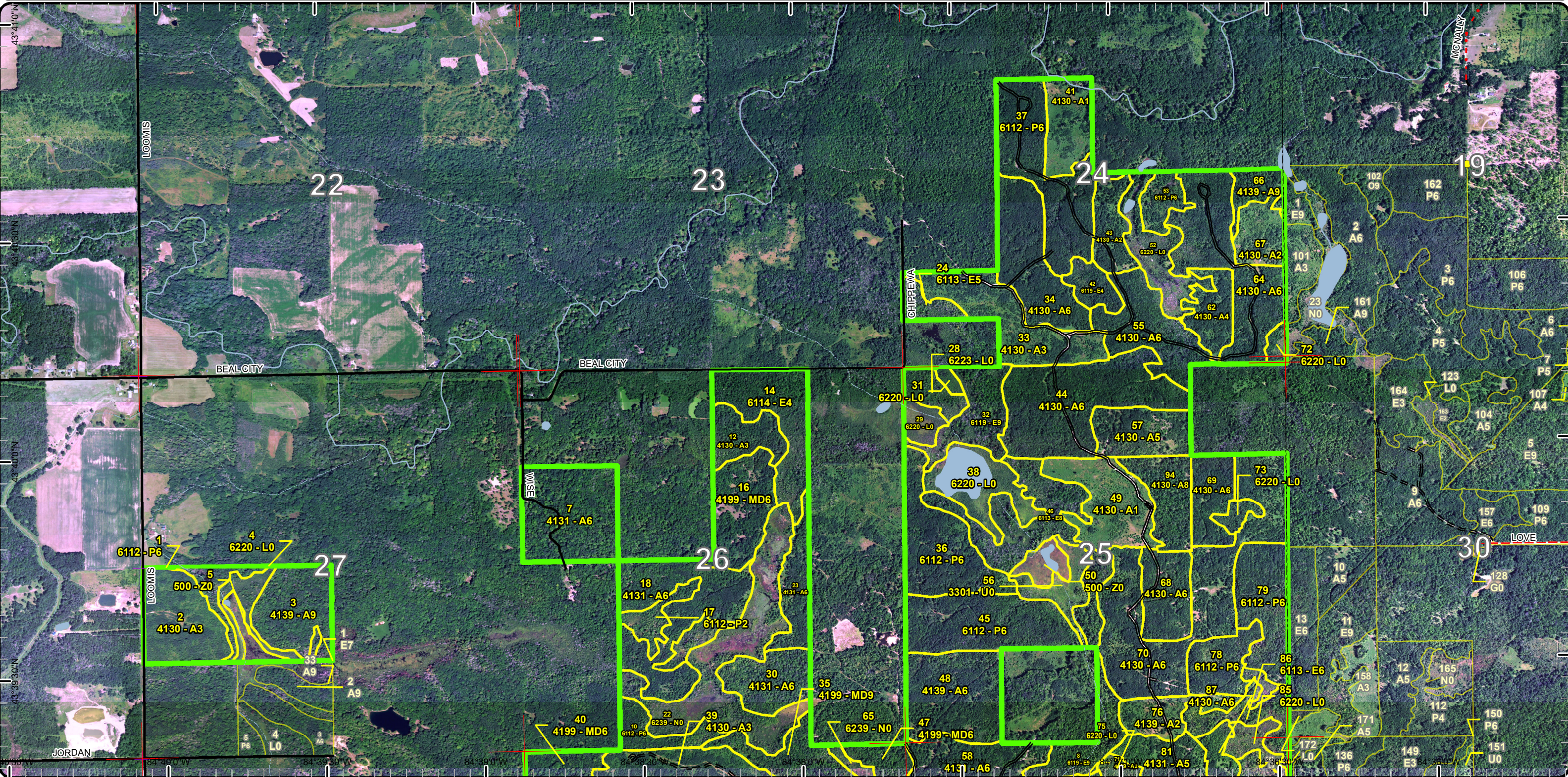


Stand Boundary Map

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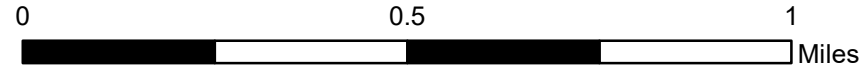
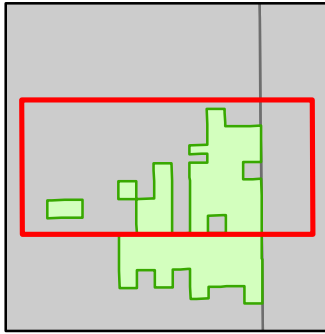


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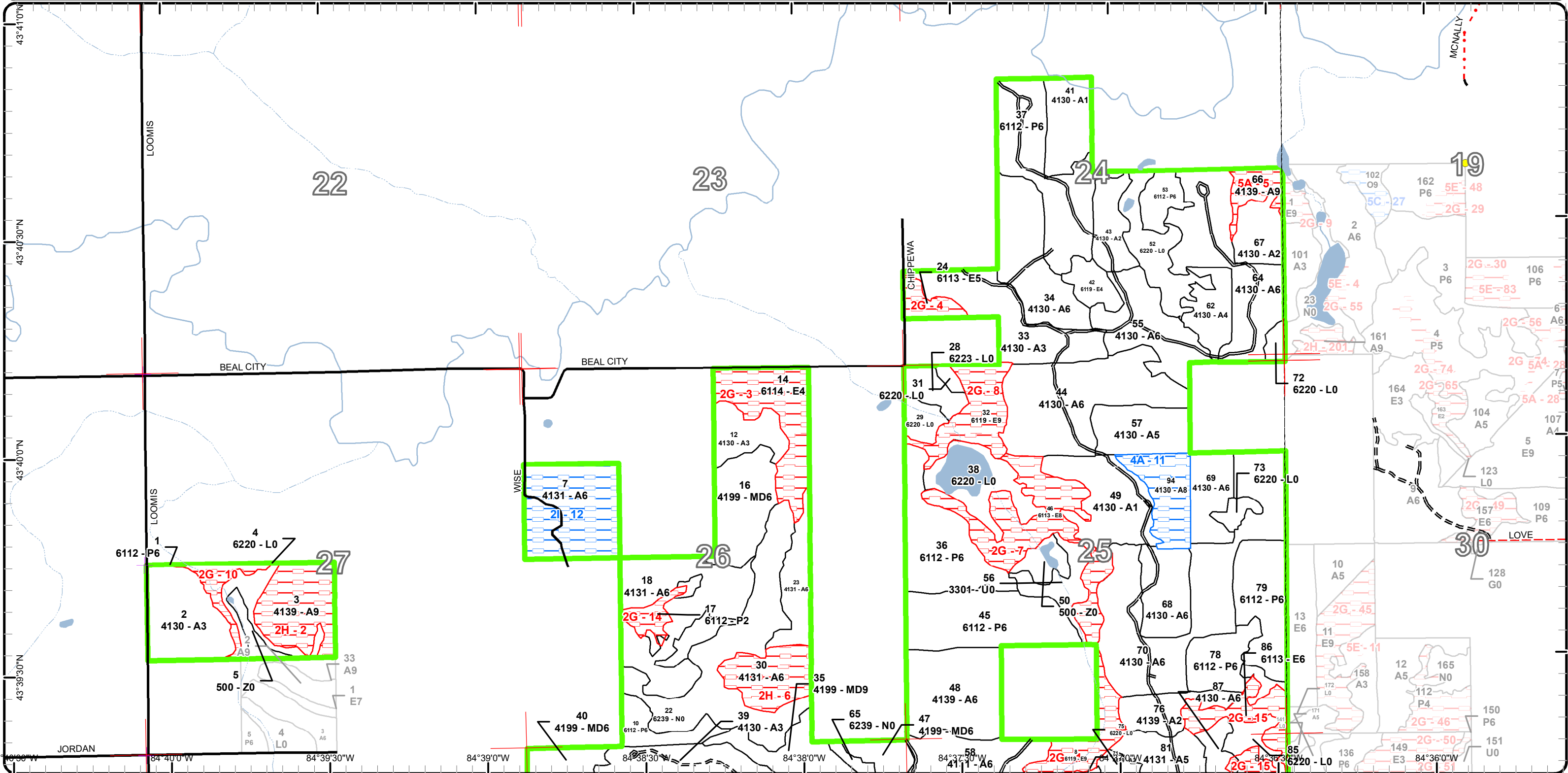


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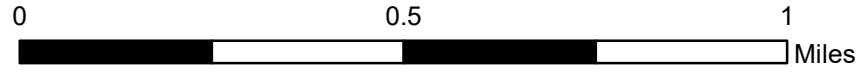


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 4A: No Markets Available for these Forest Products
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5A: Not able to obtain desirable regeneration
- Stand Boundaries

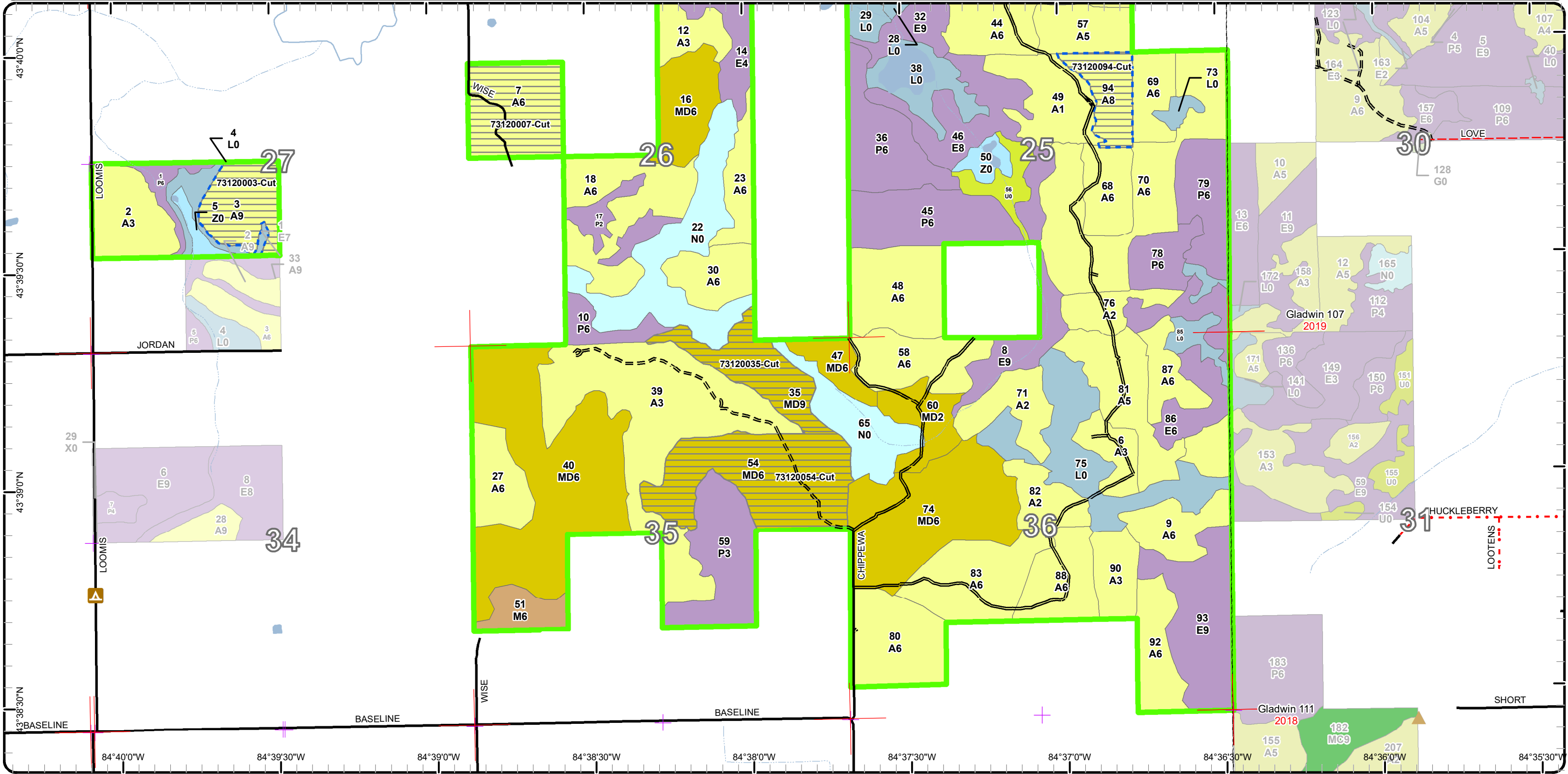


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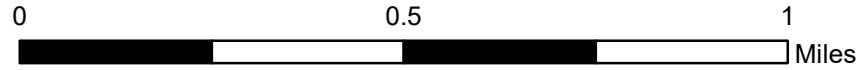


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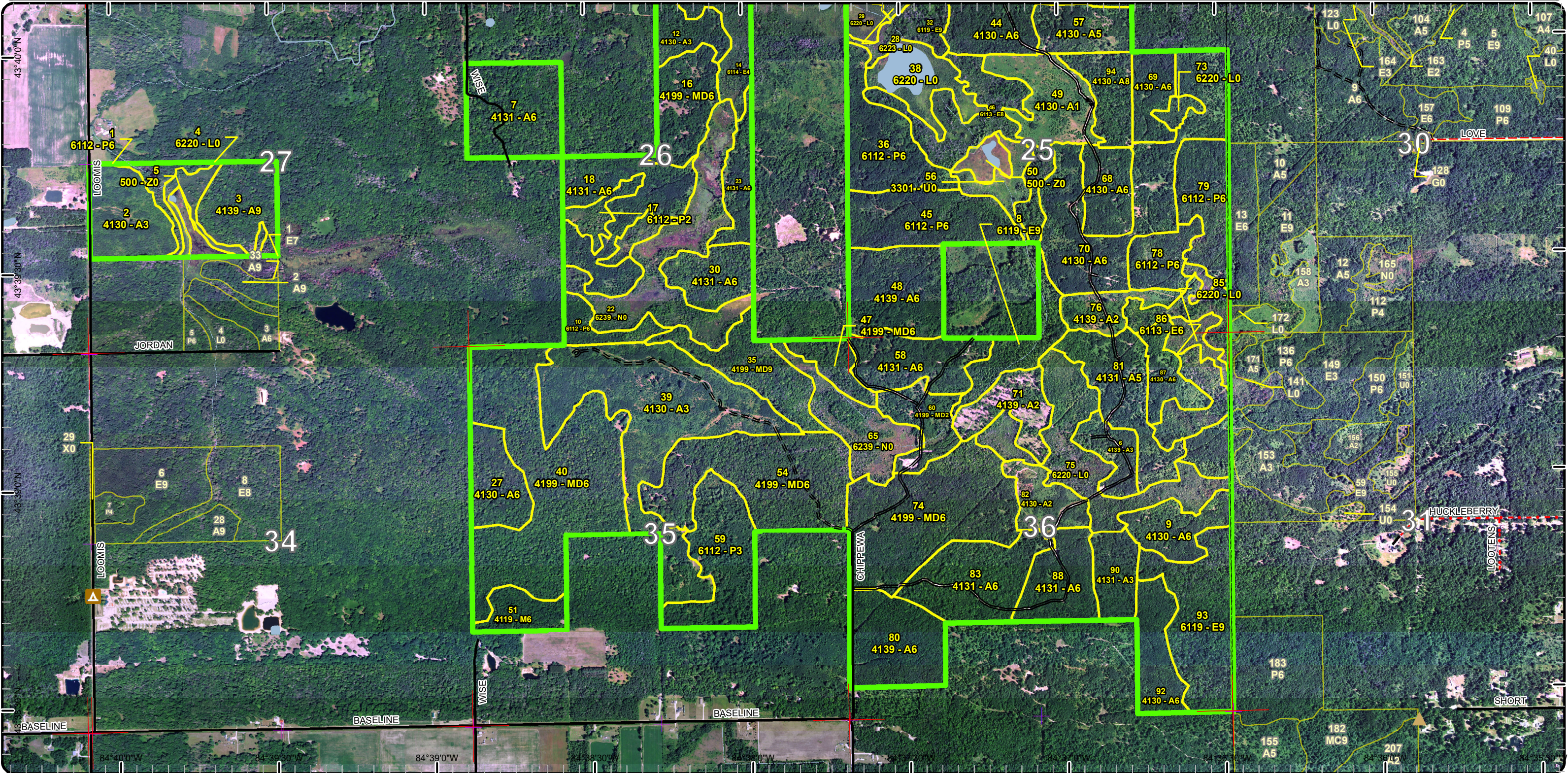


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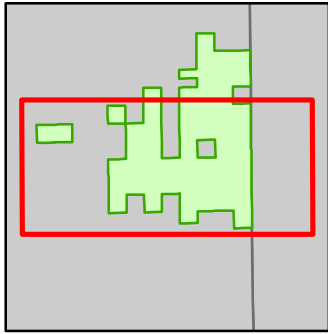
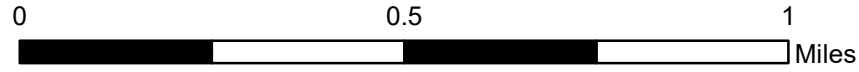


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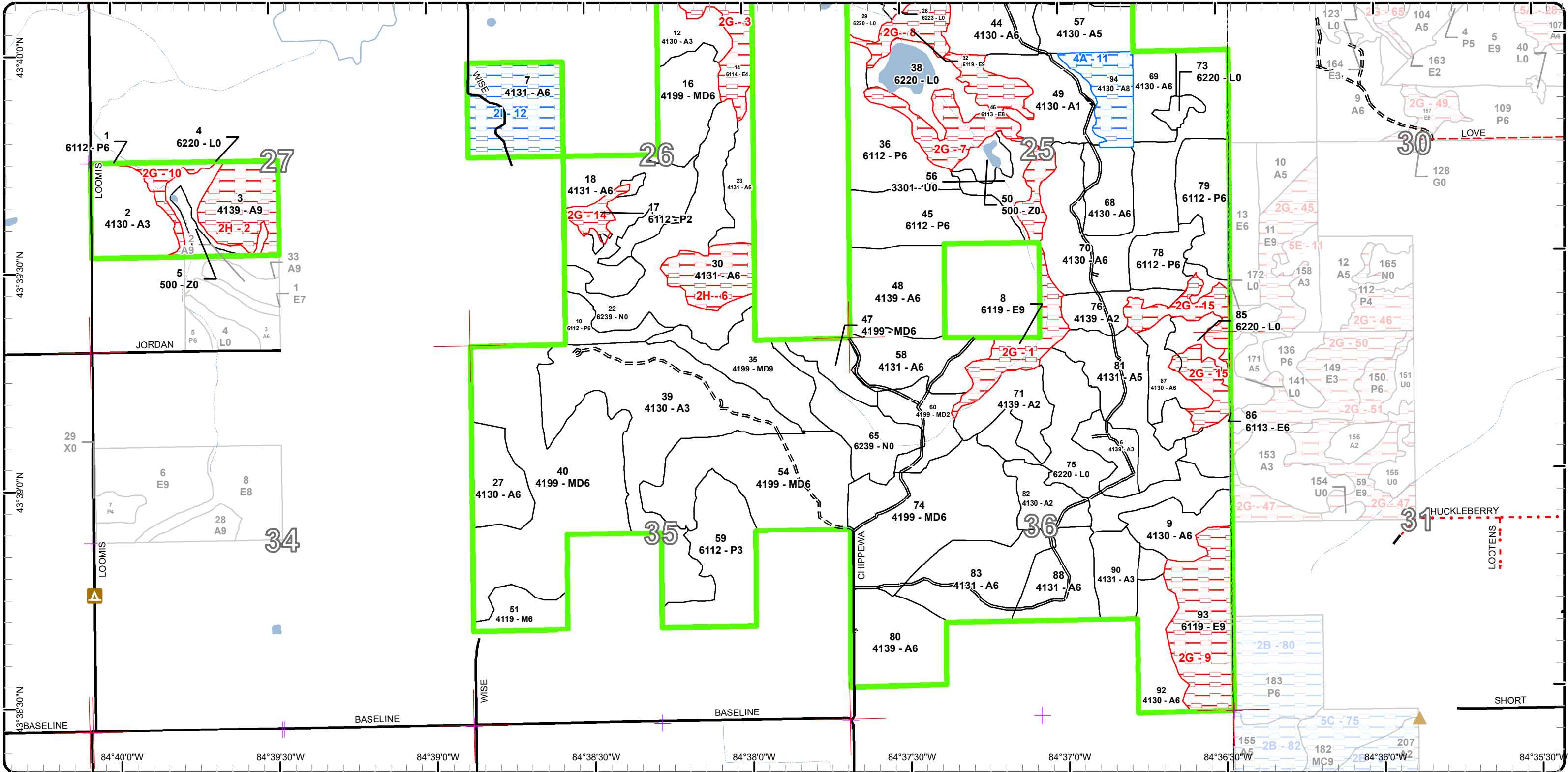


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- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries



Report 1 – Total Acres by Cover Type and Age Class

Gladwin Mgt. Unit

Compartment 120 Year of Entry 2023

Colton Behrmann : 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	21	259	321	403	19	27	60	9	0	0	0	0	0	0	0	0	0	1119
Low-Density Trees	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Aspen/Balsam Poplar	0	0	40	69	127	0	0	8	0	0	0	0	0	0	0	0	0	0	244
Lowland Deciduous	0	0	0	0	9	7	30	79	0	0	83	0	0	0	0	0	0	0	208
Lowland Shrub	142	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	142
Marsh	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86
Mixed Upland Deciduous	0	0	12	46	0	0	209	75	0	0	0	0	0	0	0	0	0	0	342
Northern Hardwood	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Water	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	252	21	311	450	539	26	266	222	9	0	83	0	0	0	0	0	0	0	2179



Report 2 – Treatment Summary

Gladwin Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 120

Total Compartment Acres: 2,180

Commercial Harvest - 99
 Harvests with Site Condition - 86
 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	87	0	0	0	0	0	0	0	0	87
Mixed Upland Deciduous	99	0	0	0	0	0	0	0	0	99
Total	185	0	0	0	0	0	0	0	0	185

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	185	0	0	0	0	0	0	0	0	185
Next Step	0	0	0	0	0	185	0	0	0	185
Total	185	0	0	0	0	185	0	0	0	371



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

Proposed Treatments:

3	73120003-Cut	27.0	4139 - Aspen, Mixed Deciduous	Sawtimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in DBH. Follow standard island retention. Focus retention around wet pockets. Add grouse spec. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> A naturally regenerated stand of aspen with mixed oak and red maple, meeting minimum stocking standards. <u>Regen:</u></p> <p><u>Other</u> Stand currently blocked by lowland & private interface. <u>Comment:</u></p> <p><u>Site Condition</u> Blocked by Obstacle <u>Proposed Start Date:</u> 10/1 /2022</p>											
7	73120007-Cut	40.2	4131 - Aspen, Oak	Poletimber Well	67	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in DBH, except white oak smaller than 6 inches in diameter. Follow standard island retention. Focus retention around lowland ground in the northeastern part of stand. Add grouse spec. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> A naturally regenerated stand of aspen, red maple and mixed oak meeting minimum stocking standards. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2022</p>											
35	73120035-Cut	30.1	4199 - Other Mixed Upland Deciduous	Sawtimber Well	57	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in DBH. Follow standard island retention. Focus retention around lowland pockets. Add frozen / dry condition spec. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> A naturally regenerated stand of aspen, red maple and oak meeting minimum stocking standards. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											



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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
54 73120054-Cut	68.8	4199 - Other Mixed Upland Deciduous	Poletimber Well	57	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in DBH. Follow standard island retention. Focus retention around lowland pockets.</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> A naturally regenerated stand of aspen, red maple and oak meeting minimum stocking standards.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
94 73120094-Cut	19.3	4130 - Aspen	Sawtimber Medium	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater in DBH. Follow standard island retention. Focus retention around lowland pockets. Add grouse spec.</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> A naturally regenerated stand of aspen, with a minor component of red maple and oak.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> No Markets</p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment 185.4
Acreage Proposed:

Report 4 – Site Conditions

Gladwin Mgt. Unit
Colton Behrmann : Examiner

Compartment: 120
Year of Entry: 2023

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

2I 4A 2G 2H 5A

1121	1004	59	57	Aspen	40	19	1	47	9
12	12	0	0	Low-Density Trees					
245	231	0	14	Lowland Aspen/Balsam Poplar			14		
208	18	0	190	Lowland Deciduous			190		
142	142	0	0	Lowland Shrub			0		
85	85	0	0	Marsh					
342	342	0	0	Mixed Upland Deciduous					
14	14	0	0	Northern Hardwood					
12	12	0	0	Water					
2,180	1,860	59	261	Total Forested Acres	40	19	205	47	9
	85%	3%	12%	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)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	27	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit

Compartment: 120

Colton Behrmann : Examiner

Year of Entry: 2023

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5A: Not able to obtain desirable regeneration	9	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: Hold stand until adjacent aspen stands reach silvicultural criteria.							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	20	2B: Unknown if access through adjacent landowner(s) is possible	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments: Stand is landlocked by lowland hardwoods & a private parcel. Parts of stand are too wet for harvest.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit

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8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	4A: No Markets Available for these Forest Products	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Current road system to access this stand is in poor to failed condition. Road maintenance & work outweighs current timber value.							
12	Available	2I: Survey needed	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey needed for NE, NW & SE corners.							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit

Compartment: 120

Colton Behrmann : Examiner

Year of Entry: 2023

15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	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

Mgt. Unit

Compartment:

Year of Entry



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
1	6112 - Lowland Aspen	Poletimber Well	8.0	67	51-80	N/A	Small upland stand between a clearcut and lowland. Stand is comprised of pole red maple with a minor component of aspen and red maple logs. Access is an issue due to lowland.																																																
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2	4130 - Aspen	Sapling Well	29.5	15	Immature	N/A	Immature aspen stand with small inclusions of lowland.																																																
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3	4139 - Aspen, Mixed Deciduous	Sawtimber Well	27.0	50	81-110	N/A	Mature aspen stand with oak and maple logs mixed in. Pole red maple is recruiting. There are lowland pockets in the north with tag alder, dead ash and pole maple. Ground has knolls, but not too wet for commercial harvest.																																																
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4	6220 - Alder/willow	Nonstocked	10.3			No	Lowland filled in with tag alder and Scrub hardwoods along the edges.																																																
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5	500 - Water	Nonstocked	5.0			No	Open water. Large beaver lodge in north. Impounded by a beaver dam. Current beaver activity and trapping in winter 2021.																																																
6	4139 - Aspen, Mixed Deciduous	Sapling Well	14.2	37		N/A																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
7	4131 - Aspen, Oak	Poletimber Well	40.2	67	81-110	N/A	About even between red maple and aspen in the canopy. Minor oak component in the overstory, but shows signs of recruitment and potential future canopy cover. There is a more significant portion of white oak recruitment in the NW corner of the stand. There is also an opening in the NW corner that will serve as a landing location.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		40	Pole/Log	9	67	Red Maple	High	>20 feet	Pole
White Oak		10	Log	14		White Oak	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		40	Pole/Log	9	67	Beech	Low	5 - 10 feet	Sapling
Red Oak		10	Pole	7		White Pine	Trace	5 - 10 feet	Sapling
8	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	19.7	92	81-110	N/A	Mature lowland hardwood showing signs of decadence. Lowland portion of old stand 71. This area was not harvested because it is too wet.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		50	Log	12	92	Red Maple	High	>20 feet	Sapling
White Oak		8	Log	11		Black/Red (Hybrid) Oak	Medium	>20 feet	Sapling
Paper Birch		2	Log	10		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen		30	Log	12					
Black/Red (Hybrid) Oak		10	Log	14					
9	4130 - Aspen	Poletimber Well	20.1	35	51-80	N/A	Upland aspen stand with a minor component of mixed oak. Good amount of wildlife use.		
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		40	Pole	6	35				
Black/Red (Hybrid) Oak		8	Pole	7					
White Oak		10	Pole	8					
Red Maple		20	Pole	5					
Quaking Aspen		22	Pole	6					
10	6112 - Lowland Aspen	Poletimber Well	11.1	25	81-110	N/A	Lowland pole aspen stand with standing water.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		40	Pole	5	25				
Bigtooth Aspen		45	Pole	6	25				
Black/Red (Hybrid) Oak		5	Pole	5					
Paper Birch		10	Pole	5					
12	4130 - Aspen	Sapling Well	14.3	25	Immature	N/A	Mixed aspen stand with a fair amount of lowland influence		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		20	Pole/Sapling	5					
Red Oak		5	Sapling/Pole	4					
White Oak		5	Sapling/Pole	4					
Quaking Aspen		35	Sapling/Pole	4	25				
Bigtooth Aspen		30	Sapling/Pole	4					
Pin Cherry		5	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
14	6114 - Lowland Oak	Poletimber Poor	30.4	55	51-80	N/A	Lowland hardwoods with dense alder.																																										
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16	4199 - Other Mixed Upland Deciduous	Poletimber Well	26.9	25	51-80	N/A	Upland aspen stand with a good trail network and openings from past timber harvests.																																										
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17	6112 - Lowland Aspen	Sapling Medium	14.4	26	1-50	N/A	Lowland aspen that did not regenerate as well with adjacent upland stand. Too wet for commercial harvests.																																										
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18	4131 - Aspen, Oak	Poletimber Well	45.0	26	81-110	N/A	Excellent regeneration. Good trail system and openings from previous timber harvests. Heavy wildlife use in the area.																																										
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22	6239 - Mixed Emergent Wetland	Nonstocked	57.1			No	Wetland influenced by beaver dams. Heavy waterfowl use. Signs of recent beaver activity.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23	4131 - Aspen, Oak	Poletimber Well	15.7	26	51-80	N/A	Upland aspen stand that is blocked from lowlands and private land. Very wet path to access stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	30	Pole	5	26
Bigtooth Aspen	25	Pole	5	
Red Maple	25	Pole	5	
Black/Red (Hybrid) Oak	15	Pole	5	
White Oak	5	Pole	5	

24	6113 - Lowland Maple	Poletimber Medium	7.1	46	81-110	N/A	Lowland hardwood stand with pole maple recruiting
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	70	Pole	8	46	Tag Alder	High	5 - 10 feet	Tall Shrub
Bigtooth Aspen	5	Pole	8		Red Maple	Medium	>20 feet	Sapling
Paper Birch	5	Pole	6		Beech	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	5	Log	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Oak	15	Pole	8					

27	4130 - Aspen	Poletimber Well	22.1	33	81-110	N/A	Stand varies in size, but overall the aspen is 6-7" and 33 years old. There are log aspen and maple, as well as pockets of white pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Log	12		Red Maple	Medium	>20 feet	Pole
Bigtooth Aspen	62	Pole/Log	8	33	White Pine	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	10	Pole/Log	9		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
White Pine	5	Log/XLog	16					
White Oak	8	Log	12					

28	6223 - Inundated Shrub Swamp	Nonstocked	8.6			No	Lowland stand with dead ash and a high density of tag alder.
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Sub-Canopy Species	Density	Avg. Height	Size
Alder	High		Tall Shrub

29	6220 - Alder/willow	Nonstocked	6.4		Unspecified	No	Lowland flooding with dense alder on the stand boundary & open water in the center.
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Sub-Canopy Species	Density	Avg. Height	Size
Alder	High	Unspecified	Tall Shrub

30	4131 - Aspen, Oak	Poletimber Well	20.2	67	81-110	N/A	Upland/lowland hardwood stand that is physically blocked by lowland and private. Parts of the stand would be too wet for harvest.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	40	Log	13	67	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	35	Log	11	67	Red Maple	Medium	10 - 20 feet	Sapling
White Oak	10	Log	12					
Black/Red (Hybrid) Oak	15	Log	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
31	6220 - Alder/willow	Nonstocked	2.0		Unspecified	No	Lowland alder thicket. High water table.
		Sub-Canopy Species		Density	Avg. Height	Size	
		Alder		Full		Tall Shrub	
32	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	21.0	92	81-110	N/A	Majority of stand is too wet to harvest. Only a few acres in the NE were dry upon field visit.
		Canopy Species		% Cover	Size Class	DBH	Age
		Red Maple		55	Pole/Log	9	92
		Bigtooth Aspen		35	Log	11	
		White Oak		5	Log	16	
		Black/Red (Hybrid) Oak		5	Log	14	
		Sub-Canopy Species		Density	Avg. Height	Size	
		Red Maple		Medium	>20 feet	Sapling	
		Tag Alder		High	5 - 10 feet	Tall Shrub	
33	4130 - Aspen	Sapling Well	34.3	16	Immature	N/A	Immature aspen stand that has filled in better than young stands to the south.
		Canopy Species		% Cover	Size Class	DBH	Age
		Red Maple		20	Sapling	3	
		Bigtooth Aspen		65	Sapling	3	16
		Black/Red (Hybrid) Oak		15	Sapling	2	
34	4130 - Aspen	Poletimber Well	34.7	24	51-80	N/A	Immature well stocked aspen stand with a little lowland influence in the northern portion.
		Canopy Species		% Cover	Size Class	DBH	Age
		Red Maple		20	Sapling	4	
		White Oak		7	Sapling	3	
		Bigtooth Aspen		70	Pole/Sapling	5	24
		Pin Cherry		3	Sapling	3	
35	4199 - Other Mixed Upland Deciduous	Sawtimber Well	30.1	57	81-110	N/A	Upland with plenty of lowland drains. Red maple and aspen logs dominate the canopy with oak mixed in.
		Canopy Species		% Cover	Size Class	DBH	Age
		Red Maple		43	Log/Pole	11	57
		Bigtooth Aspen		25	Log	14	
		Black/Red (Hybrid) Oak		15	Log	12	
		Paper Birch		5	Log	10	
		White Pine		2	Log	14	
		White Oak		10	Pole/Log	9	
		Sub-Canopy Species		Density	Avg. Height	Size	
		Red Maple		Medium	>20 feet	Pole	
		Beech		Trace	>20 feet	Sapling	
		White Oak		Low	5 - 10 feet	Sapling	
36	6112 - Lowland Aspen	Poletimber Well	34.8	24	81-110	N/A	Matrix of lowland with upland ridges. Well stocked aspen stand with a few trails running through.
		Canopy Species		% Cover	Size Class	DBH	Age
		Red Maple		25	Pole	5	
		Paper Birch		5	Pole	5	
		Quaking Aspen		20	Pole	6	
		Bigtooth Aspen		45	Pole	6	24
		Black/Red (Hybrid) Oak		5	Pole	6	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
37	6112 - Lowland Aspen	Poletimber Well	44.2	37	81-110	N/A	Mixed aspen stand with lowland. Lowland splits the stand in the south, and northern portion is mostly lowland, but not too wet for harvest. The oak component is in the northern half of the stand.																																						
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38	6220 - Alder/willow	Nonstocked	23.4		Unspecified	No	Lowland alder thicket with recent beaver activity.																																						
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39	4130 - Aspen	Sapling Well	102.5	15	Immature	N/A	Well stocked immature aspen stand.																																						
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40	4199 - Other Mixed Upland Deciduous	Poletimber Well	110.1	55	81-110	N/A	Stand is extremely variable. Mix of upland and lowland matrix. Some log sized aspen and oak, other areas of pole red maple and aspen. Lowland ground is dry in March of 2021. All trees cored varied in age, with red maple the most dominant species.																																						
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41	4130 - Aspen	Sapling Poor	18.5	16	Immature	N/A	Patchy aspen regen from previous harvest. Multiple clones of aspen with cherry and maple sporadic throughout stand.																																						
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42	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	8.7	37	51-80	N/A	forested lowland hardwood																																						
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44	4130 - Aspen	Poletimber Well	55.7	37	81-110	N/A	Upland aspen with lowland influence in the Eastern end. There is a minor component of oak logs in the canopy. Well stocked stand.																																				
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45	6112 - Lowland Aspen	Poletimber Well	39.8	37	81-110	N/A	Pockets of aspen are starting to push 7-9" dbh, but most of stand is still sitting around 5-6" in dbh. There is a small drainage running through the stand.																																				
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46	6113 - Lowland Maple	Sawtimber Medium	41.7	90	51-80	N/A	Lowland hardwood stand best if not treated commercially.																																				
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47	4199 - Other Mixed Upland Deciduous	Poletimber Well	12.0	16	81-110	N/A	Stand has saplings recruiting, but still holds a 60-90 basal area of red maple and aspen.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
48	4139 - Aspen, Mixed Deciduous	Poletimber Well	37.2	25	51-80	N/A	Young hardwood stand with log oak left in canopy, varying anywhere from 00-40 basal area. Lot of aspen regen and red maple stump sprouts.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		20	Pole	5	25		
White Oak		4	Pole	5			
Quaking Aspen		21	Pole	6	25		
Bigtooth Aspen		20	Pole	7	25		
Black/Red (Hybrid) Oak		15	Pole	6			
Black Cherry		5	Sapling	3			
Paper Birch		10	Pole	5			
Black/Red (Hybrid) Oak		5	Log	12			
49	4130 - Aspen	Sapling Poor	29.8	16	Immature	N/A	Upland aspen stand with lowland influence. Very patchy regeneration in stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		30	Sapling	1			
Bigtooth Aspen		65	Sapling	1	16		
Black/Red (Hybrid) Oak		5	Sapling	3			
Sub-Canopy Species		Density	Avg. Height	Size			
Tag Alder		Low	5 - 10 feet	Tall Shrub			
50	500 - Water	Nonstocked	7.3			No	Beaver pond with past beaver activity.
Sub-Canopy Species		Density	Avg. Height	Size			
Alder		Full		Tall Shrub			
51	4119 - Mixed Northern Hardwoods	Poletimber Well	13.7	26	51-80	N/A	Featuring the maple and aspen understory. About 20-40 basal area of canopy mixed oak left. Canopy oak is in great condition.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		70	Pole	6	26		
White Oak		5	Pole/Log	9			
Bigtooth Aspen		10	Pole	6			
White Pine		5	Log	15			
Black/Red (Hybrid) Oak		10	Log/Pole	10	60		
Sub-Canopy Species		Density	Avg. Height	Size			
White Oak		Low	10 - 20 feet	Sapling			
52	6220 - Alder/willow	Nonstocked	20.4		Unspecified	No	Center of stand has open water, but is surrounded by dense tag alder. Stand has multiple fingers that reach out into adjacent aspen stands.
Sub-Canopy Species		Density	Avg. Height	Size			
Tag Alder		High		Tall Shrub			
53	6112 - Lowland Aspen	Poletimber Well	9.0	24	51-80	N/A	Now a lowland stand with patchy regen & dense alder in the understory.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		28	Pole	5			
Paper Birch		2	Sapling	3			
Quaking Aspen		25	Pole/Sapling	5			
Bigtooth Aspen		33	Pole/Sapling	5	24		
Black/Red (Hybrid) Oak		7	Sapling	2			
White Oak		5	Sapling	3			
Sub-Canopy Species		Density	Avg. Height	Size			
Alder		Medium	10 - 20 feet	Tall Shrub			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
54	4199 - Other Mixed Upland Deciduous	Poletimber Well	68.8	57	111-140	N/A	Mixed upland stand, pole class has begun recruiting. Mostly red maple. Aspen is mature, but red maple and oak is not there yet.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		40	Log/Pole	10	57	Black/Red (Hybrid) Oak	
White Oak		10	Pole/Log	9		Quaking Aspen	
Bigtooth Aspen		20	Pole	8		Red Maple	
Black/Red (Hybrid) Oak		20	Log	12	57	Witch Hazel	
Quaking Aspen		10	Pole/Log	9			
55	4130 - Aspen	Poletimber Well	29.5	37	Unspecified	N/A	Upland aspen stand that slowly transitions into lowland along the eastern edge. There is a pocket of mature timber that may have been left from previous harvest along the east edge.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		20	Pole	6			
Paper Birch		5	Pole	5			
Quaking Aspen		25	Pole	7			
Bigtooth Aspen		40	Pole	7	37		
Black/Red (Hybrid) Oak		10	Pole	8			
56	3301 - Low Density Deciduous Trees	Nonstocked	11.7			No	
Sub-Canopy Species		Density	Avg. Height	Size			
Tag Alder		High	5 - 10 feet	Tall Shrub			
Red Maple		Medium	>20 feet	Pole			
57	4130 - Aspen	Poletimber Medium	20.4	24	81-110	N/A	Upland aspen stand with multiple pockets of lowland hardwood. Eastern end of stand is more patchy & bumped overall canopy cover down.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		15	Pole	5		Tag Alder	
Quaking Aspen		10	Pole	6		Medium	
Bigtooth Aspen		70	Pole	6	24	5 - 10 feet	
Black/Red (Hybrid) Oak		5	Pole	6		Tall Shrub	
58	4131 - Aspen, Oak	Poletimber Well	30.1	37	81-110	N/A	Mixed upland hardwoods, with some log oak that were left from previous management. Healthy looking stand with some patchy openings
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		30	Pole	6		Witch Hazel	
Quaking Aspen		10	Pole	6		Medium	
Bigtooth Aspen		35	Pole	6	37	5 - 10 feet	
Black/Red (Hybrid) Oak		25	Pole	8	37	Tall Shrub	
59	6112 - Lowland Aspen	Sapling Well	40.3	15	Unspecified	N/A	Clear cut 15 years ago leaving a minor component of pole sized black oak.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		20	Sapling	3			
Quaking Aspen		35	Sapling	4	15		
Bigtooth Aspen		30	Sapling	4			
Black/Red (Hybrid) Oak		15	Sapling	3			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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60	4199 - Other Mixed Upland Deciduous	Sapling Medium	19.4	25	51-80	N/A	Mixed upland hardwood with red maple dominating. Basal area will increase as stand ages. Well stocked stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	48	Sapling/Pole	4	25
Paper Birch	2	Sapling	3	
Black/Red (Hybrid) Oak	25	Sapling/Pole	4	
White Oak	10	Sapling/Pole	4	
Quaking Aspen	15	Pole	5	

62	4130 - Aspen	Poletimber Poor	14.2	24	51-80	N/A	Aspen stand coming back well. Not as patchy as surrounding young aspen stands. There are pockets of lowland.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	5		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch	2	Sapling	3					
Quaking Aspen	20	Pole	6					
Bigtooth Aspen	50	Pole	6	24				
Black/Red (Hybrid) Oak	8	Pole	5					
White Oak	5	Sapling	4					

64	4130 - Aspen	Poletimber Well	45.5	37	81-110	N/A	Matrix of upland ridges and lowland swales. Small inclusions of tag alder lowlands.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	6		Alder	Medium	10 - 20 feet	Tall Shrub
White Oak	2	Pole	6					
Paper Birch	3	Pole	6					
Quaking Aspen	20	Pole	8					
Bigtooth Aspen	50	Pole	7	37				
Black/Red (Hybrid) Oak	5	Pole	8					

65	6239 - Mixed Emergent Wetland	Nonstocked	28.4			No	
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Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub
Willow spp.	Low	10 - 20 feet	Tall Shrub
Common Cattail	Medium	Unspecified	Non-Wood

66	4139 - Aspen, Mixed Deciduous	Sawtimber Well	8.7	70	51-80	N/A	Over mature aspen intermixed with younger maple. Much aspen has fallen over. Considerable pole sized maple regen in understory.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Log	12	70	Red Maple	Medium	>20 feet	Sapling
Paper Birch	5	Pole	7		Beech	Low	5 - 10 feet	Sapling
Bigtooth Aspen	45	Log	16	70				
Black/Red (Hybrid) Oak	5	Log	11					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
67	4130 - Aspen	Sapling Medium	13.2	16	Immature	N/A	Clear cut in 2005. Patchy regen of aspen clones.																																								
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68	4130 - Aspen	Poletimber Well	19.6	37	81-110	N/A	Upland aspen stand beginning to increase in basal area, but still a small pole sized stand.																																								
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69	4130 - Aspen	Poletimber Well	15.9	33	51-80	N/A	Upland with lowland aspen stand. Stand shows sign of previous harvest running into soft, low ground in the northern quarter. Overall DBH is around 5-6", but there are pockets of 2-4" as well.																																								
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70	4130 - Aspen	Poletimber Well	73.3	24	51-80	N/A	Immature aspen stand starting to transition into poles. There are a few lowland depressions in the stand.																																								
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Black/Red (Hybrid) Oak	5	Pole/Sapling	5																																												
Pin Cherry	5	Sapling	4																																												
71	4139 - Aspen, Mixed Deciduous	Sapling Medium	21.0	5	Immature	N/A	Stand was harvested in the late winter and summer of 2016 under contract number 73-022-13-01, Whitetail Refuge. Clear cut 2" and up except all paper birch and conifer were left along with green marked white oak. Some aspen regeneration was starting at time of closure. Stand has patching red maple and aspen regeneration. Regeneration getting hit hard by deer browse. Other areas of stand have swamped out. Stand meets the 6' & minimum stocking level for regeneration. Assess stand in the future to split out lowlands that did not regenerate as well.																																								
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Bigtooth Aspen	50	Sapling	1	5																																											
Black/Red (Hybrid) Oak	5	Sapling	1																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
72	6220 - Alder/willow	Nonstocked	3.1		Immature	No	Lowland hardwood pocket with dense tag alder understory.
		Sub-Canopy Species		Density	Avg. Height	Size	
		Red Maple		Low	>20 feet	Pole	
		Quaking Aspen		Low	>20 feet	Pole	
		Tag Alder		Full	5 - 10 feet	Tall Shrub	
73	6220 - Alder/willow	Nonstocked	4.0			No	Lowland alder with dead ash standing. Surrounded by immature aspen stands
		Sub-Canopy Species		Density	Avg. Height	Size	
		Tag Alder		High	5 - 10 feet	Tall Shrub	
74	4199 - Other Mixed Upland Deciduous	Poletimber Well	74.8	64	81-110	N/A	Mixed hardwood stand around 64 years old. Stand makeup varies based on aspen clones. Mostly red maple, with aspen and a minor oak component. Southeast stand line is pretty arbitrary.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		50	Log/Pole	11	64	Witch Hazel	
White Oak		3	Log	10		White Oak	
Bigtooth Aspen		35	Pole	7		Paper Birch	
Black/Red (Hybrid) Oak		10	Pole	8			
White Pine		2	Log	14			
75	6220 - Alder/willow	Nonstocked	52.5		Unspecified	No	Lowland alder thicket that bisects a large portion of the compartment. Lowland areas where it crosses the forest road are wet & in very poor condition.
		Sub-Canopy Species		Density	Avg. Height	Size	
		Alder		Full		Tall Shrub	
		Willow spp.		Full		Tall Shrub	
76	4139 - Aspen, Mixed Deciduous	Sapling Medium	14.2	16	Immature	N/A	Immature stand still filling in. closer to 50-60% canopy cover.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		40	Sapling	2			
White Oak		2	Sapling	2			
Bigtooth Aspen		50	Sapling	3	16		
Black/Red (Hybrid) Oak		8	Sapling	2			
78	6112 - Lowland Aspen	Poletimber Well	16.0	37	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		30	Pole	7			
Paper Birch		8	Pole	6			
Bigtooth Aspen		62	Pole	7	37		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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79 6112 - Lowland Aspen Poletimber Well 27.4 37 81-110 N/A Lowland aspen stand too wet for commercial harvest. Beaver activity throughout stand. Signs of previous harvests that show low, soft ground.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole	8		Alder	Medium	10 - 20 feet	Tall Shrub
Paper Birch	10	Sapling/Pole	3					
Bigtooth Aspen	45	Pole/Log	9	37				
Black/Red (Hybrid) Oak	5	Pole	6					
White Oak	10	Pole	7					

80 4139 - Aspen, Mixed Deciduous Poletimber Well 37.2 37 81-110 N/A Well stocked aspen stand. There is a lowland finger running through the stand, but not too wet for harvests in the future.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole	6	37	White Oak	Low	10 - 20 feet	Sapling
Red Oak	10	Pole	7		Red Maple	Low	>20 feet	Sapling
White Oak	8	Sapling/Pole	4					
Paper Birch	2	Pole	5					
Quaking Aspen	40	Pole	6	37				
Bigtooth Aspen	10	Pole	6					

81 4131 - Aspen, Oak Poletimber Medium 35.8 24 Immature N/A Immature aspen stand still filling in. There are a few openings throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Sapling	5	
White Oak	10	Pole/Sapling	5	
Paper Birch	2	Sapling	4	
Quaking Aspen	16	Pole/Sapling	6	
Bigtooth Aspen	42	Pole/Sapling	5	24
Black/Red (Hybrid) Oak	10	Pole	7	

82 4130 - Aspen Sapling Medium 17.4 16 Immature N/A Immature aspen stand with oak recruiting. There are open pockets from previous timber harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling	3	
White Oak	6	Sapling	2	
Quaking Aspen	35	Sapling	2	16
Bigtooth Aspen	30	Sapling	2	
Black/Red (Hybrid) Oak	10	Sapling	2	
Pin Cherry	4	Sapling	2	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
83	4131 - Aspen, Oak	Poletimber Well	39.6	37	51-80	N/A	Aspen stand with mixed log sized oak that seem to have been left from previous harvest. Not a measurable amount. Healthy canopy oak and 37 y.o. regen.																																				
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85	6220 - Alder/willow	Nonstocked	10.9		Unspecified	No	Lowland tag alder thicket surrounded by lowland hardwoods. Very wet.																																				
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Alder	Full		Tall Shrub																																								
86	6113 - Lowland Maple	Poletimber Well	31.3	60	51-80	N/A																																					
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87	4130 - Aspen	Poletimber Well	24.8	37	81-110	N/A																																					
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88	4131 - Aspen, Oak	Poletimber Well	26.2	35	81-110	N/A	Well stocked aspen stand. Western boundary is pretty arbitrary																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
90	4131 - Aspen, Oak	Sapling Well	16.8	24	51-80	N/A	Lowland aspen stand starting to reach pole size. Operability due to saturated soils will be an issue in future management.																																								
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92	4130 - Aspen	Poletimber Well	22.8	37	81-110	N/A	Upland aspen stand surrounded by private and lowland hardwood. Access will be limited in future management.																																								
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93	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	47.8	68	81-110	N/A	Lowland hardwood too wet for commercial harvest. Areas of blowdown and a fair share of dead ash. Maple continues to recruit.																																								
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94	4130 - Aspen	Sawtimber Medium	19.3	49	81-110	N/A	Patchy mature aspen stand with a minor oak component and red maple in the lowland pockets.																																								
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