



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73107

Entry Year 2019

Acreage: 2,844

County Midland

Management Area: Midland-Isabella

Revision Date: 2017-05-23

Stand Examiner: Scott Shooltz

Legal Description:

Midland County, Geneva Township, T 15N, R 02W Sections: 19, 20, 26, 27, 28, 29, 30 & 31

Identified Planning Goals:

The identified planning goals for compartment 107 which is in the Midland-Isabella management area (MA) are as follows: provide forest products; maintain or enhance wildlife habitat; protect areas of unique character and provide for forest-based recreational uses. A significant portion of the compartment is swampy and therefore relatively inaccessible which will affect the extent to which this compartment will be able to contribute to the identified goals. Timber management for this 10-year planning period will focus on balancing the age-class distributions for aspen. Roughly 55% of the cover-type in this compartment is either upland or lowland aspen. 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.

Soil and topography:

Compartment 107 is comprised of large Pipestone sand til-floored lake plains and deltas (36.6%), Kingsville loamy fine sand (22.4%) and Kingsville loamy sand (14.6%) drainage ways and flats, Kinross mucky sand lake plains and depressions (9.2%), and narrow Covert sand ridges (8.5%). The Covert sand ridges are the highest land feature and are moderately well drained with a depth to the water table of 24 inches. The Pipestone sand plains and deltas make up the next lowest land feature with a water table depth of 6 to 8 inches and are somewhat poorly drained. The lowest land features in the compartment are the Kingsville drainage ways and flats as well as the Kinross mucky sand depressions which have a water table depth of 0 inches and are poorly drained.

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

Compartment 107 contains all the state land north of Carrol Creek Drain and between the Isabella & Midland county line and N. Magruder Rd. State ownership borders to the south (compartment 111, Midland County) and to the west (compartment 120, Isabella County). The north and east borders are primarily recreational properties averaging 10 to 20 acres. Sections 20 and 21 however are mostly permanent residences with some of those in agricultural use.

Unique Natural Features:

Sections 19 & 20 have potential for Hayden's sedge. Hayden's sedge (*Carex haydenii*) is presumed extirpated (Legally threatened if rediscovered).

Archeological, Historical, and Cultural Features:

There is an archeological, historical or cultural concern in section 19 which contains both state and private ownership.

Special Management Designations or Considerations:

No special management designations or considerations. Stand 30 was nominated for the SCA of potential old growth last inventory cycle but was later determined that it does not meet the criteria for type 1 or 2 old growth. The current SCA for the stand is Scenic/Recreational Value. The SCA is recommended for removal as well for this management cycle as it does not meet that definition either.

Watershed and Fisheries Considerations:

Carroll Creek Drain runs through the compartment which is a warm water stream roughly 12 feet wide. The drain is a tributary to the Tittabawassee. Although not recently surveyed, past surveys rated the stream habitat in poor to severely poor (1992, 1997) shape due mostly to shifting sand and impacted by channelization. Surveys indicate that a canopy cover was redeveloping and helping the system as was vegetation along the banks. Macro-invertebrates rated as acceptable and fish were rated as good to slightly impaired. Care should be taken to maintain immediate bank stability and canopy cover.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and minor dune sand. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift are the Jurassic Red Beds, the Pennsylvanian Grand River and Saginaw Formations. The Saginaw Formation is used for clay/shale in other areas of the State. There is no known metallic mineral potential in this part of the state. Sand/gravel pits do not exist in the area, and sand and gravel potential in the compartment is considered limited. There has been some recent leasing of severed minerals (private surface) in the vicinity for potential potash exploration and mining. But, all of the leases have been released. Plugged oil wells from the abandoned Geneva Field are located within the compartment and the abandoned Mt. Pleasant Field is located just south of the compartment. Numerous dry holes are located in and around the compartment, and oil and gas potential within the compartment appears to be low. There are no current state oil and gas leases in the compartment. An abandoned gas pipeline ROW runs SW to NE through sections 30 and 20. The portion running through section 30 was removed but the portion in section 20 is still buried. The ROW corridor has been severely degraded and is closed to traffic however the closures need to be reinforced to prevent further degradation.

Vehicle Access:

Compartment 107 can be accessed from four distinct points; Love Rd. west of Coleman Rd.; Coleman Rd.; N. Lewis Rd.; and N. Geneva Rd. There is not access from the south because of Carrol Creek Drain. The state forest roads in the compartment are poor at best and are inaccessible during most times of the year due low wet ground and a lack of road infrastructure. The best access in the compartment is a state forest road which runs south from N. Geneva Rd. into section 27. The vast majority of the state forest roads in sections 19, 20, 29, 30, and 31 have been closed to vehicle traffic in order to prevent further resource degradation.

Survey Needs:

Compartment 107 has 14 1/4 miles of private interface, much of that boundary is occupied by a manageable cover-type. The western 2/3rds of the compartment has numerous land corner records available, most of which were re-set in the early 90's. The bulk of the survey needs for this 10 year management cycle will be concentrated in sections 26 & 27 to assist with boundary lines for commercial harvests. Minimal survey needs to resolve trespass issues.

Recreational Facilities and Opportunities:

No designated recreation facilities or trails exist within the compartment. However dispersed recreation is present within the compartment for hunting, fishing, camping, etc. and user created game trails due to the interface with private land. Utilize forestry management practices to curtail illegal motorized activity.

Fire Protection:

The risk of a large wildfire affecting this compartment is low due to the amount and even distribution of low wet areas. However many of the scattered sand ridges are used for camping. These ridges are also the driest areas of the compartment meaning the most conducive to a wildfire start. This coupled with difficult access for heavy equipment could result in a wildfire growing to ten plus acres.

Additional Compartment Information:

New compartment 107 is a combination of the entire old compartment 107; the western block of old compartment 108; portions of old compartments 109 & 110 which were north of Carrol Creek Drain and the NW 160 acres of old compartment 109.

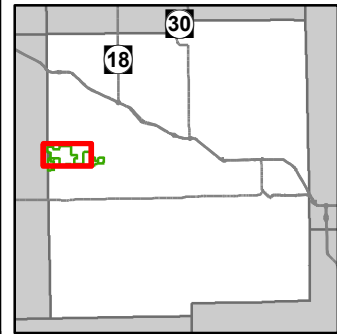
The following reports from the Inventory are attached:

- 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:

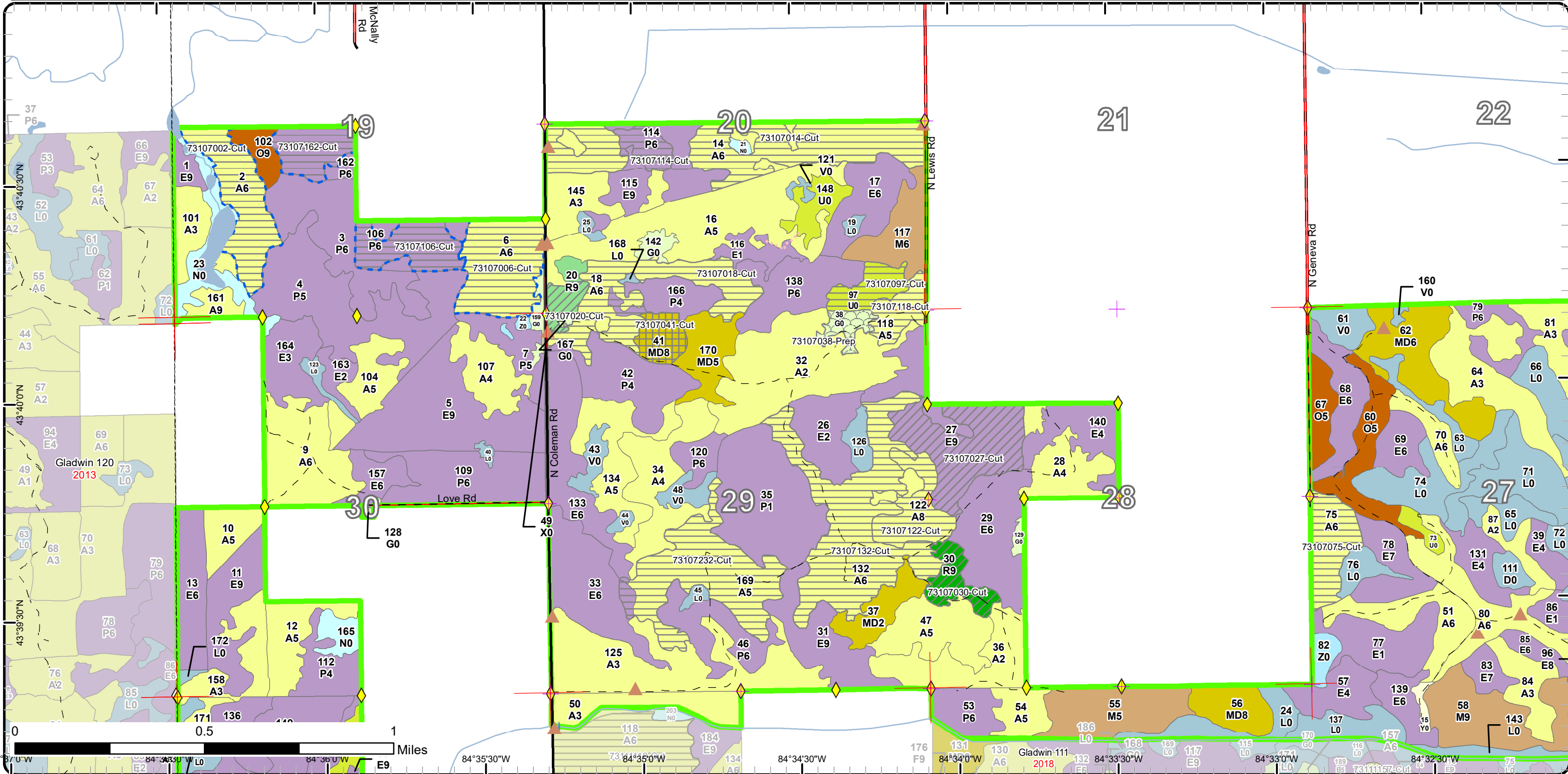
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

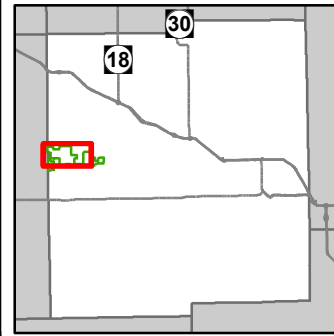


Compartment: 107
 T15N - R02W Sec. 19,20,26-31
 County: Midland
 Unit: Gladwin
 Mgmt Area: Midland-Isabella
 YOE: 2019
 Acres: 2844.3 GIS Calculated
 Examiner: Scott Shooltz
 Map Revised: 8/14/2017
 Map Phase: Post-Review

- | | | |
|--|---|---|
| <ul style="list-style-type: none"> — Miris Corners + Remonumented Section Corners ◆ Survey Grade GPS Corners ◇ Field Grade GPS Corners - - Counties ▲ Berms — Culvert — Paved Roads — County Gravel Roads — County Poor Dirt Roads - - Poor Dirt Roads — Closed — Streams — Lakes and Rivers All | <ul style="list-style-type: none"> — Compartment Boundary — Treatments with Site Conditions — Site Prep — Clearcut (w/Reserves) — Thinning (Crown, Low, Systematic) — Seed Tree (w/Reserves) — 411 - Northern Hardwood — 412 - Oak Types — 413 - Aspen — 419 - Mixed Upland Deciduous — 421 - Planted Pines — 422 - Natural Pines — 611 - Lowland Deciduous Forest — 122 - Roads/Parking Lot — 310 - Herbaceous Openland | <ul style="list-style-type: none"> 330 - Low Density Trees 500 - Water 622 - Lowland Shrub 623 - Emergent Wetland 710 - Sand/Soil Lakes |
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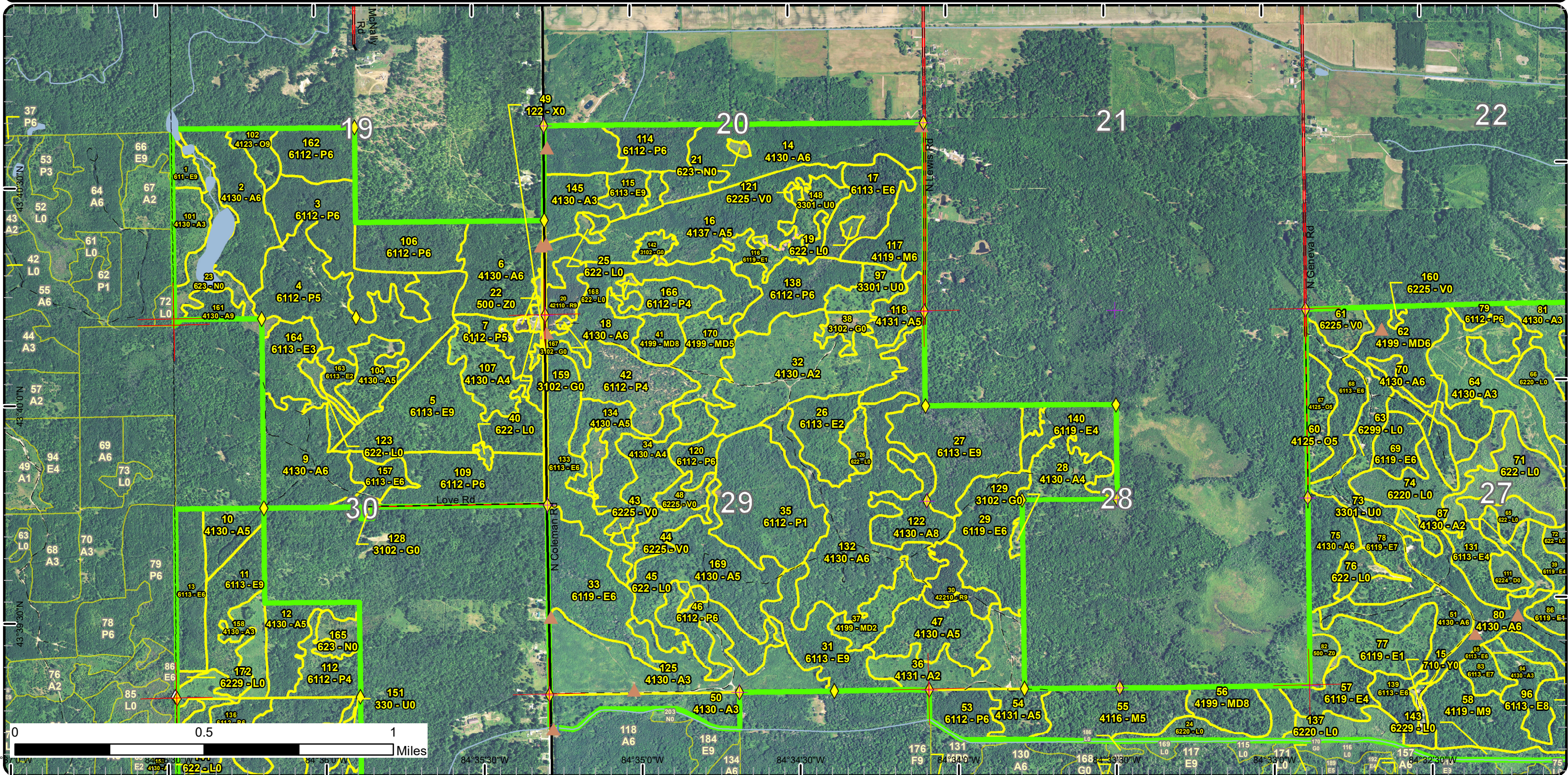
Stand Boundary Map



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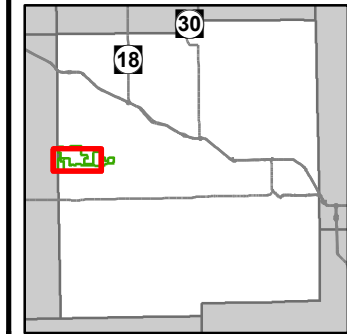


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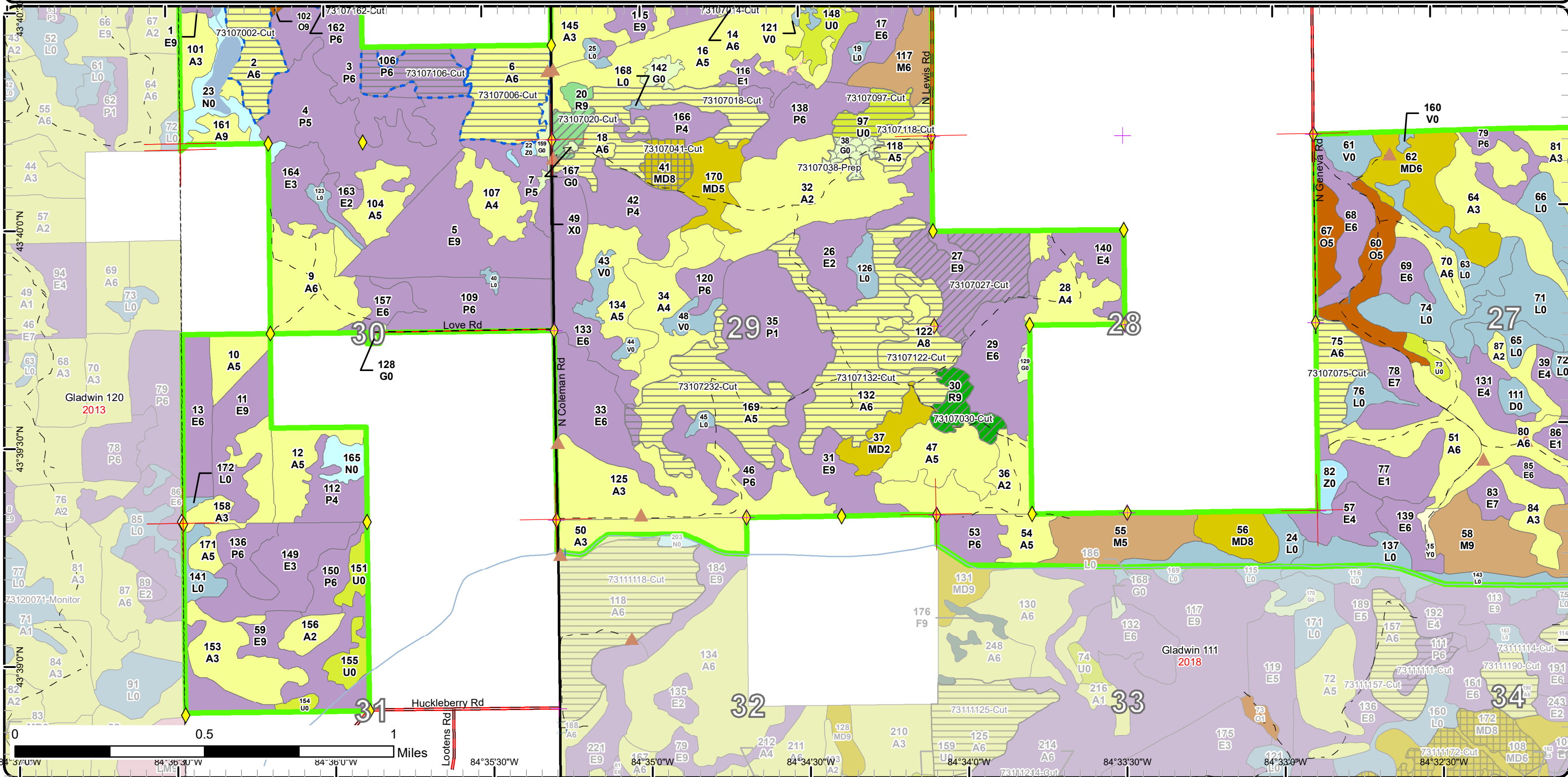
84° 37' 0" W 84° 36' 0" W 84° 35' 30" W 84° 35' 0" W 84° 34' 30" W 84° 34' 0" W 84° 33' 30" W 84° 33' 0" W

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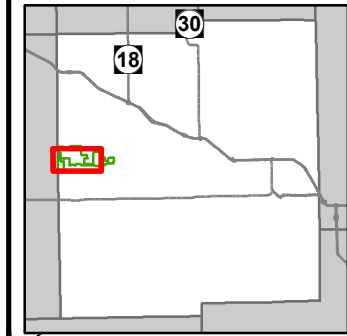


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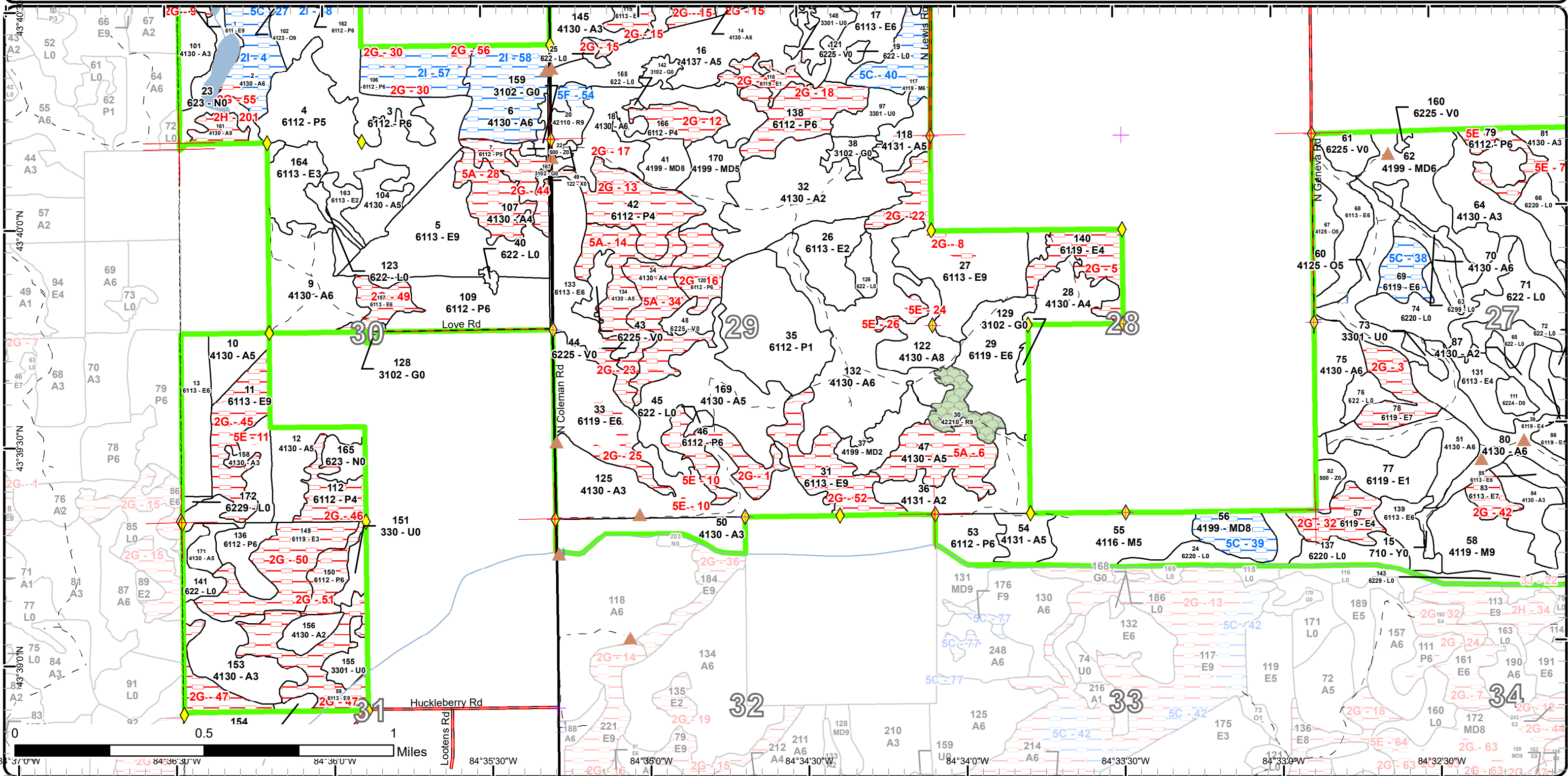


Special Conservation Areas & Site Conditions Map

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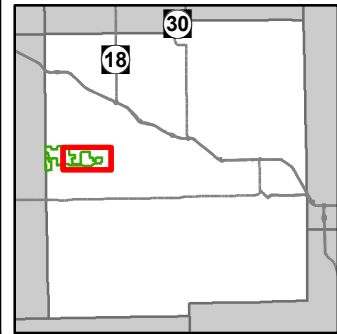


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- SCA Removal
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Recreational/Scenic Value Area

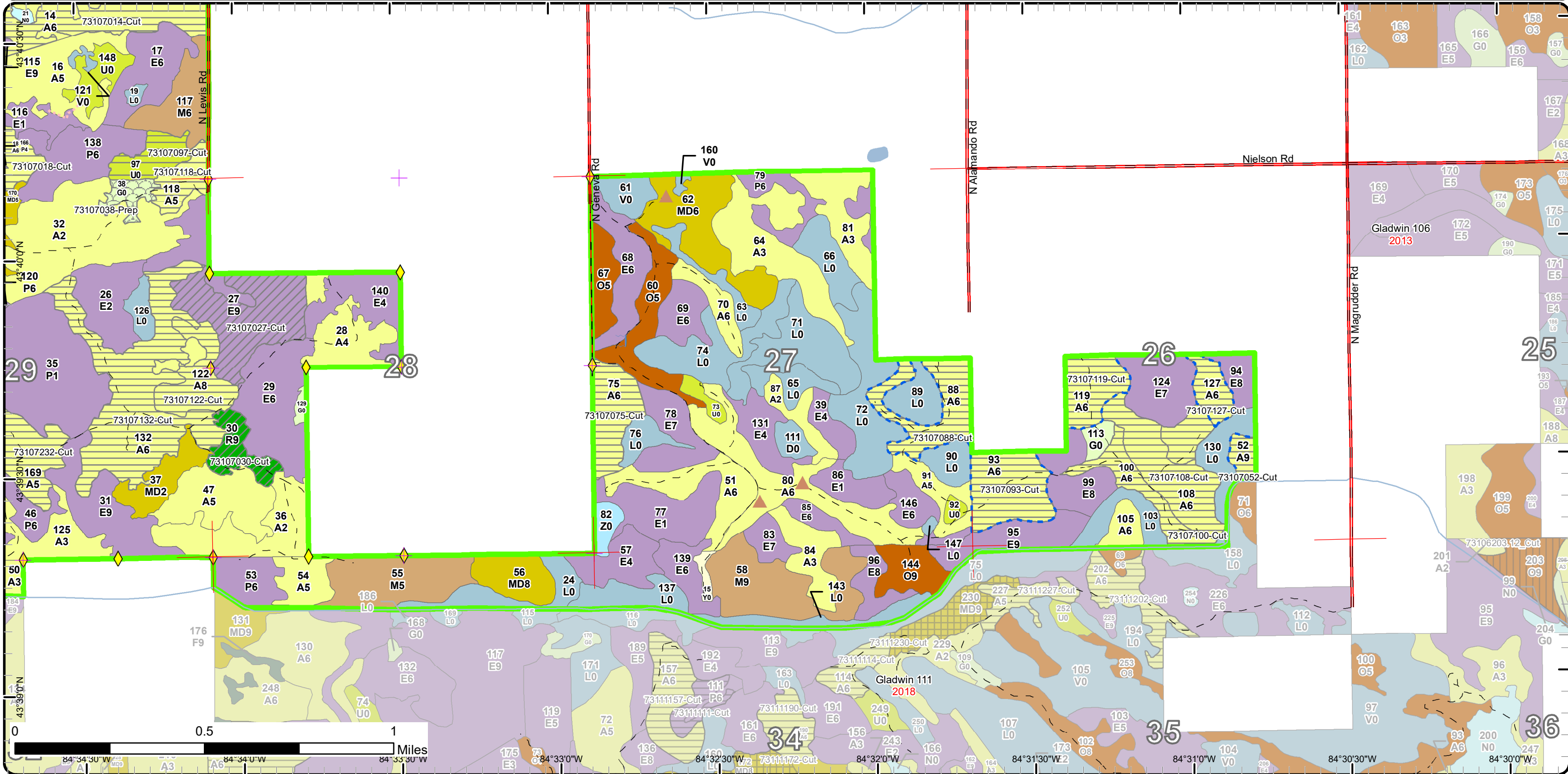


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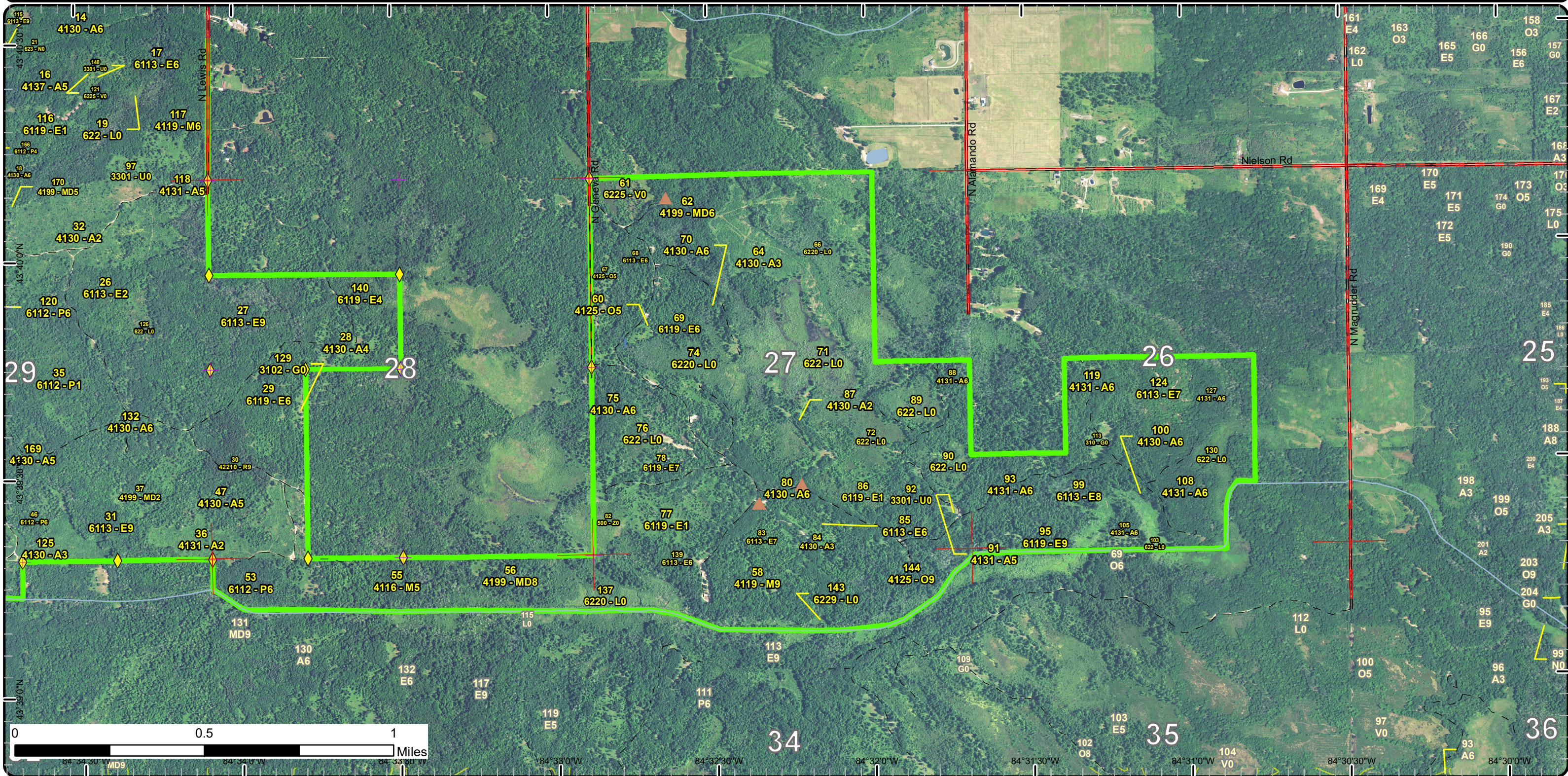
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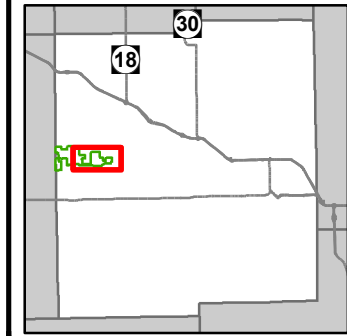
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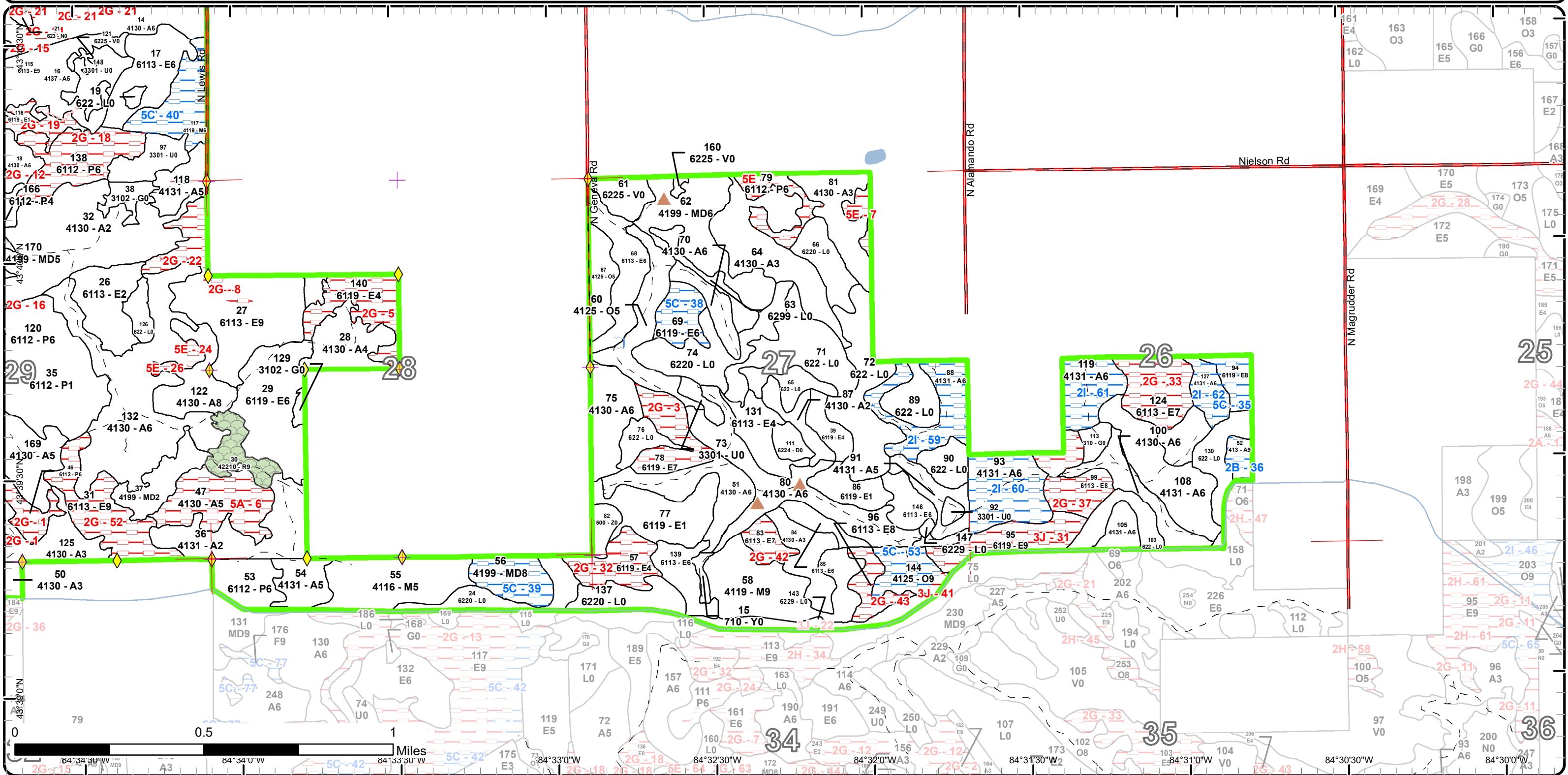


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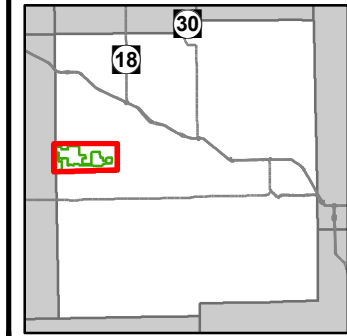


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- - - 3J: Water quality / BMPs (stream, river, or lake)
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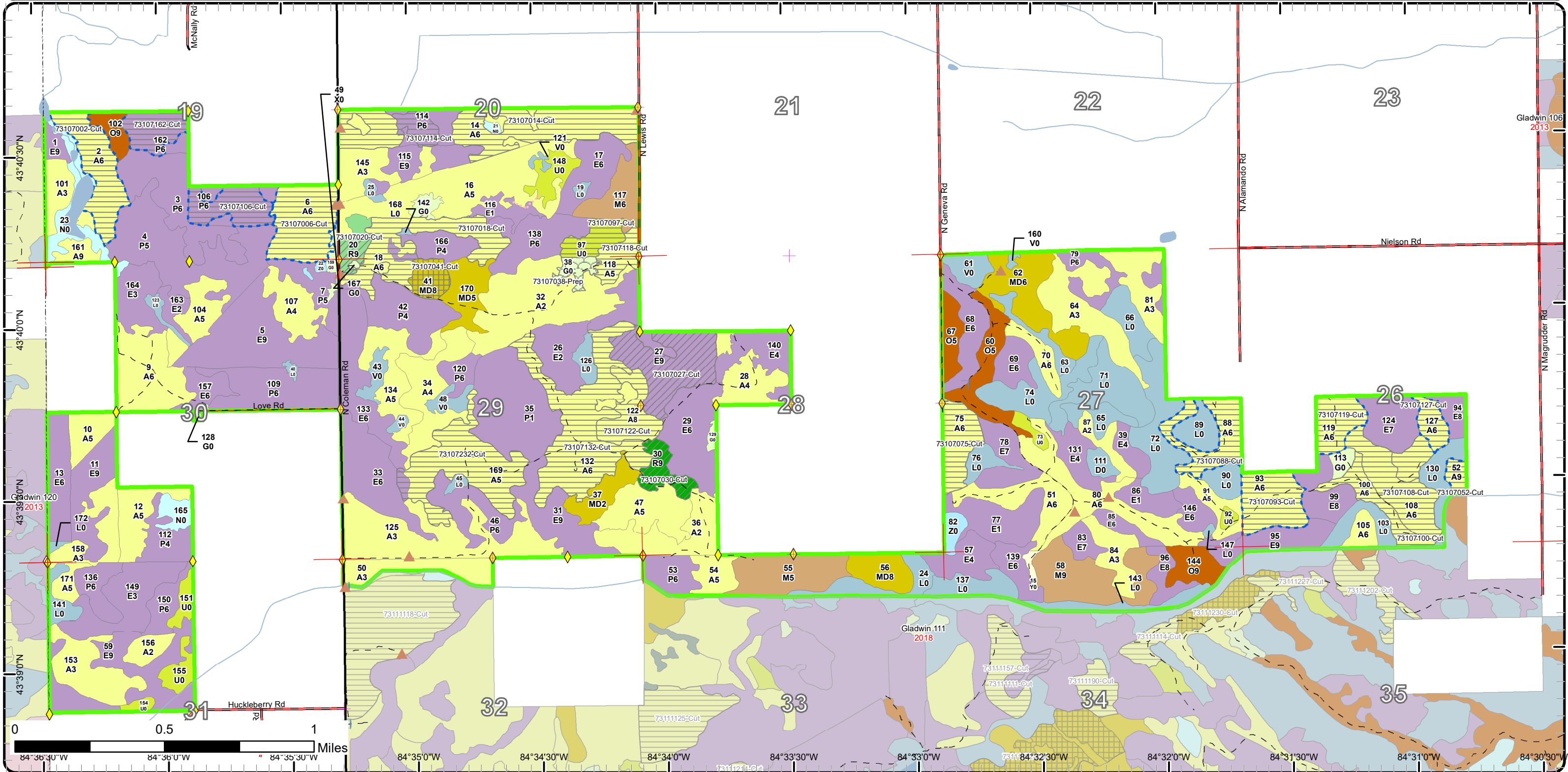


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| | ■ 310 - Herbaceous Openland | |



Report 1 – Total Acres by Cover Type and Age Class

Gladwin Mgt. Unit

Compartment 107 Year of Entry 2019

Scott Shooltz : 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	233	64	159	316	338	0	19	0	0	11	0	0	0	0	0	0	0	1140
Bog	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Herbaceous Openland	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Low-Density Trees	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Lowland Aspen/Balsam Poplar	0	0	0	187	108	118	0	0	0	0	0	0	0	0	0	0	0	0	413
Lowland Deciduous	0	0	0	148	109	76	15	95	70	179	0	0	0	0	0	0	0	0	692
Lowland Shrub	221	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	221
Marsh	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Mixed Upland Deciduous	0	0	14	0	0	32	17	0	0	10	15	0	0	0	0	0	0	0	88
Northern Hardwood	0	0	0	0	0	0	0	19	36	0	30	0	0	0	0	0	0	0	85
Oak	0	0	0	32	0	0	0	0	0	13	8	0	0	0	0	0	0	0	53
Red Pine	0	0	0	0	0	9	0	11	0	0	0	0	0	0	0	0	0	0	20
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Treed Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	354	233	78	526	533	573	32	144	106	202	64	0	0	0	0	0	0	0	2845



Report 2 – Treatment Summary

Gladwin Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 107

Total Compartment Acres: 2,844

Commercial Harvest - 393
 Harvests with Site Condition - 174
 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	448	0	0	0	0	0	0	0	0	448
Low-Density Trees	11	0	0	0	0	0	0	0	0	11
Lowland Aspen/Balsam Poplar	42	0	0	0	0	0	0	0	0	42
Lowland Deciduous	0	0	0	0	0	39	0	0	0	39
Mixed Upland Deciduous	0	0	0	10	0	0	0	0	0	10
Red Pine	0	0	0	0	0	17	0	0	0	17
Total	501	0	0	10	0	56	0	0	0	566

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	566	6	0	0	0	0	0	0	0	572
Next Step	0	43	27	0	0	21	543	0	0	635
Total	566	49	27	0	0	21	543	0	0	1207



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
2	73107002-Cut	29.3	4130 - Aspen	Poletimber Well	38	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition: Survey Needed

Prescription Clear cut 2" and up leaving standard island retention. Leave all white oak and mark one red oak per two acres for mast. Apply grouse habitat specifications.

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

Acceptable A medium stocking of aspen mixed with oak and maple.
Regen:

Other Dry or frozen harvest only because of difficult access. Survey required to run north line.
Comment:

Proposed Start Date: 10/01/2018

6	73107006-Cut	33.2	4130 - Aspen	Poletimber Well	38	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition: Survey Needed

Prescription Clear cut 2" and up marking to leave approximately one oak per two acres for mast. Apply standard island retention and grouse habitat specifications.

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

Acceptable Medium stocking of aspen, maple and oak.
Regen:

Other Stand is bisected by a forested drain. New road will have to be built through this stand to access timber to the west as the current roads are impassible. Survey needed to run north line.
Comment:

Proposed Start Date: 10/01/2018

14	73107014-Cut	57.5	4130 - Aspen	Poletimber Well	38	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Clear cut 2" and up. Standard island retention. Apply grouse habitat specifications. Dry or frozen harvest only.
Specs:

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

Acceptable Medium stocked aspen mixed with maple and oak.
Regen:

Other Many wet drainages bisect the stand. Skid routes will need to be buffered.
Comment:

Proposed Start Date: 10/01/2018

18	73107018-Cut	37.5	4130 - Aspen	Poletimber Well	38	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Clear cut 2" and up leaving standard island retention. Apply grouse habitat specifications. Dry or frozen harvest only.
Specs:

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

Acceptable Medium stocked aspen mixed with maple, oak, and birch.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
20	73107020-Cut	6.2	42110 - Planted Red Pine	Sawtimber Well	42	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Individual tree mark reducing the average BA to 120.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Third row thinned in 2011/2012.

Comment:

Proposed Start Date: 10/01/2018

27	73107027-Cut	38.5	6113 - Lowland Maple	Sawtimber Well	65	111- 140	Harvest	Crown Thinning	611 - Lowland Deciduous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin stand to 90 BA. Cut all aspen except mark to leave 10 - 15 for den trees.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Remove wet drainage areas from the sale. North line will need to be surveyed.

Comment:

Proposed Start Date: 10/01/2018

30	73107030-Cut	11.2	42210 - Natural Red Pine	Sawtimber Well	64	141- 170	Harvest	Crown Thinning	4221 - Natural Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin stand to 100 BA. Mark to preserve the natural characteristics of the stand. Do not remove any one species from the stand.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other The long term goal for this stand is a large diameter natural red pine stand. This area is not conducive to intensive red pine management.

Comment:

Proposed Start Date: 10/01/2018

38	73107038- Prep	5.8	3102 - Grass	Nonstocked		Unspec ified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Traditional trench this site with stands 97 and 118 after they are harvested. Competition will be minimal.

Specs:

Next Step

Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Planted red pine.

Regen:

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
41	73107041-Cut	9.5	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	84	51-80	Harvest	Seed Tree	4199 - Other Mixed Upland Deciduous	Two-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Remove all aspen. Remove red maple 8 inches and up. Mark 10 BA of good form log sized red maple to leave.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of maple, oak, and aspen meeting minimum stocking levels. Include advanced regeneration.

Regen:

Other Goal of this prescription is to release the advanced understory of oak and maple and salvage the aspen were possible. Dry or frozen harvest only.

Comment:

Proposed Start Date: 10/01/2018

52	73107052-Cut	4.6	413 - Aspen	Sawtimber Well	92	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Unknown Access**

Prescription Clear cut stand 2" and up. No retention due to small stand size. Apply grouse habitat specifications.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A medium stocking of aspen mixed with maple, oak, and birch.

Regen:

Other Access through adjacent landowner is unknown. If unable to commercial harvest stand Wildlife Division will hire a contractor to habitat cut.

Comment:

Proposed Start Date: 10/01/2018

75	73107075-Cut	18.8	4130 - Aspen	Poletimber Well	42	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut 2" and up. Apply standard island retention and grouse habitat specifications.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium stocked aspen.

Regen:

Other Dormant harvest to promote root suckering.

Comment:

Proposed Start Date: 10/01/2018

88	73107088-Cut	22.7	4131 - Aspen, Oak	Poletimber Well	44	51-80	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Survey Needed**

Prescription Clear cut 2" and up. Leave standard island retention. Leave all red pine and mark to leave approximately 10 oak for mast.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A medium stocking of aspen, oak, and maple.

Regen:

Other Access will be dry or frozen dependent. Stand is mostly upland and can be harvested any time. Survey needed to run north and east lines.

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
93	73107093-Cut	24.6	4131 - Aspen, Oak	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition: Survey Needed

Prescription Clear cut 2" and up leaving all white oak. Apply standard island retention and grouse habitat specifications. Mark to leave 2 - 3 groups of good
Specs: formed oak consisting of 3 - 5 trees for future mast production.

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

Acceptable Any mix of aspen, oak, or maple meeting minimum stocking levels, should regen. to aspen.
Regen:

Other Dry or frozen harvest. Survey needed to run north line. Historic cut line runs along an old fence line.
Comment:

Proposed Start Date: 10/01/2018

97	73107097-Cut	10.8	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Clear cut site to prepare for planting. Minimal trees currently on this site.
Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping;
Treatments: Pesticide, Skidder/Mechanical

Acceptable Planted red pine.
Regen:

Other The east side of this stand has pit mound topography. The west side is a flat sand ridge.
Comment:

Proposed Start Date: 10/01/2018

100	73107100-Cut	22.3	4130 - Aspen	Poletimber Well	30	Immatur re	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Clear cut 2" and up leaving standard island retention. Dormant season harvest to promote aspen root suckering.
Specs:

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

Acceptable A full to medium stocking of aspen.
Regen:

Other Early aspen harvest to increase contiguous cut size for browse relief and to help balance the aspen age class distribution in the MA.
Comment:

Proposed Start Date: 10/01/2018

106	73107106-Cut	19.1	6112 - Lowland Aspen	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition: Survey Needed

Prescription Clear cut 2" and up apply standard island retention around wet areas. Apply grouse habitat specifications.
Specs:

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

Acceptable Medium stocked aspen with mixed deciduous.
Regen:

Other Dry or frozen harvest only. Portions of this stand are too wet and may significantly change the acreage. Survey needed to run north line.
Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
108	73107108-Cut	28.0	4131 - Aspen, Oak	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clear cut 2" and up leaving approximately one oak per two acres for mast. Apply standard island retention and grouse habitat specifications.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A medium stocking of aspen mixed with oak and maple.

Regen:

Other Dry or frozen harvest only.

Comment:

Proposed Start Date: 10/01/2018

114	73107114-Cut	7.5	6112 - Lowland Aspen	Poletimber Well	38	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut 2" and up apply standard area retention in areas of the stand which are too wet to cut. Apply grouse habitat specifications. Dry or frozen

Specs: harvest only.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Medium stocked aspen.

Regen:

Other North, west, and east portions of the stand are very wet. These areas may not be harvestable.

Comment:

Proposed Start Date: 04/13/2017

118	73107118-Cut	10.6	4131 - Aspen, Oak	Poletimber Medium	38	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut stand 2" and up. Dry or frozen harvest.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr);

Treatments: Pesticide, Skidder/Mechanical

Acceptable Planted red pine.

Regen:

Other Site conversion from aspen to planted pine. Competition control should be minimal.

Comment:

Proposed Start Date: 10/01/2018

119	73107119-Cut	16.0	4131 - Aspen, Oak	Poletimber Well	44	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Survey Needed**

Prescription Clear cut 2" and up. Apply standard area retention and grouse habitat specifications.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A medium stocking of aspen mixed with oak and maple.

Regen:

Other Survey needed to run west and north lines.

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
122	73107122-Cut	17.9	4130 - Aspen	Sawtimber Medium	65	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clear cut 2" and up. Apply standard island retention and grouse habitat specifications.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of aspen, maple and oak meeting medium stocking.

Regen:

Other Harvest during dormancy to promote root suckering.

Comment:

Proposed Start Date: 10/01/2018

127	73107127-Cut	8.6	4131 - Aspen, Oak	Poletimber Well	44	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Survey Needed**

Prescription Clear cut 2" and up. Apply grouse habitat specifications.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A medium stocking of aspen mixed with oak and maple.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

132	73107132-Cut	67.4	4130 - Aspen	Poletimber Well	47	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut 2" and up leaving all oak and pine. Apply standard island retention and grouse habitat specifications.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A medium stocking of aspen mixed with oak, maple, and pine.

Regen:

Other Harvest during dormancy to promote root suckering.

Comment:

Proposed Start Date: 10/01/2018

162	73107162-Cut	15.4	6112 - Lowland Aspen	Poletimber Well	38	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Survey Needed**

Prescription Clear cut 2" and up leaving standard island retention and apply grouse habitat specifications. Dry or frozen harvest only.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A medium stocking of aspen with mixed maple, birch, and oak.

Regen:

Other Survey needed. Areas of this stand are too wet. Locate landing in stand 102.

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
169	73107232-Cut	48.9	4130 - Aspen	Poletimber Medium	47	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Clear cut 2" and up. Utilize standard island retention. Apply grouse habitat specifications. Harvest stand during dormancy to improve root suckering.
Specs:

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

Acceptable Poorly stocked aspen.
Regen:

Other Road work will be required to harvest this stand unless all operations are performed during dry or summer conditions.
Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 571.9**

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Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions									
		With Condition	Not Available		2B	2I	5C	5F	2G	2H	3J	5A	5E	
1140	869	139	133	Aspen	5	134			8	6		97	22	
24	24	0	0	Bog										
20	20	0	0	Herbaceous Openland										
42	42	0	0	Low-Density Trees										
413	218	35	161	Lowland Aspen/Balsam Poplar		35		146					15	
692	363	19	310	Lowland Deciduous			19	291		19			0	
220	220	0	0	Lowland Shrub										
29	29	0	0	Marsh										
87	72	15	0	Mixed Upland Deciduous			15							
86	67	19	0	Northern Hardwood			19							
53	32	19	2	Oak			19				2			
20	17	3	0	Red Pine				3						
2	2	0	0	Sand, Soil										
5	5	0	0	Treed Bog										
5	5	0	0	Urban										
6	6	0	0	Water										
2,844	1,991	248	605	Total Forested Acres	5	169	72	3	445	6	20	97	36	
	70%	9%	21%	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:							

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2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2I: Survey needed	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5A: Not able to obtain desirable regeneration	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-term retention for pre-harvest stand 332 as described in timber sale 73-007-09-01, Carroll Creek.							
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-term retention for pre-harvest stand 111 as documented in timber sale 73-007-09-01, Carroll Creek.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	28	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							

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14	Unavailable	5A: Not able to obtain desirable regeneration	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 132.							

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25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 122.							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	5A: Not able to obtain desirable regeneration	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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31	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Carrol Creek buffer to discourage beaver activity.							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	5A: Not able to obtain desirable regeneration	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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37	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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43	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
47	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
48	Available	2I: Survey needed	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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49	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
50	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
52	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
53	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
54	Available	5F: Evaluated for Forest Health Considerations	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Maintain dense stocking to over come weevil damage.							

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55	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
56	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
57	Available	2I: Survey needed	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
58	Available	2I: Survey needed	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
59	Available	2I: Survey needed	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
60	Available	2I: Survey needed	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
61	Available	2I: Survey needed	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gladwin Mgt. Unit
Scott Shooltz : Examiner

Compartment: 107
Year of Entry: 2019

62	Available	2I: Survey needed	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
201	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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	Visual Management Area	Recreational/Scenic Value Area	SCA Removal	11

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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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	611 - Lowland Deciduous Forest	Sawtimber Well	4.8	65	51-80	This stand is N portion of old stand 1. Not cut in '05 (BLM 3 sale #003-99001) b/c too wet. Logger pulled out of sale and was reimbursed for stand. '05 (post sale) comments: CLEARCUT TO 4" DBH. WATCH WET AREAS ON EAST EDGE. Parts of stand clearcut 2005. Much of the stand was too wet to cut.
2	4130 - Aspen	Poletimber Well	31.2	38	111-140	Harvested in November of 1979 under contract number 30-77A which was a 322 acre clear cut. The north end of this stand is on a high quality site with true red oak present. Site productivity decreases as you move southward. A lot of road work will be required to reach this stand.
3	6112 - Lowland Aspen	Poletimber Well	37.8	27	Immature	Harvested under contract # 73-028-89-01, Coleman Road Grand. Clear cut 2" and up. Low aspen stand with scattered high knolls. Most of the stand is operable how ever Some areas are to wet.
4	6112 - Lowland Aspen	Poletimber Medium	59.3	26	Immature	Harvested under contract # 73-028-89-01, Coleman Road Grand. Clear cut 2" and up. Variable stand w/ denser aspen pockets in places, willows and TA, B, RM, Ash, some B Oak. Ridge where rd runs is higher w/ brack fern. Dense nannyberry in places.
5	6113 - Lowland Maple	Sawtimber Well	54.3	75	51-80	OPIC - FMD: Highly variable stand. Some high A8/9 ridges in N central and S centr that cd b final harv (about 10 ac). Leave this to balance age class diversity (only 43 ac aspen in comp over 40 yrs old. Comp is 80% aspen. ZERO ac upland hardwoods). Few small marshy areas. Large w oak component. BA TOO LOW FOR SELECTION OR SPP REMOVL, and wd damage advandc regen.
6	4130 - Aspen	Poletimber Well	33.2	38	1-50	Fairly dry stand, but hummocky and low E drainages in spots. Abandoned pipeline access off Coleman road needs to be re-bermed (put berm about 60 feet back from road where trees are dense). Harvested in November of 1979 under contract number 30-77A which was a 322 acre clear cut.
7	6112 - Lowland Aspen	Poletimber Medium	13.3	44	51-80	OPIC - FMD: Stand 107 broken off from old OI st 7. This is remainder of old st 7. Habitat cut under FTP W8-378 February 1973.
9	4130 - Aspen	Poletimber Well	36.4	38	51-80	Bisected by a few broad drainages that are E4/3's. 2/3 of old stand to E and N split off b/c wetter. Harvested in November of 1979 under contract number 30-77A which was a 322 acre clear cut.
10	4130 - Aspen	Poletimber Medium	11.8	26	Immature	Harvested under contract # 73-028-89-01, Coleman Road Grand. Clear cut 2" and up. 1-2 ac clearing N edge of st. Some small lower areas w/ more B, moss, willow.
11	6113 - Lowland Maple	Sawtimber Well	24.5	84	51-80	Final harvest 2-3 ac of A8 @ N end along w/ stand 111. Area in NE corner not that wet and could be harvested, but would damage good advanced regen. Moss ground cover in some areas.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
12	4130 - Aspen	Poletimber Medium	18.3	26	Immature	Harvested under contract # 73-028-89-01, Coleman Road Grand. Clear cut 2" and up. Upland w/ rd access. Bigtooth and Q aspen. With little r maple and B. Heavy brk frn. Parts of this stand are converting to an E-type because of beaver activity. E 1/2 broken off b/c reverted to E and L after harvest. Now these portions are st 112 and 165.
13	6113 - Lowland Maple	Poletimber Well	21.2	38	51-80	OPIC - FMD: Only 1/3 to 1/2 of stand is upland.
14	4130 - Aspen	Poletimber Well	62.6	38	1-50	Upland stand with mixed lowland pockets and drainages. Harvested in November of 1979 under contract number 30-77A which was a 322 acre clear cut. The residual was manually cut in November of 1980 under FTP W73-59.
16	4137 - Aspen, Birch	Poletimber Medium	58.7	27	Immature	Harvested under contract # 73-028-89-01, Coleman Road Grand. Clear cut 2" and up. Variable stand, fairly wet (3 for hydro, 1j0 driest). 45% aspen, rest red map, B, small amt of O. Small areas of moss w/ ash seedlings. Heavy nannyberry in places, bracken fern in high areas. Aspen didn't come back well
17	6113 - Lowland Maple	Poletimber Well	20.9	65	81-110	This stand is true E type (3 for hydro: 10 driest). Completely dry now (July 30) but this is extremely dry summer. East and central parts of this stand are too wet to harvest. Grnd cover G, nannyberry (L), sens frn, other fern.
18	4130 - Aspen	Poletimber Well	36.5	38	51-80	Scattered higher areas w/ bracken fern (10%). Scattered low areas w/ tag alder and nannyberry (5-10%). Overall this stand is upland. Harvested in November of 1979 under contract number 30-77A which was a 322 acre clear cut. The residual was manually cut in November of 1980 under FTP W73-59.
20	42110 - Planted Red Pine	Sawtimber Well	8.8	42	171-200	The stand was Third Row Thinned in the winter of 2011/2012. The sale was Carrol Creek, sale # 73-007-09-01. 3 acre inclusion of white pine at the north end.
26	6113 - Lowland Maple	Sapling Medium	19.6	27	Immature	Harvested under contract # 73-028-89-01, Coleman Road Grand. Clear cut 2" and up. POOR REGENERATION ('97). N 1/2 much more heavily forested, w/ more nannyberry. S 1/2 has heavy V understory.
27	6113 - Lowland Maple	Sawtimber Well	52.1	65	111-140	
28	4130 - Aspen	Poletimber Poor	20.0	24	Immature	Harvested under contract number 73-028-89-01, Coleman Road Grand. Clear cut 2" and up. Part of old st 28 that didn't regen. Plant RP, WP or JP in order of priority. Scattered aspen clumps. GC bracken. Chapter 7 (7/16/2013) by district TMS. "Have tried for 5 yrs to trench with no success, stands are either to wet or access is to wet. At this point stand will be left to function as semi open lands" FTP C73-844 canceled by TMS and UM (7/16/2013).
29	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	33.1	27	Immature	Harvested under contract # 73-028-89-01, Coleman Road Grand. Clear cut 2" and up. Aspen didn't come back (~5% of tree cover is A). 1) rm and 2) bo. GC dogwd, vac, nannyberry, bracken, royal fern.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	42210 - Natural Red Pine	Sawtimber Well	11.2	64	141-170	NATURAL STAND with wide Variation in DBH, density. The stand was surveyed for possible Old Growth. The average DBH ranged from 10 to 15 and the mean DBH was 12. The age of sampled trees ranged from 51-75 and averaged 63. There are scattered legacy trees but as for old growth the stand does not meet criteria.
31	6113 - Lowland Maple	Sawtimber Well	26.3	84	111-140	OPIC - FMD: Aspen is decadent. Good volume for selection harvest, but too wet (lot of stand has no ground veg due to flooding). Currently completely dry, but summer has been unusually dry.
32	4130 - Aspen	Sapling Medium	58.4	5	Immature	When the stand was harvested all oak were left and some pockets of lower wet type were marked for retention. The ground cover is heavy to bracken fern and wintergreen. The stand was harvested in the winter of 2011/2012. It was an 2" spec final harvest retaining all oak which was about 3 BA. The sale was Carrol Creek, 73-007-09-01. Comments 2016: The stand is mainly aspen. There are some oak and maple in the stand. The oak <4" were left The aspen is mainly quaking but there are some big tooth. The terrain is hummocky and there are areas of very wet ground. The wettest areas are the places of lowest regeneration.
33	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	35.3	47	81-110	Two-aged stand due to a very sporadic 4" clear cut. The aspen, maple, and oak are all two-aged. Only the swamp white oak is the true remnant from the parent stand. Center of the stand is wetter than the edges.
34	4130 - Aspen	Poletimber Poor	29.4	47	1-50	15 BA of very poor quality aspen. May eventually fill in to be E. At this point unable to regenerate.
35	6112 - Lowland Aspen	Sapling Poor	50.4	27	Immature	Harvested under contract # 73-028-89-01, Coleman Road Grand. Clear cut 2" and up. Sparse stand w/ large pockets of dogwd, lthleaf, vac. 20-30% of trees are black oak.
36	4131 - Aspen, Oak	Sapling Medium	27.9	5	Immature	The stand was a 2" spec final harvest with retention. The retention consisted of some excluded area and 46 green marked trees. The sale was Carrol Creek, sale # 73-007-09-01. Comments 2016: The stand has regenerated well. There is significantly more oak in the regen The aspen is mix but heavy to quaking. The terrain is hummocky with a ridge along the east side. The oak regeneration is heaviest in the SE corner of the stand.
37	4199 - Other Mixed Upland Deciduous	Sapling Medium	13.7	18	Immature	OPIC - FMD: Clearcut to 4" dbh in September 1999. TS# 003-00-01. Lot of deer browse, especially in dryer area to S. Stand is around 58 % crown closure. Stand is staying just ahead of deer. RM, BO, Pin O, B, tr of WP and black tupelo (there is scattered black tupelo through a lot of compartment).
39	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	7.1	21	Immature	OPIC - FMD: Stand is a mix of red maple with some trembling aspen and ash. The stand has a lot of ponding water. Harvested in November of 1996 under contract # 73-021-95-01, Geneva Rd Aspen.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	9.5	84	51-80	Upland site with occasional shallow depressions and hummocky in areas. Becomes wetter at north end but still operable. Oak/maple understory with older aspen/maple overstory.
42	6112 - Lowland Aspen	Poletimber Poor	28.3	47	1-50	Blueberry bog w/ old, decadent very low SI aspen. Too wet and not productive enough to cut. SI estimated. Scattered O and B saps and a pocket of jack pine. Let become E type.
46	6112 - Lowland Aspen	Poletimber Well	19.7	47	51-80	OPIC - FMD: YOO 1970. SI/Age taken from old st 32, which stand was broken out of. Wetter, less dense than st 332. Wetter and much poorer site than 232. Somewhat marginal st. GC dogw, nannyberry, brack, vac. May want to factor limit next YOE-may not come back if harvested. Or let become E type and do uneven aged mgt in future.
47	4130 - Aspen	Poletimber Medium	25.4	47	51-80	Off site, poor quality aspen. Broken out of St 32. GC dense nannyberry in western 1/3, Michigan holly in Eastern 2/3. Variable st w/ scattered brack fern pockets, lowest areas (20% of area) moss.
50	4130 - Aspen	Sapling Well	20.0	5	Immature	The stand was harvest retain oak less than 4" and some marked larger oak. The stand was harvested in the winter of 2011/2012.
51	4130 - Aspen	Poletimber Well	20.9	30	Immature	Stand is an A6 that is a mix of aspen, red maple, and oak. Scattered log sized red maple and oak through out. This stand was harvested in 1987 before it was owned by the state. Harvested at the same time as Benson's Edge.
52	413 - Aspen	Sawtimber Well	4.6	92	81-110	Did not inventory stand this YOE. Stand may be habitat cut by wildlife.
53	6112 - Lowland Aspen	Poletimber Well	13.5	26	Immature	Good aspen. Increased SI from 58 based on observation of stand. Mostly upland but varies from low ridge to flat. Lot of oak and red map in understory. Ground cov bracken, in some places forbs. '98 comments: TS#28-89-1. Patchy regeneration. CUT WITH COMP 107 SALES TO THE NORTH
54	4131 - Aspen, Oak	Poletimber Medium	11.1	24	Immature	Diverse stand of A5 (30%), drainages with aspen and tag alder (5%), Shallow depressions with sparse red maple, oak, aspen with winterberry and moss ground cover (20%), and bracken fern openings with scattered trees (25%). '98 comments: TS#28-89-1. Lots of maple stump sprouts. Some oak. Best regeneration in northwest portion of stand.
55	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	30.4	99	51-80	The stand was harvested by removing the aspen. This treatment made the harvest effectively a shelterwood. '98 comments: Aspen converted to lowland hardwoods. Wet site, hummocky ground. the stand was cut in the winter of 2011/2012. The sale was Carrol Creek, Sale # 73-007-09-01. Comments 2016: The stand had the aspen removed The under story is heavy to aspen with some white pine and maple. The crown closure is closer to 50 %. The terrain is hummocky and is a mix of uplands and lowlands.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
56	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	14.6	99	1-50	Upland open areas transitioning to flooded areas along drain. N in places. Year of origin and Site index estimated. Very mixed stand, oak overall. Aspen has been falling out of the stand for years.
57	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	15.6	80	1-50	East half was harvested 45 in 1972 but failed to regenerate. The west half is comprised of inaccessible oak ridges surrounded by lowland brush. Overall the stand just barely makes 25% closure.
58	4119 - Mixed Northern Hardwoods	Sawtimber Well	36.2	75	81-110	
59	6113 - Lowland Maple	Sawtimber Well	38.9	84	51-80	Wet drainage area. Southern most 4 acres is 9 manageable P-type.
60	4125 - Black, N. Pin Oak	Poletimber Medium	20.8	21	Immature	Harvested in November of 1996 under contract # 73-021-95-01, Geneva Rd Aspen. Stand was clear cut 2" and up. Stand was harvested but it did not regenerate in to an aspen stand. Currently the stand is mainly oak with some areas of aspen. Last YOE SI was use because of the age of the trees.
62	4199 - Other Mixed Upland Deciduous	Poletimber Well	31.9	44	51-80	Stand is bisected by a forested drain. Timber on the west side is higher quality than the east. The stand was marked to be harvested but was not. Stand was pushed over by a D-7 in June of 1972 under FTP W8-310.
64	4130 - Aspen	Sapling Well	33.4	5	Immature	OPIC - FMD: This stand was identified in 2009 to be place on the 2010 POW. The retention in the stand should be concentrated along the low land areas but should not exceed 5%. Stand was clear cut in the winter of 2011/2012 under contract number 73-024-10-01, Huckleberry Aspen.
67	4125 - Black, N. Pin Oak	Poletimber Medium	11.2	21	Immature	Harvested in November of 1996 under contract # 73-021-95-01, Geneva Rd Aspen. Stand was clear cut 2" and up. The stand has not regenerated well to aspen. It is more of a mix of oak and aspen with the oak being the dominate species. The SI from last YOE was use because of the age of the trees.
68	6113 - Lowland Maple	Poletimber Well	19.0	30	Immature	Harvested under contract # 73-050-85-01, Benson's Edges in 1987. Harvested 4" and up. Stand is an E6 that is a mix of aspen, red maple, and oak. There is also L opening scattered through out the stand along with log sized red maple and swamp white oak.
69	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	11.3	80	81-110	Harvested under contract # 73-050-85-01, Benson's Edges in 1987. Removed all aspen and birch. Lowland hard woods with good understory hardwoods released by harvest. No aspen regenerated. Three ages measured, 80, 60 and 30.
70	4130 - Aspen	Poletimber Well	8.9	30	Immature	Harvested under contract # 73-050-85-01, Benson's Edges in 1987. Harvested 4" and up. Stand is a light A3. The stand is thick on the north end of the stand and get progressively thinner to the south end.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
75	4130 - Aspen	Poletimber Well	18.8	42	51-80	Upland aspen knolls separated by lowland aspen/lowland shrub types.
77	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	23.5	21	Immature	Harvested in November of 1996 under contract # 73-021-95-01, Geneva Rd Aspen. Stand was clear cut 2" and up. Stand was harvested and has regenerated a mix of thick aspen area and open G-Types
78	6119 - Mixed Lowland Deciduous Forest	Sawtimber Poor	16.9	68	1-50	OPIC - FMD: Stand is low and wet. The stand is overall an A4/V
79	6112 - Lowland Aspen	Poletimber Well	14.7	44	51-80	This stand serves as retention for stands 64 & 81. The retention in the stand should be concentrated along the low land areas but should not exceed 5%. Stand was pushed over by a D-7 in June of 1972 under FTP W8-310.
80	4130 - Aspen	Poletimber Well	36.7	30	Immature	Harvested under contract # 73-050-85-01, Benson's Edge in 1987. Harvested 4" and up. Stand is an A6 with a small amount of red maple and oak mixed in. The SW portion of the stand was harvested in 1987 before it was owned by the state. Harvested at the same time as Benson's Edge.
81	4130 - Aspen	Sapling Well	19.0	5	Immature	OPIC - FMD: This stand was identified in 2009 to be place on the 2010 POW. The retention in the stand should be concentrated along the low land areas but should not exceed 5%. Stand was clear cut in the winter of 2011/2012 under contract number 73-024-10-01, Huckleberry Aspen.
83	6113 - Lowland Maple	Sawtimber Poor	6.9	75	51-80	Lowland stand but harvestable. Was cut in 1972 under private ownership. The residual that was left makes up 30% of the canopy and is featured. Stand will flip to an E6 in the next 10yrs.
84	4130 - Aspen	Sapling Well	14.4	21	Immature	Harvested in November of 1996 under contract # 73-021-95-01, Geneva Rd Aspen. Stand was clear cut 2" and up. OI Stand Year Origin was 1996
85	6113 - Lowland Maple	Poletimber Well	6.3	30	Immature	Harvested under contract # 73-050-85-01, Benson's Edges in 1987. Harvested 4" and up. Stand is a mix of red maple with some trembling aspen and ash. The stand has a lot of ponding water.
86	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	10.0	30	Immature	Harvested under contract # 73-050-85-01, Benson's Edges in 1987. Harvested 4" and up. Stand is a mix of red maple and birch. The stand has a lot of ponding water.
87	4130 - Aspen	Sapling Medium	8.2	21	Immature	Harvested in November of 1996 under contract # 73-021-95-01, Geneva Rd Aspen. Stand was clear cut 2" and up. Stand is overall an A2. The central part of the stand is an A3 while the arm are more of an A1.
88	4131 - Aspen, Oak	Poletimber Well	22.7	44	51-80	Aspen poles with small stand of R. Pine. Oak found throughout. OI Stand Year Origin was 1972. NE corner and east edge are lower and contain most of the maple and oak. Stand was pushed over by a D-7 in June of 1972 under FTP W8-310.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
91	4131 - Aspen, Oak	Poletimber Medium	10.0	30	Immature	OPIC - FMD: This stand is a mix of trembling and bigtooth aspen and oak.
93	4131 - Aspen, Oak	Poletimber Well	24.6	45	81-110	Good aspen on drier locations. E and L types in wetter areas. Old Stand Year Origin was 1972. Pushed over with a D-7 in May of 1972 under FTP W8-308.
94	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	7.7	81	1-50	Western edge of the stand is wet with a lot of brush and some swamp hardwoods, mainly red maple and swamp white oak mixed with dead ash. The eastern edge of the stand appears to be upland with mixed aspen, oak, and maple. Pushed over with a D-7 in May of 1972 under FTP W8-308.
95	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	18.7	84	51-80	Carroll Creek Buffer. Stand goes from upland O 9 in the east to lowland E9 in the west. Maintain stand as buffer.
96	6113 - Lowland Maple	Sawtimber Medium	8.7	75	51-80	Too wet. Drainage area.
99	6113 - Lowland Maple	Sawtimber Medium	16.4	84	51-80	Stand has a possible fence trespass that show up by comparing the areal photo to what is observed on the ground. The stand is very wet and has an intermitten drain running through the center of the stand.
100	4130 - Aspen	Poletimber Well	22.3	30	Immature	Harvested under contract # 73-021-87-01, Carroll Creek Patch in 1987. Clear cut 4" and up. The stand has some good areas of oak regeneration and areas of red maple. But overall the stand is heavy to aspen.
101	4130 - Aspen	Sapling Well	11.5	12	Immature	OPIC - FMD: Cut in '05 (sale 003-99-01). 25% rm. Bigtooth aspen. Soil is Pipestone Sand.
102	4123 - Red Oak	Sawtimber Well	7.9	98	111-140	OPIC - FMD: Several small grass openings at S end of stand. Oak seedlings slowly coming in. Hold until regen is adequate. Could be burned or scarified to encourage repro, but probably not worth it. GC is sedge. Stand runs along ridge w/ road thru it. Canopy 30% RM, no maple seed/saps. SI is estimated. Harvested in November of 1979 under contract number 30-77A which was a 322 acre clear cut.
104	4130 - Aspen	Poletimber Medium	17.1	26	Immature	Harvested under contract # 73-028-89-01, Coleman Road Grand. Clear cut 2" and up. Toward sparse end of A2. Would recommend interplanting JP but aspen would create too much shading. 80-90% upland w/ few shallow areas of flooding w/ vacc and moss.
105	4131 - Aspen, Oak	Poletimber Well	6.6	30	Immature	Harvested under contract # 73-021-87-01, Carroll Creek Patch in 1987. Clear cut 4" and up. Stand is a mix of trembling and bigtooth aspen with red and white oak.
106	6112 - Lowland Aspen	Poletimber Well	24.3	44	81-110	Split off from stand 6. Wetter than stand 6: 3 for hydro (10 driest). Lots of ash seedlings in spots. Harvested in November of 1979 under contract number 30-77A which was a 322 acre clear cut.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
107	4130 - Aspen	Poletimber Poor	17.7	44	1-50	Habitat cut under FTP W8-378 February 1973. Very sparse, low qual/vigor aspen w/ shrub and vacc/moss GC. Broken out from old st 7. Completely dry currently (unusually dry summer). Interplant spruce or JP (in order of priority). Soil is pipestone: low available water capacity, high water table. Soil survey recommends WP planting. Chapter 7 (7/16/2013) by district TMS. "Have tried for 5 yrs to trench with no success, stands are either to wet or access is to wet. At this point stand will be left to function as semi open lands" FTP C73-844 canceled by TMS and UM (7/16/2013).
108	4131 - Aspen, Oak	Poletimber Well	28.0	44	81-110	Pushed over with a D-7 in May of 1972 under FTP W8-308. The stand is a mix of maple, oak, and aspen.
109	6112 - Lowland Aspen	Poletimber Well	35.4	38	51-80	True E type in places w/ small amount of upland A6 in places. Grnd cov Michigan holly, limited brack frn. Harvested in November of 1979 under contract number 30-77A which was a 322 acre clear cut.
112	6112 - Lowland Aspen	Poletimber Poor	14.4	26	Immature	Harvested under contract # 73-028-89-01, Coleman Road Grand. Clear cut 2" and up. Direct seed with JP per pre-review. Broken off from st 12. Cover rushes/sedges, g, dgwd, willow. Small saps coming in: swo, rd map, asp. Barely an E. Really L/N w/ seedlings, but less than 100 per ac. Chapter 7 (7/16/2013) by district TMS. "Have tried for 5 yrs to trench with no success, stands are either to wet or access is to wet. At this point stand will be left to function as semi open lands" FTP C73-844 canceled by TMS and UM (7/16/2013). Stand is converting to an L-type because of beaver activity.
114	6112 - Lowland Aspen	Poletimber Well	15.3	38	81-110	Good site and lot of volume. NE corner is VERY wet and probably not operable. Most of the stand is accessible and operable. Harvested in November of 1979 under contract number 30-77A which was a 322 acre clear cut. The residual was manually cut in November of 1980 under FTP W73-59.
115	6113 - Lowland Maple	Sawtimber Well	15.2	58	81-110	OPIC - FMD: Portion of stand 15 that was not harvested in 1999 due to low ground. YOO '23. Hold b/c BA low, and for age class and forest type diversity.
116	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	7.8	27	Immature	OPIC - FMD: Barely forested. RM, O, small Ash, B, QA coming in. Heavy nannyberry in places. Lot of depressions w/ moss and lthrf.
117	4119 - Mixed Northern Hardwoods	Poletimber Well	19.4	65	111-140	Broken out of old st 17 b/c drier and more operable. 5 or 6 for hydro (10 driest). Borderline E/M, w/ upland A8 at far sw end. Small amt of ash and B in plots. Grnd cover variable between brack fern, forbs, other ferns, leaf litter, grass.
118	4131 - Aspen, Oak	Poletimber Medium	10.6	38	1-50	Harvested in November of 1979 under contract number 30-77A which was a 322 acre clear cut. The residual was manually cut in November of 1980 under FTP W73-59. Center of stand heavily browsed by deer. Margins of stand are A6. Occasional log sized aspen mainly located in the south half of the stand which is older than the north. Small % of sap-sized RM, U in understory.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
119	4131 - Aspen, Oak	Poletimber Well	16.0	44	51-80	Aspen poles with a few large and small oaks. Thin to non-existent understory. ORV trail leads into stand from private land at the NW corner. OI Stand Year Origin was 1972. Pushed over with a D-7 in May of 1972 under FTP W8-308.
120	6112 - Lowland Aspen	Poletimber Well	7.7	47	51-80	Formerly part of stand 34. Denser than stand 34. GC vacc/lthrlf, g, nannyberry, dogwood, bracken. Variable hydrology. Low quality stand. Most of it is too wet.
122	4130 - Aspen	Sawtimber Medium	19.1	65	51-80	Removed from stand 27. A8 stand with red maple understory. Stand is predominantly upland but is lower than the younger aspen on the adjacent ridge to the west.
124	6113 - Lowland Maple	Sawtimber Poor	19.8	81	1-50	Stand is wet with a lot of brush and some swamp hardwoods, mainly red maple, black ash, and green ash. The stand also has some swamp white oak.
125	4130 - Aspen	Sapling Well	57.4	6	Immature	The stand was harvested under contract number 73-007-09-01, Carrol Creek. It was a 2" Spec final harvest with retention. The retention was in 2 small islands totaling 1.2 acres. Comments 2016: The stand has regenerated well. The density is good with very few canopy gaps. There is some maple and oak also in the stand. The terrain is hummocky and there are some very wet areas in the stand. In these areas is were there is canopy gaps.
127	4131 - Aspen, Oak	Poletimber Well	8.6	44	51-80	Pushed over with a D-7 in May of 1972 under FTP W8-308. Stand is on some what of a ridge with some oak in the overstory.
131	6113 - Lowland Maple	Poletimber Poor	12.7	30	Immature	Harvested under contract # 73-050-85-01, Benson's Edges in 1987. Harvested 4" and up. The stand is more of an E2/L. The main species are red maple and ash. The stand has a lot of standing water in it some of it look persistent.
132	4130 - Aspen	Poletimber Well	69.3	47	51-80	A few G clearings (bracken fern) throughout stand. Scattered oak throughout and a small pocket of pine in the center of the stand.
133	6113 - Lowland Maple	Poletimber Well	29.5	47	51-80	Vol too low for selection. Do not fin harvest due to visual, and to keep diversity in area. Dense stand, let more trees reach pole and log size. The trees which are log size now are predominantly trees of poor form which were left during the last harvest.
134	4130 - Aspen	Poletimber Medium	24.9	47	1-50	Low SI, low qual. SI extrapolated from old st 34 (this stand broken out of). Lot of vac/lthrlf in GC also, but not as much as st 34.
136	6112 - Lowland Aspen	Poletimber Well	12.0	26	Immature	TS#55-90-1 Coleman Road West. Cut in October of 1991. Harvested 4" and up and all oak were left. Low, wet areas regenerated very poorly. Moderate regeneration overall.
138	6112 - Lowland Aspen	Poletimber Well	25.0	38	51-80	Harvested in November of 1979 under contract number 30-77A which was a 322 acre clear cut. The residual was manually cut in November of 1980 under FTP W73-59.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
139	6113 - Lowland Maple	Poletimber Well	11.2	45	111-140	The stand is hummocky and the overstory ranges from E5 to A5. The soil is Kingsville loamy fine sand.
140	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	19.7	27	Immature	Harvested under contract # 73-028-89-01, Coleman Road Grand. Clear cut 2" and up. Formerly stand 28. Sparse ash, red maple, oak and DENSE tag alder. GC heavy, tall marsh grass under TA. Very wet. Two acre inclusion of mature lowland hardwood in the NE corner of the stand. This area is site conditioned too-wet and was left out of 1990 harvest.
144	4125 - Black, N. Pin Oak	Sawtimber Well	12.9	84	81-110	Pin oak stand with mixed aspen, maple, and cherry. Eastern 1/3rd of the stand is 30 yr old oak regen. from Benson's Edge harvest. Defined elevation drop off to the south and east. Western boundary is less defined.
145	4130 - Aspen	Sapling Well	18.1	18	Immature	Cut in 99. Harvested under contract # 73-003-99-01, Lewis- Coleman Pipeline. Clear cut 4" and up.
146	6113 - Lowland Maple	Poletimber Well	11.0	30	Immature	Harvested under contract # 73-050-85-01, Benson's Edges in 1987. Harvested 4" and up. Stand is a mix of red maple with some trembling and birch.
149	6119 - Mixed Lowland Deciduous Forest	Sapling Well	31.8	26	Immature	TS#55-90-1 Coleman Road West. Cut in October of 1991. Harvested 4" and up and all oak were left. Low, wet areas regenerated very poorly. Moderate regeneration overall.
150	6112 - Lowland Aspen	Poletimber Well	10.3	44	51-80	Lowland aspen, difficult access and too wet.
153	4130 - Aspen	Sapling Well	26.5	16	Immature	Harvested under contract # 73010-00-01, Chippewa Trio in 2001. Clear cut 2" and up.
156	4130 - Aspen	Sapling Medium	7.5	16	Immature	Harvested under contract # 73010-00-01, Chippewa Trio in 2001. Clear cut 2" and up. Boundary changed: western 4 to 5 ac formerly in stand 3 and is A4/M1. "98 comments: TS#55-90-1. Cut in 1992. Oak was left. Low, wet areas regenerated very poorly. Moderate regeneration overall.
157	6113 - Lowland Maple	Poletimber Well	10.2	38	51-80	Grnd cover leaf litter and marsh grass. True E type broken out from st 9. Harvested in November of 1979 under contract number 30-77A which was a 322 acre clear cut.
158	4130 - Aspen	Sapling Well	17.5	6	Immature	Harvested in September of 2011 under contract number 73-007- 09-01, Carroll Creek. Stand was clear cut 2" and up. One retention island equally 1/2 an acre was left at the north end of the stand.
161	4130 - Aspen	Sawtimber Well	6.1	94	141-170	OPIIC - FMD: Stand in sale 003-99-01. (cut '05) that was not cut b/c too wet. Logger was reimbursed for wood.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
162	6112 - Lowland Aspen	Poletimber Well	18.0	38	81-110	Stand is wettest toward the east and dominated by red maple. The western portion is closer to upland with bigtooth present. Harvested in November of 1979 under contract number 30-77A which was a 322 acre clear cut.
163	6113 - Lowland Maple	Sapling Medium	5.8	26	Immature	Harvested under contract # 73-028-89-01, Coleman Road Grand. Clear cut 2" and up. RM, ash, SW oak, B, Tr of black tupelo. BC nannyberry, willow, ash seedlings, brackn frn
164	6113 - Lowland Maple	Sapling Well	18.2	38	1-50	Split off from st 9 b/c wetter and slightly smaller timber. Mostly red maple saps: lot of stand is 4 for hydro (10 driest). Some ash, aspen, O, B. Harvested in November of 1979 under contract number 30-77A which was a 322 acre clear cut.
166	6112 - Lowland Aspen	Poletimber Poor	13.6	38	1-50	Harvested in November of 1979 under contract number 30-77A which was a 322 acre clear cut. The residual was manually cut in November of 1980 under FTP W73-59. Machine plant J pine or wp in E end of stand, going as far west as operable. Formerly in st 18. Much less dense and lower SI than 18. W end is much wetter w/ vac/lthrlf and nannyberry GC. E end has bracken and shallow v/moss depressions (5-10%), and higher SI. Chapter 7 (7/16/2013) by district TMS. "Have tried for 5 yrs to trench with no success, stands are either to wet or access is to wet. At this point stand will be left to function as semi open lands" FTP C73-844 canceled by TMS and UM (7/16/2013).
169	4130 - Aspen	Poletimber Medium	46.9	47	51-80	Stand was clear cut 4" end up previously. Areas which were less dense and presumably had smaller trees were left resulting in areas of older aspen stems and lower stem density.
170	4199 - Other Mixed Upland Deciduous	Poletimber Medium	17.3	57	1-50	OPIC - FMD: This is a newly acquired 40 ac parcel. Old aspen w/ very sparse u.s. Fin harv, reserving all non-aspen. Age and SI are estimates. Mark 1/2 ac island with red paint for retention; pick area with pin oak and other representative spp, possibly at N end of stand. The stand was a final harvest removing all the aspen the other species retained for retention. The harvest occurred in the winter of 2011/2012. The sale was Carrol Creek 73-007-09-01.
171	4130 - Aspen	Poletimber Medium	5.5	44	1-50	Same treatment as stand13.



Stand	Cover Type	Acres	Managed Site	General Comments:
15	710 - Sand, Soil	2.2	No	OPIC - FMD: This are is a illegal scramble area for ORVs and 4X4s. The stand is heavily distrubed with 50% of the stand being bare sand. The soil is Covert Sand.
19	622 - Lowland Shrub	1.4	No	OPIC - FMD: Dense willow w/ N in wettest areas. FEW ash, r maple.
21	623 - Emergent Wetland	1.1	No	OPIC - FMD: OI Stand Year Origin was
22	500 - Water	1.3	No	OPIC - FMD: BORROW PITS. Dumping/litter around pond.
23	623 - Emergent Wetland	21.0	No	OPIC - FMD: Drainage w/ old beaver activity. Small area of floating aquatic at SW end. N end includes portion of old st 1. Patches of willow, tg alder. Ash snags in old beaver floodings.
24	6220 - Alder/willow	13.9	No	Flooded area along drain. Mature tag alder.
25	622 - Lowland Shrub	2.0	No	OPIC - FMD: Some RM, B, O coming in S. of rd.
38	3102 - Grass	5.8	No	Cover is bracken fern, vacc, sweet fern, w/ shallow depressions w/ moss and willow (1-5%). Trace of red maple, aspen, pin oak and cherry coming in. Soil is pipestone 0-3% slopes, which has high seasonal water table, low moisture capacity, and is suited to WP according to soil survey. Chapter 7 (7/16/2013) by district TMS. "Have tried for 5 yrs to trench with no success, stands are either to wet or access is to wet. At this point stand will be left to function as semi open lands" FTP C73-844 canceled by TMS and UM (7/16/2013).
40	622 - Lowland Shrub	1.2	No	OPIC - FMD: Former stand 40 was for road acreage: Stnd area was 16 ac.
43	6225 - Bog	5.6	No	OPIC - FMD: Scattered small decadent Q aspen, also B & RM.
44	6225 - Bog	1.6	No	OPIC - FMD: Scattered RM, B, O coming in. Quite a few O seedlgs. Tall vac, dgwd.
45	622 - Lowland Shrub	1.7	No	OPIC - FMD: Nannyberry, royl frn, lthrlf. Scattered RM, A, O (very decadent).
48	6225 - Bog	5.6	No	OPIC - FMD: Broken out of former st 34. Scattered stunted aspen and a few maple, etc, but not forested.
49	122 - Road/Parking Lot	4.8	No	OPIC - FMD: THIS POLYGON IS COLEMAN ROAD.
61	6225 - Bog	8.7	No	OPIC - FMD: Blueberry, with scattered white oak. Very sedgy in spots - resembling wet meadow OI Stand Year Origin was



Stand	Cover Type	Acres	Managed Site	General Comments:
63	6299 - Lowland Shrub (OI)	7.5	No	Stand is a mix of tag alder, willow and dogwood. Over-story is dead ash and scattered aspen and red maple.
65	622 - Lowland Shrub	8.5	No	Harvested under contract # 73-050-85-01, Benson's Edges in 1987. Harvested 4" and up. The stand is more of an E2/L. The main species were red maple and ash. This stand has reverted to lowland brush. The stand has a lot of standing water in it some of it look persistent.
66	6220 - Alder/willow	12.5	No	Stand was pushed over by a D-7 in June of 1972 under FTP W8-310. STAND SWITCHED FROM LIGHTLY FORESTED TO NON-forested with the ash die off. Scattered red maple, birch, oak and tupelo concentrated at the north end.
71	622 - Lowland Shrub	27.1	No	OPIC - FMD: Stand is a mix of tag alder, willow and dogwood.
72	622 - Lowland Shrub	30.1	No	OPIC - FMD: Stand is a mix of L-types some areas are tag alder and willow and other area are blueberry and leather leaf
73	3301 - Low Density Deciduous Trees	3.6		Stand was harvested but it did not regenerate in to an aspen stand. Currently has sparse oak with some areas of aspen.
74	6220 - Alder/willow	23.6	No	Harvested under contract # 73-050-85-01, Benson's Edges in 1987. Harvested 4" and up. The stand is more of an E2/L. The main species are red maple and ash. The stand has a lot of standing water in it some of it look persistent. This stand reverted back to non-forested with the death of the ash.
76	622 - Lowland Shrub	6.7	No	OPIC - FMD: Stand is a mix of L-types some areas are tag alder and willow and other area are blueberry and leather leaf
82	500 - Water	5.1	No	OPIC - FMD: This is a beaver flooding that is filling in with brush
89	622 - Lowland Shrub	10.8	No	OPIC - FMD: Stand is a mix of L-types some areas are tag alder and willow and other area are blueberry and leather leaf
90	622 - Lowland Shrub	7.9	No	OPIC - FMD: Stand is a mix of tag alder, willow and dogwood.
92	3301 - Low Density Deciduous Trees	2.0	No	OPIC - FMD: Stand appears to have been an old landing. Harvested under contract # 73-050-85-01, Benson's Edges in 1987. Harvested 4" and up. Did not regenerate.
97	3301 - Low Density Deciduous Trees	10.8	No	Harvested in November of 1979 under contract number 30-77A which was a 322 acre clear cut. The residual was manually cut in November of 1980 under FTP W73-59. Plant Red pine. Cover is bracken frn, vacc, sweet fern, w/ shallow depressions w/ moss and willow (1-5%). Trace of red maple, aspen, pin oak and cherry coming in. Soil is pipestone 0-3% slopes, which has high seasonal water table, low moisture capacity, and is suited to WP according to soil survey. Chapter 7 (7/16/2013) by district TMS. "Have tried for 5 yrs to trench with no success, stands are either to wet or access is to wet. At this point stand will be left to function as semi open lands" FTP C73-844 canceled by TMS and UM (7/16/2013).



Stand	Cover Type	Acres	Managed Site	General Comments:
103	622 - Lowland Shrub	10.8	No	OPIC - FMD: This is a newer beaver flooding that is killing of the overstory.
111	6224 - Treed Bog	4.8	No	OPIC - FMD: Stand is a mix of tag alder, willow and dogwood.
113	310 - Herbaceous Openland	3.9	No	OPIC - FMD: This stand is a grassy knoll that has been created by beaver activity mixed with wind throw. Currently it is a G-Type with a few scattered trees.
121	6225 - Bog	1.5	No	OPIC - FMD: OI Stand Year Origin was
123	622 - Lowland Shrub	3.0	No	OPIC - FMD: Grnd cov dogwd, G, nannyberry
126	622 - Lowland Shrub	5.4	No	OPIC - FMD: Portion of st 26 that didn't regen. Scattered B, RM coming in.
128	3102 - Grass	0.7	No	OPIC - FMD: Barbed wire fence runs along N edge of parcel. 80-90% of stand is mowed by adj landowner. Scattered WP and blue spruce in opening. Recommended to Unit Mgr for disposal 8-22-07.
129	3102 - Grass	1.7	No	OPIC - FMD: Scattered O pole, sap and sdlgs: seedlings heavily browsed.
130	622 - Lowland Shrub	13.0	No	OPIC - FMD: Very dense dogwood and willow on edges. Open water associated with drain. Cattail, sedge marsh with willow, dogwood and spirea in pockets. Saw ovenbird, common yellow throat, cat bird, mourning warbler, yellow warbler, mallard. Saw evidence of beaver activity. Heard green frogs. Good habitat for a variety of wildlife. OI Stand Year Origin was
137	6220 - Alder/willow	12.8	No	OPIC - FMD: The stand is mainly an L-Type of red osier dogwood and tag alder. At one time the stand was flooded by beavers but the dam went out approximately 10 years ago and now it has been filled in with brush.
141	622 - Lowland Shrub	6.8	No	Beaver activity has flooded this stand out converting it to non-forested.
142	3102 - Grass	3.9	No	OPIC - FMD: Plant w/ RP and JP per compartment review. Grnd cov swt fern, brack frn, vacc. R maple, Pin O, A, Ch coming in. Soils are Pipestone in E 1/2, Kingsville in W 1/2. These soils both have low water holding capacity and high water tables. Kingsville has severe seedling mortality concerns. Survey recommends WP for machine planting. Chapter 7 (7/16/2013) by district TMS. "Have tried for 5 yrs to trench with no success, stands are either to wet or access is to wet. At this point stand will be left to function as semi open lands" FTP C73-844 canceled by TMS and UM (7/16/2013).
143	6229 - Mixed lowland shrub	11.1	No	The over-story was mainly black ash with some scattered red maple and aspen. The brush in the stand is a mix of tag alder, and red osier dogwood. The soil is Kingsville loamy fine sand.
147	6229 - Mixed lowland shrub	0.9		Harvested under contract # 73-050-85-01, Benson's Edges in 1987. Harvested 4" and up. Did not regenerate.



Stand	Cover Type	Acres	Managed Site	General Comments:
148	3301 - Low Density Deciduous Trees	9.7	No	OPIC - FMD: Plant with Spruce, R or J, in order of priority. Cover brack fern 70%, vac/leatherf 15%, moss 5%, swt fern 5%, trees 5% (RM, BO, QA). Mostly high area w/ shallow depressions w/ blueb/ferns. 100% dry today (unseasonably dry). Soil Pipestone (80%), Kingsville (wetter) 20%. Chapter 7 (7/16/2013) by district TMS. "Have tried for 5 yrs to trench with no success, stands are either to wet or access is to wet. At this point stand will be left to function as semi open lands" FTP C73-844 canceled by TMS and UM (7/16/2013).
151	330 - Low-Density Trees	5.6	No	
154	3301 - Low Density Deciduous Trees	2.4		TS#55-90-1. Cut in 1992. Oak was left. Low, wet areas regenerated very poorly. Upland ridge which did not regenerate.
155	3301 - Low Density Deciduous Trees	7.4		TS#55-90-1. Cut in 1992. Oak was left. Upland sand ridge which did not regenerate.
159	3102 - Grass	3.3	No	
160	6225 - Bog	1.0	No	OPIC - FMD: Blueberry, with scattered white oak. Very sedgy in spots - resembling wet meadow OI Stand Year Origin was
165	623 - Emergent Wetland	6.9	No	Beaver flooding created post harvest. Stand Y of Or is 1991.
167	3102 - Grass	0.5	No	OPIC - FMD: Gnd cov forbs, sweet frn, knapweed, G
168	622 - Lowland Shrub	0.6	No	OPIC - FMD: Leatherlf, vac, willow. Few A, B in middle. G cov rushes, lot of moss.
172	6229 - Mixed lowland shrub	1.1	No	Non-forested now due to beaver activity.