



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54014

Entry Year 2019

Acreage: 1,548

County Montmorency

Management Area: Avery Hills

Revision Date: 2017-05-26

Stand Examiner: Darrick Coy

Legal Description:

T29N R03E Sec 2-4, 9-11, and 14-17

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan. Harvests prescribed will help to balance the age classes of aspen to sustainably produce various timber products, enhance game and non-game wildlife habitat and provide for forest-based recreational uses.

Soil and topography:

Soils are primarily loamy sands, sands, and muck. The topography of the compartment is primarily level with some minor areas of rolling terrain. The compartment is predominately aspen. Forest habitat types are primarily dominated by PArVHa, PArVCo, PArVVb, and unclassified lowland.

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

The northeastern part of the compartment is predominately small blocks of state land surrounded by private. The southwestern part of the compartment has private on one or more sides but does connect to large areas of state land. The southwest 40 within section 15 is in the process of being removed from State ownership. The compartment has some recreational use by ORVs and snowmobiles and receives a large amount of use by Antrim Gas Companies.

Unique Natural Features:

Rare and Endanger Species Present- Great Blue Heron
Potential Other Rare and Endangered Species Present- None known.

Archeological, Historical, and Cultural Features:

Some sites exist. Contact the state historical preservation office for more information or reporting of new sites.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

Fisheries Division asks for a 300 foot buffer strip as per Fisheries Division Policy and Procedure 02.02.011 for the Gilchrist and Hunt creeks. Both are designated trout streams which are less than 50 feet wide and have wild trout populations. These reaches are also hampered at times by beaver activity which can significantly warm stream temperatures.

Wildlife Habitat Considerations:

This compartment is near to a multiple compartment, large scale block of public land providing contiguous wildlife pathways that are necessary for many of our large game animals such as black bear. Habitat components of heavy aspen and oak provide food and cover for multiple species at a variety of age classes. We are working to maintain oak and other mast producing trees as well as keep a good age rotation of aspen in this compartment as well as adjacent compartments. Species which benefit from our management include white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species.

Mineral Resource and Development Concerns and/or Restrictions

There is no metallic mineral potential in this part of the state. Active and former sand/gravel pits are located in the area and there is good potential for additional sand & gravel within the compartment. The compartment has been completely developed for Antrim Shale gas and all state mineral rights are currently under lease and held by production.

Vehicle Access:

This compartment is accessed from County Roads: Schmellers Rd, Hunt Creek Rd, Harwood Rd, Co Rd 612 and Co rd 487. There are several two tracks for traversing the area.

Survey Needs:

Some areas exist within sections 9 and 10.

Recreational Facilities and Opportunities:

There are many opportunities for hunting and wildlife viewing in the area.

Fire Protection:

Fire response to the compartment will be covered by the Atlanta DNR office as well as the Tri-Township Fire Department.

Additional Compartment Information:**The following reports from the Inventory are attached:**

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

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

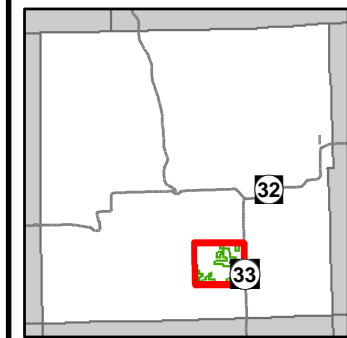
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

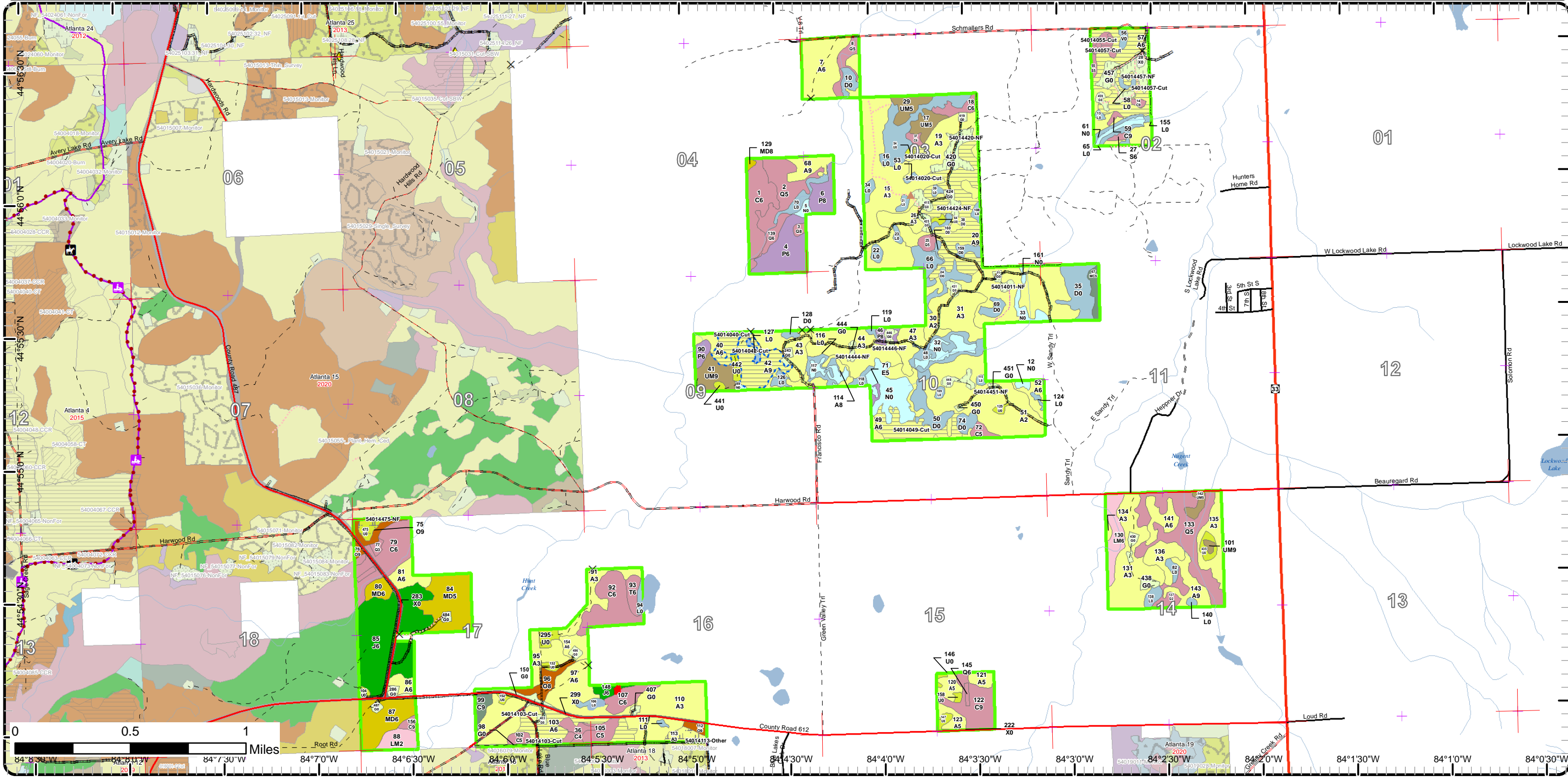
Compartment: 14
T29N, R03E, Sec: 2-4, 9-11, 14-17

County: Montmorency
Unit: Atlanta
Mgmt Area: Avery Hills
YOE: 2019

Acres: 1548.1 GIS Calculated
Examiner: Darrick Coy
Map Revised: 10/3/2017
Map Phase: Post-Review

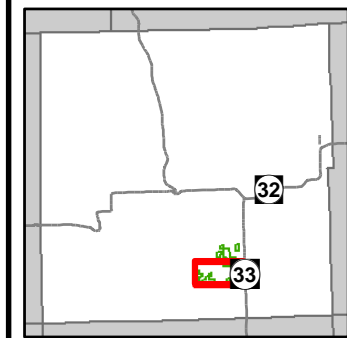


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- Counties
- ✕ Gate
- ▲ Berms
- Cabin
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- ⋯ Closed
- Streams
- Lakes and Rivers All
- Pipeline
- - - Fence
- - - Non-Designated Recreational Trail
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Opening Maintenance
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 790 - Other Bare/Sparingly Vegetated
- Lakes

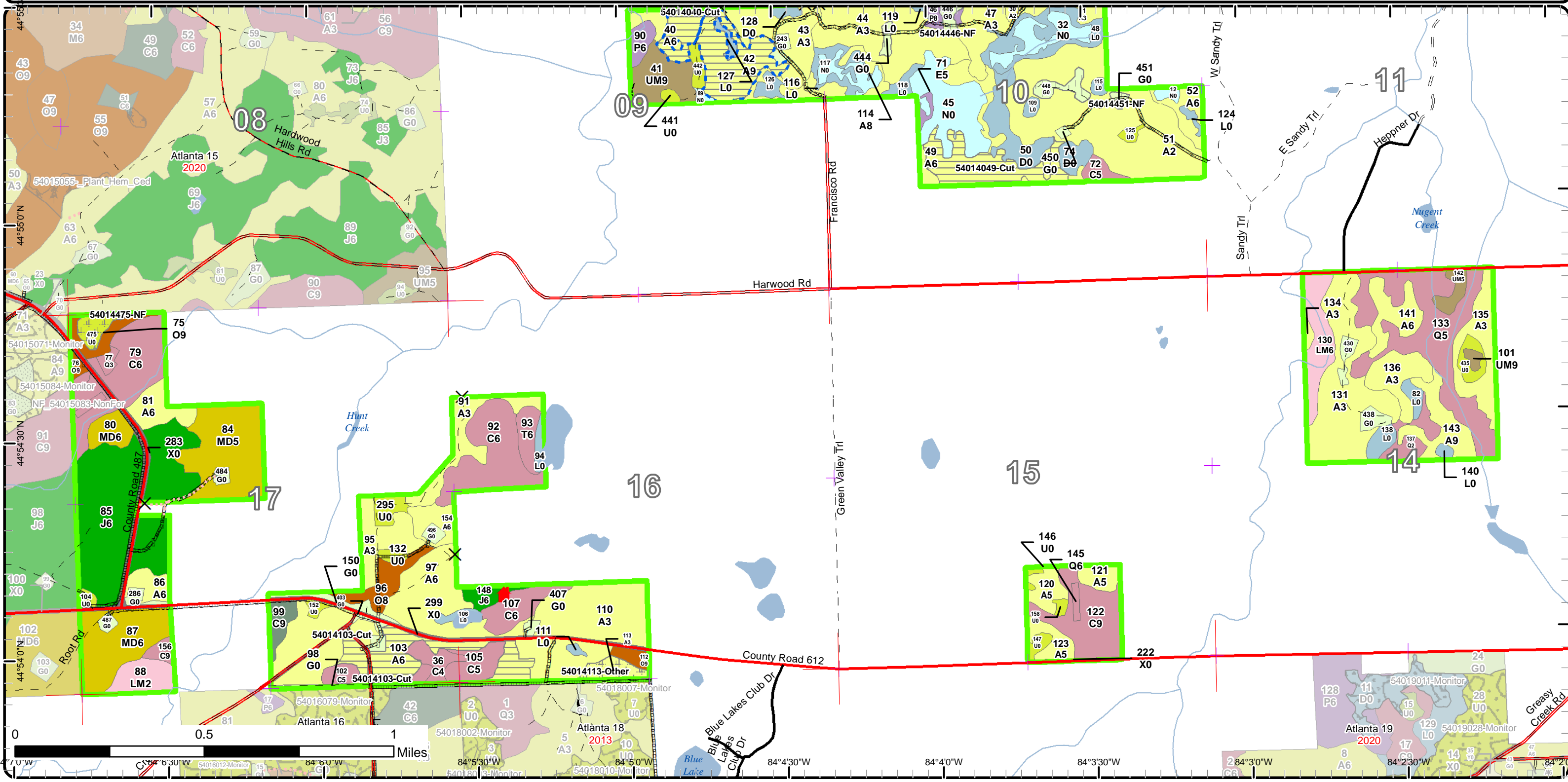


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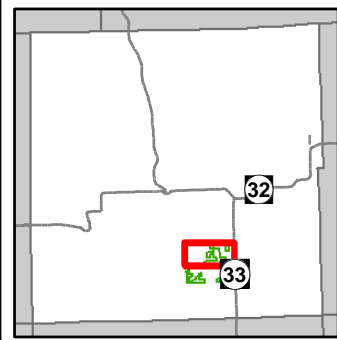


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|--|--|---|
| <ul style="list-style-type: none"> — Miris Corners — Remonumented Section Corners — Counties — Gate — Cabin — County Paved Roads — Paved Roads — County Gravel Roads — Gravel Roads — County Poor Dirt Roads — Poor Dirt Roads — Streams — Lakes and Rivers All | <ul style="list-style-type: none"> — Pipeline — Fence — Compartment Boundary — Treatments with Site Conditions — Other Treatment - See Comments — Clearcut (w/Reserves) — Opening Maintenance — 412 - Oak Types — 413 - Aspen — 419 - Mixed Upland Deciduous — 422 - Natural Pines — 423 - Other Upland Conifers — 430 - Upland Mixed Forest — 611 - Lowland Deciduous Forest — 612 - Lowland Coniferous Forest | <ul style="list-style-type: none"> 613 - Lowland Mixed Forest 122 - Roads/Parking Lot 310 - Herbaceous Openland 330 - Low Density Trees 622 - Lowland Shrub 623 - Emergent Wetland Lakes |
|--|--|---|

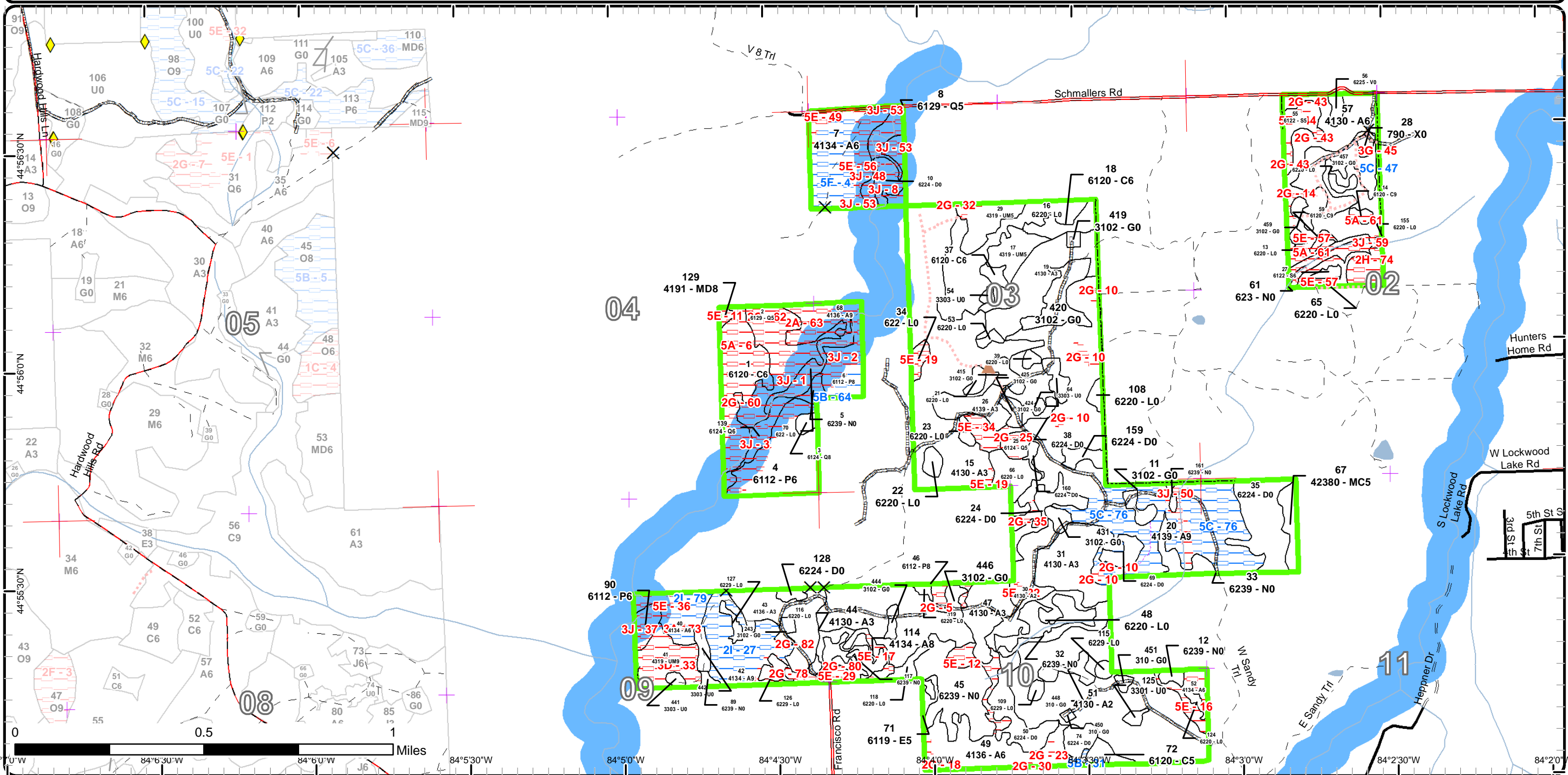


Special Conservation Areas & Site Conditions Map

Compartment: 14
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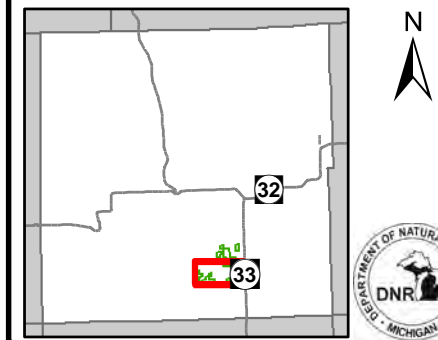


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- ⋯ Closed
- Streams
- Lakes and Rivers All
- Pipeline
- - - Fence
- Non-Designated Recreational Trail
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

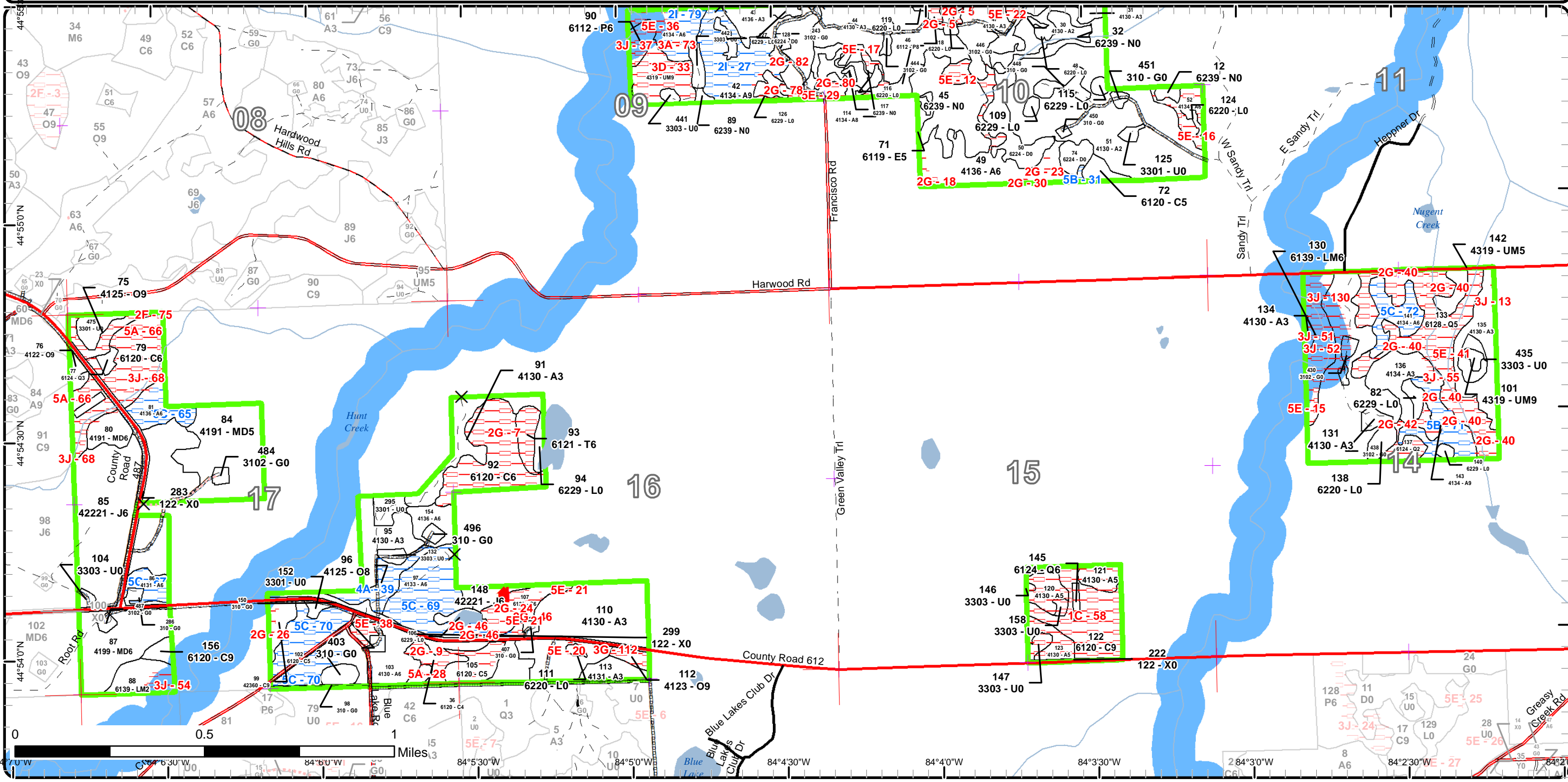


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- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Pipeline
- Fence
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	275	75	23	0	19	333	25	0	12	0	0	0	0	0	0	0	0	762
Bare/Sparsely Vegetated	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	0	20	36	47	31	3	0	0	0	0	136
Herbaceous Openland	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Jack Pine	0	0	0	0	0	62	4	0	0	0	0	0	0	0	0	0	0	0	66
Low-Density Trees	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Lowland Aspen/Balsam Poplar	0	0	0	0	24	0	7	0	0	0	10	0	0	0	0	0	0	0	41
Lowland Conifers	0	0	0	0	11	0	7	0	0	0	3	47	20	0	0	0	0	0	88
Lowland Deciduous	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Mixed Forest	0	0	9	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	22
Lowland Shrub	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
Lowland Spruce/Fir	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Marsh	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Mixed Upland Deciduous	0	0	0	22	0	36	0	0	0	1	0	0	0	0	0	0	0	0	59
Oak	0	0	0	0	0	0	0	0	0	14	0	3	0	0	0	0	0	0	16
Tamarack	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
Treed Bog	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Upland Mixed Forest	0	0	0	0	7	9	4	14	0	0	0	0	0	0	0	0	0	0	34
Urban	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Total	306	275	84	45	42	126	363	44	0	60	49	97	51	3	0	0	0	5	1548



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 14

Total Compartment Acres: 1,548

Commercial Harvest - 123
 Harvests with Site Condition - 27
 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	146	0	0	0	0	0	0	0	0	146
Lowland Spruce/Fir	3	0	0	0	0	0	0	0	0	3
Total	149	0	0	0	0	0	0	0	0	149

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	149	0	0	0	0	0	5	48		202
Next Step	0	0	0	0	0	149	0	0		149
Total	149	0	0	0	0	149	5	48		352



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
11	54014011-NF	2.5	3102 - Grass	Nonstocked	0	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Specs:
Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

20	54014020-Cut	50.9	4139 - Aspen, Mixed Deciduous	Sawtimber Well	56	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription -clearcut
Specs:
-leave all cedar, oak, rp, and wp species not to exceed a cumulative BA of 10 (should not need to mark)
-cut outside of Spring due to seasonally wet areas
-area retention of 3-10% is already excluded (see site conditions layer)
-include standard grouse specification

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

Acceptable -aspen, maple, fir, ash, birch, and pine of medium to high stocking
Regen:

Other -E property line corners are in and the established fencing appears to be straight
Comment:

Proposed Start Date: 10/01/2018

40	54014040-Cut	7.3	4134 - Aspen, Spruce/Fir	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Survey Needed**

Prescription -clearcut
Specs:
-leave all rp and wp species not to exceed a cumulative BA of 10 (should not need to mark)
-require leaving 1 brush/tops/slash pile every acre along the west edge of treatment to provide habitat for hare and reptiles
-cut outside of Spring due to seasonally wet areas
-do not cut within 300ft of Hunt Creek (counted as area retention- already excluded in site conditions layer)
-leave internal retention pocket for white spruce over 26" (already excluded- see site conditions)
-include standard grouse specification

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

Acceptable -aspen, maple, fir, ash, birch, spruce, oak, and pine of medium to high stocking
Regen:

Other -may need a survey request- survey corner to NW is likely not established; fencing along E-W line is off and cut to north on private buffers
Comment:
ownership
-use low density tree stand 442 for a landing location

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
42	54014042-Cut	19.4	4134 - Aspen, Spruce/Fir	Sawtimber Well	63	51-80	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition: Survey Needed

Prescription -clearcut-leave all rp and wp species not to exceed a cumulative BA of 10-areas that are under 1/2 acre and too wet to harvest should be included within the cut area -include protection for small non-forest lowland shrub pockets within sale specs and consider identifying them on the sale map-cut outside of Spring-area retention already excluded to SE (see site conditions layer)-include standard grouse specification

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: -aspen, maple, fir, ash, birch, spruce, oak, and pine of medium to high stocking

Other

Comment:

Proposed Start Date: 10/01/2018

49	54014049-Cut	18.1	4136 - Aspen, Mixed Conifer	Poletimber Well	53	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription -clearcut

Specs: -leave all cedar and wp (special protection spec for those >26" dbh)
-area retention already excluded to the north
-cut outside of Spring
-put the 4-5 intermittent drainages (N-S running) on the sale map but do not exclude them from harvest, unless there is a significant amount of timber within; producer should be able to operate around them without causing soil damage
-include standard grouse specification

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: -aspen, maple, fir, ash, birch, and pine of medium to high stocking

Other -access stand from NE well pad

Comment:

Proposed Start Date: 10/01/2018

55	54014055-Cut	3.2	6122 - Black Spruce	Poletimber Medium	58	51-80	Harvest	Clearcut	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription -clearcut

Specs: -area retention and low stocked areas that are too wet have already been excluded from harvest (see site conditions layer)

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: -any combination of spruce, fir, aspen, maple, ash, birch, oak, and pine of medium to high stocking

Regen: -it is acceptable if the surrounding aspen encroaches into this stand converting it to a deciduous cover type as well

Other

Comment:

Proposed Start Date: 10/01/2018



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
57	54014057-Cut	30.4	4130 - Aspen	Poletimber Well	53	51-80	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription -clearcut

Specs:
 -leave all cedar, oak, rp, and wp species not to exceed a cumulative BA of 10 (should not need to mark)
 -leave a minimum of 100ft distance from the edge of a tributary of Gilchrist out of the treatment to minimize sedimentation and erosion
 -require leaving 1 brush/tops/slash pile every acre along the creek to provide habitat for hare and reptiles
 -cut outside of Spring due to seasonally wet areas
 -area retention already excluded (see site conditions layer)
 -include standard grouse specification

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Regen: -aspen, maple, fir, ash, birch, spruce, oak, and pine of medium to high stockingOther

-east fence posts appear to be surveyed and corners in

Comment:Proposed Start Date: 10/01/2018

103	54014103-Cut	20.1	4130 - Aspen	Poletimber Well	56	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription -clearcut

Specs:
 -leave all rp and wp species not to exceed a cumulative BA of 10
 -mark healthy mast oak to leave as they occur (only a few present)
 -area retention already excluded (see site conditions layer)
 -cut outside of Spring
 -include standard grouse specification

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Regen: -aspen, maple, fir, ash, birch, spruce, oak, and pine of medium to high stockingOtherComment:Proposed Start Date: 10/01/2018

113	54014113-Other	5.1	4131 - Aspen, Oak	Sapling Well	6	Immatu re	Other	Other	4131 - Aspen, Oak	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription -requesting a variance through compartment review to the accept the clearcut treatment and aspen, oak cover type changeSpecs:Next StepTreatments:Acceptable Regen: -see current stage 1 dataOtherComment: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
415	54014415-NF	3.3	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary

Habitat Cut: No**Site Condition:**

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

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

420	54014420-NF	9.6	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

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

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

424	54014424-NF	3.0	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

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

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

425	54014425-NF	2.1	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

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

Next Step
Treatments:

Acceptable
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
431	54014431-NF	2.1	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary

Habitat Cut: No**Site Condition:**

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

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

444	54014444-NF	1.4	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

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

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

446	54014446-NF	2.2	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

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

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

448	54014448-NF	3.5	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

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

Next Step
Treatments:

Acceptable
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
451	54014451-NF	1.0	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

457	54014457-NF	13.1	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

459	54014459-NF	1.7	3102 - Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

475	54014475-NF	4.2	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	3301 - Low Density Deciduous Trees		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 204.2**

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Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions															
		With Condition				2I	4A	5B	5C	5F	1C	2A	2F	2G	2H	3A	3D	3G	3J	5A	5E
762	490	165		107	Aspen	27		12	111	16	15	4		17	5	0		0	32		34
1	1	0		0	Bare/Sparsely Vegetated																
2	2	0		0	Bog																
135	23	0		112	Cedar						19			42					13	37	0
66	65	0		1	Herbaceous Openland				0										1		
66	66	0		0	Jack Pine																
25	22	0		3	Low-Density Trees		0				3										
40	16	3		21	Lowland Aspen/Balsam Poplar			3						3					18		
88	6	0		82	Lowland Conifers						1			39					41		1
1	1	0		0	Lowland Deciduous																
22	6	0		17	Lowland Mixed Forest														15		2
92	80	0		12	Lowland Shrub									0					10		2
7	4	0		3	Lowland Spruce/Fir									3							0
47	42	0		5	Marsh				0										5		0
58	57	0		2	Mixed Upland Deciduous														1		1
17	1	8		7	Oak		8					5						2			
5	0	0		5	Tamarack									5							
53	49	0		4	Treed Bog									0					4		
5	5	0		0	Upland Conifers																
33	20	0		14	Upland Mixed Forest									1			12		0		
19	18	0		1	Urban						1								0		
1,548	974	177		398	Total Forested Acres	27	8	15	111	16	40	4	5	110	5	0	12	3	142	37	40
	63%	11%		26%	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	3J: Water quality / BMPs (stream, river, or lake)	20	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: -300 ft special management buffer for Hunt Creek							

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2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -300 ft special management buffer for Hunt Creek							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -300 ft special management buffer for Hunt Creek							
4	Available	5F: Evaluated for Forest Health Considerations	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Reevaluate for next YOE							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -left surrounding timber around many lowland shrub pockets in this stand							
6	Unavailable	5A: Not able to obtain desirable regeneration	16	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							

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8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments:							

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14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 51							
17	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 44							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 15							
20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 110							

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21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 108							
22	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 30							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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27	Available	2I: Survey needed	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	5A: Not able to obtain desirable regeneration	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	5E: Long-Term Retention	2	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments: -a residential home is adjacent to state property line							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Available	5B: Maintain for regeneration purposes	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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33	Unavailable	3D: Recreational / Scenic values	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: area retention for stand 20							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 40 -300 ft buffer for Hunt Creek, which is a designated trout stream							
37	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -300 ft buffer for Hunt Creek, which is a designated trout stream							
38	Unavailable	5E: Long-Term Retention	2	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 103							

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39	Available	4A: No Markets Available for these Forest Products	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 135							
42	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
43	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 55							

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45	Unavailable	3G: Other Influence zones - See comments	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -trees in area are adjacent and within the gas facility fencing							
46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
47	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
48	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: -many large diameter pre-legacy and legacy RP and WP trees							
49	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -many large diameter pre-legacy and legacy RP and WP trees							
50	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -10-20ft drainage that is cattails and tag alder, likely backed up water from surrounding beaver dams							

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51	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments: -300 ft special management buffer for Gilchrist Creek							
52	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: -300 ft special management buffer for Gilchrist Creek							
53	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -300 ft special management buffer for Hunt Creek							
54	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -300 ft special management buffer for Hunt Creek							
55	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	22	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: -100 ft special management buffer for Nugent Creek							
56	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -many large diameter pre-legacy and legacy RP and WP trees							

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57	Unavailable	5E: Long-Term Retention	3	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
58	Unavailable	1C: Other dept or div proc/practices	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -this 40 acre parcel is currently being disposed of, inventory was done remotely							
59	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
60	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
61	Unavailable	5A: Not able to obtain desirable regeneration	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
62	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	5A: Not able to obtain desirable regeneration	2A: Adjacent landowner denied access	Unspecified	Unspecified
Comments:							

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63	Unavailable	2A: Adjacent landowner denied access	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
64	Available	5B: Maintain for regeneration purposes	4	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
65	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
66	Unavailable	5A: Not able to obtain desirable regeneration	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
67	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
68	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: -100 ft special management buffer for Sage Creek							

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69	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
70	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
71	Available	5B: Maintain for regeneration purposes	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
72	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
73	Unavailable	3A: Conservation Values incompatible with harvest at this time	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
74	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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75	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -the SE portion of this stand is a ridge down to a cedar stand							
76	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
78	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
79	Available	2I: Survey needed	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
80	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
82	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							

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112	Unavailable	3G: Other Influence zones - See comments	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
130	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -300 ft special management buffer for Gilchrist Creek							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Poletimber Well	21.9	115	171-200	-could not find an adequate stream crossing (10-12ft wide)
2	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	20.2	115	51-80	-smaller trees -more stagnant growth -standing water throughout
3	6124 - Lowland Spruce- Fir	Sawtimber Medium	1.6	51	81-110	
4	6112 - Lowland Aspen	Poletimber Well	23.5	36	51-80	-past treatment- clearcut- all aspen, mhwd, bf, ws, and cedar -completion date- 6/30/82 -sale number- 10-79 (permit) (17 acres) -leave trees- none -volume (cds)- ~85% aspen with 15% in mixed softwood -large diameters for age, some rot but is minor at this point -core sampled tree and got 36-38 yrs some rot
6	6112 - Lowland Aspen	Sawtimber Medium	10.3	96	51-80	-several small springs drain through-out stand; 50% of aspen cover is gone and significant rot 50% or more; heavy browse on ash from deer
7	4134 - Aspen, Spruce/Fir	Poletimber Well	31.3	53	81-110	-many legacy rp and wp throughout; particularly heavy in nw -better quality aspen with more of a legacy pine component vs other stands within the compartment -some rot but it is not significant
8	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	6.6	102	111-140	-Hunt Creek Corridor; heavy to cedar in south half
14	6120 - Lowland Cedar	Sawtimber Well	1.2	94	81-110	
15	4130 - Aspen	Sapling Well	66.4	5	Immature	-past treatment- clearcut; Winter Cut only -completion date- 1/7/13 -sale number- 54-032-09-01 -leave trees- rp, wp, oak, and cedar -volume (cds)- mostly aspen with mhwd and mswd
17	4319 - Mixed Upland Forest	Poletimber Medium	7.3	39	1-50	-semi-open stand with lowland pockets, older to w 1\4, low ba
18	6120 - Lowland Cedar	Poletimber Well	5.3	98	201+	-nice stand of cedar poles; cored 82 years; added 15; blowdown in stand; transitional drainage stand; unoccupied sub-canopy
19	4130 - Aspen	Sapling Well	19.6	16	1-50	-past treatment- clearcut -completion date- 1-17-01 -sale number- 54-008-99-01-leave trees- oak, conifer, elm, or green trees-volume (cds)- ~90% aspen with rest in mixed hwd
20	4139 - Aspen, Mixed Deciduous	Sawtimber Well	113.0	56	81-110	-a lot of lowland pockets within this stand...
25	6124 - Lowland Spruce- Fir	Poletimber Medium	3.0	99	51-80	-too wet- stagnant growth



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	4139 - Aspen, Mixed Deciduous	Sapling Well	8.5	17	Immature	-past treatment- clearcut -completion date- 1-17-01 -sale number- 54-008-99-01-leave trees- oak, conifer, elm, or green trees-volume (cds)- ~90% aspen with rest in mixed hwd- mostly rm south of 2 track
27	6122 - Black Spruce	Poletimber Well	1.2	53	51-80	-S portion has pole sap fir and spruce, 6 inch
29	4319 - Mixed Upland Forest	Poletimber Medium	8.6	46	51-80	-lowland shrub pocket and legacy trees; was not cut due to surrounding lowland; fairly diverse stand
30	4130 - Aspen	Sapling Medium	8.9	7	Immature	-clearcut in 2010; scattered pocket regent on higher ground -variance granted 7-6-2010- clearcut stand; acceptable regen is any mix of aspen and conifer
31	4130 - Aspen	Sapling Well	18.1	17	Immature	-past treatment- clearcut -completion date- 1-17-01 -sale number- 54-008-99-01-leave trees- oak, conifer, elm, or green trees-volume (cds)- ~90% aspen with rest in mixed hwd
36	6120 - Lowland Cedar	Poletimber Poor	4.9	105	1-50	-weak cedar crowns with this balsam understory to S half -n half is less forested with more tag alder due to it being more wet -standing water throughout
37	6120 - Lowland Cedar	Poletimber Well	1.8	104	171-200	
40	4134 - Aspen, Spruce/Fir	Poletimber Well	10.8	55	81-110	-higher density pole stand
41	4319 - Mixed Upland Forest	Sawtimber Well	12.4	65	81-110	-appears that wp and rp were left from previous harvest and significantly larger/older -scenic stand that does not meet old growth criteria but definitely contains remnants of old growth forest throughout -not quite 2 aged
42	4134 - Aspen, Spruce/Fir	Sawtimber Well	25.0	63	51-80	
43	4136 - Aspen, Mixed Conifer	Sapling Well	16.5	17	1-50	-past treatment- clearcut -completion date- 1-17-01 -sale number- 54-008-99-01-leave trees- oak, conifer, elm, or green trees-volume (cds)- ~90% aspen with rest in mixed hwd
44	4130 - Aspen	Sapling Well	30.8	5	Immature	-past treatment- clearcut; winter cut only -completion date- 1/7/13 -sale number- 54-032-09-01 -leave trees- rp, wp, oak, and cedar -volume (cds)- mostly aspen with mhwd and mswd
46	6112 - Lowland Aspen	Sawtimber Medium	2.9	59	51-80	-left uncut due to lowland with meandering boundary



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	4130 - Aspen	Sapling Well	11.1	17	Immature	-past treatment- clearcut -completion date- 1-17-01 -sale number- 54-008-99-01-leave trees- oak, conifer, elm, or green trees-volume (cgs)- ~90% aspen with rest in mixed hwd
49	4136 - Aspen, Mixed Conifer	Poletimber Well	27.7	53	81-110	
51	4130 - Aspen	Sapling Medium	61.8	5	Immature	-past treatment- clearcut -completion date- 1/7/13 -sale number- 54-032-09-01 -leave trees- rp, wp, oak, and cedar -volume (cgs)- mostly aspen with mhwd and mswd
52	4134 - Aspen, Spruce/Fir	Poletimber Well	6.0	57	81-110	
55	6122 - Black Spruce	Poletimber Medium	6.3	58	51-80	
57	4130 - Aspen	Poletimber Well	42.8	53	51-80	-S portion has pole sap fir and spruce, 6 inch
59	6120 - Lowland Cedar	Sawtimber Well	1.0	94	81-110	
67	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Medium	5.1	47	51-80	-canopy is undefined by stratum, appears uneven aged -intermittent drainage area in middle of stand
68	4136 - Aspen, Mixed Conifer	Sawtimber Well	9.2	54	81-110	
71	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	1.4	58	51-80	
72	6120 - Lowland Cedar	Poletimber Medium	3.1	94	81-110	-too wet, stagnant growth, cedar crowns 50% alive
75	4125 - Black, N. Pin Oak	Sawtimber Well	5.0	85	51-80	-oak over story with M3/W3 understory. Steep slopes going down to swamp.
76	4122 - Oak, Pine	Sawtimber Well	1.4	87	81-110	
77	6124 - Lowland Spruce-Fir	Sapling Well	3.7	37	1-50	-past treatment- clearcut -completion date- 4/10/78 -sale number- 14-78 (permit) -leave trees- none -volume (cgs)- ~85% cedar with 15% in mixed softwood
79	6120 - Lowland Cedar	Poletimber Well	25.0	93	111-140	-good cedar on edges, some slowdown; interior cedar is pole cedar with weak crowns
80	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.6	49	51-80	-transitional deciduous stand



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
81	4136 - Aspen, Mixed Conifer	Poletimber Well	8.2	49	51-80	-mostly rm to nw corner; aspen throughout rest of stand; primarily upland with lowland to n-nw; small diameter
84	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	29.5	49	51-80	-age is same as surrounding stands
85	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	62.1	49	51-80	-scattered oak, white pine & balsam fir; stand is variable in size and stocking
86	4131 - Aspen, Oak	Poletimber Well	4.9	49	51-80	
87	4199 - Other Mixed Upland Deciduous	Poletimber Well	22.2	26	51-80	-most log oak is significant mast oak serving wildlife values -lower end mixed oak (vha), regenerates well here; good white oak regen -past treatment- Thinning- all aspen, jp, maple, cedar, and yellow painted oak -completion date- 8/8/90 -sale number- 54-068-89-01 -leave trees- unmarked oak (assume 70-90 BA) -volume (cds)- jp= 46, rm= 58, bta= 37 (35 total cut);
88	6139 - Mixed Lowland Forest	Sapling Medium	8.7	17	1-50	-mixed ages, but young to stagnant -cattails throughout -a lot of blowdown -stand naturally regenerated -past harvest blew down a lot of cedar -too wet for any harvesting -remnant older weak crowned cedar poles -scattered small spruce fir to SE portion
90	6112 - Lowland Aspen	Poletimber Well	3.8	57	51-80	-high tag alder
91	4130 - Aspen	Sapling Well	12.9	27	1-50	-past treatment- clearcut -completion date- 05/01/90 -sale number- 54-014-89-01 -leave trees- none -volume (cds)- jp= ~90% aspen with rest in mixed hwd
92	6120 - Lowland Cedar	Poletimber Well	23.8	105	111-140	-too wet
93	6121 - Tamarack	Poletimber Well	4.9	62	111-140	-cored 54 yr tamarack, dense pure stand
95	4130 - Aspen	Sapling Well	12.0	7	1-50	-past treatment- clearcut -completion date- 5/13/2010 -sale number- 54-013-09-01 -leave trees- oak, wp, rp (no area retention due to small stand size) -volume (cds)- 145 aspen, 2 fir, 2 chry, 2 jp
96	4125 - Black, N. Pin Oak	Sawtimber Medium	8.2	87	51-80	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
97	4133 - Aspen, Mixed Pine	Poletimber Well	24.4	51	81-110	-N-NE 1/3rd aspen age based on cutting record (41); S 2/3rds age based on current core (56); ave age 51 -legacy trees present within stand -lowland shrub pockets to SE leg of stand that were too small to map -more natural wp regeneration found in this aspen stand vs others within the compartment -past treatment- thinned (N1/2 only)- all fir, aspen, maple, birch, and jp -completion date- 12/3/75 (40) -sale number- 73-74-20 (timber cutting permit) (60 acres) -leave trees- left red and white oak -volume (cgs)- ~90% aspen with rest in mixed how'd
99	42360 - Upland Cedar	Sawtimber Well	4.6	101	111-140	-fast growing healthy cedar with lowland portion to NW
101	4319 - Mixed Upland Forest	Sawtimber Well	1.2	60	111-140	
102	6120 - Lowland Cedar	Poletimber Medium	3.0	125	51-80	
103	4130 - Aspen	Poletimber Well	40.6	56	81-110	
105	6120 - Lowland Cedar	Poletimber Medium	8.7	112	111-140	-2 aged stand; seems spruce cut 50 yrs ago. -ne & w is primarily cedar and center is primarily dense black spruce -treated both as inclusions due to similar drainage type and small stand size
107	6120 - Lowland Cedar	Poletimber Well	9.3	100	111-140	-more overstory aspen to ne
110	4130 - Aspen	Sapling Well	38.9	7	Immature	-past treatment- clearcut -completion date- 5/13/2010 -sale number- 54-013-09-01 -leave trees- 1-2 oak/acre -volume (cgs)- 74 aspen, 37 rm, 23 ro, 12 bf, 2 wo (S of rd) -volume (cgs)- 253 aspen, 60 rm, 12 ro, 2 wo, 30 bf, 1 chry, wa 2 (N of rd)
112	4123 - Red Oak	Sawtimber Well	2.5	106	81-110	-fairly steep slope down to road
113	4131 - Aspen, Oak	Sapling Well	5.1	6	Immature	OPIC - FMD: treat with adjacent aspen stand. Species thin down to 40-50 BA. No retention needed due to stand 112 is same species and will never be cut. Regen mix of aspen, oak, and pine is acceptable. May want to underplant white pine. Stand was cut in spring of 2010. 54-013-09-01 Mystic Aspen: Logger made an error when treating this unit of sale. It was actually clear cut and only scattered oak were left. Damages were charged. -past treatment- clearcut -completion date- 5/13/2010 -sale number- 54-013-09-01 -leave trees- 1-2 oak/acre -volume (cgs)- 29 oak, 18 aspen, 7 rm



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
114	4134 - Aspen, Spruce/Fir	Sawtimber Medium	3.0	53	51-80	
120	4130 - Aspen	Poletimber Medium	5.7	52	51-80	-access to stand is across narrow finger of cedar stand. -this 40 acre parcel is currently being disposed of, inventory was done remotely
121	4130 - Aspen	Poletimber Medium	4.3	52	51-80	-No access for equipment, unless come across private from north. --this 40 acre parcel is currently being disposed of, inventory was done remotely
122	6120 - Lowland Cedar	Sawtimber Well	19.5	87	111-140	OPIC - FMD: several small streams/seeps in stand. Old fence post still up from deer enclosure. Best cedar is along east edge of stand. Scattered White Pine on pockets of high ground. -this 40 acre parcel is currently being disposed of, inventory was done remotely
123	4130 - Aspen	Poletimber Medium	5.1	52	51-80	-this 40 acre parcel is currently being disposed of, inventory was done remotely
129	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	1.0	85	51-80	
130	6139 - Mixed Lowland Forest	Poletimber Well	13.4	85	51-80	-Gilchrist Creek riparian corridor -strip of upland aspen within the south and north ends of this stand
131	4130 - Aspen	Sapling Well	36.1	4	Immature	-past treatment- clearcut-completion date- 1/7/13-sale number- 54-032-09-01-leave trees- rp, wp, oak, and cedar-volume (cgs)- mostly aspen with mhwd and mswd-Winter Cut only. Regen mix of aspen, maple and pine is acceptable. Leave Drumming Logs. Close Road when sale is completed. Consult with Fisheries and Wildlife Biologist before establishing buffer line along stream. Do not allow harvest activities to spill into stands 132 or 133. See locked comments for these stands.
133	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	40.4	108	51-80	-highly variable stand that is significantly wet -riparian and bmp concerns throughout stand; contains Nugent creek that is 3-5 ft wide -tag alder scattered throughout
134	4130 - Aspen	Sapling Well	1.1	13	81-110	
135	4130 - Aspen	Sapling Well	15.0	4	Immature	-past treatment- clearcut -completion date- 1/7/13 -sale number- 54-032-09-01 -leave trees- rp, wp, oak, and cedar -volume (cgs)- mostly aspen with mhwd and mswd Winter Cut only. Regen mix of aspen, maple and pine is acceptable. Leave Drumming Logs.; copy stand 131
136	4134 - Aspen, Spruce/Fir	Sapling Well	10.3	26	Immature	-past treatment- clearcut-completion date- 8/21/91-sale number- 54-028-89-01-leave trees- none-volume (cgs)- ~70% aspen with 30% in mixed softwood



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
137	6124 - Lowland Spruce- Fir	Sapling Medium	6.3	31	1-50	
139	6124 - Lowland Spruce- Fir	Poletimber Well	5.1	54	111-140	-20-30% moss coverage, healthy stand, more cedar to south narrow portion
141	4134 - Aspen, Spruce/Fir	Poletimber Well	9.6	52	81-110	-northwest portion was younger mid 30s aspen; count as an inclusion for main stand
142	4319 - Mixed Upland Forest	Poletimber Medium	3.7	55	51-80	-rather large crowned rm overstory with thick spruce fir -noticed 2 large legacy wp near road
143	4134 - Aspen, Spruce/Fir	Sawtimber Well	11.8	85	81-110	OPIC - FMD: Stand has several small Ptypes mixed in but surrounded by low/wet ground. Hold stand for retention/wildlife and stream buffer. -the majority of this stand contains significant rot within the aspen and is providing a significant number of cavities for nesting wildlife
145	6124 - Lowland Spruce- Fir	Poletimber Well	1.1	37	51-80	-this 40 acre parcel is currently being disposed of, inventory was done remotely
148	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	4.1	58	81-110	
154	4136 - Aspen, Mixed Conifer	Poletimber Well	6.0	41	51-80	-past treatment- all fir, aspen, maple, birch, and jp -completion date- 12/3/75 (40) -sale number- 73-74-20 (timber cutting permit) (60 acres) -volume (cfs)- ~90% aspen with rest in mixed hwd
156	6120 - Lowland Cedar	Sawtimber Well	2.4	102	111-140	-renmant of cedar that didn't blowdown



Stand	Cover Type	Acres	Managed Site	General Comments:
5	6239 - Mixed Emergent Wetland	2.0	No	-Mix of marsh, alder, and mixed low density trees; mostly marsh
10	6224 - Treed Bog	4.2	No	-Hunt Creek Corridor; mostly dead cedar; some pole spruce fir ; heavy blowdown throughout
11	3102 - Grass	2.5	Yes	-antrim gas well
12	6239 - Mixed Emergent Wetland	1.4	No	-60%marsh, 40% alder on edges
13	6220 - Alder/willow	0.9	No	
16	6220 - Alder/willow	21.8	No	-lowland with scattered trees, mostly shrub
21	6220 - Alder/willow	1.7	No	
22	6220 - Alder/willow	2.1	No	
23	6220 - Alder/willow	1.4	No	
24	6224 - Treed Bog	7.3	No	-scattered trees with tag alder
28	790 - Other Bare/Sparsely Vegetate	1.3	No	-gas facility site.
32	6239 - Mixed Emergent Wetland	8.4	No	-marsh with some water
33	6239 - Mixed Emergent Wetland	4.8	No	-alder and marsh
34	622 - Lowland Shrub	2.3	No	-left as area retention for stand 15 -lowland shrub with scattered aspen along perimeter
35	6224 - Treed Bog	16.7	No	-lowland low density trees -scattered weak crowned cedar and dead ash with thick tag alder -considered non-forest -alder thicker to north with less tree cover
38	6224 - Treed Bog	1.5	No	-lowland low density trees -alder with scattered trees
39	6220 - Alder/willow	1.1	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
45	6239 - Mixed Emergent Wetland	20.6	No	-shrub and marsh, alder willow
48	6220 - Alder/willow	11.4	No	
50	6224 - Treed Bog	10.6	No	-dead saps ash over alder and marsh; standing water throughout
53	6220 - Alder/willow	1.1	No	
54	3303 - Mixed Low Density Trees	0.9	No	
56	6225 - Bog	1.9	No	-soft ground with snow, seems semi-wet
58	6220 - Alder/willow	1.3	No	
61	623 - Emergent Wetland	3.4	No	-beaver flooding in middle of stand; marsh; surface water throughout
64	3303 - Mixed Low Density Trees	1.1	No	
65	6220 - Alder/willow	3.2	No	
66	6220 - Alder/willow	6.6	No	
69	6224 - Treed Bog	3.6	No	-dead ash over alder with low density fir and cedar, standing water throughout
70	622 - Lowland Shrub	5.9	No	-Hunt Creek Corridor. Beaver dam in middle of stand.
74	6224 - Treed Bog	3.9	No	-dead ash with low density trees over mostly tag alder; bog with trees or lowland shrub
82	6229 - Mixed lowland shrub	2.1	No	
89	6239 - Mixed Emergent Wetland	0.9	No	-alder with marsh in middle
94	6229 - Mixed lowland shrub	2.4	No	-mix for ro dogwood and alder
98	310 - Herbaceous Openland	1.7	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
104	3303 - Mixed Low Density Trees	1.2	No	
106	6229 - Mixed lowland shrub	2.5	No	
108	6220 - Alder/willow	1.7	No	
109	6229 - Mixed lowland shrub	1.2	No	
111	6220 - Alder/willow	0.7	No	-alder surrounded by standing trees
115	6229 - Mixed lowland shrub	1.1	No	
116	6220 - Alder/willow	5.1	No	-alder willow with some scattered trees
117	6239 - Mixed Emergent Wetland	5.0	No	-portion of stand is marsh; alder on perimeter with marsh in middle; mixed emergent wetland
118	6220 - Alder/willow	2.3	No	
119	6220 - Alder/willow	0.9	No	OPIC - FMD: OI Stand Year Origin was
124	6220 - Alder/willow	1.1	No	
125	3301 - Low Density Deciduous Tree	1.2	No	
126	6229 - Mixed lowland shrub	2.3	No	-alder with marsh in interior
127	6229 - Mixed lowland shrub	1.4	No	-alder with marsh in interior
128	6224 - Treed Bog	1.5	No	-lowland shrub pockets to the east and west with scattered aspen and red maple around the perimeter
132	3303 - Mixed Low Density Trees	1.6	No	-used as a landing area north of the 2-track
138	6220 - Alder/willow	3.1	No	OPIC - FMD: OI Stand Year Origin was
140	6229 - Mixed lowland shrub	0.9	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
146	3303 - Mixed Low Density Trees	0.9	No	-this 40 acre parcel is currently being disposed of, inventory was done remotely
147	3303 - Mixed Low Density Trees	1.7	No	-this 40 acre parcel is currently being disposed of, inventory was done remotely
150	310 - Herbaceous Openland	3.1	No	
152	3301 - Low Density Deciduous Tree	1.2	No	
155	6220 - Alder/willow	2.8	No	
158	3303 - Mixed Low Density Trees	0.9	No	OPIC - FMD: access to stand is across narrow finger of cedar stand.
159	6224 - Treed Bog	3.0	No	-dead ash and some scattered live maple and aspen over tag alder -considered, low density trees for lowland -treed bog is only coding similar for this stand
160	6224 - Treed Bog	1.0	No	-scattered trees wit tag alder
161	6239 - Mixed Emergent Wetland	0.8	No	-alder and marsh
222	122 - Road/Parking Lot	1.0	No	-County roads 612 -this 40 acre parcel is currently being disposed of, inventory was done remotely
243	3102 - Grass	1.8	No	-gas facility site
283	122 - Road/Parking Lot	9.1	No	
286	310 - Herbaceous Openland	1.5	No	
295	3301 - Low Density Deciduous Tree	3.7	No	-scattered black cherry
299	122 - Road/Parking Lot	9.0	No	
403	310 - Herbaceous Openland	2.0	No	-Antrim Gas Well
407	310 - Herbaceous Openland	0.9	No	-Antrim Gas Well
415	3102 - Grass	3.3	Yes	



Stand	Cover Type	Acres	Managed Site	General Comments:
419	3102 - Grass	0.9	No	-Antrim Gas Well
420	3102 - Grass	9.6	Yes	
424	3102 - Grass	3.0	Yes	-Antrim Gas Well
425	3102 - Grass	2.1	Yes	
430	3102 - Grass	2.0	No	
431	3102 - Grass	2.1	Yes	
435	3303 - Mixed Low Density Trees	3.3	No	
438	3102 - Grass	2.3	No	
441	3303 - Mixed Low Density Trees	1.0	No	
442	3303 - Mixed Low Density Trees	2.4	No	
444	3102 - Grass	1.4	Yes	
446	3102 - Grass	2.2	No	-gas well in stand
448	310 - Herbaceous Openland	3.5	No	
450	310 - Herbaceous Openland	0.6	No	-Antrim Gas Well
451	310 - Herbaceous Openland	1.0	No	
457	3102 - Grass	13.1	Yes	
459	3102 - Grass	1.7	Yes	
475	3301 - Low Density Deciduous Tree	4.2	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
484	3102 - Grass	1.1	No	-Antrim Gas Well
487	3102 - Grass	1.1	No	-Antrim Gas Well
496	310 - Herbaceous Openland	1.3	No	-Antrim Gas Well