



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54137

Entry Year 2017

Acreage: 2,120

County Presque Isle

Management Area: Cheboygan Lake Plain

Revision Date: 2015-06-18

Stand Examiner: Darrick Coy

Legal Description:

T34N, R4E, Sections 5-7 & 18

T35N, R4E, Sections 31 & 32

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 red pine and regenerating oak.

Soil and topography:

The compartment is predominately located on sandy soils. The compartment topography is rolling hills and valleys, some steep slopes.

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

The compartment is surrounded by state land to the west and southeast. Land use in the area comes from recreational users.

Unique Natural Features:

None known to exist.

Archeological, Historical, and Cultural Features:

None known to exist.

Special Management Designations or Considerations:

None known to exist.

Watershed and Fisheries Considerations:

Fisheries Division asks for a riparian buffer of at least 100 feet (no cut or selective cut) along the the Little Ocqueoc River, and to not encourage beaver activity in this trout stream corridor. Much of this watershed has low gradient which is suitable to beaver activity and thus water warming. This river is a designated trout stream and susceptible to beaver activity.

Wildlife Habitat Considerations:

The primary focus of wildlife habitat management will be to address the habitat requirements identified for the listed featured species found in this compartment. These species include ruffed grouse, black bear, and white-tailed deer. Based on the selected featured species, some of the most significant wildlife management issues in the management area are the maintenance of young forest, the retention of large, over-mature trees and snags and the maintenance and expansion of hard mast and mesic conifer components.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 10 and 200 feet. Beneath the glacial drift is the Devonian Traverse Group. The Traverse is quarried for limestone and cement products in Section 18 (Big Cut Quarry). Gravel pits are located in the surrounding area and potential is good on the upland areas. This area is located along the north edge of the Niagaran reef trend and north of the Antrim Shale play. None of the state land is leased for oil and gas development and potential is limited. Aerial images seem to indicate activities associated with Big Cut Quarry in Section 18 (T34N R4E) extend into Section 7. I believe there may be potential trespass in the E½ SE¼ SW¼, Section 7.

Vehicle Access:

Access is fair. The compartment is accessed off of Sorgenfrei Hwy, Plains Hwy, Peltz Road and Walker Road and has many two tracks that provide access to the entire area.

Survey Needs:

Possibly within sections 5 and 31.

Recreational Facilities and Opportunities:

There are many opportunities for hunting, wildlife viewing and mushrooming in the area. A snowmobile trail runs through the compartment in several places.

Fire Protection:

This compartment is located in the protection area of the Onaway DNR and the Rogers City Fire Department located in Rogers City. The Rogers City Fire Department would most likely be first on scene of any fire in the area due to their close proximity. The Onaway DNR has a mutual aid agreement with Rogers City Fire Department, but does not support any GSA equipment.

Additional Compartment Information:

The following reports from the Inventory are attached:

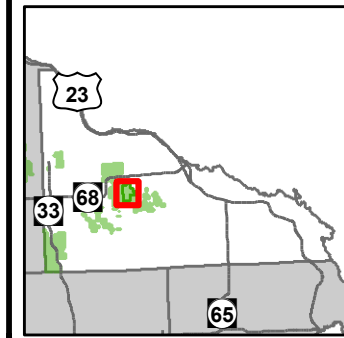
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

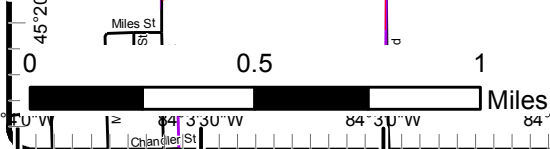
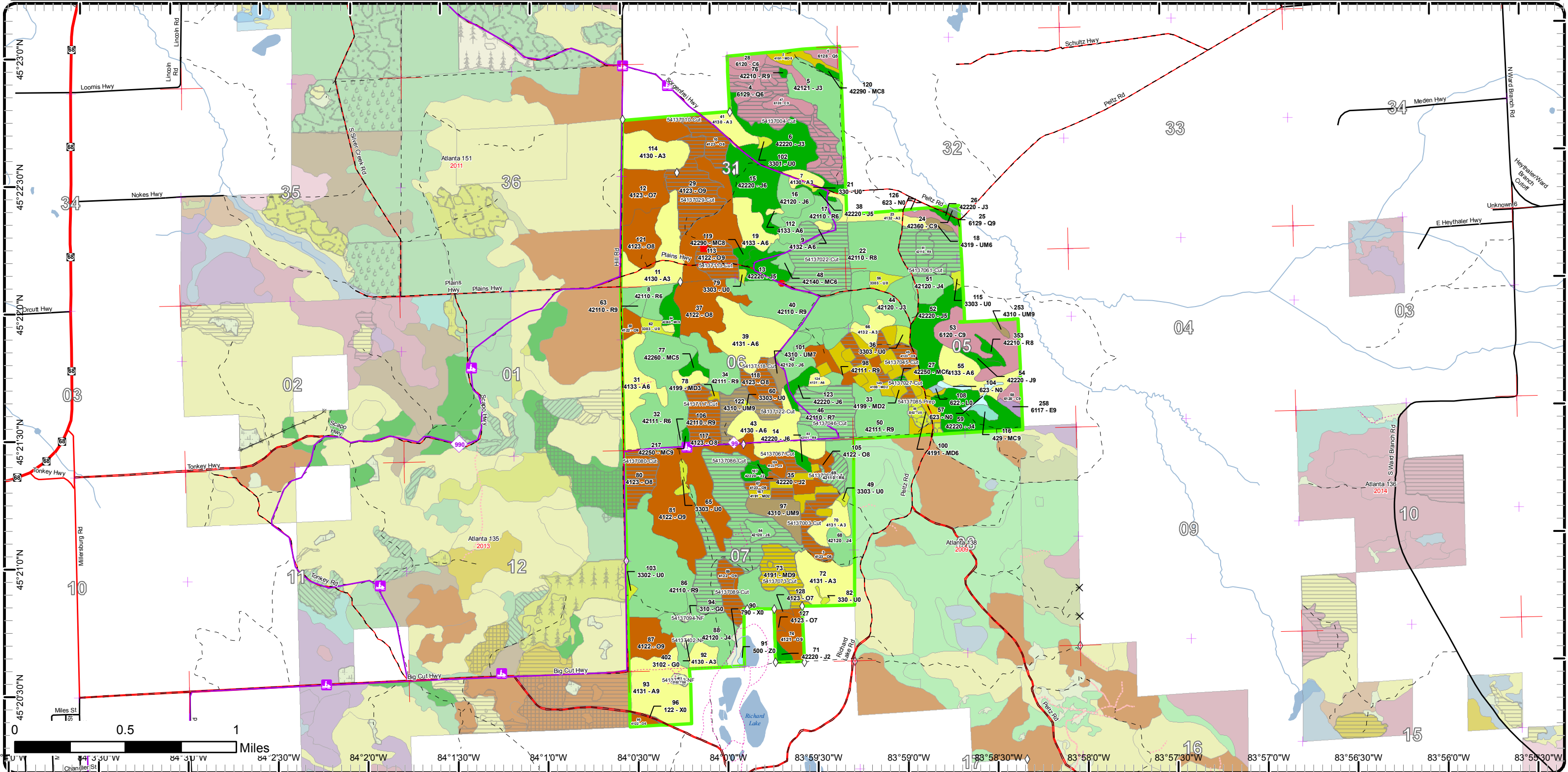
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 137
 T34N, R04E, Sec: 5 - 7, 18
 T35N, R04E, Sec: 31, 32
 County: Presque Isle
 Unit: Atlanta
 Mgmt Area: Cheboygan Lake Plain
 YOE: 2017
 Acres: 2120 GIS Calculated
 Examiner: Darrick Coy
 Map Revised: 9/21/2015
 Map Phase: Post Review

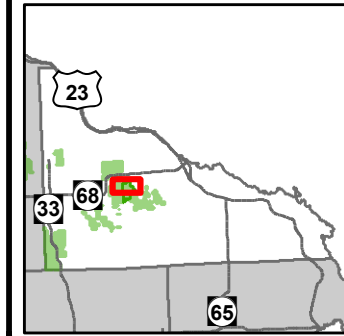


- ✚ Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- ✕ Gate
- Sign
- ⚡ Snowmobile Trails
- Designated Snowmobile Trails
- Rivers
- Lakes
- ⊕ Powerline
- Treatments
- ▨ Site Prep
- ▨ Clearcut (w/Reserves)
- ▨ Other Treatment - See Comments
- ▨ Thinning (Crown, Low, Systematic)
- Forest Covertype
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Covertype
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 790 - Other Bare/Sparse Vegetated

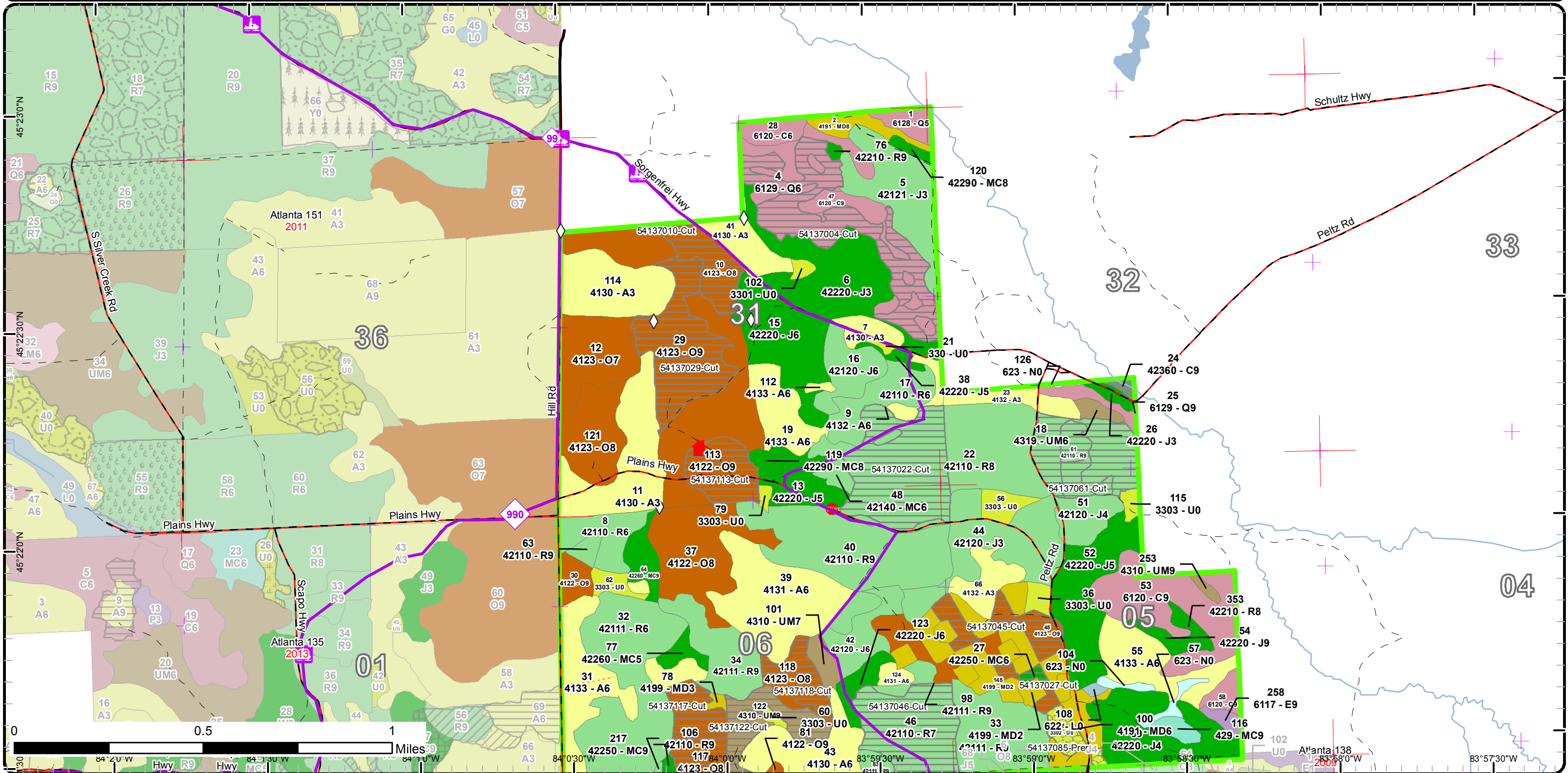


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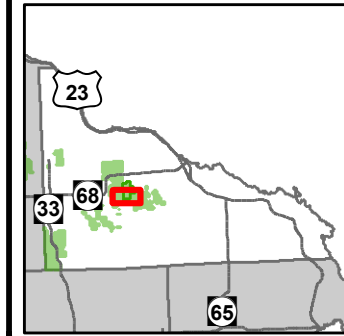


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|---|--|---|
| <ul style="list-style-type: none"> ✚ Remonumented Section Corners ◇ Field Grade GPS Corners — Miris Corners — Paved Roads — County Gravel Roads — Poor Dirt Roads — County Poor Dirt Roads — Trail (Non-Recreation) STOP Sign 🚙 Snowmobile Trails — Designated Snowmobile Trails — Rivers — Lakes ⚡ Powerline | <p>Treatments</p> <ul style="list-style-type: none"> ▨ Site Prep ▨ Clearcut (w/Reserves) <p>Forest Covertype</p> <ul style="list-style-type: none"> 412 - Oak Types 413 - Aspen Types 419 - Mixed Upland Deciduous 421 - Planted Pines 422 - Natural Pines 423 - Other Upland Conifers 429 - Mixed Upland Conifers 430 - Upland Mixed Fores 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest | <p>Non-Forest Covertype</p> <ul style="list-style-type: none"> 330 - Low Density Trees 622 - Lowland Shrub 623 - Emergent Wetland |
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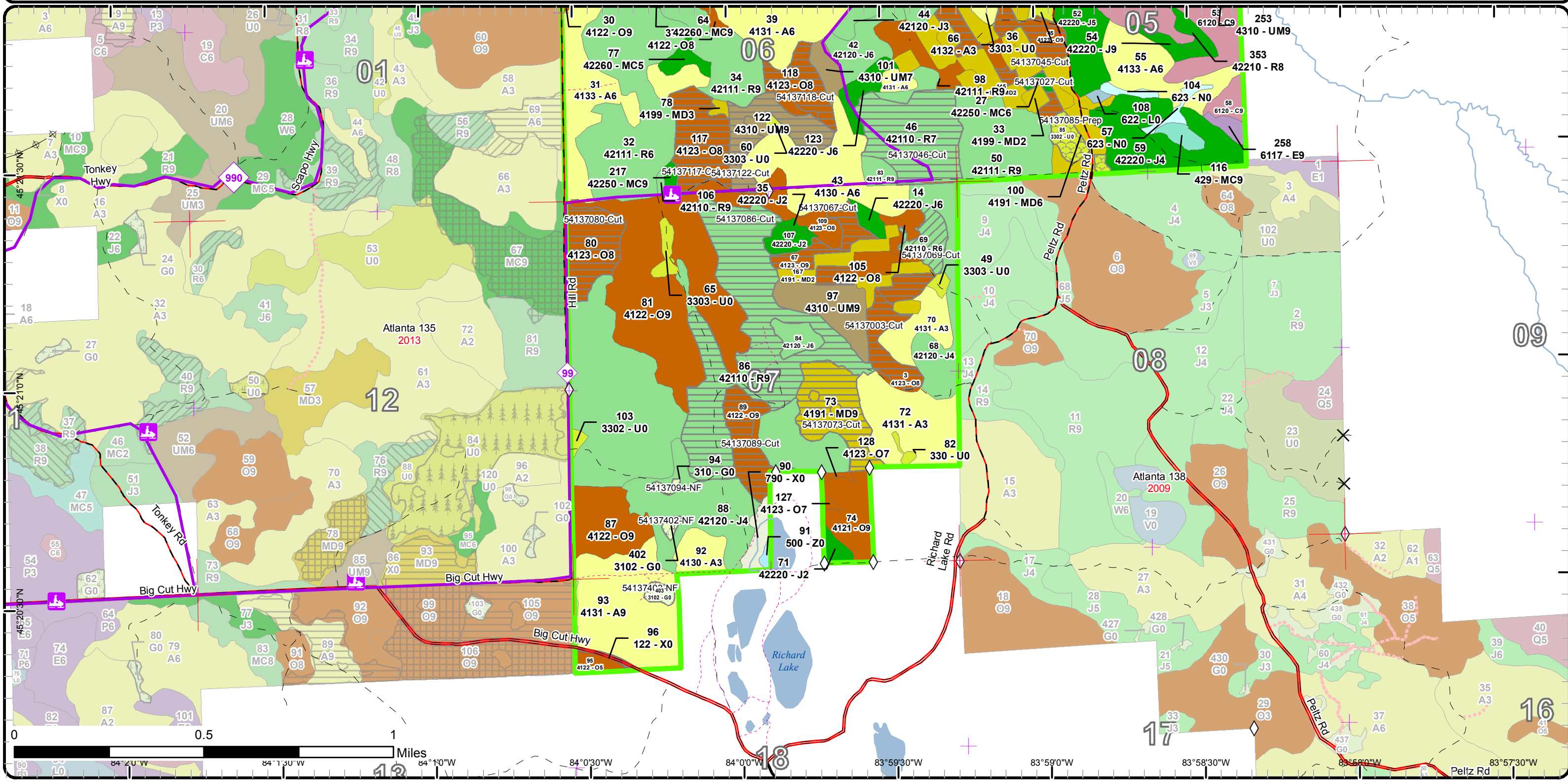


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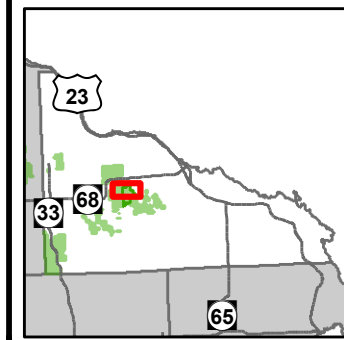


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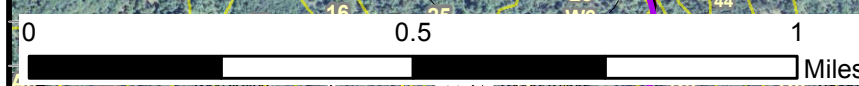
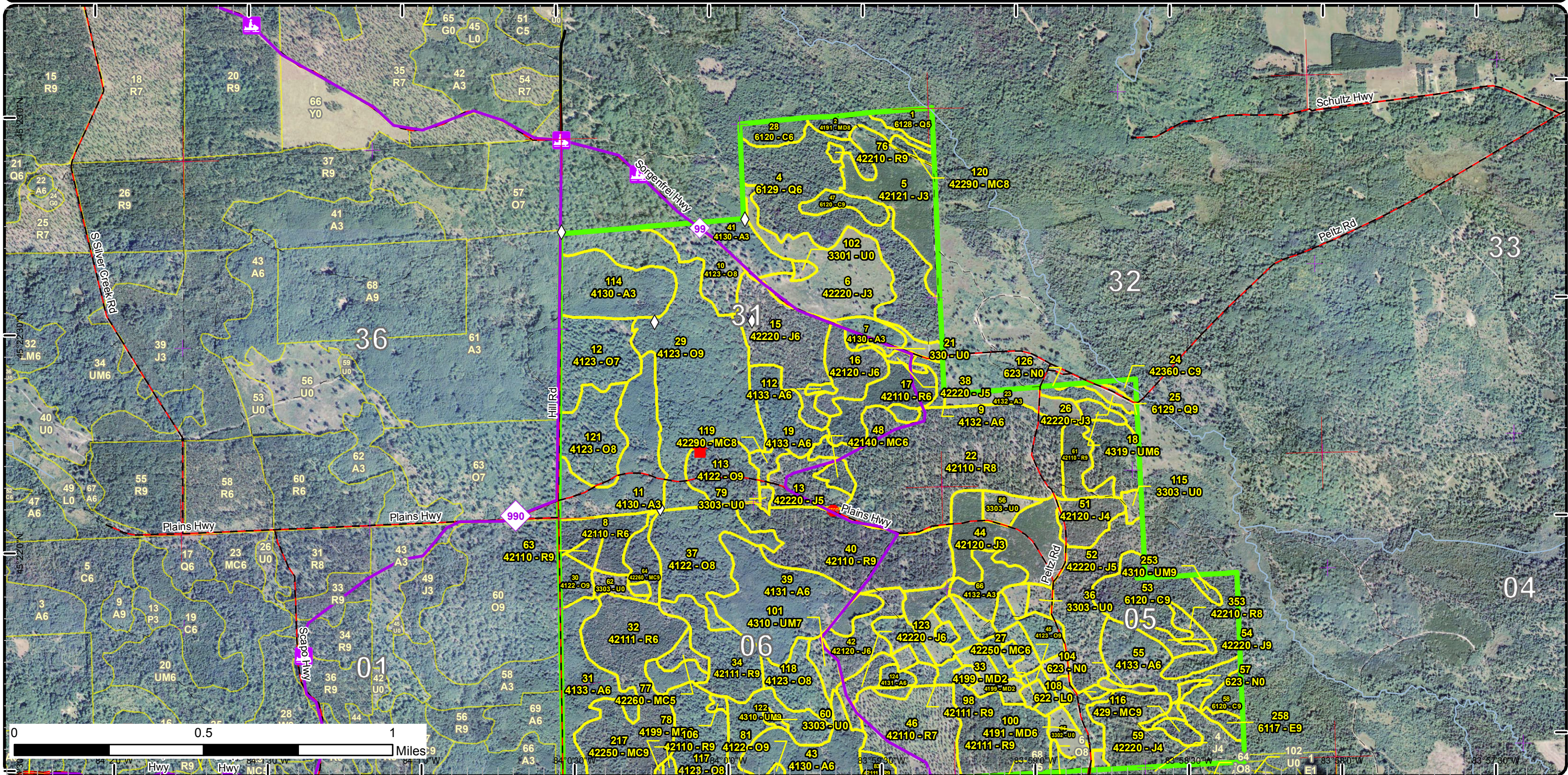


Stand Boundary Map

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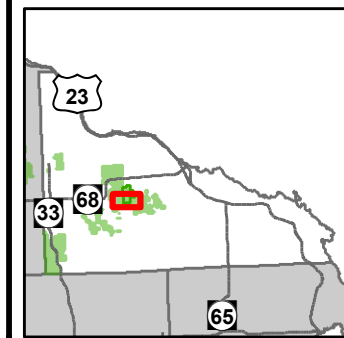
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|------|------------------------------|----------------------|---------------------------------|
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| ▭ | Stand Boundaries | | |



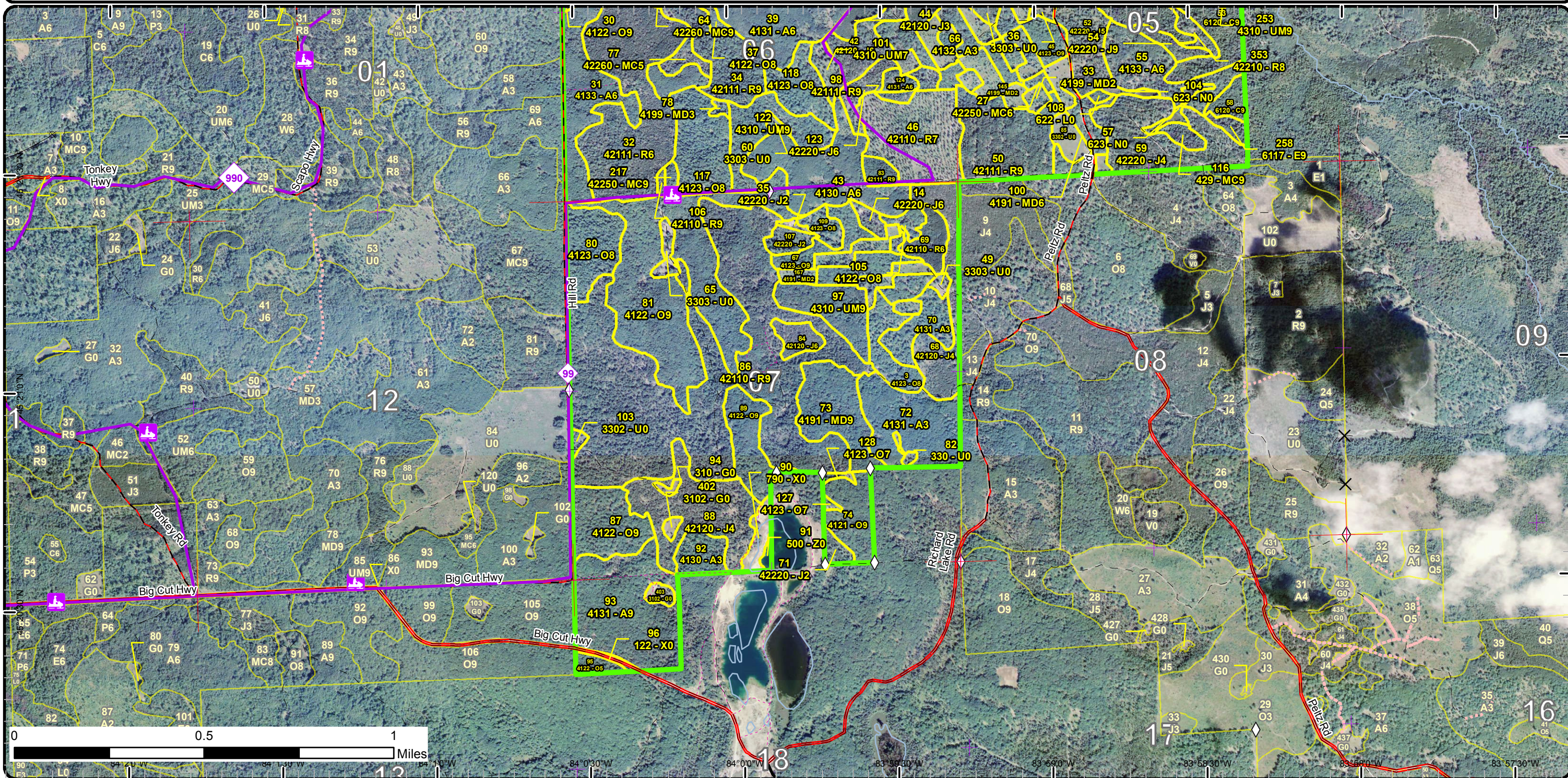
Map coordinates: 45° 23' 00" N, 84° 03' 00" W, 83° 59' 30" W, 83° 58' 30" W, 83° 57' 30" W

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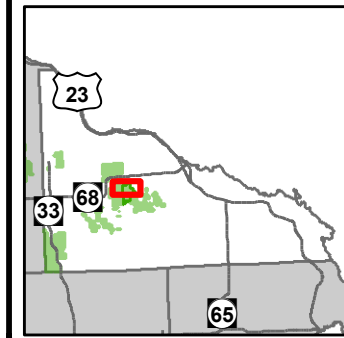


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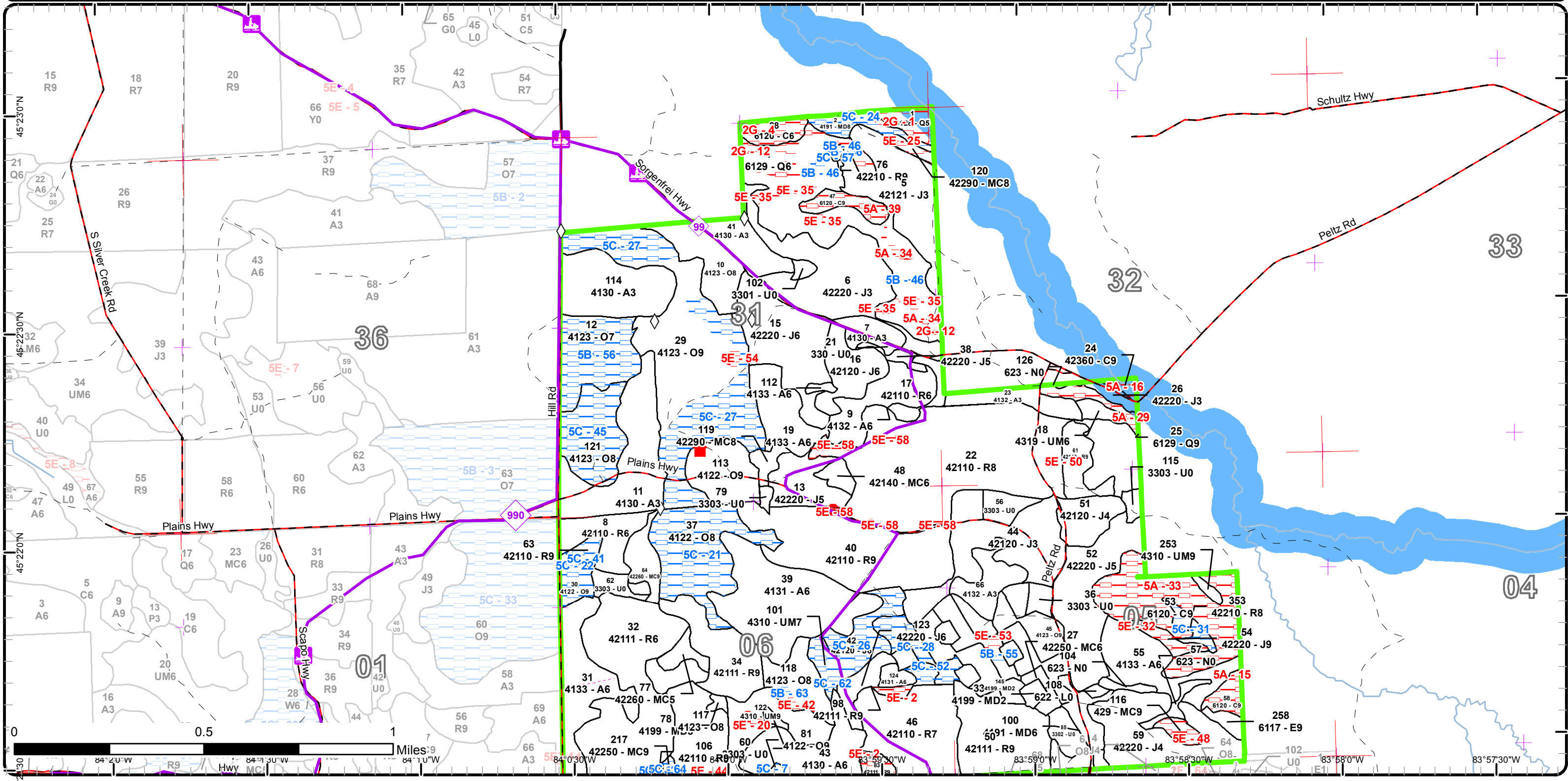


Special Conservation Areas & Site Conditions Map

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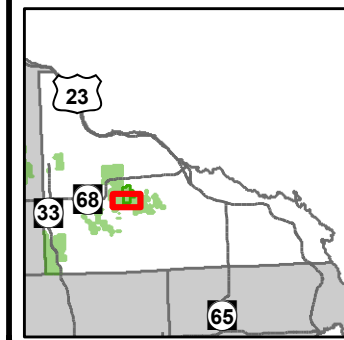


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 - Stand Boundaries
- Site Condition**
- Available w/ Constraints
 - Unavailable
- Available Factors W/ Constraints**
- 5B: Maintain for regeneration purposes
 - 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors**
- 2G: Too wet (sensitive soils, does not include access issues)
 - 5A: Not able to obtain desirable regeneration
 - 5E: Long-Term Retention
- Cold Water Streams
 - High Priority Trout Stream Buffer

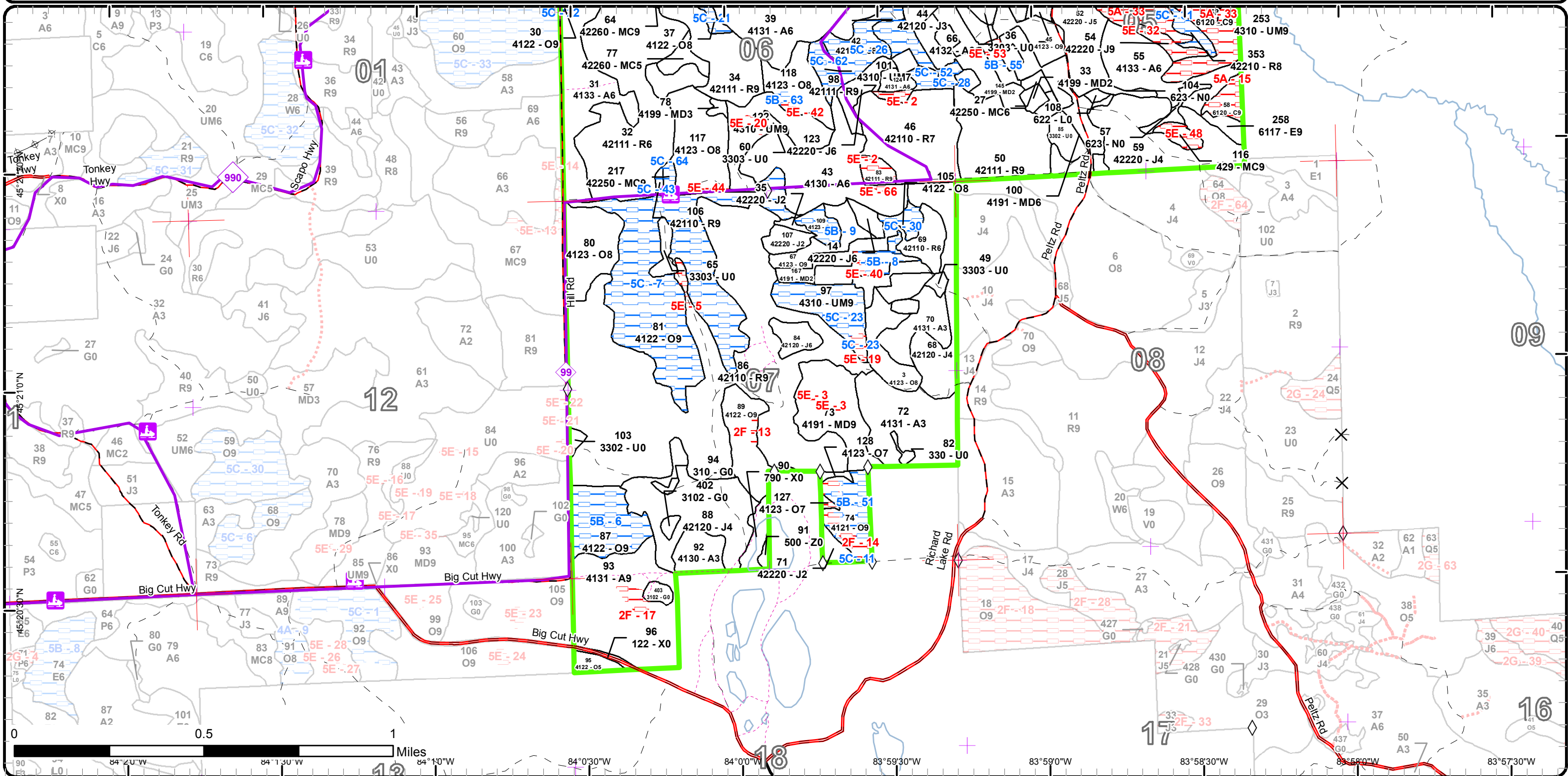


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- ▭ Stand Boundaries
- Site Condition
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints**
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors**
- 2F: Too steep
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention



Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit
Darrick Coy : Examiner

Compartment 137 Year of Entry 2017



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	10	51	148	159	0	0	0	0	0	0	0	0	0	0	0	0	0	368
Bare/Sparsely Vegetated	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Cedar	0	0	0	0	0	0	0	0	0	0	0	13	45	2	0	0	0	0	60
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Jack Pine	0	45	83	33	154	0	29	14	0	4	0	0	0	0	0	0	0	0	362
Low-Density Trees	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Lowland Conifers	0	0	0	0	0	0	6	0	64	0	0	5	0	0	0	0	0	0	75
Lowland Deciduous	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	41	10	0	11	0	0	0	0	31	0	0	0	0	0	0	0	0	93
Natural Mixed Pines	0	0	0	0	4	0	0	8	0	9	0	0	0	0	0	0	0	0	21
Oak	0	0	0	0	0	0	0	0	23	364	95	0	0	0	0	0	0	0	482
Planted Mixed Pines	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Red Pine	0	0	0	94	0	0	8	0	447	1	0	4	0	0	0	0	0	0	554
Upland Conifers	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	0	0	3	0	1	0	0	40	0	0	0	0	0	0	0	0	44
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	51	96	144	275	334	0	44	22	534	455	95	22	45	2	0	0	0	0	2119



Report 2 – Treatment Summary

Atlanta Mgt. Unit
Year of Entry: 2017

Acres of Harvest

Compartment 137
Total Compartment Acres: 2,120

Commercial Harvest - 473
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Conifers	45	0	0	0	0	0	0	0	0	45
Mixed Upland Deciduous	23	0	0	0	0	0	0	0	0	23
Natural Mixed Pines	2	0	0	0	0	0	0	0	0	2
Oak	183	0	0	0	0	0	0	0	0	183
Red Pine	196	0	0	0	8	0	0	0	0	204
Upland Mixed Forest	17	0	0	0	0	0	0	0	0	17
Total	465	0	0	0	8	0	0	0	0	473

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	473	6	0	0	0	0	0	4	0	484
Next Step	0	311	238	0	0	219	745	0	0	1512
Total	473	317	238	0	0	219	745	0	4	1996



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
3	54137003-Cut	10.6	4123 - Red Oak	Sawtimber Medium	88	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary

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

Specs:
 -leave 2-3 rp and/or oak (hollow den and/or mast) per 3-5 acres in clumps or individuals
 -leave all wp
 -leave 3-7% in area retention
 -survey regeneration early
 -require whole tree skidding and don't protect advanced rm and aspen regeneration
 -rollerchop stand post-harvest, if needed, to knock down deciduous competition

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Roller Chopping

Treatments:

Acceptable Regen: -rp, wp, jp, oak, rm, and aspen of medium to full stocking

Other

-all but oak was cut out in '98 Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

4	54137004-Cut	45.2	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	78	81-110	Harvest	Clearcut with Retention	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription -clearcut

Specs:
 -leave all rp, oak, and wp (most are super canopy and will remain standing) to seed in areas after cut, help with drainage, and provide horizontal and vertical structure
 -protect areas that are being left for regeneration purposes (seeding) or excessively wet and heavy to cedar with a green (interior) or red (exterior) boundary line (see site conditions layer)
 -require harvesting outside of Spring
 -require the use of lowland approved equipment utilizing tracks, flotation tires, etc.
 -offer sale as 3 year contract

Next StepTreatments:

Acceptable Regen: -rm, fir, spruce, jp, rp, wp, ash, tamarack, aspen, and cedar of medium to full stocking

Other

-will likely need to flag in/create a new road through stands 41, 6, or 5 for trucks and logging equipment to gain access

Comment: -suggest using stand 5 for if harvesting is done in Winter to avoid conflicts with the snowmobile trail Old next step comments:

Proposed Start Date: 10/1 /2016

10	54137010-Cut	16.5	4123 - Red Oak	Sawtimber Medium	86	1-50	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription -clearcut

Specs:
 -leave 2-3 rp and/or oak (hollow den and/or mast) per 3-5 acres in clumps or individuals
 -leave all wp
 -leave 3-7% in area retention
 -survey regeneration early
 -require whole tree skidding and don't protect advanced rm and aspen regeneration
 -rollerchop stand post-harvest, if needed, to knock down deciduous competition
 -protect snowmobile trail in timber sale specifications

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Roller Chopping

Treatments:

Acceptable Regen: -rp, wp, jp, oak, rm, and aspen of medium to full stocking

Other

Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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
22	54137022-Cut	70.7	42110 - Planted Red Pine	Sawtimber Medium	76	51-80	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Suggested Management Follow-up:

Specs:

- Do not initiate scarification or further monitoring follow-ups and change cover type objective to artificial rp
- clearcut (partial stand harvest)
- leave area retention along snowmobile trail (already excluded- see site conditions layer)
- require chipping of tops
- trench and replant to rp
- may need a release spray
- protect snowmobile trail in timber sale specifications

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial Regen(3yr)Treatments:Acceptable -well stocked rp with minor wp, jp, oak, rm, and aspen associatesRegen:Other -previous treatment for natural rp failed (low deciduous competition with low to no natural rp establishment)Comment: -scarification follow-up was never submitted or completed Old next step comments:Proposed Start Date: 10/1 /2016

27	54137027-Cut	1.6	42250 - Pine, Oak	Poletimber Well	88	81-110	Harvest	Clearcut	42260 - Natural Pine, Mixed Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription -clearcut

Specs:

- may need planting to rp
- no retention due to potential need to artificially regenerate

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, ArtificialTreatments: Regen(3yr)Acceptable -a mix of oak, pine, aspen, and rm of low to full stockingRegen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016

29	54137029-Cut	37.2	4123 - Red Oak	Sawtimber Well	87	81-110	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription -clearcut (partial stand harvest)

Specs:

- leave all wp
- 3-10% area retention
- leave some area retention around significant mast oak with advanced wp (already excluded- see site conditions layer)
- leave 2-3 rp and/or oak (hollow den and/or mast) per 3-5 acres in clumps or individuals
- select unsurpressed rp to leave as seed source

Next StepTreatments:Acceptable -oak, pine, and minor associates of rm and aspen of medium to full stockingRegen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
45	54137045-Cut	17.1	4123 - Red Oak	Sawtimber Well	89	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary

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

Specs: -leave 2-3 oak, rp, or wp per 3-5 acres to seed in low stocked areas over time
 -leave area retention for adv. wp pocket with wp >26 inches (already excluded- see site conditions layer)
 -protect trees over 26" dbh

Next StepTreatments:Acceptable -a mix of rm, oak, aspen and pine of medium to full stockingRegen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016

46	54137046-Cut	35.0	42110 - Planted Red Pine	Sawtimber Poor	76	1-50	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Suggested Management Follow-up:

Specs: -Do not initiate scarification or further monitoring follow-ups and change cover type objective to artificial rp
 -clearcut
 -no area retention necessary (already excluded- see site conditions layer)
 -require chipping of tops
 -trench and replant to rp
 -may need a release spray
 -protect snowmobile trail in timber sale specifications

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial Regen(3yr)Treatments:Acceptable -well stocked rp with minor wp, jp, oak, rm, and aspen associatesRegen:Other -previous treatment for natural rp failed (low deciduous competition with low to no natural rp establishment)Comment: -scarification follow-up was never submitted or completed Old next step comments:Proposed Start Date: 10/1 /2016

61	54137061-Cut	9.5	42110 - Planted Red Pine	Sawtimber Well	76	201+	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription -clearcut

Specs: -leave 3-7% area retention in areas of least density or greatest live crown (already excluded- see site conditions layer)
 -require chipping of tops
 -trench and replant to rp
 -may need a release spray

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial Regen(3yr)Treatments:Acceptable -well stocked rp with minor jp, wp, oak, rm, and aspen associatesRegen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016



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
67	54137067-Cut	16.6	4123 - Red Oak	Sawtimber Well	89	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary

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

Specs:
 -leave 2-3 rp and/or oak (hollow den and/or mast) per 3-5 acres in clumps or individuals
 -leave all wp
 -area retention already excluded (see site conditions layer)

Next StepTreatments:Acceptable -rp, wp, jp, oak, rm, and aspen of medium to full stockingRegen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016

69	54137069-Cut	8.1	42110 - Planted Red Pine	Poletimber Well	52	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription -3rd row thin

Specs:
 -mark stand (rows are defined but change directions and are too narrow in places)

Next StepTreatments:AcceptableRegen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016

73	54137073-Cut	22.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	80	111- 140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription -clearcut

Specs:
 -leave 2-4 oak (hollow/den and/or mast) and/or pine in clumps every 1-2 acres to fill in and regenerate areas heavier to pine
 -area retention already excluded for areas with significant advanced pine regeneration (see site conditions layer)
 -survey regeneration early

Next StepTreatments:Acceptable -rp, wp, jp, oak, rm, and aspen of medium to full stockingRegen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016



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
80	54137080-Cut	18.7	4123 - Red Oak	Sawtimber Medium	94	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription -clearcut

- Specs:
- leave 2-3 rp and/or oak (hollow den and/or mast) per 3-5 acres in clumps or individuals
 - leave all wp
 - leave 3-7% in area retention
 - survey regeneration early
 - require whole tree skidding and don't protect advanced rm and aspen regeneration
 - rollerchop stand post-harvest, if needed, to knock down deciduous competition
 - protect snowmobile trail in timber sale specifications

Next Step SitePrep, Roller Chopping; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: -a mix of rp, wp, jp, oak, rm, and aspen of medium to full stocking is expected

Other Comment: -all aspen and rm was cut out 16 years ago Old next step comments:

Proposed Start Date: 10/1 /2016

85	54137085- Prep	6.3	3302 - Low Density Conifer Trees	Nonstocked	0	Unspec ified	SitePrep	Trenching	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription -trench for rp planting

- Specs:
- delay treatment (treat with other artificial plantings to be completed within the compartment)

Next Step Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Regen: -well stocked rp with minor wp, jp, oak, rm, and aspen associates

Other Comment: -part of parent stand 145 that failed to regenerate from 07/23/09 5 spot cut Old next step comments:

Proposed Start Date: 10/1 /2018

86	54137086-Cut	80.5	42110 - Planted Red Pine	Sawtimber Well	75	111- 140	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription -clearcut

- Specs:
- use 2" spec
 - protect trees over 26" located during sale prep with area retention
 - 3-5% area retention (areas of steep terrain) (some already excluded to NW- see site conditions layer)
 - require chipping of tops
 - trench and replant to rp
 - may need a release spray

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

Treatments:

Acceptable Regen: -well stocked rp with minor wp, jp, oak, rm, and aspen associates

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016



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
89	54137089-Cut	15.1	4122 - Oak, Pine	Sawtimber Well	82	111- 140	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription -clearcutSpecs:
-area retention already excluded for steep area (see site conditions layer)
-survey regeneration earlyNext StepTreatments:Acceptable -rp, wp, jp, oak, rm, and aspen of medium to full stockingRegen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016

94	54137094-NF	0.9	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows.Specs:Next StepTreatments:AcceptableRegen:Other Old next step comments:Comment:Proposed Start Date: 5 /1 /2015

113	54137113-Cut	17.2	4122 - Oak, Pine	Sawtimber Well	91	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription -clearcutSpecs:
-leave 3-10% in area retention
-leave any significant rp, wp, or cavity oak not to exceed 3 per 3-5 acres
-protect sap pine in specs but do not require shortwood, should be able to skid around most pockets
-regen survey early
-if needed, trench and plant significant areas that do not meet stocking requirements to rpNext Step Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, ArtificialTreatments: Regen(3yr)Acceptable -a mix of rm, oak, aspen and pine of medium to full stockingRegen: -as a back-up plan- regenerate area(s) to artificial RP using mechanical and chemical means if regeneration stocking is lowOther Old next step comments:Comment:Proposed Start Date: 10/1 /2016



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
117	54137117-Cut	21.7	4123 - Red Oak	Sawtimber Medium	91	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription -clearcut

- Specs:
- leave 2-3 rp and/or oak (hollow den and/or mast) per 3-5 acres in clumps or individuals
 - leave all wp
 - leave 3-10% in area retention (already excluded along trail)
 - survey regeneration early
 - require whole tree skidding and don't protect advanced rm and aspen regeneration
 - rollerchop stand post-harvest, if needed, to knock down deciduous competition
 - protect snowmobile trail in timber sale specifications

Next Step SitePrep, Roller Chopping; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: -a mix of rm, oak, aspen and pine of medium to full stocking

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016

118	54137118-Cut	12.1	4123 - Red Oak	Sawtimber Medium	91	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription -clearcut

- Specs:
- leave 2-3 rp and/or oak (hollow den and/or mast) per 3-5 acres in clumps or individuals
 - leave all wp
 - leave area retention and retention for regeneration purposes for areas with low overstory coverage and significant advanced regeneration (already excluded- see site conditions)
 - survey regeneration early
 - require whole tree skidding and don't protect advanced rm and aspen regeneration
 - rollerchop stand post-harvest, if needed, to knock down deciduous competition
 - protect snowmobile trail in timber sale specifications

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Roller Chopping

Treatments:

Acceptable Regen: -a mix of rm, oak, aspen and pine of medium to full stocking is expected

Other Comment: -will be mixed cover type objective due to past treatment creating more rm and aspen stems vs oak
-landing/access from NE Old next step comments:

Proposed Start Date: 10/1 /2016

122	54137122-Cut	16.8	4310 - Pine, Oak Mix	Sawtimber Well	89	111-140	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription -clearcut

- Specs:
- use 3-10% area retention to protect legacy trees (already excluded)
 - protect recreational trail within sale specs
 - survey regeneration early

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial

Treatments:

Acceptable Regen: -a mix of oak, rp, aspen, and wp of medium to full stocking

Other Comment: -as a back-up plan- regenerate area(s) to artificial RP using mechanical and chemical means if regeneration stocking is low

Other Comment: Old next step comments:

Proposed Start Date: 10/1 /2016



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
402	54137402-NF	1.3	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 5 /1 /2015

403	54137403-NF	2.3	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Plant to food and cover crops for wildlife or maintain grasses using mechanical methods or fire as funding allows.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 5 /1 /2015

**Total Treatment
Acreage Proposed: 483.7**

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Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5B	5C	2F	2G	5A	5E	
367	363	0	4	Aspen		0	3				1
5	5	0	0	Bare/Sparsely Vegetated							
60	0	0	60	Cedar				6	53		
4	4	0	0	Herbaceous Openland							
361	343	14	4	Jack Pine	0	14			0	4	
34	34	0	0	Low-Density Trees		0					0
75	46	1	28	Lowland Conifers	1	0		17	7	4	
3	3	0	0	Lowland Deciduous							
1	1	0	0	Lowland Shrub							
5	5	0	0	Marsh							
93	85	7	1	Mixed Upland Deciduous		7		0			1
21	18	2	2	Natural Mixed Pines		2					2
482	190	278	13	Oak	65	213	7				6
3	3	0	0	Planted Mixed Pines							
554	529	11	13	Red Pine		11		0	0	13	
3	0	0	3	Upland Conifers							3
45	22	20	3	Upland Mixed Forest		20					3
1	1	0	0	Urban							
1	1	0	0	Water							
2,120	1,655	333	132	Total Forested Acres	67	267	10	24	60	38	
	78%	16%	6%	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)	7	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

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2	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 46 treatment							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: stand 86 area retention							
6	Available	5B: Maintain for regeneration purposes	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -many of the oak are mast and/or hollow							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	84	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5B: Maintain for regeneration purposes	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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9	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5B: Maintain for regeneration purposes	0	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2F: Too steep	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 89							
14	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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15	Unavailable	5A: Not able to obtain desirable regeneration	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5A: Not able to obtain desirable regeneration	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention containing many RP legacy trees							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 5							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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29	Unavailable	5A: Not able to obtain desirable regeneration	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -leave as area retention for past jp in stands 52, 55, and 59							
33	Unavailable	5A: Not able to obtain desirable regeneration	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	5A: Not able to obtain desirable regeneration	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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35	Unavailable	5E: Long-Term Retention	4	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	5A: Not able to obtain desirable regeneration	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 118							
43	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 117							

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45	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
46	Available	5B: Maintain for regeneration purposes	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
48	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -retention for stand 59							
50	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Available	5B: Maintain for regeneration purposes	9	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: Shelterwood/Seed Source							
52	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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53	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 145							
54	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 29							
55	Available	5B: Maintain for regeneration purposes	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -significant wp establishment under oak							
56	Available	5B: Maintain for regeneration purposes	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
57	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
58	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -area retention for stand 22							
62	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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Atlanta Mgt. Unit
Darrick Coy : Examiner

Compartment: 137
Year of Entry: 2017

63	Available	5B: Maintain for regeneration purposes	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
64	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
66	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -leave for stand 43 retention							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 6 – 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 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	6.1	54	81-110	-steep ridge to W edge of stand-variable canopy-fir considerably younger than cedar
2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	7.1	82	51-80	-more RP to NW and more aspen to SE-significant WP sapling establishment throughout SE-rolling hills, steep along lowland to SE
3	4123 - Red Oak	Sawtimber Medium	11.5	88	51-80	-T2-98OPIC - FMD: Oak was left when stand was cut.
4	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	64.1	78	81-110	
5	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	31.7	14	Immature	-cut completed 1/2000-cut volume- aspen 4%, oak 4%, jp 82%, rp 8%, & spruce 2%-C54-108-jp plantation, completed 5/2000-direct seed-furrow, JD 740 Skidder w/Sigma Seeder
6	42220 - Natural Jack Pine	Sapling Well	42.3	7	Immature	-cc completed 12/10/07, 54-030-07-01 -cut all aspen, jp, and rm -cut vol.- BTA 17%, JP 82%, RM 1% -natural, no planting record OPIC - FMD: Leave Red Pine, Protect Stand 104 during Harvest operations. Scattered balsam, spruce, oak. This stand should naturally regenerate back to jack pine and aspen. If natural regeneration fails stand will be artificially planted
7	4130 - Aspen	Sapling Well	6.3	16	Immature	-1 acre area south of road is 36 years old -area north of road is 16 years old -areas were merged together due to mapping rules and treated as inclusions
8	42110 - Planted Red Pine	Poletimber Well	13.9	29	Immature	-T142-77A -cut all jp, apen, rp, wp, rm, and unmarked oak, completed 1/6/81 -cut vol.= 48% JP, 23% RO, 15% BTA, RP 12%, WP 1%, & RM 1% -C54-03-20 -machine planting completed to rp 05/85
9	4132 - Aspen, Jack Pine	Poletimber Well	4.6	35	51-80	
10	4123 - Red Oak	Sawtimber Medium	16.5	86	1-50	-species thinned in 1999, removed aspen -aspen regen is poor to moderate in most places -PARVHa site
11	4130 - Aspen	Sapling Well	35.7	25	51-80	-54-009-87-01 -cut all trees except protected aspen saplings to 4 inches, completed 05/31/88 -cut vol.= 22% BTA, 52% RO, 19% Mixed Pine, 2% RP, RM 5% -primarily aspen now



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
12	4123 - Red Oak	Sawtimber Poor	25.3	81	1-50	-a lot of oak are showing significant crown die back in main stem from top down due to overexposure from past cutting -a lot of oaks left had weak crowns before harvest -most regeneration has enough sunlight despite overstory oak
13	42220 - Natural Jack Pine	Poletimber Medium	14.0	34	51-80	-T145-77A -cut all jp, apen, and oak, completed 11/14/79 -cut vol.= 86% JP, 6% RO, 8% BTA -oak came up fairly well with aspen in some areas -rp is about 10-20 BA throughout -minor strips of scotch pine planted along west 2-track
14	42220 - Natural Jack Pine	Poletimber Well	3.1	53	81-110	-jp appears to be natural origin
15	42220 - Natural Jack Pine	Poletimber Well	33.3	34	51-80	OPIC - FMD: open grown jack pine -T145-77A -cut all jp, apen, and oak, completed 11/14/79 -cut vol.= 86% JP, 6% RO, 8% BTA
16	42120 - Planted Jack Pine	Poletimber Well	14.9	53	81-110	-C54-108 -jp plantation, completed 5/24/62 -machine planted with Oliver AG & Kilifer Plow
17	42110 - Planted Red Pine	Poletimber Well	17.7	29	81-110	-T145-77A -cut all jp, apen, and oak, completed 11/14/79 -cut vol.= 86% JP, 6% RO, 8% BTA -C-54-319 -machine planting complete 5/21/85 -more log RP & WP overstory to SW
18	4319 - Mixed Upland Forest	Poletimber Well	3.1	37	51-80	-was previously cut
19	4133 - Aspen, Mixed Pine	Poletimber Well	16.8	35	51-80	-T145-77A-cut all jp, apen, and oak, completed 11/14/79-cut vol.= 86% JP, 6% RO, 8% BTA-oak came up fairly well with aspen in some areas-rp is about 20-40 BA throughout
22	42110 - Planted Red Pine	Sawtimber Medium	112.8	76	51-80	-Planted to RP/JP in 1939, 50-60ft tall, low end rp, semi-open stand, spotty reindeer moss-Shelterwood/thin completed 11/18/09, res BA 60-cut all jp, aspen, and marked rp-cut vol.- 91% rp, 5% aspen, & 4% jp-FTP- C54-867-aspen and jp cut out in 8/1/88
23	4132 - Aspen, Jack Pine	Sapling Well	9.8	5	Immature	-cc completed 5/25/10 -cut all trees -cut vol.- BTA 34%, RP 12%, JP 39%, Oak 6%, RM 5%, WP 5% OPIC - FMD: Need survey corners. Areas of Jack Pine and U type. Aspen/Red Maple/Pine mix is acceptable for regen. Stand cut in 2008. #54-034-07-01 PELTZ POPPLE JACK.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	42360 - Upland Cedar	Sawtimber Well	1.8	123	171-200	-Fisheries Division asks for a riparian buffer of at least 100 feet (no cut or selective cut) along the river, and to not encourage beaver activity in this trout stream corridor. Much of this watershed has low gradient which is suitable to beaver activity and thus water warming. This river is a designated trout stream and susceptible to beaver activity-survey corner is in stand but across stream
25	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	5.0	105	141-170	
26	42220 - Natural Jack Pine	Sapling Well	2.9	7	Immature	-cc completed 12/10/07, 54-030-07-01 -cut all aspen, jp, and rm -cut vol.- BTA 17%, JP 82%, RM 1% -FTP- C64-861 -planted 5/2009? OPIC - FMD: Stand 26 is scheduled for a final harvest along the Little Ocqueoc River (comments: buffer river). Fisheries Division asks for a riparian buffer of at least 100 feet (no cut or selective cut) along the river, and to not encourage beaver activity in this trout stream corridor. Much of this watershed has low gradient which is suitable to beaver activity and thus water warming. This river is a designated trout stream and susceptible to beaver activity.
27	42250 - Pine, Oak	Poletimber Well	1.6	88	81-110	-T39-72 -cut all aspen and rm and marked RP, completed 11/21/72 -cut vol.= 60% BTA, 40% RP OPIC - FMD: Started Five Spots in 1999. Take half of remaining acreage this entry (3 Spot). No cut red and white pine 6" dbh and smaller. Oak/pine/aspens/red maple mix is acceptable regen.---second cut of five spot oak cut completed 5/30/2008---Peltz 5 Plus 54-029-07-01---created new stand 145 for cut area which is 28 acres and deleted 28 acres from stand 45---next cut in 10 yrs will be the final harvest
28	6120 - Lowland Cedar	Poletimber Well	6.5	105	201+	-standing water in places -growth is more stagnant than cedar stand to south, smaller diameters -subcanopy is unoccupied
29	4123 - Red Oak	Sawtimber Well	90.3	87	81-110	-majority of this stand was recently acquired -oak starting to show fairly significant crown dieback along main stem from top down -found 2 deer blinds within stand -no past thinnings evident in private portion -vha site
30	4122 - Oak, Pine	Sawtimber Well	6.1	87	81-110	-planting record to RPJP 1938 -rp partially suppressed throughout -rp appears to have been planted under oak -natural pine are slowly coming in under oak
31	4133 - Aspen, Mixed Pine	Poletimber Well	35.3	34	81-110	-T142-77A -cut all jp, apen, rp, wp, rm, and unmarked oak, completed 1/6/81 -cut vol.= 48% JP, 23% RO, 15% BTA, RP 12%, WP 1%, & RM 1% OPIC - FMD: mix of aspen, oak, jack pine and red pine



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	62.8	29	81-110	-T142-77A -cut all jp, apen, rp, wp, rm, and unmarked oak, completed 1/6/81 -cut vol.= 48% JP, 23% RO, 15% BTA, RP 12%, WP 1%, & RM 1% -C54-03-20 -machine planting completed to rp 05/85 -some older rp mixed in throughout
33	4199 - Other Mixed Upland Deciduous	Sapling Medium	9.0	14	Immature	-five spot cut completed 10/25/99, 54-035-97-01 -cut all trees -cut vol.- 71% oak, 23% aspen, 5% rp, 1% rm -Oak/pine/aspen/red maple mix is acceptable regen
34	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	21.9	75	111-140	-planting record to RPJP 1939 -rm coverage on the high end (40-60%) -variable success with planting due to oak present -rows exist in some areas
35	42220 - Natural Jack Pine	Sapling Medium	1.0	14	1-50	-cut all trees, completed 1/4/00-cut closed in 2000, 5 acre portion to NE was cut as well, more oak in overstory though-says cut all trees but NE has quite a bit left on site-cut vol.- 50-50 mix of JP and RP
37	4122 - Oak, Pine	Sawtimber Medium	35.5	88	1-50	-T2-98 -stand was species thinned last entry, 2001 -some aspen not cut in NE 1/2
38	42220 - Natural Jack Pine	Poletimber Medium	2.3	34	1-50	
39	4131 - Aspen, Oak	Poletimber Well	42.8	27	51-80	-54-011-87-01 -cut all trees, completed 6/24/88 -cut vol.= 60% BTA, 29% RO, 9% Mixed Pine, 2% RP -oak came up well with aspen, have about the same amount present vs what was cut
40	42110 - Planted Red Pine	Sawtimber Well	53.5	76	111-140	-planting record to RPJP 1938-cut all trees except oak and rp-cut vol.- 92% jp & 8% aspen OPIC - FMD: Stand was thinned 1999. Sept 15, 1999 Nelson Nedwash passed away while thinning stand.
41	4130 - Aspen	Sapling Well	12.3	15	1-50	-species thinned in 1999, removed aspen
42	42120 - Planted Jack Pine	Poletimber Well	13.7	62	81-110	-appears to have been planted -at least 20 years older than jp to adjacent south which was cut 30-40 yrs ago
43	4130 - Aspen	Poletimber Well	37.6	25	51-80	-54-011-87-01 -cut all trees, completed 6/24/88 -cut vol.= 60% BTA, 29% RO, 9% Mixed Pine, 2% RP



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	42120 - Planted Jack Pine	Sapling Well	41.9	14	1-50	-cut completed 1/2000-cut volume- aspen 4%, oak 4%, jp 82%, rp 8%, & spruce 2%-scattered cherry-C54-108-jp plantation, completed 5/2000-direct seed-furrow, JD 740 Skidder w/Sigma Seeder
45	4123 - Red Oak	Sawtimber Well	27.6	89	81-110	-T39-72-cut all aspen and rm and marked RP, completed 11/21/72-cut vol.= 60% BTA, 40% RPOPIC - FMD: Started Five Spots in 1999. Take half of remaining acreage this entry (3 Spot). No cut red and white pine 6" dbh and smaller. Oak/pine/aspen/red maple mix is acceptable regen.---second cut of five spot oak cut completed 5/30/2008---Peltz 5 Plus 54- 029-07-01---created new stand 145 for cut area which is 28 acres and deleted 28 acres from stand 45---next cut in 10 yrs will be the final harvest
46	42110 - Planted Red Pine	Sawtimber Poor	35.0	76	1-50	-seed-tree completed 11/18/09, res BA 30 -cut all trees except marked rp -cut vol.- 98% rp, & 2% jp -FTP- C54-867 OPIC - FMD: Cut stand back to 30-40 BA scarify soil with JD 440 skidder and disc. If natural regen fails, clearcut and plant in ten years. Natural regen mix of Red Pine/White Pine/Jack Pine/Oak is acceptable. -T143-77 -cut all jp, aspen, and oak within rp plantation; outside the rp plantation cut all jp, rp, aspen, and oak -cut vol.- 22% oak, 57% jp, 11% aspen, 10% rp -completed- 12/16/78
47	6120 - Lowland Cedar	Sawtimber Well	6.6	106	201+	-subcanopy is unoccupied due to extremely high density cedar
48	42140 - Planted Mixed Pine	Poletimber Well	3.5	34	81-110	-T145-77A -cut all jp, apen, and oak, completed 11/14/79 -cut vol.= 86% JP, 6% RO, 8% BTA -scattered mature overstory red pine mixed in (about 10%) -heavier to RP south of rd to SE -pocket of BTA to SW
50	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	31.1	76	111-140	-planting record to RPJP 1938-T39-72-cut all aspen and rm and marked RP, completed 11/21/72-cut vol.= 60% BTA, 40% RPOPIC - FMD: species thinned, 1999-cut all trees except oak and rp-cut vol.- 92% jp & 8% aspen-some high density areas
51	42120 - Planted Jack Pine	Poletimber Poor	11.3	53	81-110	-C54-091-jp plantation, completed 5/28/62-machine planted with Oliver AG & Kilifer Plow
52	42220 - Natural Jack Pine	Poletimber Medium	33.2	34	51-80	-T44-77-cut all jp, aspen, rp, and unmarked oak-cut vol.- 2% oak, 79% jp, 19% aspen -completed- 12/16/79-appears to be natural origin
53	6120 - Lowland Cedar	Sawtimber Well	39.8	114	111-140	-too much cedar-scattered log rp and wp throughout
54	42220 - Natural Jack Pine	Sawtimber Well	4.0	82	81-110	OPIC - FMD: Low, wet ground.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	4133 - Aspen, Mixed Pine	Poletimber Well	23.2	37	51-80	-T44-77-cut all jp, aspen, rp, and unmarked oak-cut vol.- 2% oak, 79% jp, 19% aspen -completed- 12/16/79
58	6120 - Lowland Cedar	Sawtimber Well	5.0	115	141-170	
59	42220 - Natural Jack Pine	Poletimber Poor	33.1	23	51-80	-2-aged jack pine stand -1977 and 1992
61	42110 - Planted Red Pine	Sawtimber Well	10.0	76	201+	-planted to RP/JP in 1939-never been thinned-1/6-1/8th live crown
63	42110 - Planted Red Pine	Sawtimber Well	3.0	76	111-140	-planting record to RPJP 1938
64	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	8.1	68	81-110	-no visible rows in rp -aspen and rm cut out 34 yrs ago -partially suppressed aspen -suppression created variable heights
66	4132 - Aspen, Jack Pine	Sapling Well	11.5	14	1-50	-cut completed 1/2000 -cut volume- aspen 4%, oak 4%, jp 82%, rp 8%, & spruce 2% -scattered cherry -C54-108 -jp plantation, completed 5/2000 -direct seed-furrow, JD 740 Skidder w/Sigma Seeder
67	4123 - Red Oak	Sawtimber Well	21.5	89	81-110	-advanced wp and rp saps mostly in NE
68	42120 - Planted Jack Pine	Poletimber Poor	22.6	32	51-80	-C54-106 -T34-77 -jp plantation, completed 4/27/83 -machine planted with Oliver AG & Kilifer Plow
69	42110 - Planted Red Pine	Poletimber Well	8.1	52	171-200	OPIC - FMD: treat in 10 yrs, holding to let branches prune.- planted to RP in 1963
70	4131 - Aspen, Oak	Sapling Well	11.9	16	Immature	-T2-98OPIC - FMD: Oak was left when stand was cut.
71	42220 - Natural Jack Pine	Sapling Medium	3.1	16	1-50	-appears to be natural jp regen under scattered oak
72	4131 - Aspen, Oak	Sapling Well	31.5	25	51-80	-T54-012-87-01-cut all trees-cut vol.- 63% oak, 10% rp, 27% aspen -completed- 12/16/88-oak came up fairly well with aspen
73	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	24.0	80	111-140	-appears to have been planted with RP in 1938 accepting variable success with regenerating oak-steep along northern edge



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
74	4121 - Oak, Aspen	Sawtimber Well	15.0	82	81-110	-steep slopes to W-higher than normal amount of natural rp coming in under aspen to south half-area has been surveyed, corners are in-some illegal ORV use climbing hills
75	4122 - Oak, Pine	Sawtimber Well	0.0	82	111-140	-T34-77-cut vol.- 14% oak, 69% jp, 17% aspen -completed- 10/16/78-rp appears to have been interplanted or had variable success while regenerating with oak
76	42210 - Natural Red Pine	Sawtimber Well	1.0	87	81-110	
77	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	4.2	30	51-80	-scattered pine and aspen -was cut with stands to west
78	4199 - Other Mixed Upland Deciduous	Sapling Well	1.1	16	1-50	-all aspen and rm cut out in 2001 -significant advanced regeneration -many oak crowns are showing dieback at tops of terminal stems due to significant exposure
80	4123 - Red Oak	Sawtimber Medium	18.7	94	51-80	OPIC - FMD: Left Oak and Pine-PARVha site-past harvest was has significantly populated subcanopy with aspen and rm which is now primarily suppressed-some oak has died from over exposure-many oak crowns have significant epicormic branching since being released-subcanopy is limiting any advanced oak from ever being established and oak are losing ability to stump sprout effectively
81	4122 - Oak, Pine	Sawtimber Well	84.7	87	111-140	-T12-52 or T18-70OPIC - FMD: OI Stand Year Origin was 1928-hilly- leave as area retention -higher BA on ridges-more sap wp and bta log trees in north half-more rp to south half
83	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	3.8	76	81-110	-area was left as area retention -aspen and oak were cut out 35-37 years ago
84	42120 - Planted Jack Pine	Poletimber Well	5.5	32	51-80	-C54-106 -jp plantation, completed 4/27/83 -machine planted with Oliver AG & Kilifer Plow
86	42110 - Planted Red Pine	Sawtimber Well	170.8	75	111-140	-parVHA site -planted to RP/JP in 1939-T34-77-cut all jp, aspen, and oak-cut vol.- 14% oak, 69% jp, 17% aspen - completed- 10/16/78-all jp was cut out of NESW sec. 7 in 2/7/75-some JP was not cut to SE where dried up pond is located
87	4122 - Oak, Pine	Sawtimber Well	20.5	93	51-80	-W5-828-69- removed all jp, aspen, and left scattered oak and rp for aesthetics and acorn production; completed 3/3/75-significant mast, cavity, and den tree oak stand
88	42120 - Planted Jack Pine	Poletimber Poor	35.4	38	51-80	-T103-74-cut all jp trees, completed 6/18/75-cut vol.= 100% JP-C54-106-jp plantation, completed 7/26/77-Ontario trencher and broadcast jp seed



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
89	4122 - Oak, Pine	Sawtimber Well	15.9	82	111-140	-rp appears to have been interplanted or had variable success while regenerating with oak
92	4130 - Aspen	Sapling Well	8.7	16	1-50	-appear to have left pine and oak -BA is around 20 or seed-tree level -aspen are doing fine
93	4131 - Aspen, Oak	Sawtimber Well	46.6	38	81-110	-Stand has ORV problem on hillside just south and southwest of stand 403. Cut trees across trails in June 2005, to control access and limit erosion problems. -T23-70 -W5-828-69- removed all jp, aspen, and left scattered oak and rp for aesthetics and acorn production; completed 3/3/75 -appears that most oak were left (mostly to east) and some were cut (mostly to west) -E and NE portion of stand aspen was not removed, not sure why (some due to steep hills), legacy rp in this area as well (see OFS), considered as an inclusion -steep hills south and north of opening
95	4122 - Oak, Pine	Poletimber Medium	3.4	86	51-80	-pines coming in under oak
97	4310 - Pine, Oak Mix	Sawtimber Well	16.9	81	111-140	-planted to RP/JP in 1939
98	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	3.9	76	81-110	
100	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	10.6	35	51-80	-aspen and jp were cut out
101	4310 - Pine, Oak Mix	Sawtimber Poor	5.2	83	1-50	-was likely cut with oak to the west -young natural jp in central portion of stand -pole jp scattered in south half
105	4122 - Oak, Pine	Sawtimber Medium	4.4	87	51-80	OPIC - FMD: Start 3 Spot cut this entry. Leave all Red and White Pine for seed source. Oak/pine/aspen/red maple regen is acceptable.---first cut of three spot oak cut completed 5/30/2008---Peltz 5 Plus 54-029-07-01---created new stand 167 for cut area which is 12 acres and deleted 12 acres from stand 67 -appears that rm was cut out in '08
106	42110 - Planted Red Pine	Sawtimber Well	0.9	76	111-140	-planting record to RPJP 1938
107	42220 - Natural Jack Pine	Sapling Medium	4.7	14	1-50	-cut all trees, completed 1/4/00-cut closed in 2000, 5 acre portion to NE was cut as well, more oak in overstory though-says cut all trees but NE has quite a bit left on site-cut vol.- 50-50 mix of JP and RP
109	4123 - Red Oak	Sawtimber Medium	4.9	86	51-80	-cut all trees, completed 1/4/00-apparently this area had the oak left with some pole pine-was treated with stand 107 to SW



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
112	4133 - Aspen, Mixed Pine	Poletimber Well	1.1	36	51-80	-C54-108 -jp plantation, completed 5/24/62 -machine planted with Oliver AG & Kilifer Plow
113	4122 - Oak, Pine	Sawtimber Well	17.2	91	51-80	-small scotch pine inclusion of poles to NW along rd
114	4130 - Aspen	Sapling Well	28.3	35	1-50	-T144-77A -cut all jp, apen, rm, and oak, completed 7/22/80 -cut vol.= 1% JP, 19% RO, 76% BTA, & RM 4% -old sale map shows cut going up to private but imagery is showing different -survey corner must have never been put in before sale was cut -some scattered oak and red pine
116	429 - Mixed Upland Conifers	Sawtimber Well	3.4	83	81-110	-transition stand -rm mostly in north to middle of stand
117	4123 - Red Oak	Sawtimber Medium	23.6	91	51-80	-all aspen and rm cut out in 2001-significant advanced regeneration -many oak crowns are showing dieback at tops of terminal stems due to significant exposure
118	4123 - Red Oak	Sawtimber Medium	14.3	91	51-80	-T2-98 -stand was species thinned last entry, 2001
119	42290 - Natural Mixed Pine	Sawtimber Medium	3.6	84	51-80	-T145-77A-cut all jp, apen, and oak, completed 11/14/79-cut vol.= 86% JP, 6% RO, 8% BTA
120	42290 - Natural Mixed Pine	Sawtimber Medium	2.3	82	51-80	
121	4123 - Red Oak	Sawtimber Medium	23.0	78	51-80	-most advanced aspen and rm regen is in northern 1/2 of stand
122	4310 - Pine, Oak Mix	Sawtimber Well	18.5	89	111-140	-T2-98-this stand appears to mostly have no thinning done last entry, 2001 due to low rm and aspen present-no past thinning seems to have been done either
123	42220 - Natural Jack Pine	Poletimber Well	6.9	37	51-80	OPIC - FMD: OI Stand Year Origin was 1977
124	4131 - Aspen, Oak	Poletimber Well	2.9	37	51-80	-appears to have been harvest with stand 123 from 30-40 years ago
127	4123 - Red Oak	Sawtimber Poor	0.7	82	1-50	-low density oak stand-great mast stand
128	4123 - Red Oak	Sawtimber Poor	0.9	82	1-50	-low density oak stand-great mast stand



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
145	4199 - Other Mixed Upland Deciduous	Sapling Medium	27.0	6	Immature	-five spot cut completed 07/23/09, 54-029-07-01-cut all trees but rp and wp under <6 inches in dbh-cut vol.- 70% oak, 22% aspen, 4% rp, 2% rm-Oak/pine/aspen/red maple mix is acceptable regen
167	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	14.1	6	1-50	-five spot cut completed 07/23/09, 54-029-07-01 -cut all trees but rp and wp -cut vol.- 70% oak, 22% aspen, 4% rp, 2% rm -Oak/pine/aspen/red maple regen is acceptable -most oak stump sprouts are doing well, some was lost due to excessive browse -more of a mixed stand
217	42250 - Pine, Oak	Sawtimber Well	1.6	85	51-80	-was not thinned in 2001 due to slope -rp is likely natural origin
253	4310 - Pine, Oak Mix	Sawtimber Well	1.5	58	81-110	-wp are younger -all other trees are over 80 yrs
258	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	2.9	85	51-80	-south 1/3rd of stand was cut and is drier -included and split out due to it being mostly deciduous
353	42210 - Natural Red Pine	Sawtimber Medium	3.9	105	51-80	



Stand	Cover Type	Acres	Managed Site	General Comments:
21	330 - Low-Density Trees	1.1	No	
36	3303 - Mixed Low Density Trees	3.2	No	OPIC - FMD: Started Five Spots in 1999. Take half of remaining acreage this entry (3 Spot). No cut red and white pine 6" dbh and smaller. Oak/pine/aspens/red maple mix is acceptable regen---second cut of five spot oak cut completed 5/30/2008---Peltz 5 Plus 54-029-07-01---created new stand 145 for cut area which is 28 acres and deleted 28 acres from stand 45---next cut in 10 yrs will be the final harvest in stand 45---left red and white pine
49	3303 - Mixed Low Density Trees	1.5	No	OPIC - FMD: Oak was left when stand was cut.
56	3303 - Mixed Low Density Trees	5.5	No	-T70-79 -cut all jp and RP marked with yellow paint -cut vol.- jp 78% & RP 22% -completed- 9/26/79
57	623 - Emergent Wetland	2.8	No	OPIC - FMD: Low, wet ground.
60	3303 - Mixed Low Density Trees	1.1	No	-T2-98OPIC - FMD: stand was species thinned last entry. Aspen regen was spotty.
62	3303 - Mixed Low Density Trees	4.0	No	OPIC - FMD: stand has aspen and jack pine mixed in. Some mature Red Pine
65	3303 - Mixed Low Density Trees	3.5	No	OPIC - FMD: OI Stand Year Origin was 1928
79	3303 - Mixed Low Density Trees	1.2	No	-T145-77A -cut all jp, aspen, and oak, completed 11/14/79 -cut vol.= 86% JP, 6% RO, 8% BTA OPIC - FMD: pocket of scotch pine, scattered mature red pine
82	330 - Low-Density Trees	1.1	No	
85	3302 - Low Density Conifer Trees	6.5		-five spot cut completed 07/23/09, 54-029-07-01 -part of parent stand 145 that failed to regenerate from 07/23/09 clearcut -cut all trees but rp and wp under <6 inches in dbh -cut vol.- 70% oak, 22% aspen, 4% rp, 2% rm -Oak/pine/aspens/red maple mix is acceptable regen
90	790 - Other Bare/Sparsely Vegetate	5.4	No	
91	500 - Water	1.2	No	OPIC - FMD: Big Cut Ponds
94	310 - Herbaceous Openland	0.9	Yes	
96	122 - Road/Parking Lot	1.5	No	OPIC - FMD: Big Cut Hwy/Walker Rd



Stand	Cover Type	Acres	Managed Site	General Comments:
102	3301 - Low Density Deciduous Tree	1.6	No	OPIC - FMD: filling in with Jack Pine
103	3302 - Low Density Conifer Trees	1.3	No	OPIC - FMD: Final Harvest next entry, some pockets of JP regen, and past fire damage.
104	623 - Emergent Wetland	1.8	No	OPIC - FMD: Low, wet ground.
108	622 - Lowland Shrub	0.9	No	OPIC - FMD: 2-aged jack pine stand. 1977 and 1992.
115	3303 - Mixed Low Density Trees	2.3	No	OPIC - FMD: sparse, open grown jack pine
126	623 - Emergent Wetland	0.3	No	OPIC - FMD: OI Stand Year Origin was 1898
402	3102 - Grass	1.3	Yes	OPIC - FMD: filling in with Jack Pine
403	3102 - Grass	2.3	Yes	OPIC - FMD: OI Stand Year Origin was