



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32096

Entry Year 2018

Acreage: 1,710

County Alger

Management Area: Chatham-Autrain Moraines

Revision Date: 2016-08-09

Stand Examiner: Ben Travis

Legal Description:

T44N, R21W, Sections 1, 12, and 13.

Identified Planning Goals:

Planning will focus on integrated timber management, forest recreation, fisheries management, and wildlife habitat management. Increasing public access to state lands is a high priority. Forest road monitoring/maintenance, trespass issues, forest regeneration, forest health, forest fire control, BMPs associated with watershed issues, and any resource damage incidents are all critical assessments considered during the forest cover type mapping, forest stand exams/inventory, collaborative development of proposed forest treatments, public comment documentation, and sustainable forest management planning processes.

Soil and topography:

Terrain ranges from mainly level to some north south running low ridges. Soils are predominantly upland and well drained.

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

Compartment is nearly all state ownership, with a few seasonal camps and permanent residences. A large expanse of the Hiawatha National Forest lies to the east of this compartment. The north edge of Section 1 forms a portion of the south boundary of the DNR AuTrain Waterfowl Refuge.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

State of Michigan Autrain Waterfowl Refuge is located to the immediate north of this Compartment.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Compartment 96 is found within the Chatham/AuTrain Management Area; on a Fluted Ground Moraine in northeastern Marquette County and western Alger County. The dominant Natural Communities are mesic northern forests and poor conifer swamps. This Management Area provides one of the best opportunities in the WUP State Forest system to manage for large grasslands and associated wildlife species. Large opening management, along with sharecropped agricultural practices will continue to be a high priority here. Wildlife management issues in this management area will focus on maintaining large open land complexes; habitat fragmentation (patch size for openings); and mowing and burning practice modifications (for the eastern compartments).

The following have been identified as featured species for the Chatham/AuTrain Management Area: bobolink, Canada goose, northern goshawk, and sharp-tail grouse.

Note: I would like to see this Compartment move out of this MA and into the Dead Horse Moraines MA

Mineral Resource and Development Concerns and/or Restrictions

Sections 1, 12, and 13, T44N R21W, Alger County

Surface sediments consist of glacial outwash sand and gravel, postglacial alluvium, and peat and muck. The glacial drift thickness varies between 0 and 50 feet. The Ordovician Trenton and Black River formations subcrop below the glacial drift. The Trenton and Black River have been quarried for stone/dolomite elsewhere in the UP. No active sand/gravel pits are located in the area. There appears to be good gravel potential but shallow bedrock may limit development. This compartment has never been leased for metallic mineral exploration and development. There is no economic oil and gas

production in the UP.

Vehicle Access:

Access is good throughout the compartment with main access provided off Trout Lake Road (plowed county gravel road), Storm Road (plowed county gravel road), and Paulson Road (plowed county gravel road). Numerous poor quality forest roads branch throughout the compartment. Stand 33 is an old gravel/sand pit off Trout Lake Road.

Survey Needs:

Numerous survey needs have recently been completed by Paul Bressette, DNR surveyor out of Gwinn.

Recreational Facilities and Opportunities:

Hunting, ORV use, snowmobiling and horseback riding are recreational pursuits.

The Autrain Waterfowl Refuge and Wildlife Management Area are located to the immediate north of this compartment.

Fire Protection:

Wildfire frequency is low in this compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

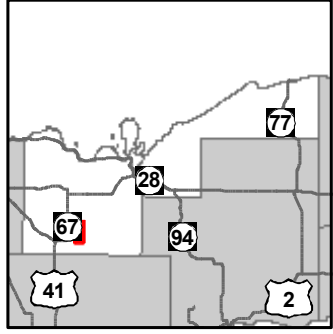
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

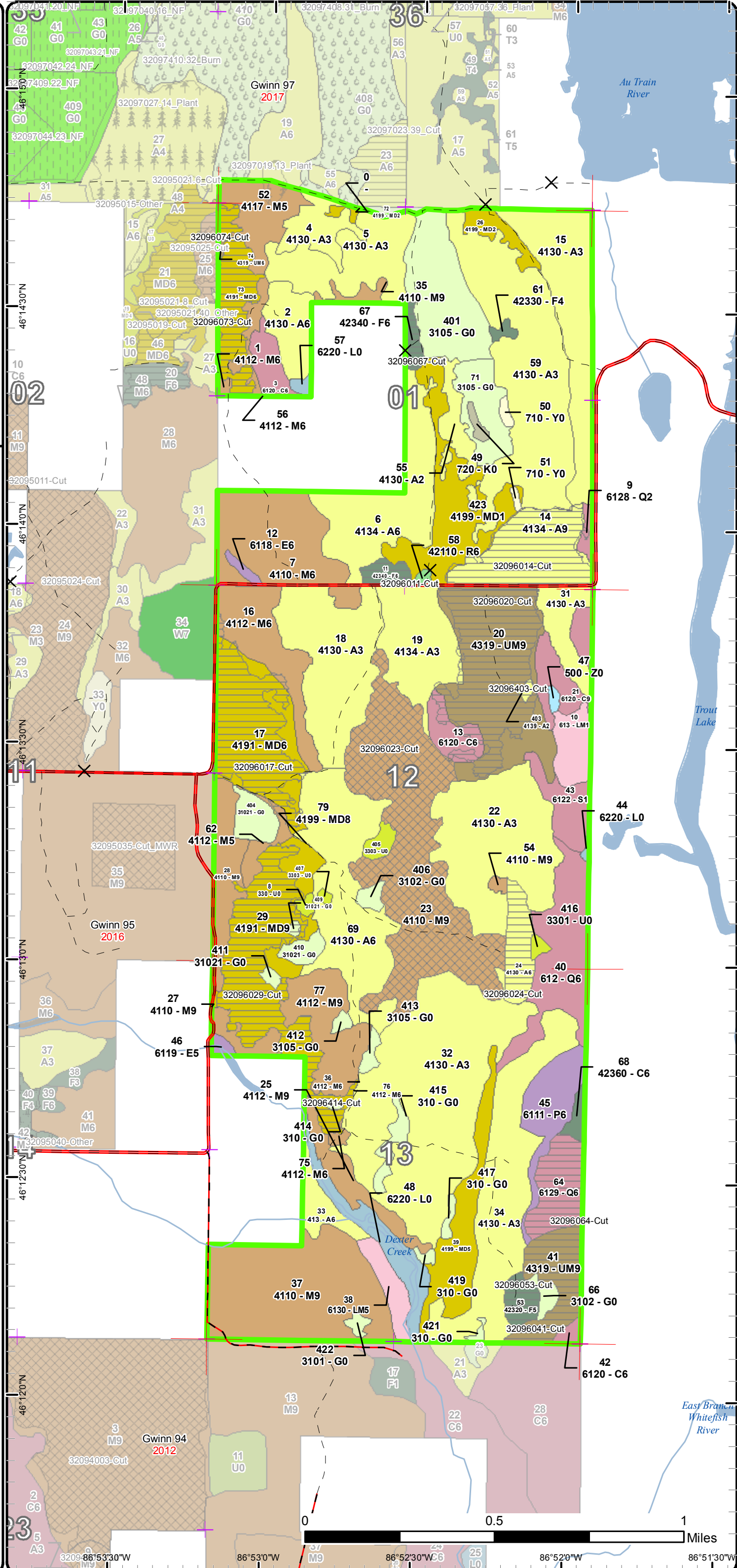
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 96
 T44N, R21W, Sec. 01, 12, 13
 County: Alger
 Unit: Gwinn
 Mgmt Area: Chatham-Autrain
 Moraines
 YOE: 2018
 Acres: 1709.9 GIS Calculated
 Examiner: Ben Travis
 Map Revised: 2/8/2017
 Map Phase: Post-Review

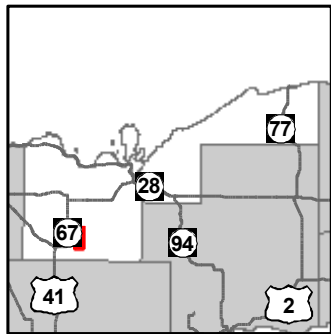


- Miris Corners
- + Remonumented Section Corners
- X Gate
- County Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand/Soil
- 720 - Exposed Rock
- Lakes

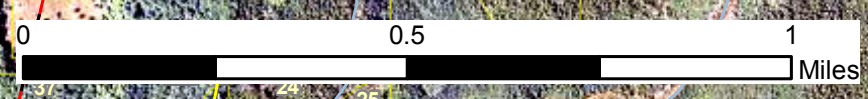
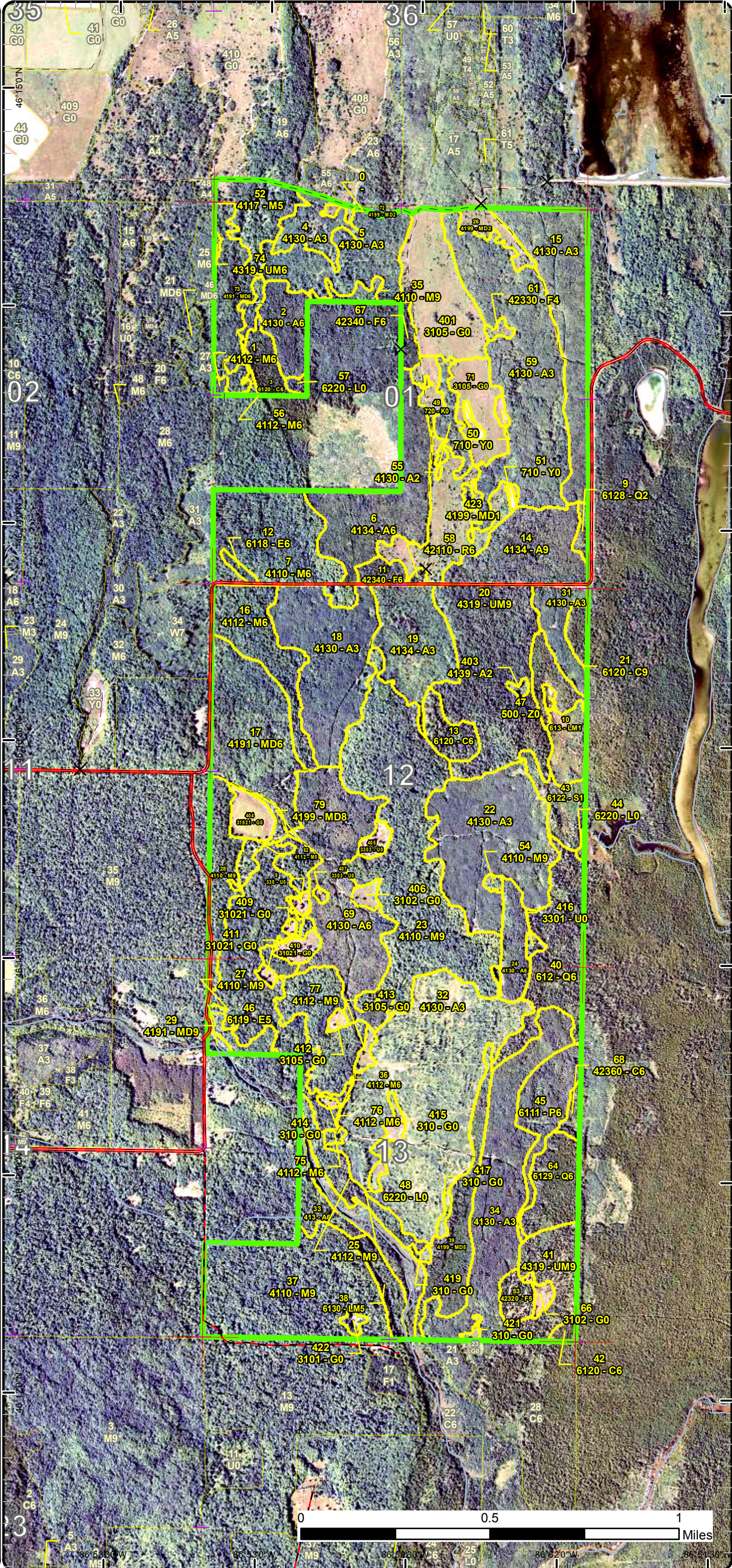


Stand Boundary Map

Compartment: 96
 T44N, R21W, Sec. 01, 12, 13
 County: Alger
 Unit: Gwinn
 Mgmt Area: Chatham-Autrain
 Moraines
 YOE: 2018
 Acres: 1709.9 GIS Calculated
 Examiner: Ben Travis
 Map Revised: 2/8/2017
 Map Phase: Post-Review



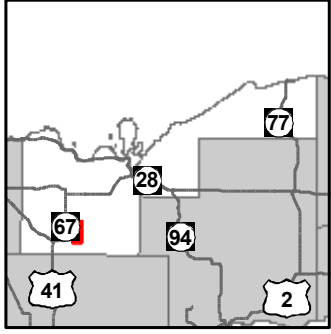
- Miris Corners
- + Remonumented Section Corners
- X Gate
- County Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Rivers
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
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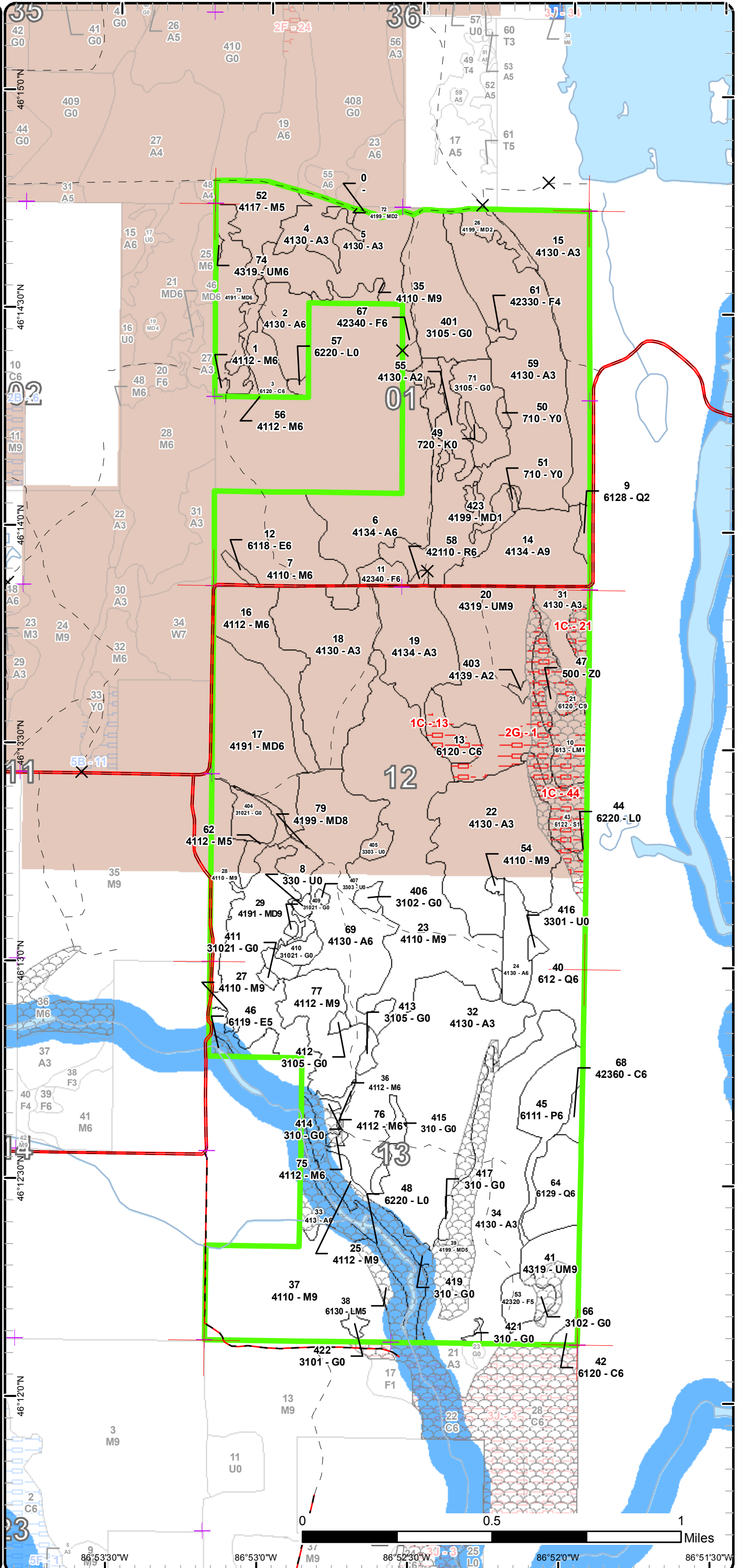
36°52'30"W 36°53'0"W 36°53'30"W 36°54'0"W
 46°12'0"N 46°12'30"N 46°13'0"N 46°13'30"N

Special Conservation Areas & Site Conditions Map

Compartment: 96
 T44N, R21W, Sec. 01, 12, 13
 County: Alger
 Unit: Gwinn
 Mgmt Area: Chatham-Autrain
 Moraines
 YOE: 2018
 Acres: 1709.9 GIS Calculated
 Examiner: Ben Travis
 Map Revised: 2/8/2017
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- X Gate
- County Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Rivers
- Compartment Boundary
- Unavailable
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Wildlife Research Areas
- Riparian Area



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 | 191 | 226 | 218 | 0 | 68 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 738 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 16 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 41 |
| Exposed Rock | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Herbaceous Openland | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88 |
| Low-Density Trees | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Lowland Aspen/Balsam Poplar | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| Lowland Conifers | 0 | 0 | 0 | 3 | 0 | 0 | 39 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 61 |
| Lowland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Lowland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 12 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| Lowland Shrub | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Mixed Upland Deciduous | 0 | 38 | 9 | 0 | 0 | 51 | 66 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 213 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 25 | 7 | 0 | 0 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 293 | 367 |
| Red Pine | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Sand, Soil | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Upland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95 |
| Upland Spruce/Fir | 0 | 0 | 0 | 2 | 0 | 11 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| Water | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 120 | 229 | 235 | 244 | 25 | 163 | 173 | 129 | 44 | 22 | 16 | 22 | 0 | 0 | 0 | 0 | 0 | 293 | 1713 |



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 96

Total Compartment Acres: 1,710

Commercial Harvest - 395
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

| | Clearcut | Selection | Patch Clearcut | Seed Tree | Shelterwood | Thinning | Overstory Removal | Salvage | Other | Total Acres |
|------------------------|------------|------------|----------------|-----------|-------------|----------|-------------------|----------|----------|-------------|
| Aspen | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 49 |
| Herbaceous Openland | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Lowland Conifers | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| Mixed Upland Deciduous | 119 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 119 |
| Northern Hardwood | 0 | 109 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 109 |
| Upland Mixed Forest | 81 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 81 |
| Upland Spruce/Fir | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Total | 285 | 110 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 395 |

Proposed and Next Step Treatments by Method

| | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|--------------|------------|-----------|----------|----------|----------|-----------|------------|----------|-----------------|-------------|
| Current | 395 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 395 |
| Next Step | 0 | 0 | 0 | 0 | 0 | 0 | 540 | 0 | 0 | 540 |
| Total | 395 | 0 | 0 | 0 | 0 | 0 | 540 | 0 | 0 | 934 |



| 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 | 32096011-Cut | 4.9 | 42340 - Upland Spruce/Fir | Poletimber Well | 62 | 81-110 | Harvest | Clearcut | 42330 - Upland Fir | Even-Aged | Draft Field Boundary |

Habitat Cut: No**Site Condition:**

Prescription Harvest all trees with the exception of elm, pine, birch, cedar, hemlock, and black cherry.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Fir, spruce, aspen, maple, black cherry, and birch.

Regen:

Other Provide for protection of Bearing Trees. Treatment to be implemented in 2016. Attempt to leave some large aspen for potential goshawk nest sites.

Proposed Start Date: 06/20/2016

| | | | | | | | | | | | |
|----|--------------|------|-----------------------------|-------------------|----|--------|---------|----------------------------|-------------|-----------|---|
| 14 | 32096014-Cut | 34.5 | 4134 - Aspen, Spruce/Fir | Sawtimber Well | 56 | 81-110 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | Field Boundary - Ready for VMS |
|----|--------------|------|-----------------------------|-------------------|----|--------|---------|----------------------------|-------------|-----------|---|

Habitat Cut: No**Site Condition:**

Prescription Harvest all aspen, fir, spruce, and black cherry. Only remove maple needed for logging operability. Leave any red pine, white pine, hemlock, birch, elm, and cedar if present.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, fir, spruce, birch, and maple.

Regen:

Other Move treatment period to 2016.

Comment:

Proposed Start Date: 06/20/2016

| | | | | | | | | | | | |
|----|--------------|------|--|--------------------|----|--------|---------|----------------------------|---|-----------|---|
| 17 | 32096017-Cut | 41.8 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Well | 67 | 81-110 | Harvest | Clearcut with Retention | 4199 - Other Mixed Upland Deciduous | Even-Aged | Field Boundary - Ready for VMS |
|----|--------------|------|--|--------------------|----|--------|---------|----------------------------|---|-----------|---|

Habitat Cut: No**Site Condition:**

Prescription Harvest aspen, spruce, fir, maple, and black cherry. Leave some scattered cherry and maple. Leave any elm, hemlock, cedar, birch, white pine, and red pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, black cherry, maple, birch, fir, spruce and pine.

Regen:

Other Exclude or partially leave some patches with higher maple stocking. Stand will be highly susceptible to spruce budworm damage, so expedite harvest.

Comment:

Proposed Start Date: 06/20/2016

| | | | | | | | | | | | |
|----|--------------|------|-------------------------------|-------------------|----|--------|---------|----------------------------|-------------------------------|-----------|---|
| 20 | 32096020-Cut | 58.0 | 4319 - Mixed Upland Forest | Sawtimber Well | 62 | 81-110 | Harvest | Clearcut with Retention | 4319 - Mixed Upland Forest | Even-Aged | Field Boundary - Ready for VMS |
|----|--------------|------|-------------------------------|-------------------|----|--------|---------|----------------------------|-------------------------------|-----------|---|

Habitat Cut: No**Site Condition:**

Prescription Cut aspen, fir, spruce, and black cherry. Leave maple unless needed for logging operability. Leave elm, birch, white pine, red pine, hemlock, and cedar.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, birch, fir, spruce, and maple.

Regen:

Other May exclude any patches found that are primarily maple. Move treatment period into 2016 due to spruce budworm damage risk. Retention should include some larger aspen for cavity nesters and future drumming logs.

Comment:

Proposed Start Date: 06/20/2016



| 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 |
|-----------------------|-------------------|-------|-----------------------------------|-------------------|--------------|-------------|-------------------|--------------------------|----------------------------|------------------|-------------------------|
| 23 | 32096023-Cut | 109.4 | 4110 - Sugar Maple Association | Sawtimber Well | 86 | 111- 140 | Harvest | Single Tree Selection | 411 - Northern Hardwood | Uneven- Aged | Draft Field Boundary |

Habitat Cut: No**Site Condition:**

Prescription Remove most mature aspen. Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to
Specs: maintain existing diversity of overstory species and stand structure.

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

Acceptable Maple, birch, and basswood.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

| | | | | | | | | | | | |
|----|--------------|------|--------------|--------------------|----|--------|---------|----------------------------|-------------|-----------|-------------------------|
| 24 | 32096024-Cut | 13.0 | 4130 - Aspen | Poletimber Well | 47 | 81-110 | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | Draft Field Boundary |
|----|--------------|------|--------------|--------------------|----|--------|---------|----------------------------|-------------|-----------|-------------------------|

Habitat Cut: No**Site Condition:**

Prescription Harvest aspen, maple, spruce, and fir. Leave white pine, red pine, hemlock, cedar, and elm. May want to leave some maple along edge of stand
Specs: 23. May exclude small patches of more homogenous maple.

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

Acceptable Aspen, fir, spruce, birch, and maple.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2017

| | | | | | | | | | | | |
|----|--------------|------|--|-------------------|----|--------|---------|----------------------------|---|-----------|---|
| 29 | 32096029-Cut | 55.5 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Well | 56 | 81-110 | Harvest | Clearcut with Retention | 4199 - Other Mixed Upland Deciduous | Even-Aged | Field Boundary - Ready for VMS |
|----|--------------|------|--|-------------------|----|--------|---------|----------------------------|---|-----------|---|

Habitat Cut: No**Site Condition:**

Prescription Harvest aspen, fir, spruce, black cherry, and maple. Leave elm, white pine, red pine, hemlock, and cedar. Leave scattered maple and black
Specs: cherry. Exclude or partially leave some trees within patches where maple is at a higher stocking level. Buffer Dexter creek.

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

Acceptable Fir, spruce, aspen, black cherry, birch, and maple.
Regen:

Other Accelerate harvesting due to spruce budworm damage/loss concerns. Leave some larger aspen for potential nest sites for Goshawk and future
Comment: drumming logs.

Proposed Start Date: 06/20/2016

| | | | | | | | | | | | |
|----|--------------|------|-------------------------------|-------------------|----|--------|---------|----------------------------|-------------------------------|-----------|-------------------------|
| 41 | 32096041-Cut | 22.8 | 4319 - Mixed Upland Forest | Sawtimber Well | 52 | 81-110 | Harvest | Clearcut with Retention | 4319 - Mixed Upland Forest | Even-Aged | Draft Field Boundary |
|----|--------------|------|-------------------------------|-------------------|----|--------|---------|----------------------------|-------------------------------|-----------|-------------------------|

Habitat Cut: No**Site Condition:**

Prescription Harvest spruce, red maple, fir, aspen, and balsam poplar. Leave white pine, cedar, yellow birch, and hemlock.
Specs:

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

Acceptable Aspen, birch, spruce, fir, and balsam poplar.
Regen:

Other Private property to east being cut in winter 2017. Leave some larger aspen for potential nest sites for Goshawk and future drumming logs.
Comment:

Proposed Start Date: 06/20/2016



| 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 |
|---|-------------------|-------|--|----------------------|--------------|-------------|-------------------|----------------------------|---|------------------|---|
| 53 | 32096053-Cut | 6.6 | 42320 - Upland Spruce | Poletimber Medium | 46 | 51-80 | Harvest | Clearcut | 42330 - Upland Fir | Even-Aged | Draft Field Boundary |
| Habitat Cut: No | | | Site Condition: | | | | | | | | |
| <u>Prescription</u> Harvest spruce, fir, aspen, balsam poplar, and red maple. leave white pine, cedar, and hemlock. | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) | | | | | | | | | | | |
| <u>Treatments:</u> | | | | | | | | | | | |
| <u>Acceptable</u> Spruce, fir, aspen, and balsam poplar. | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 06/20/2016 | | | | | | | | | | | |
| 64 | 32096064-Cut | 19.4 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Well | 101 | 81-110 | Harvest | Clearcut with Retention | 612 - Lowland Coniferous Forest | Even-Aged | Draft Field Boundary |
| Habitat Cut: No | | | Site Condition: | | | | | | | | |
| <u>Prescription</u> Harvest tamarack, white birch, spruce, fir, red maple, aspen, jack pine, and balsam poplar. Leave yellow birch, elm, white pine, hemlock, and cedar. | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) | | | | | | | | | | | |
| <u>Treatments:</u> | | | | | | | | | | | |
| <u>Acceptable</u> Tamarack, cedar, spruce, fir, birch, and red maple. | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> May have to cut some cedar for logging equipment operability. Retain some mature tamarack for gray jays. | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 06/20/2016 | | | | | | | | | | | |
| 67 | 32096067-Cut | 4.1 | 42340 - Upland Spruce/Fir | Poletimber Well | 41 | 81-110 | Harvest | Clearcut | 42330 - Upland Fir | Even-Aged | Draft Field Boundary |
| Habitat Cut: No | | | Site Condition: | | | | | | | | |
| <u>Prescription</u> This stand will be subject to serious spruce budworm infestation in near future. Harvest all trees except elm and black cherry. | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) | | | | | | | | | | | |
| <u>Treatments:</u> | | | | | | | | | | | |
| <u>Acceptable</u> Fir, spruce, aspen, maple, and birch. | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> Move treatment into 2016. | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 06/20/2016 | | | | | | | | | | | |
| 73 | 32096073-Cut | 22.1 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Well | 46 | 81-110 | Harvest | Clearcut with Retention | 4199 - Other Mixed Upland Deciduous | Even-Aged | Field Boundary - Ready for VMS |
| Habitat Cut: No | | | Site Condition: | | | | | | | | |
| <u>Prescription</u> Harvest all fir, spruce, red maple, sugar maple, black cherry, balsam poplar, and aspen. Retain all white pine, red pine, yellow birch, white birch, hemlock, cedar, oak, and elm. In addition, mark scattered leave tree black cherry and maple. Stand will be very susceptible to spruce budworm impacts. | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) | | | | | | | | | | | |
| <u>Treatments:</u> | | | | | | | | | | | |
| <u>Acceptable</u> Maple, birch, aspen, fir, black cherry, spruce, pine | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> Change entry of this stand to YOE 2016. | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 07/19/2016 | | | | | | | | | | | |



| 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 |
|-----------------------|-------------------|-------|-------------------------------|--------------------|--------------|-------------|-------------------|--------------------------|-------------------------------|------------------|---|
| 74 | 32096074-Cut | 0.6 | 4319 - Mixed Upland Forest | Poletimber Well | 67 | 81-110 | Harvest | Single Tree Selection | 4319 - Mixed Upland Forest | Two-Aged | Field Boundary - Ready for VMS |

Habitat Cut: No**Site Condition:**

Prescription Individual tree selection method to reduce basal area to between 60 and 80 square feet. May mark harder in patches with poor quality overstory trees and/or to make larger regeneration gaps for establishment and survival of shade mid-tolerant tree species. All pine, hemlock, elm, white birch, and yellow birch will be retained.

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

Acceptable Maple, fir, spruce, black cherry, pine, hemlock, and birch.
Regen:

Other This stand will be marked in conjunction with stand 25 in Cmpt 95 to immediate west. Move treatment period to 2016.
Comment:

Proposed Start Date: 06/20/2016

| | | | | | | | | | | | |
|-----|--------------|-----|----------------------------------|-------------------|----|----------|---------|----------|-------------|-----------------|---|
| 403 | 32096403-Cut | 1.1 | 4139 - Aspen, Mixed Deciduous | Sapling Medium | 16 | Immature | Harvest | Clearcut | 413 - Aspen | Uneven- Aged | Field Boundary - Ready for VMS |
|-----|--------------|-----|----------------------------------|-------------------|----|----------|---------|----------|-------------|-----------------|---|

Habitat Cut: No**Site Condition:**

Prescription Remove any merchantable trees except maple, birch, white pine, red pine, hemlock, cedar, and elm.
Specs:

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

Acceptable Aspen, fir, spruce, and maple.
Regen:

Other Stand will be used as landing area.
Comment:

Proposed Start Date: 10/01/2017

| | | | | | | | | | | | |
|-----|--------------|-----|------------------------------|------------|--|-----------------|---------|----------|-----------------------------|--|-------------------------|
| 414 | 32096414-Cut | 0.8 | 310 - Herbaceous Openland | Nonstocked | | Unspec ified | Harvest | Clearcut | 330 - Low- Density Trees | | Draft Field Boundary |
|-----|--------------|-----|------------------------------|------------|--|-----------------|---------|----------|-----------------------------|--|-------------------------|

Habitat Cut: No**Site Condition:**

Prescription Remove merchantable trees except birch.
Specs:

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

Acceptable Aspen, birch, maple, black cherry, fir, and spruce.
Regen:

Other Area will primarily function as landing area.
Comment:

Proposed Start Date: 10/01/2017

**Total Treatment
Acreage Proposed: 394.6**

Report 4 – Site Conditions

Gwinn Mgt. Unit
Ben Travis : Examiner

Compartment: 96
Year of Entry: 2018

Availability for Management

| Total Acres | Acres Available | Acres Avail | | Dominant Site Conditions | 1C | | 2G | |
|----------------|--------------------|----------------|---------------|-----------------------------|----|--|----|--|
| | | With Condition | Not Available | | | | | |
| 738 | 738 | 0 | 0 | Aspen | 0 | | | |
| 41 | 20 | 0 | 21 | Cedar | 21 | | | |
| 2 | 2 | 0 | 0 | Exposed Rock | | | | |
| 89 | 89 | 0 | 0 | Herbaceous Openland | | | | |
| 7 | 7 | 0 | 0 | Low-Density Trees | | | | |
| 21 | 21 | 0 | 0 | Lowland Aspen/Balsam Poplar | | | | |
| 61 | 57 | 0 | 4 | Lowland Conifers | 4 | | | |
| 4 | 4 | 0 | 0 | Lowland Deciduous | | | | |
| 21 | 13 | 0 | 8 | Lowland Mixed Forest | 8 | | | |
| 20 | 19 | 0 | 1 | Lowland Shrub | 1 | | | |
| 13 | 0 | 0 | 13 | Lowland Spruce/Fir | 13 | | | |
| 212 | 212 | 0 | 0 | Mixed Upland Deciduous | | | | |
| 366 | 366 | 0 | 0 | Northern Hardwood | | | | |
| 1 | 1 | 0 | 0 | Red Pine | | | | |
| 2 | 2 | 0 | 0 | Sand, Soil | | | | |
| 94 | 80 | 0 | 14 | Upland Mixed Forest | 0 | | 13 | |
| 17 | 17 | 0 | 0 | Upland Spruce/Fir | | | | |
| 1 | 1 | 0 | 0 | Water | 0 | | | |
| 1,710 | 1,650 | | 60 | Total Forested Acres | 47 | | 13 | |
| | 96% | | 4% | 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) | 14 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| | | | | | | | |

Report 4 – Site Conditions

Gwinn Mgt. Unit
Ben Travis : Examiner

Compartment: 96
Year of Entry: 2018

| | | | | | | | |
|------------------|-------------|---|----|---|---|---|-------------|
| 13 | Unavailable | 1C: Other dept or div proc/practices | 6 | 3J: Water quality / BMPs (stream, river, or lake) | 3G: Other Influence zones - See comments | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 21 | Unavailable | 1C: Other dept or div proc/practices | 16 | 3A: Potential old growth / biodiversity | 3G: Other Influence zones - See comments | 3J: Water quality / BMPs (stream, river, or lake) | Unspecified |
| Comments: | | | | | | | |
| 44 | Unavailable | 1C: Other dept or div proc/practices | 25 | 3J: Water quality / BMPs (stream, river, or lake) | 3G: Other Influence zones - See comments | 3A: Potential old growth / biodiversity | Unspecified |
| Comments: | | | | | | | |

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

| SCA Name | SCA Category | Detail Type | Recommendation | Acres |
|----------|--------------|-------------|----------------|-------|
|----------|--------------|-------------|----------------|-------|

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 | Research and Military Areas | These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands. |
| 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 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 1.0 | 46 | 81-110 | |
| 2 | 4130 - Aspen | Poletimber Well | 15.9 | 27 | 81-110 | Average of two sticks per aspen stem. Sugar maple saplings found. Scarce black cherry and cedar poles. |
| 3 | 6120 - Lowland Cedar | Poletimber Well | 9.1 | 87 | 201+ | Mostly Cedar but pockets of spruce with tag alder. Over 1/2 of cedar boles have bad sweep. Alder on edge where aspen/cedar was harvested in 1990. Not much cedar cover in this compartment. Poor timber quality, but excellent wildlife habitat. |
| 4 | 4130 - Aspen | Sapling Well | 13.5 | 22 | Immature | Overall good stocking with some small openings. Small portion treated with skidder and roller chopper last entry, but less than 10% of stand as skidder broke down. Allow stand to mature into poletimber aspen. Serviceberry. Some small patches of Washington hawthorn. |
| 5 | 4130 - Aspen | Sapling Well | 35.8 | 7 | Immature | Few mature cedar left from prior harvest. Some patches of hardwood along south edge were excluded (stand 35 now). Timber sale #013-08 "Neighbor Ben sale" (38 acs)- cut Sept - Dec., 2009. Left all elm, small spruce/fir, marked green leave white spruce, pine, hemlock, cedar, cherry, and paper birch. Residual black cherry canopy somewhat heavy in patches, but even here adequate aspen reproduction. |
| 6 | 4134 - Aspen, Spruce/Fir | Poletimber Well | 45.5 | 41 | 81-110 | |
| 7 | 4110 - Sugar Maple Association | Poletimber Well | 47.5 | 81 | 51-80 | Stand thinned as "Basin Fir Hardwood" #015-08-01 - cut Fall, 2009. Average diameter of trees increases to east. Scattered yellow birch and white spruce in canopy. White spruce and ironwood saplings present. Some small patches of A2 in understory. |
| 9 | 6128 - Lowland Coniferous, Mixed Deciduous | Sapling Medium | 2.9 | 26 | 51-80 | Lot of standing water. Cedar saplings found. Flowing stream in stand. Mostly cedar near road, more lowland conifers, aspen, balm farther upstream. |
| 10 | 613 - Lowland Mixed Forest | Sapling Poor | 12.1 | 47 | Unspecified | Drained beaver pond filling in. Stream going through stand. Scattered trees left on hummocks and seeding in. Some lowland brush (alder) but mostly wetland grasses. Stream buffer stand put in biodiversity maintenance to protect riparian values. Stream about 10 feet wide. |
| 11 | 42340 - Upland Spruce/Fir | Poletimber Well | 4.9 | 62 | 81-110 | Shallow soil in spots. This stand was held for age/class distribution last entry. stand high risk for SBW damage. |
| 12 | 6118 - Lowland Deciduous with Cedar | Poletimber Well | 1.9 | 67 | 51-80 | Ponded water. White spruce, aspen, and white pine are infrequent overstory associates. |
| 13 | 6120 - Lowland Cedar | Poletimber Well | 10.2 | 82 | 51-80 | Springs found in north portion of stand and flow south as a small stream, eventually disappearing back underground. Unsure if it is a seasonal or permanent stream. Recommend leaving stand for diversity and water quality protection. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|---|--------------------|-------|--------------|-------------|--|
| 14 | 4134 - Aspen, Spruce/Fir | Sawtimber Well | 35.8 | 56 | 81-110 | All over-story species declining in condition ad vigor. |
| 15 | 4130 - Aspen | Sapling Well | 48.8 | 28 | Immature | Aspen well-stocked. Heavier fir concentrations to east and south. Sugar maple saplings found. Pockets of basswood and maple poles to south near Trout Lake Rd. |
| 16 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 29.1 | 86 | 81-110 | Good quality potential for timber. Stand harvested as "Basin Fir/Hardwood" #015-08-01 - thinned Fall, 2009. |
| 17 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Well | 49.8 | 67 | 81-110 | 5 stick aspen. Poor timber quality red maple. Some parts of stand has fair to good quality northern hardwood small 2-3 stick. Retain any of these small areas of better quality hardwood. |
| 18 | 4130 - Aspen | Sapling Well | 54.9 | 15 | Immature | Cut 2000-2002 south to north under permit #33-98-01. Some residual hardwood 2-4" dbh left in stand. All white pine were left (only a few). |
| 19 | 4134 - Aspen, Spruce/Fir | Sapling Well | 34.2 | 7 | Immature | Stand harvested as "Thomas Camp Aspen" #014-08 - cut F/W, 2009-10. Adequate aspen stocking. Residual, scattered black cherry and fir poles. Raspberry. |
| 20 | 4319 - Mixed Upland Forest | Sawtimber Well | 70.9 | 62 | 81-110 | Mostly 4-6 stick aspen. Balsam poplar and white birch are infrequent overstory associates, Stand was held for another 10 years for balancing age/class distribution. |
| 21 | 6120 - Lowland Cedar | Sawtimber Well | 15.5 | 97 | 111-140 | SCA. Stand is mostly cedar and is a buffer stand around large spring-fed ponds. Some cedar 16" dbh or larger but smaller and more sparse south below ponds. Stand is in biodiversity maintenance to protect springs. Found some cedar seedlings. |
| 22 | 4130 - Aspen | Sapling Well | 67.5 | 16 | Immature | Cut 2001 under permit #34-98-01. Well stocked stand. Very homogenous overstory. Balsam poplar saplings present. |
| 23 | 4110 - Sugar Maple Association | Sawtimber Well | 109.5 | 86 | 111-140 | Moderate to good quality hardwood for timber management. Cut 2001 under logging permit # 34-98-01. Over-mature aspen scattered about canopy. Widely scattered fir poles. White spruce reproduction present. |
| 24 | 4130 - Aspen | Poletimber Well | 13.0 | 47 | 81-110 | Aspen healthy, boles clear. 4 stick aspen. Should cut now to give aspen best chance to compete with advanced maple regeneration. |
| 25 | 4112 - Maple, Beech, Cherry Association | Sawtimber Well | 13.9 | 76 | 81-110 | |
| 26 | 4199 - Other Mixed Upland Deciduous | Sapling Medium | 7.2 | 16 | Immature | Prescribed burn occurred on May 5, 2011. Cherry brush has proliferated. Allow to revert to forested condition. Semi-open upland brush stand. Single stems and clumps of Washington hawthorn. |
| 27 | 4110 - Sugar Maple Association | Sawtimber Well | 6.4 | 79 | 81-110 | |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|-------------------|-------|--------------|-------------|---|
| 28 | 4110 - Sugar Maple Association | Sawtimber Well | 18.9 | 86 | 81-110 | Thinned in 1988. Managed with larger stand within compartment 95 to west. Cut in 2009 permit #22-06-01. Overall stand timber quality is improving with thinning by releasing crop trees and removing poor quality trees such as those with disease, low forks, etc. Good quality overall. Sparse supercanopy white spruce and white pine found. Seasonal road portions of Paulson road are in very bad shape - large water holes and extremely rough. |
| 29 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Well | 55.2 | 56 | 81-110 | Stand was held for size/age class diversity last entry. Harvest as soon as possible due to SBW and over-mature condition of aspen. |
| 30 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 0.0 | 86 | 81-110 | 4-5 stick fir. Spruce 5-6 stick tall. Pockets with higher overstory fir densities. |
| 31 | 4130 - Aspen | Sapling Well | 14.4 | 18 | Immature | Aspen clearcut under contract #031-98-01. Cut 1999. Well stocked aspen stand. Fir seeding in especially on swamp edge. Some areas of F3 there. Scattered residual cedar left in stand. Forest Service property to east. |
| 32 | 4130 - Aspen | Sapling Well | 120.9 | 6 | Immature | The prior mature stand had a lot of blowdown patches. Stand harvested as "Old Landfill Aspen" #016-08-1 - cut Fall, 2011. Stand fully stocked. Spruce leave trees still standing. |
| 33 | 413 - Aspen | Poletimber Well | 9.5 | 46 | 51-80 | Dexter creek riparian corridor. Mature aspen that contains a lot of blowdown from 2 years ago. Big cedar in center swale in stand has a seasonal stream. Steep hill north from hardwood downhill into stand. Part of stand being converted to fir due to beaver activity. Sugar 2" under parts of stand. |
| 34 | 4130 - Aspen | Sapling Well | 66.0 | 26 | Immature | Heavy soils. Roads really retain water so problem areas. Stand transitioning to small poles. Tamarack, sugar maple, and elm saplings present. A few wetter/vernal pond areas contain willow or alder and are not well-stocked. Higher stocking of white spruce in overstory to south. More exposed bedrock to south. |
| 35 | 4110 - Sugar Maple Association | Sawtimber Well | 3.9 | 76 | 81-110 | Patch of hardwood retained from past aspen clearcut (sale #013-08 "Neighbor Ben Sale") cut Sept - Dec., 2009. Scattered aspen and white spruce in overstory. |
| 36 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 0.0 | 86 | 81-110 | 4-5 stick fir. Spruce 5-6 stick tall. Pockets with higher overstory fir densities. |
| 37 | 4110 - Sugar Maple Association | Sawtimber Well | 75.5 | 86 | 81-110 | Cut under permit # 035-98-01, around 2000. Average BA runs around 85 sq. ft.. Good quality hardwood. Excellent sugar maple regeneration from 20 years ago but not much new regeneration from last cut. Steep bank to creek. M3 areas east near old opening. |
| 38 | 6130 - Fir, Aspen, Maple | Poletimber Medium | 9.4 | 53 | 51-80 | Mostly a fir stand with areas of balsam poplar mostly low. Converting to hardwood south on higher ground. Biodiversity maintenance stand and buffer to protect riparian values of Dexter creek. Alder in spots close to creek. Steep bank in areas. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|---|-------------------|-------|--------------|-------------|---|
| 39 | 4199 - Other Mixed Upland Deciduous | Poletimber Medium | 27.5 | 47 | 51-80 | Stand flooded. Fir and spruce saplings present. Better stocked North end but ash and most other trees are small. Some slight raised areas in stand contain cedar and spruce. Mostly 1-2 stick trees. Dead tops on larger ash. Wetland flow to creek, Some Q and C areas near creek and south narrow part, but most of the main stand is small black ash. This stand is put in biodiversity maintenance to protect riparian and wetland values, and headwater flow for Dexter creek. |
| 40 | 612 - Lowland Coniferous Forest | Poletimber Well | 38.9 | 52 | 81-110 | OIPC - FMD: Narrow strips cut out and other parts cut in past. Cut parts and other open parts have F3 in them along with balsam poplar, w. birch, and aspen 2-4" dbh. Blowdown in spots, but overall stand is Q6 with cedar, tamarack, and spruce 8" dbh. Areas of upland have more aspen but most of stand thick with cedar and is lowland. |
| 41 | 4319 - Mixed Upland Forest | Sawtimber Well | 22.8 | 52 | 81-110 | Very shallow soil with limestone bedrock. Stand in decline with many snags. |
| 42 | 6120 - Lowland Cedar | Poletimber Well | 2.4 | 87 | 171-200 | |
| 43 | 6122 - Black Spruce | Sapling Poor | 12.9 | 47 | Unspecified | Old beaver pond with encroaching trees. Stream going through stand. Scattered trees left on hummocks and seeding in. Some wetland grasses. Stream buffer stand put in biodiversity maintenance to protect riparian values. Stream about 10 feet wide. |
| 45 | 6111 - Lowland Balsam Poplar | Poletimber Well | 20.7 | 26 | 81-110 | Mostly well-stocked balsam poplar stand with alder and willow. A few wetland areas poorly stocked with trees. |
| 46 | 6119 - Mixed Lowland Deciduous Forest | Poletimber Medium | 1.8 | 77 | 51-80 | Mostly a fir and mixed hardwood stand with areas of balsam poplar. Steep bank down to Dexter Creek. This is a buffer stand protecting riparian corridor. |
| 52 | 4117 - Mixed N. Hardwood - Pine | Poletimber Medium | 19.1 | 36 | 1-50 | 05/23/2013 - a total of 10 red oak trees was planted in this stand. May want to plant more oaks in open areas of this stand in the future. Cherry savanna or maturing upland brush. Openings interspersed with low stocking of trees. Large crowned mast producing cherry good for wildlife. Still open areas where spruce/fir continues to seed in. Long north-south running ridge along west side of stand. |
| 53 | 42320 - Upland Spruce | Poletimber Medium | 6.6 | 46 | 51-80 | Shallow soil over limestone bedrock. Trees filling in old opening. Aspen poles in overstory. Found aspen saplings. Clumps of hawthorn from old wildlife division plantings. |
| 54 | 4110 - Sugar Maple Association | Sawtimber Well | 1.2 | 80 | 81-110 | Good quality hardwood. Cut in 2001 under permit # 34-98-01. Small island left in large, surrounding aspen clearcut. |
| 55 | 4130 - Aspen | Sapling Medium | 9.8 | 27 | Immature | Some sparse areas. Allow to mature. |
| 56 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 5.9 | 41 | 51-80 | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-------|--|-------------------|-------|-----------|----------|--|
| 58 | 42110 - Planted Red Pine | Poletimber Well | 1.1 | 44 | 81-110 | Red pine plantation which was planted by road commission to create windbreak. |
| 59 | 4130 - Aspen | Sapling Well | 87.7 | 17 | Immature | Very scarce conifer in understory. Heavy raspberry. Stand has been seriously impacted by large aspen tortrix defoliation for 2 out of 3 last years (had abated this past summer). |
| 61 | 42330 - Upland Fir | Poletimber Poor | 1.6 | 21 | Immature | Mosaic of fir and openings. |
| 62 | 4112 - Maple, Beech, Cherry Association | Poletimber Medium | 5.7 | 31 | 51-80 | This stand is adjacent to the closed Twsp dump on state land. Fence around east and south sides of dump. Serviceberry present. White pine, white spruce, and fir saplings present. Fir poles present. Small patch of blueberry. Some small clumps of hazel. Semi-open in areas. Thicker canopy to south. |
| 64 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Well | 19.4 | 101 | 81-110 | Very tall tamarack. Tamarack snags. Did not encounter pools of water. Balsam poplar component of canopy. Cedar is patchy in distribution. |
| 67 | 42340 - Upland Spruce/Fir | Poletimber Well | 4.1 | 41 | 81-110 | Stand at high risk for spruce budworm infestation. Should treat in conjunction with other SBW high-risk stands in this compartment, so small acreage not an issue.. |
| 68 | 42360 - Upland Cedar | Poletimber Well | 3.4 | 101 | 81-110 | White birch saplings and willow present. |
| 69 | 4130 - Aspen | Poletimber Well | 63.6 | 27 | 51-80 | Some 1 stick aspen. Widely scattered white pine poles. Elm poles. Sugar maple saplings present. Light hazel patches. |
| 72 | 4199 - Other Mixed Upland Deciduous | Sapling Medium | 1.3 | 11 | Immature | Area was roller-chopped in last 10 years. Aspen reproduction plentiful. Black cherry poles. |
| 73 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Well | 22.6 | 46 | 81-110 | Some patches with higher stocking of red maple. Pockets of mature fir. Aspen mainly 2 to 3 stick, with some 4 stick. Elm, yellow birch, red pine, and white pine infrequent overstory components. White spruce very tall. |
| 74 | 4319 - Mixed Upland Forest | Poletimber Well | 0.6 | 67 | 81-110 | East stand line parallels long ridge, which descends to east into stand 52. Stand at high risk for SBW damage. |
| 75 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 1.3 | 86 | 81-110 | 4-5 stick fir. Spruce 5-6 stick tall. Pockets with higher overstory fir densities. |
| 76 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 0.0 | 86 | 81-110 | 4-5 stick fir. Spruce 5-6 stick tall. Pockets with higher overstory fir densities. |
| 77 | 4112 - Maple, Beech, Cherry Association | Sawtimber Well | 27.8 | 76 | 81-110 | |
| 79 | 4199 - Other Mixed Upland Deciduous | Sawtimber Medium | 10.9 | 56 | 51-80 | |

S
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Gwinn Mgt. Unit

Report 7 – Forested Stands

Compartment: 96
Year of Entry: 2018



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-------|-------------------------------------|----------------|-------|-----------|----------|--|
| 403 | 4139 - Aspen, Mixed Deciduous | Sapling Medium | 1.1 | 16 | Immature | Will possibly use for landing/decking area when harvesting stand 20. |
| 423 | 4199 - Other Mixed Upland Deciduous | Sapling Poor | 37.6 | 6 | Immature | Prescribed burn occurred in early May, 2011. Mosaic of linear open areas interspersed with thickets of cherry brush. Old farm field. Several rock windrows. Scattered white spruce saplings present. Introduced flowering crabapples and autumn olive found to west side of two-track. Some serviceberry. Allow to transition to fir/spruce/aspen stand. |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|--------------------------------|-------|--------------|--|
| 8 | 330 - Low-Density Trees | 1.3 | No | |
| 44 | 6220 - Alder/willow | 0.8 | No | OIPC - FMD: Drained beaver pond filling in. Stream going through stand. Scattered trees left on hummocks and seeding in. Lowland brush (alder) but marsh. Stream about 10 feet wide. |
| 47 | 500 - Water | 1.1 | No | Spring fed pond with very clear water. Old trout structures? built in pond and resting on the bottom. Stream leaving pond is about 10' wide. Very scenic. |
| 48 | 6220 - Alder/willow | 18.0 | No | SCA. Areas of balsam poplar and fir thickets, but mostly low. Riparian zone along Dexter creek. Steep banks in areas, and series of banks in others. Some areas poorly stocked due to drained beaver ponds and other beaver activity. Open grassy areas in drained beaver ponds. Some cedar especially along creek northwest, but scattered throughout. |
| 49 | 720 - Exposed Rock | 1.6 | No | Wildlife Division excavated large depression to create pond. Water is often present from snowmelt until early June, then dry rest of year. |
| 50 | 710 - Sand, Soil | 1.3 | No | Wildlife Division excavated depression but does not hold water. |
| 51 | 710 - Sand, Soil | 0.7 | No | Wildlife Division excavated depression but has never held water. Sand and chunks of limestone. |
| 57 | 6220 - Alder/willow | 1.5 | No | Very dense willow. Sparse cedar poles. Some aspen saplings in patches. |
| 66 | 3102 - Grass | 2.7 | No | Limestone bedrock with very shallow soil. Trees seeding in on edges do not get large and eventually blow over while small. |
| 71 | 3105 - Mixed Upland Herbaceous | 16.5 | Yes | Some low cherry brush invading stand (10 to 15%), with some scattered white spruce. Prescribed burn occurred on May 5, 2011. Stands 55 and 423 were also treated with this burn for a total of 101 acres. Reference the Prescribed Burn Completion Report for additional details. Scattered patches of wild parsnip. Would suggest using herbicide to kill-back the re-sprouting cherry. Former grazing or farm field (rock piles and better grass). Nice wildlife opening. |
| 401 | 3105 - Mixed Upland Herbaceous | 37.7 | Yes | Cherry brush invading stand, with some scattered white spruce. Prescribed burn occurred on May 5, 2011. Stands 55 and 423 were also treated with this burn for a total of 101 acres. Reference the Prescribed Burn Completion Report for additional details. Additional means will be required to control encroaching cherry as prescribed fire caused cherry to proliferate. Would suggest using some type of herbicide to set-back the re-sprouting cherry before too late. Some small aspen clones. 2 old apple trees. Stand will transition into upland brush by next entry. May want to allow to transition to semi-open stand and plant scattered oak? Occasional Washington haws. Site surface rough. |
| 404 | 31021 - Cool Season Grass | 8.1 | No | This is the old Mathias Twsp dump. DEQ has been monitoring surface vegetation and fencing/gates within last two years. Mathias Twsp still has several years left on their obligation to keep woody vegetation from filling in and having fence posted along perimeter. Nice grass. Many PVC pipes venting old dump. No new dumping. |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|-----------------------------------|-------|--------------|---|
| 405 | 3303 - Mixed Low Density Trees | 3.4 | No | |
| 406 | 3102 - Grass | 2.4 | No | Cherry brush. Sparse white spruce and aspen poles. Site surface rough. 75% to 80% open. Moderate quality grass forage. |
| 407 | 3303 - Mixed Low Density Trees | 0.7 | No | |
| 409 | 31021 - Cool Season Grass | 0.7 | No | |
| 410 | 31021 - Cool Season Grass | 4.2 | No | |
| 411 | 31021 - Cool Season Grass | 1.2 | No | |
| 412 | 3105 - Mixed Upland Herbaceous | 1.4 | No | Stand approximately 85% open. Some cherry brush, fir saplings, and red maple saplings. Poor soils. |
| 413 | 3105 - Mixed Upland Herbaceous | 2.3 | No | Some encroaching cherry brush, white spruce saplings, and trembling aspen reproduction. Poor site nutrients. St. John's Wort present. |
| 414 | 310 - Herbaceous Openland | 0.8 | No | Stand is being invaded by sugar maple saplings and cherry brush. Areas of sandy, infertile soil. Not a stand to be maintained over long-term in an open condition. |
| 415 | 310 - Herbaceous Openland | 5.2 | No | Aspen whips encroaching along perimeter. Not very fertile soil. Allow to revert to forested condition. |
| 416 | 3301 - Low Density Deciduous Tree | 1.4 | No | Cherry brush prevalent. Site will fill in and be forested by next entry. Rough ground and little forage value. Fringe of mature aspen and fir. |
| 417 | 310 - Herbaceous Openland | 1.5 | No | OPIC - FMD: OI Stand Year Origin was |
| 419 | 310 - Herbaceous Openland | 1.0 | No | |
| 421 | 310 - Herbaceous Openland | 1.0 | No | OPIC - FMD: OI Stand Year Origin was |
| 422 | 3101 - Poverty Grass, Cladonia | 1.7 | No | Heavy maple reproduction along edges. Moss, lichen, and clubmoss. |