



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72002

Entry Year 2020

Acreage: 1,699

County Oscoda

Management Area: AuSable Outwash

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**Revision Date:** 2018-07-11

**Stand Examiner:** Scott McClarren

**Legal Description:**

T26N, R1E, Section 1 and T27N, R1E, Sections 25, 26, 27, 28, 35, and 36.

**Identified Planning Goals:**

To maintain species diversity while also addressing sustainability, forest health, productivity, wildlife requirements, aesthetics, best management practices and recreational opportunities throughout the compartment.

**Soil and topography:**

Compartment is primarily Grayling sands, Rubicon-Roselawn sands, and Chelsea soils. Terrain is mostly flat to rolling hills.

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

Compartment is State land intermixed with private land. There are residences scattered throughout the compartment.

**Unique Natural Features:**

The AuSable River, a designated Natural River.

**Archeological, Historical, and Cultural Features:**

None.

**Special Management Designations or Considerations:**

A small portion of stand 44, in the south part of the compartment, borders the AuSable River.

**Watershed and Fisheries Considerations:**

Beaver Creek and the AuSable River (a Natural River and coldwater trout stream) run through the compartment.

**Wildlife Habitat Considerations:**

To maintain and manage the existing forest cover types for Ruffed Grouse, Woodcock, White-tailed Deer, Wild Turkey, Black Bear and Squirrel, along with non-game species that exist within the compartment. There have been sightings of the Massasauga Rattle Snake and Wood Turtle within the compartment.

**Mineral Resource and Development Concerns and/or Restrictions**

Active sand/gravel operations are located at least five miles away, but sand & gravel potential is very good within the compartment. Prairie du Chien (St. Peter) gas production is occurring three miles to the west, and some plugged Antrim gas wells are located five miles to the northeast. There may be additional natural gas potential beneath the compartment. There are currently no active leases within the compartment, but there has been leasing in the past. There is no known metallic mineral potential in this part of the state. The state does not own the mineral rights beneath some of the compartment. Private mineral rights owners must be allowed reasonable access to the surface should they choose to explore and/or develop the minerals.

**Vehicle Access:**

Compartment is accessible from Ruth Road, Townline Road, Cherry Creek Road, Kneeland Road, Hanson Road and Seeley Road. Several two-tracks branch off of these roads into the compartment.

**Survey Needs:**

None

**Recreational Facilities and Opportunities:**

Mio to Meadows Mi. Cross Country Cycle Trail occurs in section 36. The mixed upland tree cover type and stream tributaries provide forage for small game and deer. The county and state forest roads provide access to hunters, and other dispersed recreation interests. (A.2018)

**Fire Protection:**

Compartment falls under the protection of the Red Oak Volunteer Fire Department and the Michigan Department of Natural Resources. The nearest water sources are the AuSable River and Beaver Creek.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

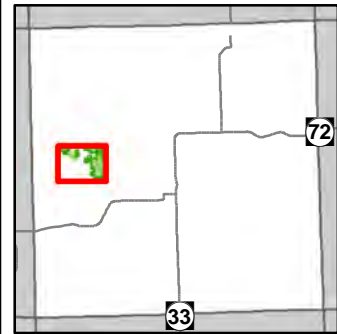
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

**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**



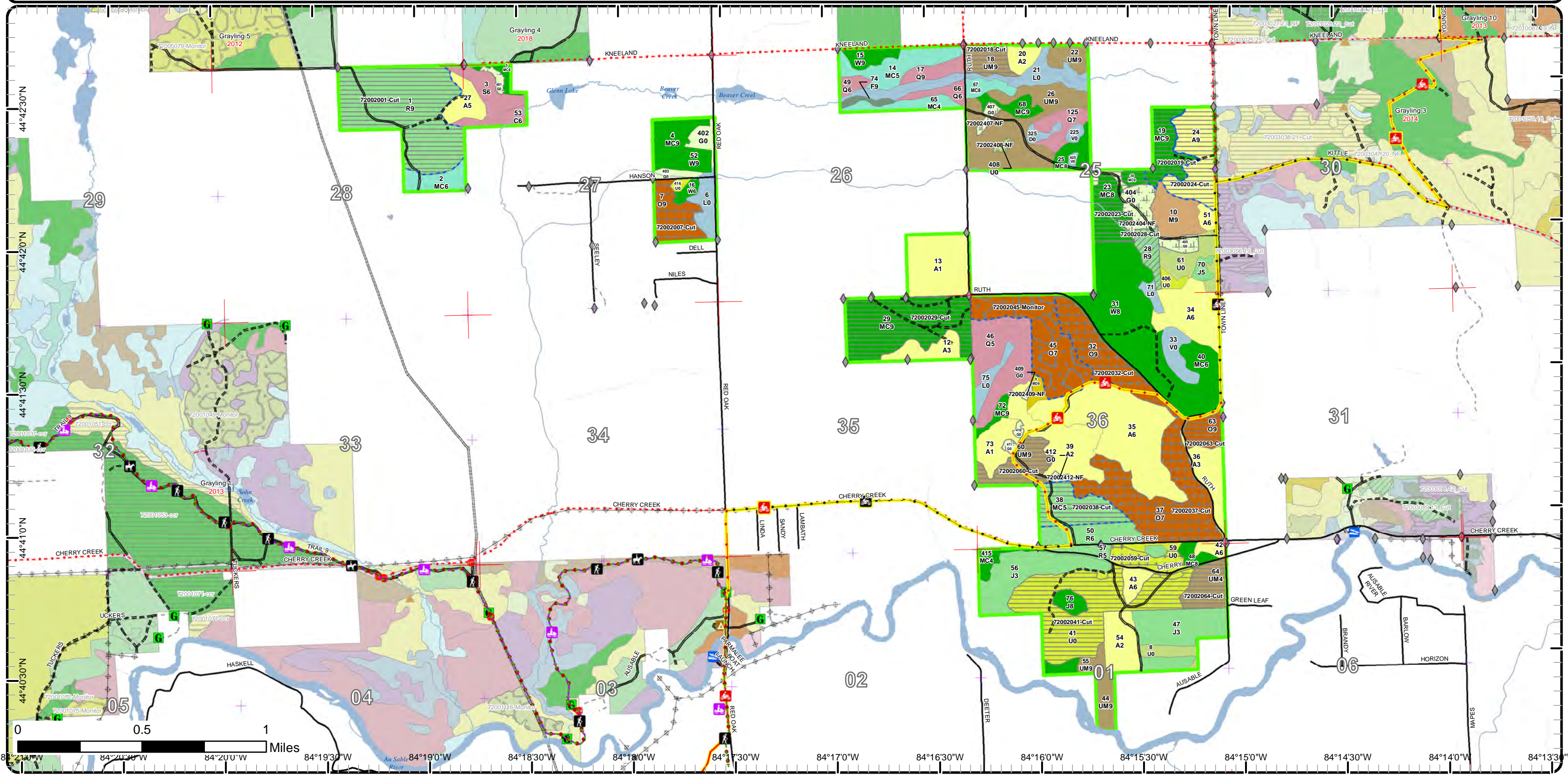
# Cover Type & Treatments Map



Compartment: 2  
 T27N, R01E, Sec. 25-28, 35, 36  
 T26N, R01E, Sec. 1  
 County: Oscoda  
 Unit: Grayling  
 Mgmt Area: AuSable Outwash  
 YOE: 2020  
 Acres: 1,699 GIS Calculated  
 Examiner: Scott McClarren  
 Map Revised: 1/17/2019  
 Map Phase: Post-Review

- Miris Corners
- Remonumented Section Corners
- Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Horse Trails
- Motorcycle Trails (SOS License)
- Motorcycle Trails (DNR License)
- MCCCT Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- ORV License
- ORV License & Trail Permit
- Designated ATV
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)

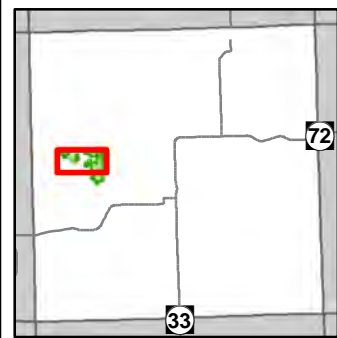
- Berms
- Gate
- Boating Access Site
- Bridges
- Campground
- Sign
- Structures
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- Lakes



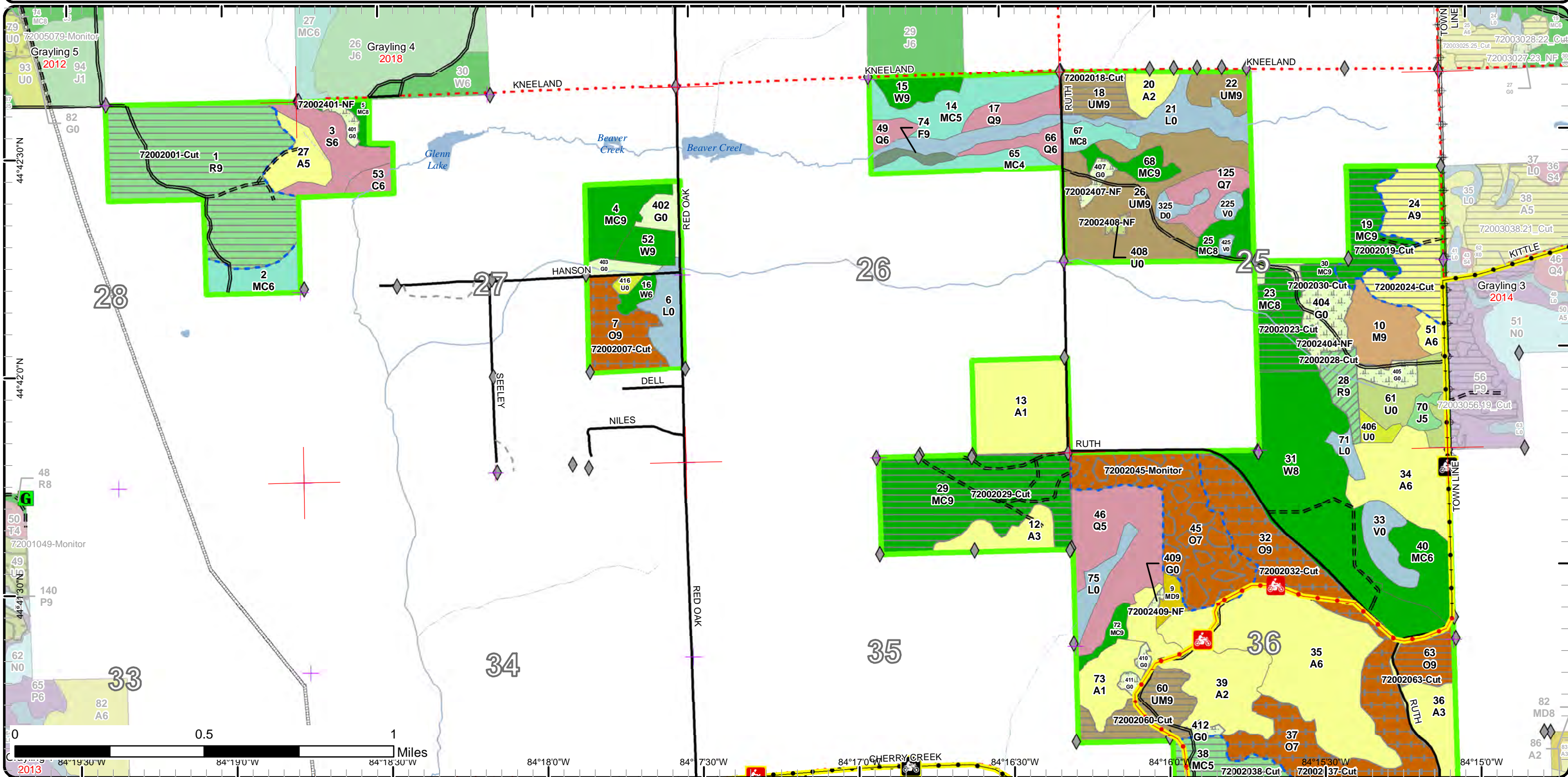


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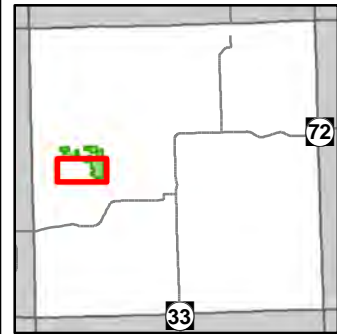


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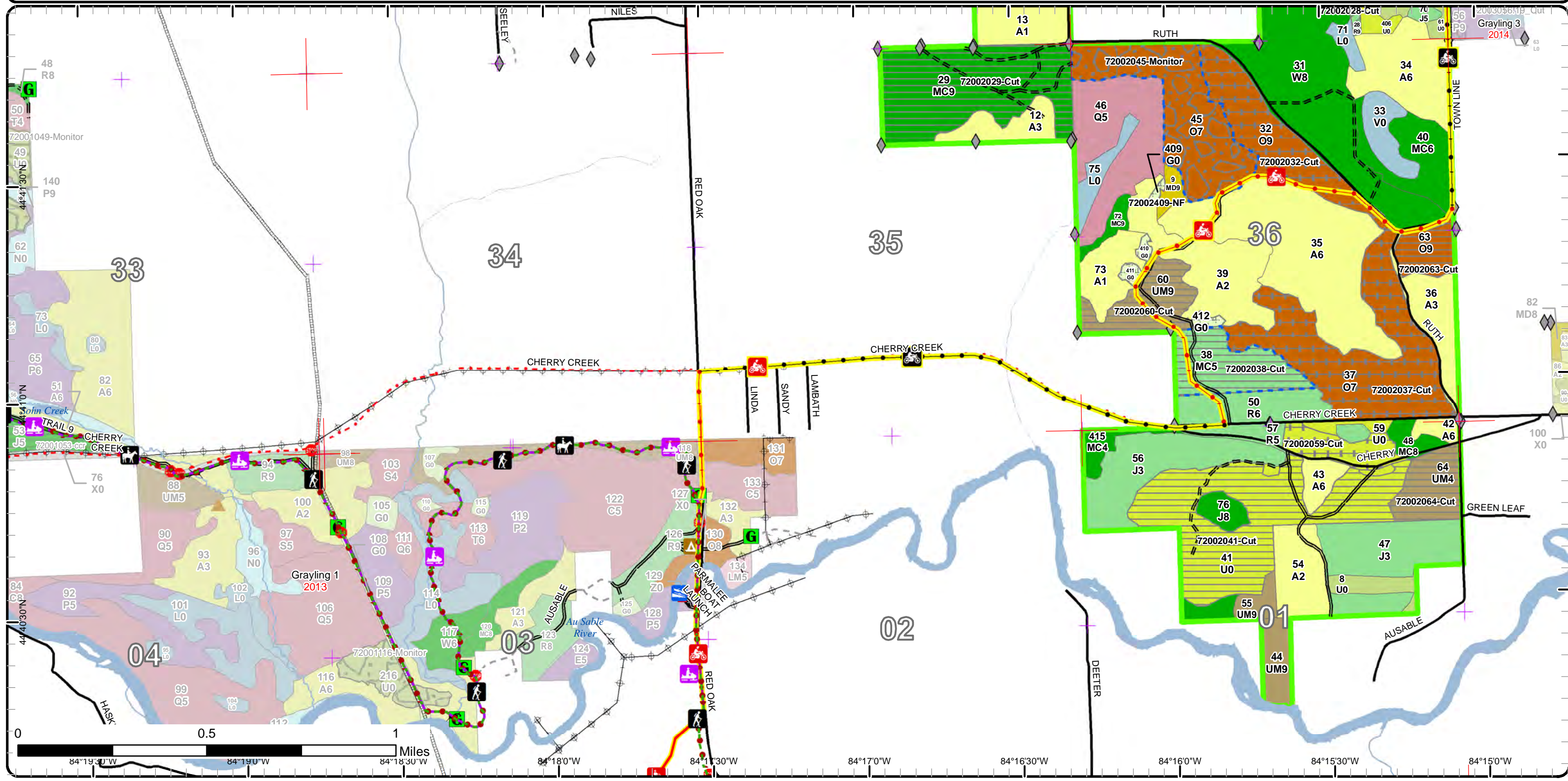
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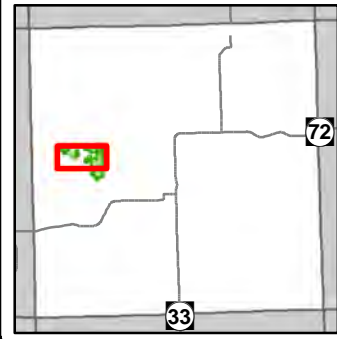
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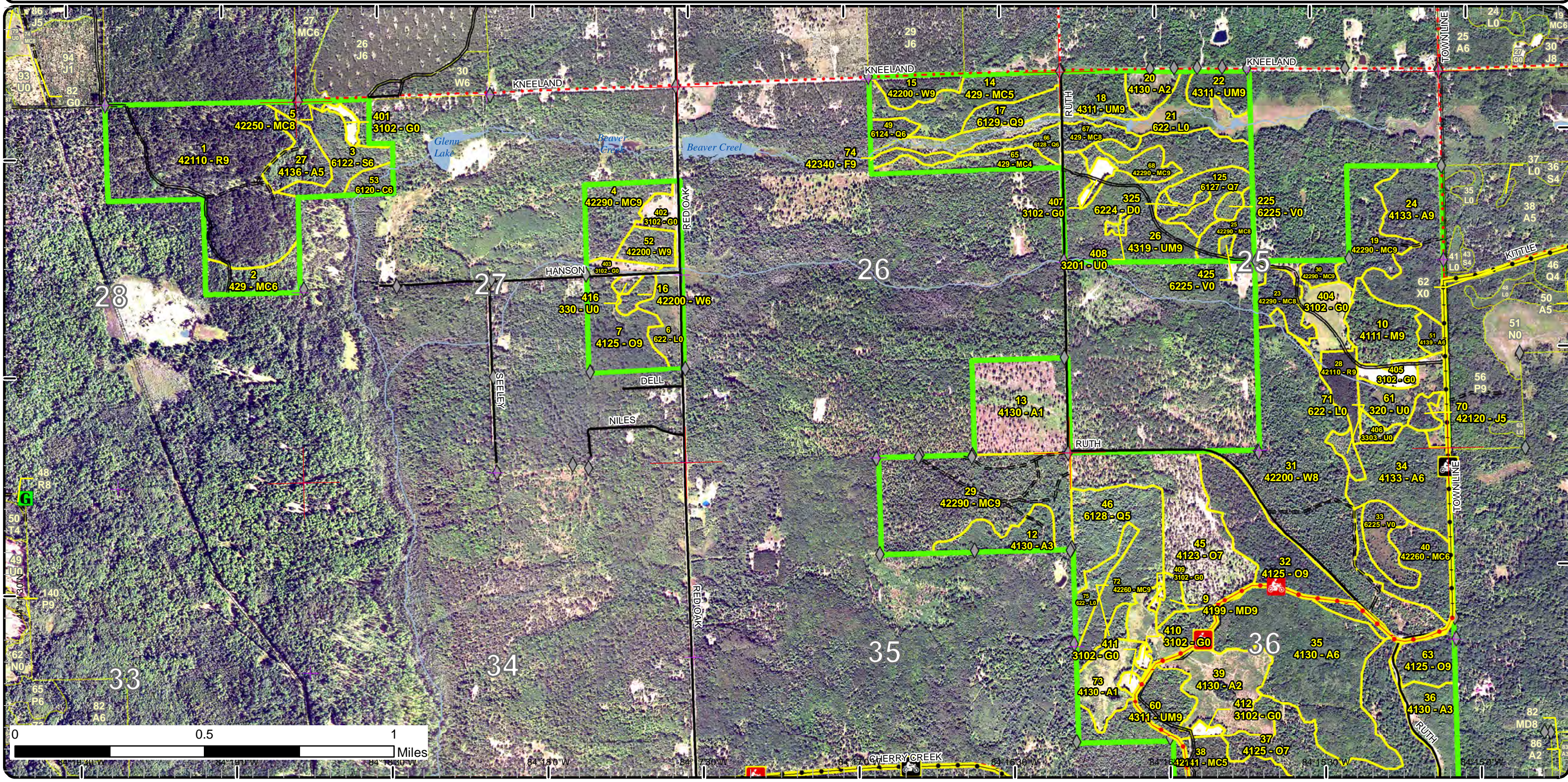


**Stand Boundary Map**



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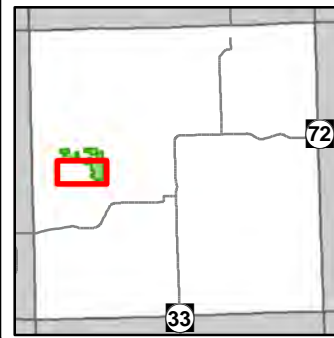
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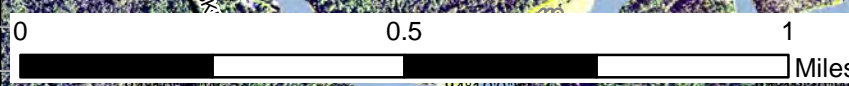
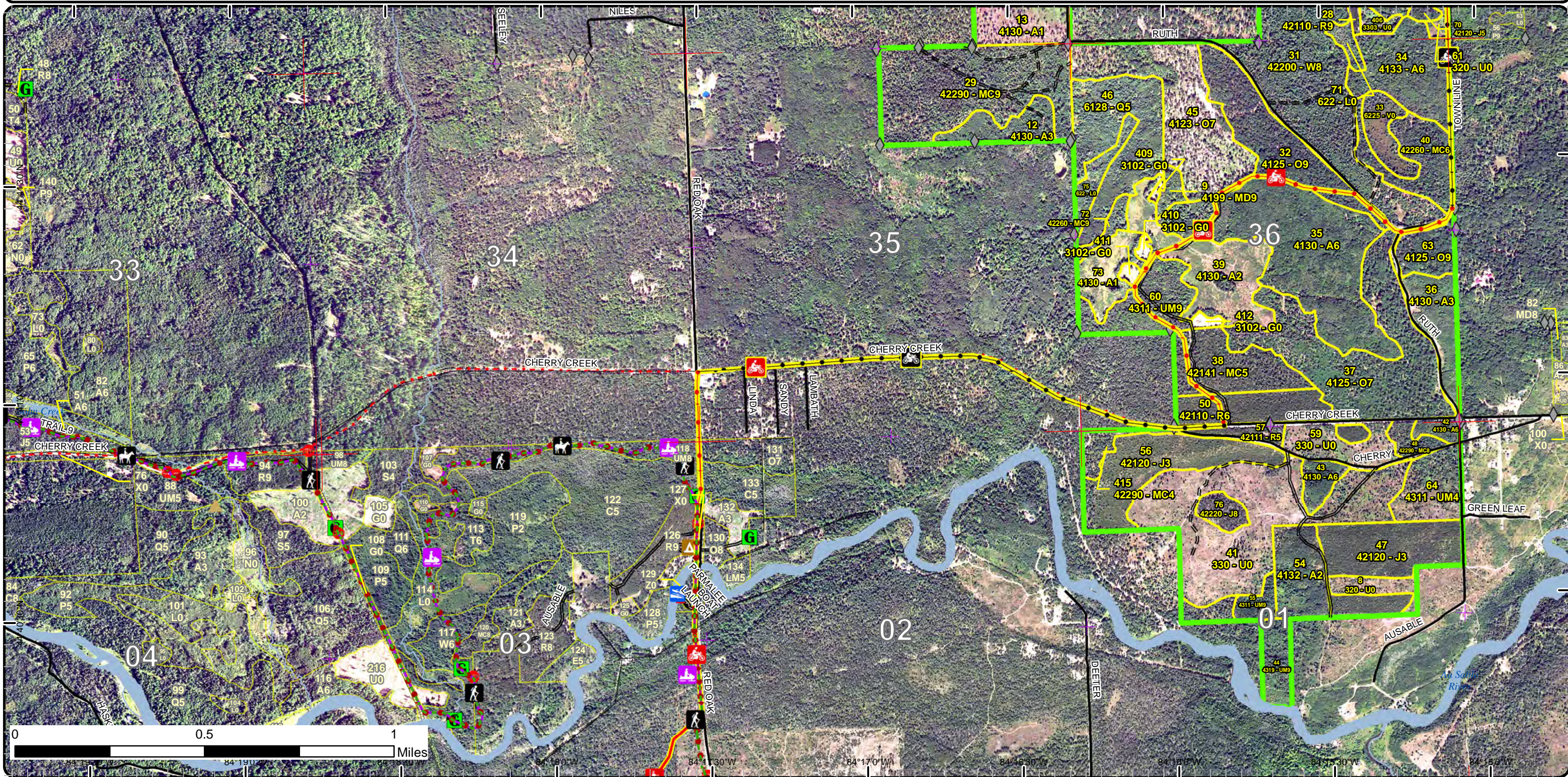
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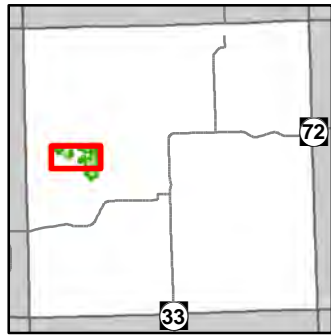


84°19'0"W    84°18'0"W    84°17'0"W    84°16'30"W    84°16'0"W    84°15'30"W    84°15'0"W

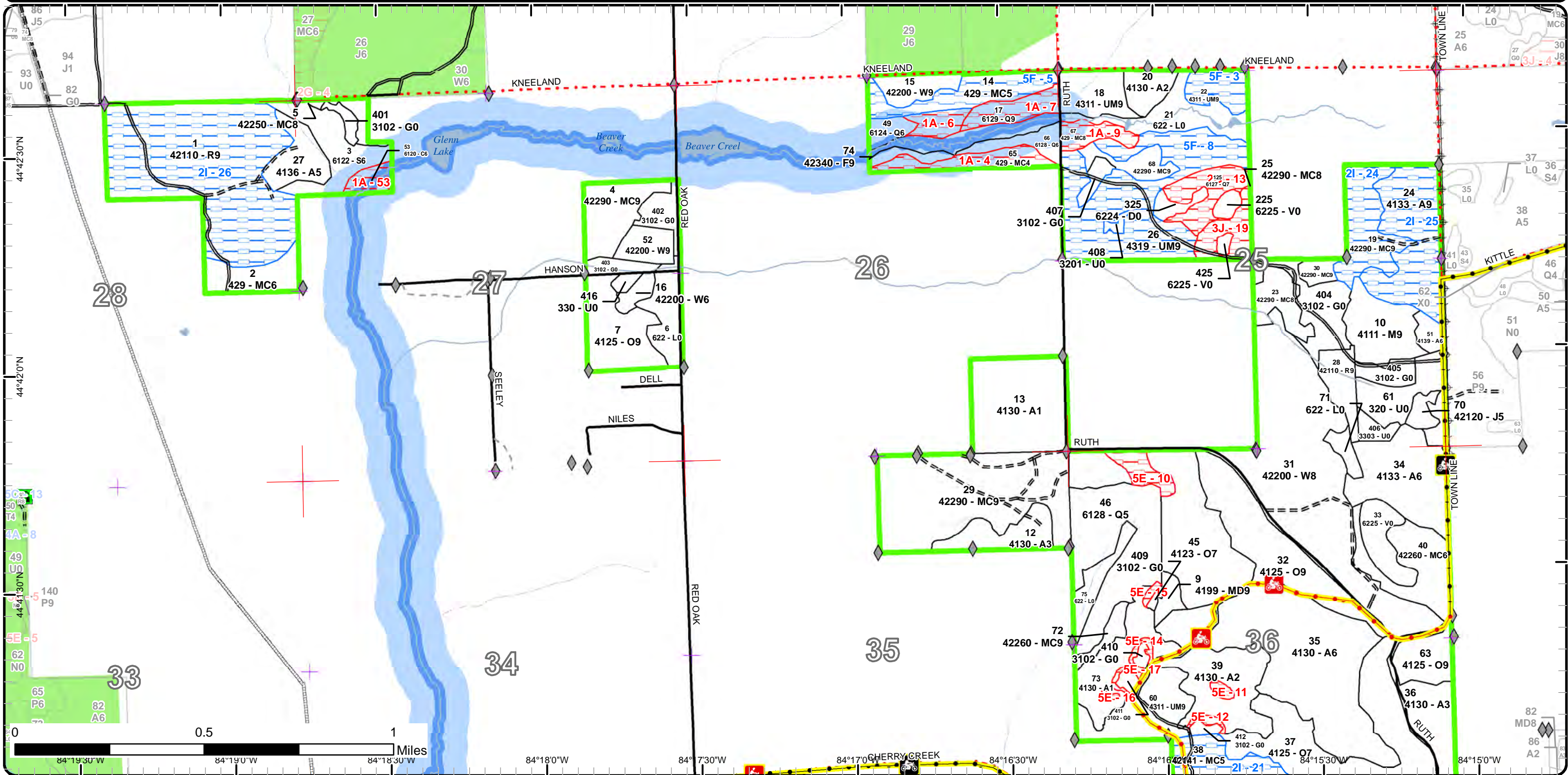


# Special Conservation Areas & Site Conditions Map

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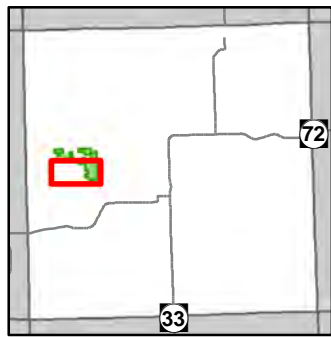
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- ⚡ Powerline
- 🟩 Compartment Boundary
- 🟩 Available w/ Constraints
- 🔴 Unavailable
- 2I: Survey needed
- 1A: Federal/State/Local Law
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- 🟩 Stand Boundaries
- 🟩 Natural Rivers Vegetative Buffer
- 🟩 Natural Rivers Zoning District
- 🟩 Kirtland Warbler Habitat
- 🟩 Cold Water Streams
- 🟩 Cold Water Lakes



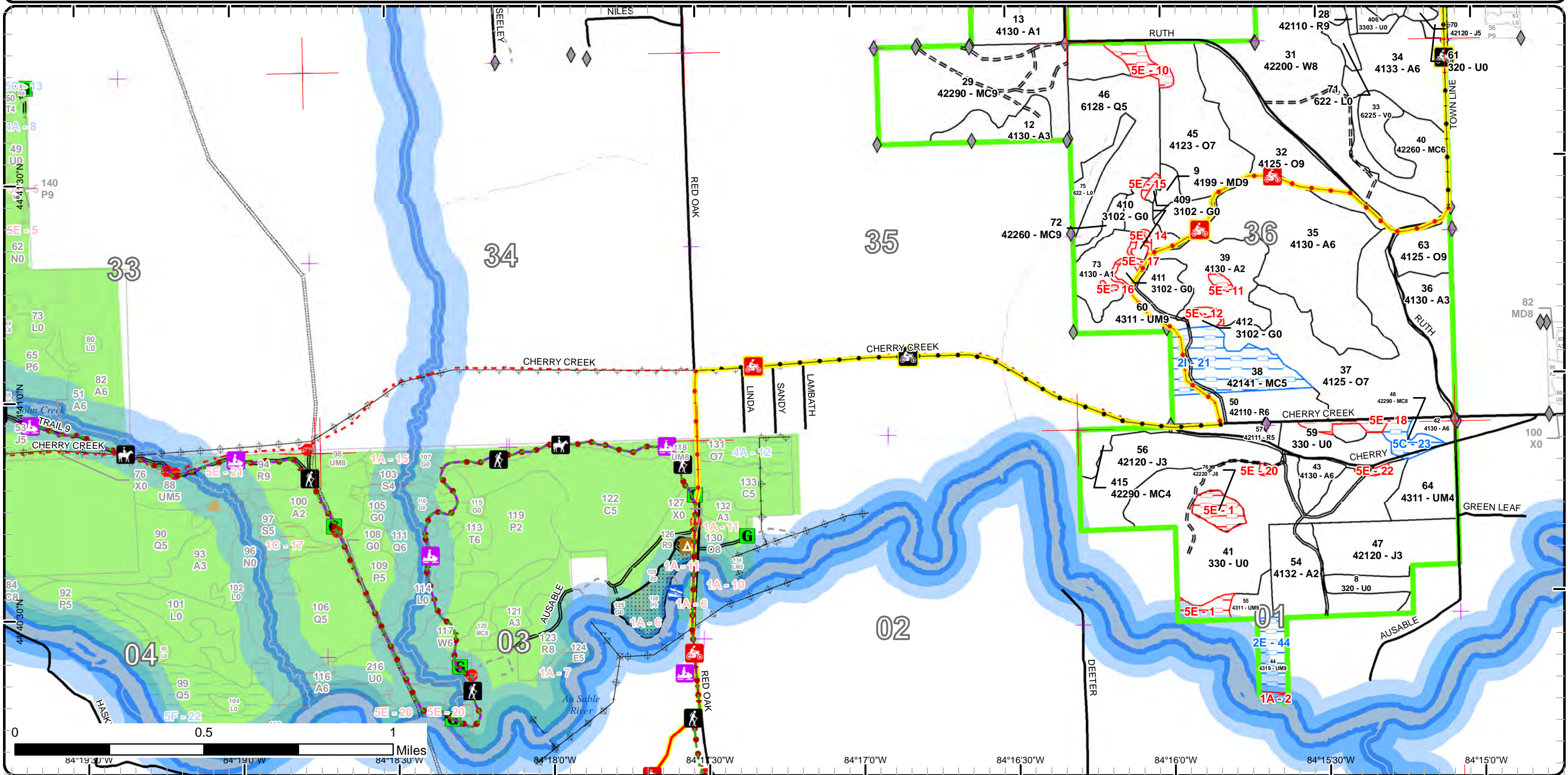


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| <ul style="list-style-type: none"> <li>— Miris Corners</li> <li>— Remonumented Section Corners</li> <li>◆ Field Grade Corners</li> <li>--- Counties</li> <li>— DNR - Primary Forest Road</li> <li>— DNR - Secondary Forest Road</li> <li>== DNR - Forest Access Route</li> <li>— Federal / State / County - Paved Road</li> <li>- - - County - Gravel Road</li> <li>- - - Private - Dirt / Gravel Road</li> <li>👤 Hiking Trails</li> <li>🐎 Horse Trails</li> </ul> | <ul style="list-style-type: none"> <li>🏍️ Motorcycle Trails (SOS License)</li> <li>🏍️ Motorcycle Trails (DNR License)</li> <li>🏍️ MCCCT Trails</li> <li>👤 Snowmobile Trails</li> <li>— Designated Hiking Trails</li> <li>● Designated Equestrian Trails</li> <li>— ORV License</li> <li>— ORV License &amp; Trail Permit</li> <li>— Designated ATV</li> <li>— Designated Snowmobile Trails</li> <li>— Michigan Cross Country Cycle Trail (MCCCT)</li> </ul> | <ul style="list-style-type: none"> <li>▲ Berms</li> <li>🚪 Gate</li> <li>🚤 Boating Access Site</li> <li>🌉 Bridges</li> <li>🏕️ Campground</li> <li>🛑 Sign</li> <li>🏠 Structures</li> <li>--- Intermittent Stream</li> <li>— Perennial River</li> <li>— Lakes and Rivers All</li> <li>— Pipeline</li> <li>⚡ Powerline</li> <li>📏 Compartment Boundary</li> <li>📏 Available w/ Constraints</li> </ul> | <ul style="list-style-type: none"> <li>🚫 Unavailable</li> <li>2E: Road needed</li> <li>2I: Survey needed</li> <li>5C: Delay treatment for age/size class diversity or exceptional site quality</li> <li>1A: Federal/State/Local Law</li> <li>5E: Long-Term Retention</li> <li>📏 Stand Boundaries</li> <li>📏 SCA</li> <li>🌿 Natural Rivers Vegetative Buffer</li> <li>🌿 Natural Rivers Zoning District</li> <li>🌿 Kirtland Warbler Habitat</li> <li>🌿 Cold Water Streams</li> <li>🌿 Cold Water Lakes</li> <li>🌿 High Priority Trout Stream Buffer</li> </ul> | <ul style="list-style-type: none"> <li>🏕️ State Forest Campground</li> </ul> |
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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	103	35	21	105	40	37	0	0	0	0	0	0	0	0	0	0	0	341
Bog	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Cedar	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Herbaceous Openland	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Jack Pine	0	0	38	40	4	0	0	0	0	11	0	0	0	0	0	0	0	0	93
Low-Density Trees	109	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109
Lowland Conifers	0	0	0	44	0	7	5	0	0	13	0	0	10	0	0	0	0	0	79
Lowland Shrub	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Lowland Spruce/Fir	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Natural Mixed Pines	0	0	0	0	11	38	4	14	22	79	0	0	0	0	0	0	0	18	186
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	20
Oak	0	0	0	0	0	0	0	0	75	0	0	38	35	55	0	0	0	0	203
Planted Mixed Pines	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Red Pine	0	0	0	0	31	0	10	0	0	0	100	0	0	0	0	0	0	0	141
Treed Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Conifers	0	0	0	37	13	0	0	0	0	0	0	0	0	7	0	0	0	0	57
Upland Mixed Forest	0	0	0	0	19	76	0	0	0	24	11	0	0	0	14	0	0	0	144
Upland Shrub	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Upland Spruce/Fir	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	21	98	0	0	0	0	0	0	0	0	0	0	119
<b>Total</b>	<b>257</b>	<b>103</b>	<b>73</b>	<b>142</b>	<b>231</b>	<b>165</b>	<b>77</b>	<b>112</b>	<b>101</b>	<b>132</b>	<b>111</b>	<b>58</b>	<b>45</b>	<b>62</b>	<b>0</b>	<b>14</b>	<b>0</b>	<b>18</b>	<b>1701</b>





## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 2

Total Compartment Acres: 1,699

Commercial Harvest - 411  
 Harvests with Site Condition - 188  
 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	37	0	0	0	0	0	0	0	0	37
Low-Density Trees	84	0	0	0	0	15	0	0	0	99
Natural Mixed Pines	120	0	0	0	0	0	0	0	0	120
Oak	12	0	0	0	0	136	0	0	0	148
Planted Mixed Pines	28	0	0	0	0	0	0	0	0	28
Red Pine	100	0	0	0	10	0	0	0	0	110
Upland Mixed Forest	56	0	0	0	0	0	0	0	0	56
<b>Total</b>	<b>438</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>151</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>599</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	599	0	0	0	0	55	0	30	0	684
Next Step	0	520	260	0	0	260	751	0	0	1792
<b>Total</b>	<b>599</b>	<b>520</b>	<b>260</b>	<b>0</b>	<b>0</b>	<b>260</b>	<b>806</b>	<b>0</b>	<b>30</b>	<b>2476</b>





Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	72002001-Cut	99.9	42110 - Planted Red Pine	Sawtimber Well	91	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No**      **Site Condition: Survey Needed**

Prescription Clearcut with island retention to facilitate site prep and planting. Low stump and chipping specs should be added to contract as well. Boggy drainage in northeast corner of stand with some large white pine would be a good place for retention.

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

Acceptable Fully stocked red pine.  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

7	72002007-Cut	23.2	4125 - Black, N. Pin Oak	Sawtimber Well	114	81-110	Harvest	Overstory Removal	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition:**

Prescription Remove all merchantable oak, pine, fir, spruce, and red maple in overstory to release advanced aspen regen and encourage oak stump sprouts.  
Specs: Cut all red maple stems >2" DBH. Retention in this stand should be focused around inoperable wet areas. Scatter any remaining retention areas into small islands that encompass some of the larger diameter (>20") mast trees. Add oak wilt specs to contract.

Next Step  
Treatments:

Acceptable Aspen with some oak, maple, and pine.  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

18	72002018-Cut	13.7	4311 - Pine, Aspen Mix	Sawtimber Well	143	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition:**

Prescription Clearcut with retention. Use BMP standards for Natural Rivers and Tributaries buffer = 150' from ordinary high water mark. Use Riparian buffer as retention. Put retention along stream that flows into beaver creek. Retain all conifer greater than 26" DBH.

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

Acceptable Aspen with a component of maple and white pine. If aspen regen fails, site prep and plant red pine.  
Regen:

Other If possible cut stand during winter months to maximize aspen sprouts.  
Comment:

Proposed Start Date: 10/1 /2019

19	72002019-Cut	22.3	42290 - Natural Mixed Pine	Sawtimber Well	76	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition: Survey Needed**

Prescription Remove all stems >2" DBH. Leave 10% retention in this stand. Retention should consist of legacy white pine and red pine and left in islands around wetlands. These retention islands and legacy trees should provide a seed source for regeneration of the stand while protecting some of the wetter areas. Access via 2 track that runs through stand 25. Harvest this stand with stand 24. Add additional rutting restrictions into contract. Encourage purchaser to operate during winter months to maximize stump sprouting response since aspen cover is low and planting red pine would be somewhat difficult given the hydrology of the stand. Add grouse drumming log specs.

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

Acceptable Any mix of aspen, red maple, white pine, and red pine. Small openings with lighter regeneration are expected in the more pine dominated areas.  
Regen: If stand fails to naturally regenerate, site prep and plant red pine.

Other Forester should keep operability and accessibility around wetlands in mind during the layout of this stand.  
Comment:

Proposed Start Date: 10/1 /2019





Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
23	72002023-Cut	25.2	42290 - Natural Mixed Pine	Sawtimber Medium	46	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Cut all stems >2" DBH. Put retention along stream and wildlife opening. Harvest, site prep, and plant north half of stand 31, stand 23, stand 30, and the NW corner of stand 404 together. Add low stump spec to contract to facilitate site prep/planting operations.

Specs:

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

Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Fully stocked red pine.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

24	72002024-Cut	37.1	4133 - Aspen, Mixed Pine	Sawtimber Well	51	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Survey Needed**

Prescription Remove all stems 2" or greater using standard retention guidelines. Retain large diameter oaks on south side of stand if operationally feasible.

Specs: Encourage purchaser to cut during dry summer months or winter when ground is frozen if possible. Add more restrictive rutting specs to protect wet areas. Harvest with stand 19. Open wetlands, forested wetlands and vernal pools in stand are good areas to focus island retention around. Add grouse drumming spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with pine, oak, and maple. If aspen fails, site prep and plant red pine.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

28	72002028-Cut	9.9	42110 - Planted Red Pine	Sawtimber Well	55	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Red pine BA varies from 120-250. Thin red pine to a residual BA of 100, but don't remove more than half. Leave all oak greater than 10" DBH.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

29	72002029-Cut	68.8	42290 - Natural Mixed Pine	Sawtimber Well	81	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Cut all stems greater than 2" dbh. Leave retention in islands. Add low stump spec to facilitate possible future planting. Add soft oak wilt restrictions to contract.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, oak, white pine, and red pine are all acceptable species. If regeneration fails, identify deficiently stocked part of stand, site prep, and plant red pine.

Regen:

Other Aspen and oak advanced regeneration are present in higher numbers to the east. Advanced regeneration is patchy or non-existent in areas to the west and may fill in with aspen, oak, and pine. Review for road closures.

Comment:

Proposed Start Date: 10/1 /2019





Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
30	72002030-Cut	3.8	42290 - Natural Mixed Pine	Sawtimber Well	46	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No**      **Site Condition:**

Prescription Cut all stems greater than 2" DBH. Use island retention. Do not allow wildlife opening to be used as landing. Wetland adjacent to stand 30 in stand 19 could be used as retention. Harvest, site prep, and plant north half of stand 31, stand 23, stand 30, and the NW corner of stand 404 together.

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

Acceptable Regen: Fully stocked red pine

Other Comment:

Proposed Start Date: 10/1 /2019

32	72002032-Cut	38.3	4125 - Black, N. Pin Oak	Sawtimber Well	101	51-80	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition:**

Prescription Remove overstory to release advanced regeneration. In addition, remove all red maple stems > 2" DBH. Retention should be left in islands using standard retention guidelines. White oak and larger non-merchantable red oak should be favored for retention within the islands. Focus some retention along the MCCCT trail. Add ORV trail protection specs. Oak wilt timing restrictions required in contract. Consider adding damaged timber spec to protect desirable regen.

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

Acceptable Regen: Red/black/hybrid oak and white oak. White pine and red pine will likely be present in smaller numbers. Some red maple and aspen is also expected to regenerate also.

Other Comment:

Proposed Start Date: 10/1 /2019

37	72002037-Cut	74.8	4125 - Black, N. Pin Oak	Sawtimber Poor	77	1-50	Harvest	Overstory Removal	4131 - Aspen, Oak	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition:**

Prescription Remove all of the overstory to release aspen and oak advanced regeneration. In addition, cut all maple stems greater than 2" DBH. Put retention in islands using standard retention guidelines. Add in spec for damaged timber to protect desirable regen. Add oak wilt restrictions to contract.

Next Step  
Treatments:

Acceptable Regen: Aspen and oak regen is already present in understory. Any pine regen will also be acceptable.

Other Comment:

Proposed Start Date: 10/1 /2019

38	72002038-Cut	28.4	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Medium	37	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**      **Site Condition:**      **Survey Needed**

Prescription Clearcut using island retention to facilitate planting operations. Cut all stems greater than 2" dbh. Add ORV spec to contract. Add oak wilt spec to contract. Add low stump spec to contract.

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

Acceptable Regen: Fully stocked red pine.

Other Comment:

Proposed Start Date: 10/1 /2019





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
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41	72002041-Cut	84.0	330 - Low-Density Trees	Nonstocked		Unspecified	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription Remove all stems >2" DBH. Add low stump specs to facilitate planting operations. Retention areas have already been established and site  
Specs: conditioned during previous harvest.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);  
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Fully Stocked RP  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

45	72002045-Monitor	54.9	4123 - Red Oak	Sawtimber Poor	121	1-50	Monitoring	Natural Regen (Intermediate)	4131 - Aspen, Oak	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription Assess natural regen stocking levels in 2021 and see if oak and white pine recruited and regenerated to acceptable stocking levels. If stocking is  
Specs: acceptable, do overstory removal. If stocking is low, clearcut and plant red pine.

Next Step  
Treatments:

Acceptable Aspen, oak, pine, and maple.  
Regen:

Other Changed acceptable regeneration from previous inventory to include aspen.  
Comment:

Proposed Start Date: 10/1 /2021

59	72002059-Cut	14.9	330 - Low-Density Trees	Nonstocked		Unspecified	Harvest	Overstory Removal	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription Remove overstory to release aspen. Try to protect aspen regen during harvest if possible. Do not include the already designated long-term  
Specs: retention along Cherry Creek Road in harvest.

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

Acceptable Aspen, Cherry, oak, and pine are also acceptable species.  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

60	72002060-Cut	23.9	4311 - Pine, Aspen Mix	Sawtimber Well	88	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription Harvest all stems greater than 2" DBH. Retention should be left in islands. Leave some retention along MCCCT trail. Add ORV trail specs to  
Specs: contract. Do not use wildlife openings as landings.

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

Acceptable Aspen, conifer, oak, and maple are all acceptable. If regen fails, site prep and plant red pine.  
Regen:

Other Best access is via MCCCT trail from Cherry Creek Road.  
Comment:

Proposed Start Date: 10/1 /2019





Standa	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
63	72002063-Cut	11.9	4125 - Black, N. Pin Oak	Sawtimber Well	111	81-110	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	Draft Field Boundary

**Habitat Cut: No**                      **Site Condition:**

Prescription Clearcut with island retention to promote oak stump sprouting. Cut all stems greater than 2" dbh. Add low stump specs in case of failed regeneration to facilitate future planting operations. Use oak wilt timing restrictions. Add trail specs.

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

Acceptable Oak and red maple. White pine and red pine are also acceptable species. If regen fails, site prep and plant red pine.  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

64	72002064-Cut	18.8	4311 - Pine, Aspen Mix	Poletimber Poor	38	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription Clearcut all stems greater than 2" dbh. Use island retention following retention standards and guidelines. Add low stump specs to facilitate planting.

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

Acceptable Fully stocked red pine.  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2019

401	72002401-NF	2.6	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription 2010 YOE FTP opening maintenance C72-669  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2009

404	72002404-NF	13.7	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription 2010 YOE FTP opening maintenance C72-669  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2009





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
405	72002405-NF	5.8	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary

**Habitat Cut: No**                      **Site Condition:**

Prescription 2010 YOE FTP opening maintenance C72-669  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2009

407	72002407-NF	3.4	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription 2010 YOE FTP opening maintenance C72-669  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2009

408	72002408-NF	1.2	3201 - Sweet Fern	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription 2010 YOE FTP opening maintenance C72-669  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2009

409	72002409-NF	0.8	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription 2010 YOE FTP opening maintenance C72-669  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2009





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
410	72002410-NF	1.2	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary

**Habitat Cut: No**                      **Site Condition:**

Prescription 2010 YOE FTP opening maintenance C72-669  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2009

411	72002411-NF	1.6	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription 2010 YOE FTP opening maintenance C72-669  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2009

412	72002412-NF	1.6	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary
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**Habitat Cut: No**                      **Site Condition:**

Prescription 2010 YOE FTP opening maintenance C72-669  
Specs:

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Proposed Start Date: 10/1 /2009

**Total Treatment  
Acreage Proposed: 685.7**



## Report 4 – Site Conditions

Grayling Mgt. Unit  
Scott McClarren : Examiner

Compartment: 2  
Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions										
		With Condition				2E	2I	5C	5F	1A	2G	3J	5E			
341	298	37		6	Aspen		37	0								6
16	16	0		0	Bog						0	0				
5	0	0		5	Cedar					5						
46	46	0		0	Herbaceous Openland		0		0							0
93	81	0		11	Jack Pine											11
109	104	0		5	Low-Density Trees			0								5
78	56	0		23	Lowland Conifers				0	10	13					
55	55	0		0	Lowland Shrub				0	0						
19	19	0		0	Lowland Spruce/Fir		0			0						
4	4	0		0	Mixed Upland Deciduous											
186	148	28		10	Natural Mixed Pines		22	6	0	0				10		0
20	20	0		0	Northern Hardwood											
203	197	0		6	Oak		0									6
28	0	28		0	Planted Mixed Pines		28									
141	41	100		0	Red Pine		100									0
4	4	0		0	Treed Bog						0					
57	13	19		25	Upland Conifers				19	25						
144	62	80		2	Upland Mixed Forest	10	0	0	70	2	0	0				
27	27	0		0	Upland Shrub				0							
3	3	0		0	Upland Spruce/Fir											
119	119	0		0	White Pine											
1,699	1,313	292		93	Total Forested Acres	10	188	6	89	41	13	10				29
	77%	17%		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	5E: Long-Term Retention	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Grayling Mgt. Unit

Scott McClarren : Examiner

Compartment: 2

Year of Entry: 2020

2	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	2	3J: Water quality / BMPs (stream, river, or lake)	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
<b>Comments:</b> Spruce/fir small pole size. 1-3 stick, most of the merchantable spruce/fir in southern third of stand which is natural rivers. Southern half wet conditions. Road would need to be built across public land. No visible evidence of spruce budworm in stand.							
3	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Merchantable spruce/fir makes up less than 15% of overall canopy. Stand has a heavy understory of balsam fir. Southern third of stand probably falls within the natural rivers zone.							
4	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	12	3J: Water quality / BMPs (stream, river, or lake)	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
<b>Comments:</b> 80% of stand falls within the natural rivers vegetative corridor. Access would be an issue. Available portion of stand too small for harvest.							
5	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Merchantable balsam pockets found throughout stand, question whether it is economically viable to harvest.							
6	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	6	3J: Water quality / BMPs (stream, river, or lake)	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
<b>Comments:</b> Part of natural rivers corridor							
7	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	10	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> More than 2/3 of stand falls within Natural River RMZ. Mostly saturated soils with high rutting risk.							



## Report 4 – Site Conditions

Grayling Mgt. Unit

Scott McClarren : Examiner

Compartment: 2

Year of Entry: 2020

8	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	61	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand has been evaluated for spruce budworm concerns. Balsam fir/spruce makes up a very small component of the canopy and is in a codominant position at best. Stand is dominated by pole size aspen, white pine, and red pine. Stand is harvestable, but it would be harvesting a lot of aspen to salvage just a small amount of spruce/fir.							
9	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> More than 80% of stand lies within Natural River RMZ.							
10	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Grayling Mgt. Unit  
Scott McClarren : Examiner

Compartment: 2  
Year of Entry: 2020

15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Large portion of stand falls within BMP buffer for bog features.							
20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Available	2I: Survey needed	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Survey needed for timber harvest.							
22	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Grayling Mgt. Unit

Scott McClarren : Examiner

Compartment: 2

Year of Entry: 2020

23	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand does not need treatment at this time. Consider treating next year of entry (2030).							
24	<b>Available</b>	<b>2I: Survey needed</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Survey needed for timber harvest.							
25	<b>Available</b>	<b>2I: Survey needed</b>	37	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Survey needed for timber harvest.							
26	<b>Available</b>	<b>2I: Survey needed</b>	100	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Survey needed for timber harvest.							
44	<b>Available</b>	<b>2E: Road needed</b>	10	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Spruce/fir small pole size. 1-3 stick, most of the merchantable spruce/fir in southern third of stand which is natural rivers. Southern half wet conditions. Road would need to be built across public land. No visible evidence of spruce budworm in stand.							
53	<b>Unavailable</b>	<b>1A: Federal/State/Local Law</b>	5	3J: Water quality / BMPs (stream, river, or lake)	2G: Too wet (sensitive soils, does not include access issues)	2E: Road needed	Unspecified
<b>Comments:</b>							



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
<b>Comments</b>				





## Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42110 - Planted Red Pine	Sawtimber Well	99.9	91	111-140	Small pockets of dense pole sized aspen in a few places. Release cut done in 1982, removed hardwoods, jack pine, and spruce (SM 5/22/18). Old comment-OPIC - FMD: 2008 Notes: Red Pine plantation that was planted in 1931. Some areas of the stand are open and filling in with some Jack Pine. The rest of the open areas remain in grasses and some cherry. Stand is surround by private property and access to some of the private is through this stand. Treat in 10 years However, could check with silviculturalist about possibly treating this year of entry.
2	429 - Mixed Upland Conifers	Poletimber Well	13.3	38	81-110	A few large red and white pine scattered through stand. Split pretty close to being 70/30 upland to lowland. Harvested in 1981 with stands 3, 5, and 27; Swamp Red Oak Sale #011-81A (SM 5/21/18). Old comment-OPIC - FMD: Aspen stad mixed with spruce/fir
3	6122 - Black Spruce	Poletimber Well	19.5	38	111-140	Spruce/fir dominate canopy. Most of this stand is on south and west facing slopes. Squishy saturated soils in most areas. Springs are scatted along the slopes and flow down into the Beaver Creek tributaries and main stream. Mossy understory in many places with small wet openings containing tag alder. A few cotton High rutting potential. Harvested in 1981 with stands 2, 5, and 27; Swamp Red Oak Sale #011-81A (SM 5/16/18). Old comment-OPIC - FMD: Aspen with mix of JP, spruce, fir
4	42290 - Natural Mixed Pine	Sawtimber Well	18.2	88	81-110	Rows not apparent. Old growth remnant red pine and white pine, 20"+ and 150+ years old scattered through stand. Large snags and ddw. Openings with white pine, aspen, and red maple regen. Selection harvest took place in 1990 under contract #72-046-90 (SM 5/16/18). Old Comment-OPIC - FMD: 2008 Notes: Red Pine stand mixed with some White Pine. W2 understory. March 2011 update: variance approved 10-1-10 to remove prescription.
5	42250 - Pine, Oak	Sawtimber Medium	4.3	38	51-80	Stand 5 was split from stand 3 because there is a clear transition from upland soils and species composition in stand 5 to lowland soils and species composition in stand 3. Stand 5 was harvested in 1981 with stand 3, but all white pine and red pine was left. Older 18+ inch red pine and white pine mixed in the stand with early successional hardwoods and jack pine.
7	4125 - Black, N. Pin Oak	Sawtimber Well	23.2	114	81-110	East side of stand has some wet areas. 2 age classes, pockets of sapling/pole sized aspen from last harvest. A pocket of larger white pine on north side of stand. Some parts of stand look like a seed tree cut and other parts resemble a shelterwood cut (SM 5/22/18). Old comment-OPIC - FMD: 2008 Notes: Mature Oak stand thinned in 1990. White Pine, Aspen and Maple in the understory. Some Oak regen in the understory. Stand borders private to the west and south.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
9	4199 - Other Mixed Upland Deciduous	Sawtimber Well	4.1	71	111-140	Piece of stand 45 that was excluded from shelterwood harvest in 2008 and not site conditioned (SM 6/4/18). Old comment from stand 45-Stand was harvested under Weeping Slopes contract. Completed in 10/2015. Canopy data was estimated.OPIC - FMD: 2008 Notes: Oak stand with some Aspen, Red Maple and Pine mixed in. Medium stocking of White Pine in the understory. Drainage in the south half of the stand. Maintain Oak-White Pine mixture. Old notes: Treat in 2010 when white pine is larger and less likely to be damaged. It was determined at the pre-review on 8/26/09 that this stand should be harvested based on age, SI and oak distribution within the compartment. Treat stand by shelterwood harvesting, marking to leave oak and white pine in order to maintain oak/pine mixture. Drainage should be protected using appropriate BMP's and if need be, should be excluded from sale area. Approved at 11-10-09 Compartment Review.
10	4111 - S.Maple, Hard Mast Association	Sawtimber Well	20.1	100	81-110	Dense ash regen (knee height) in most parts of stand and grassy. Trace amounts of sugar maple, red maple, and oak regen less than 1' height. Quality sugar maple and northern red oak (SM 5/30/18). Old Comment-OPIC - FMD: 2008 Notes: Northern Hardwood stand (over mature timber within stand) with a couple of small Hemlock pockets. Stand previously had a lot of Paper Birch, but is dying out now. Stand was probably pastured in the past. And, the stand has very little regeneration throughout the stand. Stand was thinned to 90 BA under contract number 72028-10-01 "First Time Hardwood" in late winter of 2014. Ground was snow covered throughout.
12	4130 - Aspen	Sapling Well	14.1	15	Immature	Split from original stand (29). Even aged sapling sized aspen with scattered red/white pine not removed in last harvest (SM 6/21/18). Old comment-OPIC - FMD: 2008 Notes: Mixed pine stand of differing age classes of Red and White Pine with some scattered Oak. Stand was harvested last entry year with an selection cut which removed the Aspen and Maple.  Old Notes: Remove all except RP & WP, Retain lg clumps of healthy oak where there is no WP regen. Stand treated and closed 2004. All aspen and red maple was cut, scatters oak about 5 BA left with residual RP, and WP. On average 45 BA left. Important note this is a large 80 (two acres more) had Karl Kisla survey it.
13	4130 - Aspen	Sapling Poor	40.6	5	1-50	Stand is fully stocked on the east side and poorly to moderately stocked on the west side of stand. Wet drainage runs through middle of stand (SM 6/15/18). Old comment-OPIC - FMD: 1920 SI 45. Harvested under contract number 72-043-11-01 "Brandish Mix" in fall of 2013. 20 - 40 BA of oak and pine was left. Sale was not chipped. One retention pocket located in the NE corner. Parts of the drainage were left un-harvested due to wet conditions.
14	429 - Mixed Upland Conifers	Poletimber Medium	24.9	29	Immature	Pockets of beaver damage (stumps) in some southern portions of stand. Some aspen getting pole sized, but a lot of it is still immature. Patchy poor conifer swamps/lowland shrub and upland mixed conifer through stand. Small creek runs crosses under kneelland Rd through middle of stand. Clearcut in 1990 with stand 65 sale #015-90 (SM 5/16/18). Old comment-OPIC - FMD: Immature Aspen stand with scattered patches of White Pine, Spruce and Balsam Firt (40BA). Stand borders Kneeland Road.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	42200 - Natural White Pine	Sawtimber Well	9.1	55	111-140	See old comment for description (SM 5/25/18). Old comment-OPIC - FMD: White Pine stand with Jack Pine mixed throughout the stand. Stand borders Kneeland Road. Classified as a J3-W3 last entry year. Recommend doing nothing to the stand this entry year.
16	42200 - Natural White Pine	Poletimber Well	3.8	51	111-140	Rows not apparent. Mostly pole sized white pine with some getting into saw sized. (SM 5/22/18). Old comment-OPIC - FMD: 2008 Notes: White Pine stand that is immature.
17	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	9.7	116	81-110	Mostly saturated soils with large old trees scattered through the stand. Disregard old comment (trees are not dead), may have been referring to stand 21. Old comment-OPIC - FMD: 2008 Notes: Classified as an E5 last entry, but now is a D0. Beaver activity has flooded the area and all trees are dead standing snags. SELKIRK SILT LOAM
18	4311 - Pine, Aspen Mix	Sawtimber Well	13.7	143	1-50	Large old red and white pine with dense spruce/fir/pine in understory. Pockets of mature aspen through stand. Lowlands are more concentrated to the west with a stream running through. No oak observed (SM 5/29/18). Old comment-OPIC - FMD: Sale cut in 1992. Left WP, RP, & Oak
19	42290 - Natural Mixed Pine	Sawtimber Well	22.3	76	141-170	Some older large red and white pine 26"+ scattered through stand. Lots of 18+ inch red and white pine through most of stand. Pine dominated with red maple through most of the understory. Patchy aspen comes and goes through most of stand. Stand 19 contains forested and non-forested wetlands as well as vernal pools (SM 5/30/18). Old comment-OPIC - FMD: 2008 Notes: Part of stand 34 last entry. More Pine than Aspen in this area currently. Stand borders Townline Road..
20	4130 - Aspen	Sapling Medium	8.0	6	Immature	Few scattered x-log size white pine scattered through stand (SM 5/29/18). Old comment-OPIC - FMD: Harvested under contract number 72-028-10-01 "First Time Hardwood" in fall of 2013. Portion of the parent stand was left as a buffer along south swamp.
22	4311 - Pine, Aspen Mix	Sawtimber Well	9.6	44	81-110	South west side of stand is lowland. Larger red pine and white pine scattered through stand. Appears to be 2 aged (older pine and younger aspen) SM 5/29/18. Old comment-OPIC - FMD: 2008 Notes: Immature Aspen stand mixed with White Pine and other species. North side of the stand borders Kneeland Road. The east side borders private property.  Old data notes: Suppressed Aspen stand w/scattered mature Oak, RP, & WP mix
23	42290 - Natural Mixed Pine	Sawtimber Medium	11.1	46	111-140	Rows not apparent, appears to be natural mixed pine. Patchy growth throughout stand with varying densities (SM 5/30/18). Old comment-OPIC - FMD: 2008 Notes: Jack Pine stand mixed with Red and White Pine. Stand was part of stand 404 (Grass) last year of entry.
24	4133 - Aspen, Mixed Pine	Sawtimber Well	37.1	51	81-110	Close to 50/50 lowland/upland. Some large diameter oaks scattered through south portion of stand (SM 5/30/18). Old comment-OPIC - FMD: Stand in transition - scattered areas of A6 w/in A3 stand





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	42290 - Natural Mixed Pine	Sawtimber Medium	10.0	86	1-50	Stand is mostly upland and consist of sawlog and x-log sized red and white pine (a few 26+ inches DBH). Aspen comprises 5-10% of the canopy cover in this area. Used to be typed as an open bog. Most of stand falls within BMP buffer (SM 8/6/18). Old comment-OPIC - FMD: SELKIRK SILT LOAM
26	4319 - Mixed Upland Forest	Sawtimber Well	60.5	42	111-140	Variable cover types through stand. Cover type transitions in multiple areas from aspen dominated to pine dominated overstories. Vernal pools scattered through stand, and some wetter areas along Beaver Creek (SM 5/30/18). Old comment-OPIC - FMD: 2008 Notes: A6 stand with an White Pine Understory. Two track (maintained) passes through stand to access private property.
27	4136 - Aspen, Mixed Conifer	Poletimber Medium	13.0	38	51-80	Upland aspen pine mix with 2 streams that converge in the northern half of stand. Fir and spruce more dominant to the north along creek edges. Access from 2 track that comes in from the west. A couple of small vernal ponds on south side. White pine and red pine are larger and older than the aspen are scattered through stand. Harvested in 1981 with stands 2, 3, and 5; Swamp Red Oak Sale #011-81A. Disregard old comments (SM 5/15/18). Old comment-OPIC - FMD: 2008 Notes: Swamp Conifer stand located long Beaver Creek. A mix of Spruce, Balsam Fir, White Pine and some hardwoods.
28	42110 - Planted Red Pine	Sawtimber Well	9.9	55	171-200	Row thinned (take 1 leave 2). Cut rows are wide enough for next thinning. Stream flows east to west through north side of stand (SM 5/30/18). Old comment-OPIC - FMD: Red Pine plantation that was thinned last entry year.  Old data notes: FDF STAND. Check with Roger Mech regarding bark beetle specs when sale is proposed. Stand thinned in Feb 2004, 047-03-01 Alone Red Pine. D.H. 02-24-2004
29	42290 - Natural Mixed Pine	Sawtimber Well	68.8	81	81-110	Most of stand is red pine/ white pine dominated with patchy aspen regeneration in the understory as a result of previous harvest in 2004. Decent quality red oak in east side of stand make grade 3 or better saw logs. East side of stand is oak dominated with a shelterwood appearance (BA=70) and has significant aspen and oak regen in the understory. South west side of stand has more open and is comprised of mixed pine and hybrid oak with very little understory. Original stand was split into two stands this inventory. South side of stand 29 was split into even aged sapling sized stand (12). (SM 6/21/18). Old comment-OPIC - FMD: 2008 Notes: Mixed pine stand of differing age classes of Red and White Pine with some scattered Oak. Stand was harvested last entry year with an selection cut which removed the Aspen and  Maple.  Old Notes: Remove all except RP & WP, Retain lg clumps of healthy oak where there is no WP regen. Stand treated and closed 2004. All aspen and red maple was cut, scatters oak about 5 BA left with residual RP, and WP. On average 45 BA left. Inportant note this is a large 80 (two acres more) had Karl Kisla survey it.
30	42290 - Natural Mixed Pine	Sawtimber Well	3.8	46	141-170	Rows not apparent, appears to be natural mixed pine (SM 5/30/18). Old comment-OPIC - FMD: 2008 Notes: Part of stand 34 last entry. More Pine than Aspen in this area currently. Stand borders Townline Road..



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
31	42200 - Natural White Pine	Sawtimber Medium	98.3	69	51-80	<p>Small pocket of trembling aspen and balsam poplar to the north. Also, pockets of red and white pine regen in a few areas. There's a wetland towards the north east side of stand. Immature oak and aspen regen medium to high density throughout stand with 70 year old white in overstory. Some xlog white and red pine through stand as well. (SM 6/1/18). Old comment-OPIC - FMD: 2008 Notes: Used Old data. Stand is converting to Pine with some hardwoods mixed. Multy aged stand. Stand borders Ruth Road.</p> <p>Old Notes: Release W2 - Remove oak &amp; other hardwoods. Protect WP and Oak regeneration. Stand harvested summer-winter 2004.</p>
32	4125 - Black, N. Pin Oak	Sawtimber Well	38.3	101	51-80	<p>Consistent oak and pine regen through stand. More oak regen than maple. A couple of small pockets of aspen regen also. Buried GTE telephone cable in stand along Ruth Rd (1-800-482-7171). MCCCT trail cuts through stand (SM 6/4/18). Old comment-OPIC - FMD: 2008 Notes: Oak stand mixed with White and Red Pine. White pine understory. Stand was harvested last entry year which removed all the Aspen and Red Maple (Selection cut). Stand borders Ruth Road.</p> <p>Old Notes: Stand harvested 2001 sale number 7204500-01.</p>
34	4133 - Aspen, Mixed Pine	Poletimber Well	33.1	40	81-110	<p>Swampy areas to the south. Larger red and white pine scattered throughout stand. (SM 5/31/18) Harvested in 1979. Treatment said leave all white oak and all red pine greater than 9 inches DBH (SM 5/16/18). Old comment-OPIC - FMD: 2008 Notes: Immature Aspen stand mixed with Pine and Maple. Scattered Red Pine logs throughout the stand. Stand borders Townline Road..</p>
35	4130 - Aspen	Poletimber Well	84.0	38	81-110	<p>Pole sized aspen with an oak component. North half of stand harvested in 1982 under contract #079-81A. South half of stand harvested in 1980 under contract #18-77A (SM 6/6/18). Old Comment-OPIC - FMD: 2008 Notes: Large immature Aspen stand.</p>
36	4130 - Aspen	Sapling Well	20.7	18	Immature	<p>Buried GTE telephone cable in stand along Ruth Rd (1-800-482-7171). Good aspen regen with an oak and pine component too (SM 6/1/18). Old comment-OPIC - FMD: Stand final harvested 2001 with stand 63. Sale number 7200800-01.</p>
37	4125 - Black, N. Pin Oak	Sawtimber Poor	74.8	77	1-50	<p>Maple and aspen are taller than oak in most places. Aspen gets heavier in south. Overstory has a lot of white oak and hybrid oak (nicer red oak in north east). Most regen is greater than 10 feet and is out of browse height (SM 6/6/18). Old comment-OPIC - FMD: MIMS PLOTS. Mixed age/spp stand. Stand shelterwood cut 2002. Timbersale # 7204600-01.</p>
38	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Medium	28.4	37	51-80	<p>Clearcut in 1981, part of Cherry Creek Road Sale #10-81A. Planted jack pine is being out competed by oak and residual red pine. MCCCT trail runs through stand (SM 5/16/18). Old Comment-OPIC - FMD: 2008 Notes: Jack Pine plantation. Scattered Red Pine sawtimber throughout the west part of the stand.</p>





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
39	4130 - Aspen	Sapling Medium	38.4	6	Immature	Good aspen regen with an oak and maple component as well. MCCCT trail runs through stand (SM 6/4/18). Old comment-OPIC - FMD: Harvested under contract 72-039-10-01. Old Comment: 2008 Notes: Large Aspen stand mixed with White Pine.  Old notes: A3 stand in transition to A6
40	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	22.8	48	81-110	System of small vernal pools in north boundary. Most of stand is mixed pine with some aspen/oak, south finger is oak dominated. X-log size red pine beginning to get old growth appearance is scattered through stand (SM 6/1/18). Old comment-OPIC - FMD: 2008 Notes: Part of stand 34 last entry. More Pine than Aspen in this area currently. Stand borders Townline Road..
42	4130 - Aspen	Poletimber Well	4.4	38	81-110	Clearcut in 1981, part of Cherry Creek Road Sale #10-81A. Lower quality aspen, mostly in 6-8" d-class with white pine component in understory (SM 6/15/18). Old Comment-OPIC - FMD: 2008 Notes: Immature Aspen stand with scattered Red and White Pine sawtimber. Stand borders Cherry Creek Road.  Old notes: MIXED STAND A2-J1-W2, scattered RP & WP logs
43	4130 - Aspen	Poletimber Well	7.2	41	51-80	Pole sized aspen with a few scattered aspen getting into saw sized. Small wet area towards the north with x-log size red and white pine (SM 6/18/18). Old comment-OPIC - FMD: 2008 Notes: Immature Aspen stand. Stand has been cut over in 1978.
44	4319 - Mixed Upland Forest	Sawtimber Well	11.4	98	81-110	South side of stand butts up to AuSable river. Could access 3 acres on the north half of stand from stand 55. Power line corridor runs through south side of stand. Wetland splits north half from south half (apparent on ESRI Best Available imagery). North half of stand dominated by bigtooth aspen and south side of stand has a mix of cottonwood, spruce/fir, and pine. South side of stand does not appear to be easily accessible (private to east and west and wetland to the north). See old comments as well. (SM 6/21/18). Old comment-OPIC - FMD: 2008 Notes: Stand south sided borders the AuSable River.
45	4123 - Red Oak	Sawtimber Poor	54.9	121	1-50	Shelterwood with moderate aspen regeneration. Red maple stump sprouts are getting browsed hard. Oaks did not appear to have a good sprouting response. The oak regeneration present is scattered and less than 1 foot. White pine is prevalent through most of stand. Wet drainage with red/white pine, cedar, hemlock, spruce, fir, and maple left for retention in the north (SM 6/4/18). Old comment-Stand was harvested under Weeping Slopes contract. Completed in 10/2015. Canopy data was estimated.  OPIC - FMD: 2008 Notes: Oak stand with some Aspen, Red Maple and Pine mixed in. Medium stocking of White Pine in the understory. Drainage in the south half of the stand. Maintain Oak-White Pine mixture. Old notes: Treat in 2010 when white pine is larger and less likely to be damaged. It was determined at the pre-review on 8/26/09 that this stand should be harvested based on age, SI and oak distribution within the compartment. Treat stand by shelterwood harvesting, marking to leave oak and white pine in order to maintain oak/pine mixture. Drainage should be protected using appropriate BMP's and if need be, should be excluded from sale area. Approved at 11-10-09 Compartment Review.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	43.8	29	51-80	Numerous wetlands and drainages in stand. White pine is saw sized and dominates canopy on north side of stand. East side of stand dominated by poplars. Dense pole/sapling size fir and spruce are intermediate and suppressed in canopy. White pine is saw size, but has significant defect and lower limbs still. OPIC - FMD: 2008 Notes: White Pine, Spruce, Balsam Fir and Aspen stand. (immature) Large drainage within the stand. Some Aspen on the east and south sides of the stand. Stand was final harvested in 1992. Stand is also wet in areas. Stand is a W4/F2/A3.
47	42120 - Planted Jack Pine	Sapling Well	40.0	26	Immature	OPIC - FMD: tips of trees are dead.
48	42290 - Natural Mixed Pine	Sawtimber Medium	5.9	63	111-140	Natural red and white pine with low site oak. White pine dominates south half and red pine in the north (SM 6/15/18). Old Comment-OPIC - FMD: 2008 Notes: White Pine and Red Pine stand with some Aspen and Jack mix. Stand broken off of stand 42 from previous inventory. This is a small stand that borders Cherry Creek Road.
49	6124 - Lowland Spruce- Fir	Poletimber Well	4.7	51	81-110	See old comment (SM 5/25/18). Old comment-OPIC - FMD: 2008 Notes: Swamp Conifer stand located long Beaver Creek. A mix of Spruce, Balsam Fir, White Pine and some hardwoods.
50	42110 - Planted Red Pine	Poletimber Well	21.0	37	81-110	Clearcut in 1981, part of Cherry Creek Road Sale #10-81A. Red pine plantation never been thinned. Jack pine scattered through stand (SM 5/16/18). Old Comment-OPIC - FMD: 2008 Notes: Immature Red Pine plantation. Has some Oak, Aspen and Cherry mixed in within the stand. Stand borders Cherry Creek Road. MCCC Trail traverses through a portion of the stand.
51	4139 - Aspen, Mixed Deciduous	Poletimber Well	4.0	36	81-110	Stand clearcut in 1983 under contract #057-82. Small open marsh in northwest corner of stand (SM 5/16/18). Old Comment-OPIC - FMD: 2008 Notes: Small Immature Aspen stand with heavy Balsam Fir understory. Stand borders Townline Road.
52	42200 - Natural White Pine	Sawtimber Well	8.3	52	81-110	numerous wet lowland areas mixed in this stand, but majority of stand is upland. Even aged white pine with a few larger trees mixed in (SM 5/22/18). Old comment-OPIC - FMD: 2008 Notes: White Pine stand that is immature with pockets of lowland brush. Stand is visible from Hanson Road.
53	6120 - Lowland Cedar	Poletimber Well	5.1	89	141-170	Rich conifer swamp dominated by cedar. Squishy wet ground with high risk for rutting. Beaver creek runs through stand (SM 5/15/18). Old comment-OPIC - FMD: 2008 Notes: A SMALL SWAMP DRAINAGE OF LOW VALUE AND POOR LOGGING CHANCE. Part of Beaver Creek.
54	4132 - Aspen, Jack Pine	Sapling Medium	20.8	28	Immature	Aspen and jack pine dominated stand should be getting pole size next entry. System of vernal wetlands in southwest portion of stand were dry in late June, but appear to hold water most of the year and has less than 25% canopy cover (SM 6/21/18). Old comment-OPIC - FMD: 2008 Notes: Immature Aspen stand. 2 inch average diameter and 10-15 foot tall. Two track trail traverses through north end of stand.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	4311 - Pine, Aspen Mix	Sawtimber Well	5.7	40	111-140	Stand contains 2 distinct cover types and age classes, but left as 1 stand due to size. West side of stand is comprised primarily of pole sized aspen. East side of stand is comprised of natural saw sized white pine and red pine. Stand contains a few scattered red and white pine >20" DBH. South east side of stand is wet (SM 6/18/18). Old comment-OPIC - FMD: Stand has been cut over in the past(1978). Stand is a mixture of several age classes in Aspen, Oak and Jack Pine with an A1/A2 understory.
56	42120 - Planted Jack Pine	Sapling Well	37.5	16	Immature	Uncut buffer consists of mostly 10-12 inch red/black oak and pole sized white pine. See old comments (SM 6/18/18). Old comment-OPIC - FMD: 2008 Notes: Immature Jack Pine stand(plantation) with scattered Red and White Pine and Oak that was left from cut. North side of the stand borders Cherry Creek Road and a small piece borders private property. The remaining portion borders Cherry Lane  Old notes: Harvest completed and stand was furrow seeded in spring 2002. Fall inspection revealed no germination so site was planted to JP in spring 2003. See FTP C72-448. Contract #009-00-01, Better Be Some Regen Left, cut in 2000. FTP C72-448 to plant to jack pine. A uncut buffer was left by the private residence.
57	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Medium	10.1	36	111-140	Small red pine plantation. 150 ba in best parts of plantation. Most red pine has about 2 sticks. Red pine still immature on west side where aspen and oak are mixed in. Clearcut in 1981, part of Cherry Creek Road Sale #10-81A (SM 6/15/18). Old Comment-OPIC - FMD: 2008 Notes: Small Red Pine plantation. Immature. Just reached pole size status. North side of the stand borders Cherry Creek Road.
60	4311 - Pine, Aspen Mix	Sawtimber Well	23.9	88	111-140	MCCCT trail runs through stand (SM 6/4/18). Old comment-OPIC - FMD: OI Stand Year Origin was 1910
63	4125 - Black, N. Pin Oak	Sawtimber Well	11.9	111	81-110	Buried GTE telephone cable in stand along Ruth Rd (1-800-482-7171). Lots of oak seedlings (mostly white) less than 1 foot in height. Anything above snow is getting browsed hard Old comment-OPIC - FMD: Stand harvested with stand 36, 2001 sale number 7200800-01 all aspen and red maple was removed. Stand borders Townline Road.
64	4311 - Pine, Aspen Mix	Poletimber Poor	18.8	38	1-50	Poorly stocked stand. East side of stand contains low site aspen 2-3" dbh. Scattered open grown oak and jack pine poles in south west with sweet fern and blueberry. North half of stand contains some saw sized red and white pine. Records say this was clearcut in 1981, part of Cherry Creek Road Sale #10-81A (SM 6/18/18). Old Comment-OPIC - FMD: OI Stand Year Origin was
65	429 - Mixed Upland Conifers	Poletimber Poor	11.6	29	1-50	Somewhat open and poorly stocked. BA ranges from 0-60 in most of stand. Aspen regen is better on the east side of stand. Wet in areas to the east. Clearcut in 1990 with stand 14 sale #015-90 (SM 5/16/18). Old comment-OPIC - FMD: Immature Aspen stand with scattered patches of White Pine, Spruce and Balsam Firt (40BA). Stand borders Kneeland Road.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
66	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	7.1	40	1-50	Similar to stand 74 but with more saturated soils. Contains two distinct age classes. Some very large trees scattered through stand with dense immature to pole size spruce/fir/pine below (SM 5/25/18). Old comment-OPIC - FMD: 2008 Notes: Classified as an E5 last entry, but now is a D0. Beaver activity has flooded the area and all trees are dead standing snags.SELKIRK SILT LOAM
67	429 - Mixed Upland Conifers	Sawtimber Medium	7.1	120	1-50	Spruce/fir understory through most of stand. Red maple on south side (uphill).OPIC - FMD: Sale cut in 1992. Left WP, RP, & Oak
68	42290 - Natural Mixed Pine	Sawtimber Well	7.8	61	81-110	X-log red pine with a younger cohort of white pine dominates stand (5/29/18). Old comment-OPIC - FMD: Small White Pine and Red Pine stand.
70	42120 - Planted Jack Pine	Poletimber Medium	3.7	39	81-110	Pole sized jack pine. Rows are somewhat apparent. (sm5/31/18). Old comment-OPIC - FMD: 2008 Notes: Jack Pine stand . Stand was part of stand 61 (U type) last year of entry.
72	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	4.3	56	141-170	Small cohort of older 20+ inch red pine (less than 1 acre) towards center of stand (SM 6/4/18). Old comment-OPIC - FMD: Small White Pine and Red Pine stand.
73	4130 - Aspen	Sapling Poor	15.7	6	Immature	A few small wet areas with poor stocking, but overall good regeneration (SM 6/4/18). Old comment-OPIC - FMD: Harvested under contract 72-039-10-01. Old Comment: 2008 Notes: Large Aspen stand mixed with White Pine. Old notes: A3 stand in transition to A6
74	42340 - Upland Spruce/Fir	Sawtimber Well	3.5	46	51-80	Transitional, north facing, gentle slope from between uplands and lowlands (Beaver Creek). Two distinct age classes present (SM 5/25/18). Old comment-OPIC - FMD: 2008 Notes: Swamp Conifer stand located along Beaver Creek. A mix of Spruce, Balsam Fir, White Pine and some hardwoods. Same as stand 49.
76	42220 - Natural Jack Pine	Sawtimber Medium	11.3	83	51-80	Multi-part stand left for long-term retention. Over mature jack pine with oak beginning to take over beneath jack pine mortality (SM 6/19/18). Old coment-Stands left as retention from harvest # 72-037-10-01.
125	6127 - Lowland Pine	Sawtimber Poor	12.8	86	1-50	Full coverage of leatherleaf in most areas and high coverage of moss. Patchy canopy cover. White pine, black spruce and jack pine mixed through the swampy portions with islands of saw sized red pine. South side of stand has uplands which consist of sawlog and x-log sized red and white pine (a few 26+ inches DBH). Aspen comprises 5-10% of the canopy cover in this area. Used to be typed as an open bog. Old comment-OPIC - FMD: SELKIRK SILT LOAM
415	42290 - Natural Mixed Pine	Poletimber Poor	6.9	37	51-80	Somewhat poorly stocked stand with small openings scattered throughout. Pole size timber with some red pine getting saw sized (SM 6/18/18). Old comment-OPIC - FMD: OI Stand Year Origin was





Stand	Cover Type	Acres	Managed Site	General Comments:
6	622 - Lowland Shrub	13.3	No	See old comment (SM 5/22/18). Old comment-OPIC - FMD: Lowland brush stand. Stand has basal area in the southend in scattered White Pine. Some Aspen exist throughout the stand. Both White Pine and Aspen are less than 10-20 BA. The north end of the stand borders Hanson Road; the east side borders County Road 489 and the south side of the stand borders private property. Stand is to wet to do any harvesting operation etc within.
8	320 - Upland Shrub	7.7	No	Opening containing cherry and oak. Blueberry and sweet fern comprise most of the ground flora (SM 6/20/18).
21	622 - Lowland Shrub	30.0	No	Beaver creek and stream associated wetland (SM 5/25/18). Old comment-OPIC - FMD: SELKIRK SILT LOAM
33	6225 - Bog	11.7	No	Bog full of leatherleaf. Some pole size spruce in the north part of the stand (SM 6/1/18). Old comment-OPIC - FMD: OI Stand Year Origin was
41	330 - Low-Density Trees	85.7		See field notes (SM 6/19/18). Old comment-Stand was harvested in 2014 under contract 72-037-10-01.
59	330 - Low-Density Trees	18.4		Dense aspen around 10 feet tall through most of stand. Oak and cherry are scattered through the more open parts of the stand (SM 6/18/18). Old comment-Stand harvested in 2014 under contract 72-37-10-01. Stand had a residual BA of red pine of 5.7, site is the be trenced an planted to red pine.
61	320 - Upland Shrub	17.7	No	Considerable portion of stand is lowland brush. Small pocket of saw sized aspen to the west. Cherry, jack pine, white pine, fir, and apple trees (SM 5/30/18). Old comment-OPIC - FMD: U2, upland brush type. Wildlife recommended prescribed burn with adjacent stand 405. Burn the upland portions. Some lowland brush site within the stand.
71	622 - Lowland Shrub	3.9	No	
75	622 - Lowland Shrub	8.2	No	Very wet mostly open stand with high alder cover. Fir, balsam poplar, and white pine dominate treed portions along edges of stand. Stand harvested in 1990 with stand 46 (SM 6/4/18). Old comment-OPIC - FMD: 2008 Notes: Drainage/Water. Stand and surrounding stand was harvested about 20-30 years ago and water has taken over in this area of the stand.SELKIRK SILT LOAM
225	6225 - Bog	2.7	No	Open bog split from stand 25. Old comment-OPIC - FMD: SELKIRK SILT LOAM
325	6224 - Treed Bog	3.6	No	Split from original stand 25. Full coverage of leatherleaf in most areas and high coverage of moss. Patchy canopy cover. White pine, black spruce and jack pine mixed through the swampy portions with islands of saw sized red pine. South side of stand has uplands which consist of sawlog and x-log sized red and white pine (a few 26+ inches DBH). Aspen comprises 5-10% of the canopy cover in this area. Used to be typed as an open bog. Old comment-OPIC - FMD: SELKIRK SILT LOAM
401	3102 - Grass	2.6	Yes	See old comment (SM 5/15/18). Old comment-OPIC - FMD: Wildlife maintained with mowing. JC update: Buckwheat and clover planted in 2016 (C72-669).



Stand	Cover Type	Acres	Managed Site	General Comments:
402	3102 - Grass	7.2	No	Grassy opening on hill top with jack pine, white pine and aspen on the edges (SM 5/22/18). Old comment-OPIC - FMD: Grassy opening.
403	3102 - Grass	4.4	No	Creek runs through stand from wetland, stand 6. Some white pine/red pine along edges of stand (SM 5/22/18). Old comment-OPIC - FMD: Grassy opening.
404	3102 - Grass	17.2	Yes	See old comment (SM 5/30/18). Old comment-OPIC - FMD: Grassy opening maintained by wildlife. Recommended by Wildlife Division a prescribed burn with stands 405 and 61 (U2). Continue mowing. JC update: planted in 2016 (C72-669).
405	3102 - Grass	5.8	Yes	See old comment (SM5/30/18). Old comment-OPIC - FMD: Wildlife Maintained. Wildlife Division recommended a prescribed burn with stand 404 and 61 (U2). Continue mowing also. JC update: planted in 2016 (C72-669).
406	3303 - Mixed Low Density Trees	3.6	No	Lots of black cherry, white pine, and red maple with a little bit of jack pine. Close to 25% canopy cover (SM 5/31/18). Old comment-OPIC - FMD: Grassy opening
407	3102 - Grass	3.4	Yes	See old comment (SM 5/29/18). Old comment-OPIC - FMD: Wildlife maintained. Continue mowing. JC update: Rye planted in 2016 (C72-669).
408	3201 - Sweet Fern	1.2	No	Sweet fern and blueberry. Open grown aspen, cherry, white pine, jack pine, and spruce in and along edges of opening (SM 5/29/18). Old comment-OPIC - FMD: Grassy opening. Wildlife maintained. Continue mowing.
409	3102 - Grass	0.8	Yes	See old comment (SM 6/4/18). Old comment-OPIC - FMD: Wildlife maintained Continue mowing. JC update: Mast & RGS mix planted in 2015, limed and clover planted in 2016 (C72-669).
410	3102 - Grass	1.2	Yes	A few oaks in and around opening (SM 6/4/18). Old comment-OPIC - FMD: wildlife maintained continue mowing. JC update: Mast & RGS mix planted in 2015, limed and clover planted in 2016 (C72-669).
411	3102 - Grass	1.6	Yes	A few oaks in and around opening (SM 6/4/18). Old comment-OPIC - FMD: wildlife maintained continue mowing. JC update: Mast & RGS mix planted in 2015, limed and clover planted in 2016 (C72-669).
412	3102 - Grass	1.6	Yes	See old comments (SM 6/6/18). Old comment-OPIC - FMD: wildlife maintained continue mowing. JC update: Mast & RGS mix planted in 2015, limed and clover planted in 2016 (C72-669).
416	330 - Low-Density Trees	1.8	No	Stand is close to 25% canopy closure. Black cherry, white pine, red pine, jack pine and oak. Raspberry is pretty dense. Some balsam fir regen also (SM 5/22/18). Old comment- OPIC - FMD: OI Stand Year Origin was
425	6225 - Bog	1.2	No	Open bog split from original stand 25. Old comment-OPIC - FMD: SELKIRK SILT LOAM