



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53062

Entry Year 2022

Acreage: 2,180

County Otsego

Management Area: Pigeon River Country

Revision Date: 2020-10-05

Stand Examiner: Greg Rekowski

Legal Description:

Cheboygan County T33N R02W Section 31, T33N R03W Section 36
Otsego County T32N R02W Sections 6 and 7, T32N R03W Sections 1 and 12

Previously under private ownership and known as the Storey Lake property, this large parcel of land was purchased by the State in 2019.

Identified Planning Goals:

Maintain the current species mix and apply appropriate management techniques to mature stands of timber that are in need of treatment.

Soil and topography:

Most upland areas are characterized by loamy sands such as Blue Lakes, Leelanau, and Mancelona. The west and southwest parts of the Compartment in Section 12 transition to Rubicon sands. The lowland areas in and around Stewart Creek and Storey Lake are primarily organics such as the Tawas-Lupton muck.

Topography is gently rolling to rolling throughout most of the Compartment with some steep slopes, particularly in the hardwood stands and along the upland/lowland interface.

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

The Compartment is entirely State owned and adjacent to State land at the east and northwest sides.

Unique Natural Features:

None identified at this time.

Archeological, Historical, and Cultural Features:

There are no known historical or archaeological features within the Compartment.

Special Management Designations or Considerations:

None identified at this time.

Watershed and Fisheries Considerations:

Stewart Creek, as well as several small tributaries, pass through the northwest part of the Compartment. Storey Lake is located just east of Stewart Creek in Section 1.

Wildlife Habitat Considerations:

A Wildlife representative will be available for comment at the Open House and Compartment Review.

Mineral Resource and Development Concerns and/or Restrictions

None provided at this time as this is a new State land acquisition. Numerous old oil and gas well pads can be found in Sections 7 and 12. None are currently active.

Vehicle Access:

A large road network exists in the Compartment. Many of the roads were rarely used while under private ownership and are starting to become overgrown.

Survey Needs:

Most survey corners were located and no survey needs have been identified at this time.

Recreational Facilities and Opportunities:

Hiking and biking opportunities are abundant on the existing road network. Some of the roads lead to scenic vistas that provide excellent views of the surrounding landscape. The North Central State Trail provides the west border of the Compartment.

Fire Protection:

Fire risk is generally low in the Compartment, due to the large amount of hardwoods and lowland conifers, but increases in Sections 7 and 12 due to the higher pine component. Access, through an existing road network, is good in the event of any suppression activities.

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

Report 1 – Total Acres by Cover Type and Age Class



Age Class

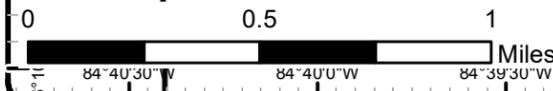
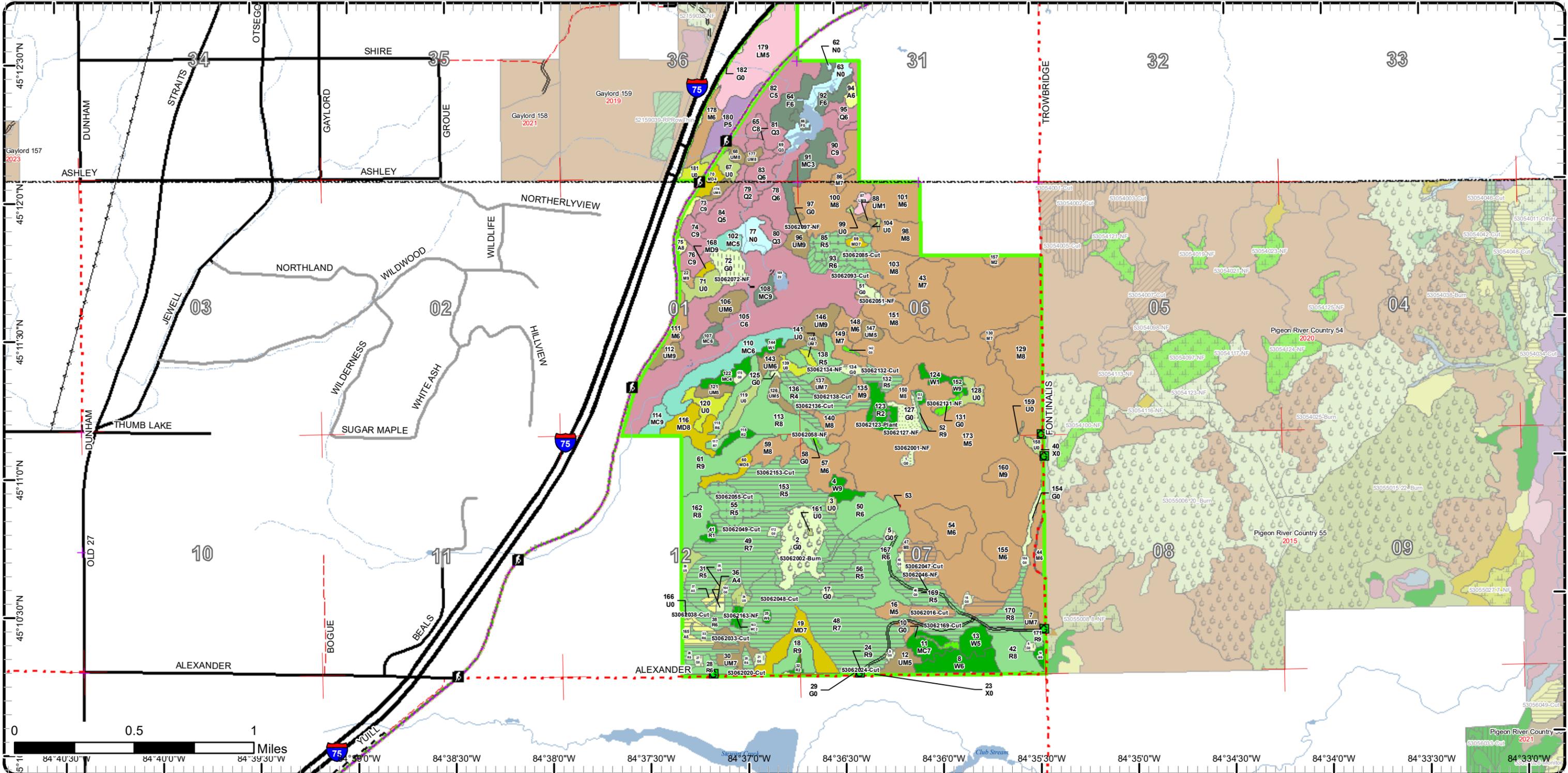
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	0	12	0	4	0	0	0	0	0	0	0	0	0	0	16
Cedar	0	0	0	0	0	0	0	0	34	20	10	126	0	0	0	0	0	0	190
Cropland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Herbaceous Openland	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
Low-Density Trees	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	15
Lowland Conifers	0	0	0	9	5	0	2	0	9	0	0	45	0	0	0	0	0	0	70
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	47	3	0	0	0	0	0	0	0	50
Marsh	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Mixed Upland Deciduous	0	0	0	0	0	0	0	5	0	41	2	0	0	0	0	0	0	0	48
Natural Mixed Pines	0	0	3	0	6	0	9	0	0	0	0	0	0	0	0	0	0	0	18
Northern Hardwood	0	0	0	0	0	2	14	7	54	564	107	27	0	0	0	0	0	0	774
Red Pine	0	12	4	5	0	39	234	252	35	0	0	0	0	0	0	0	0	0	581
Upland Conifers	0	0	0	0	17	0	6	39	0	4	0	0	0	0	0	0	0	0	66
Upland Mixed Forest	0	1	0	0	0	15	21	19	20	20	0	0	0	0	0	0	0	0	96
Upland Shrub	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Upland Spruce/Fir	0	0	0	0	0	6	17	0	0	0	0	0	0	0	0	0	0	0	23
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	3	3	0	2	26	8	0	0	0	0	0	0	0	0	0	0	42
Total	197	13	10	17	28	76	329	334	167	696	122	198	0	0	0	0	0	0	2186

Cover Type & Treatments Map

Compartment: 62
 T33N, R03W, Sec. 6
 T33N, R02W, Sec.31
 T32N, R03W, Sec.1,12
 T32N, R02W, Sec.6,7
 County: Otsego
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2022
 Acres: 2180.1 GIS Calculated
 Examiner: Greg Rekowski
 Map Revised: 3/1/2021
 Map Phase: Post-Review

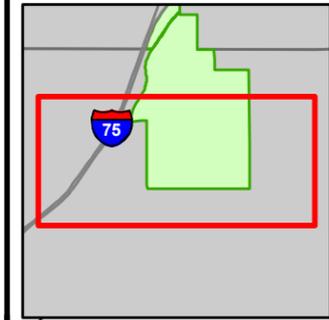


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Other Treatment - See Comments
- Planting (tree species)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- Mowing
- No Stand Data
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 623 - Emergent Wetland

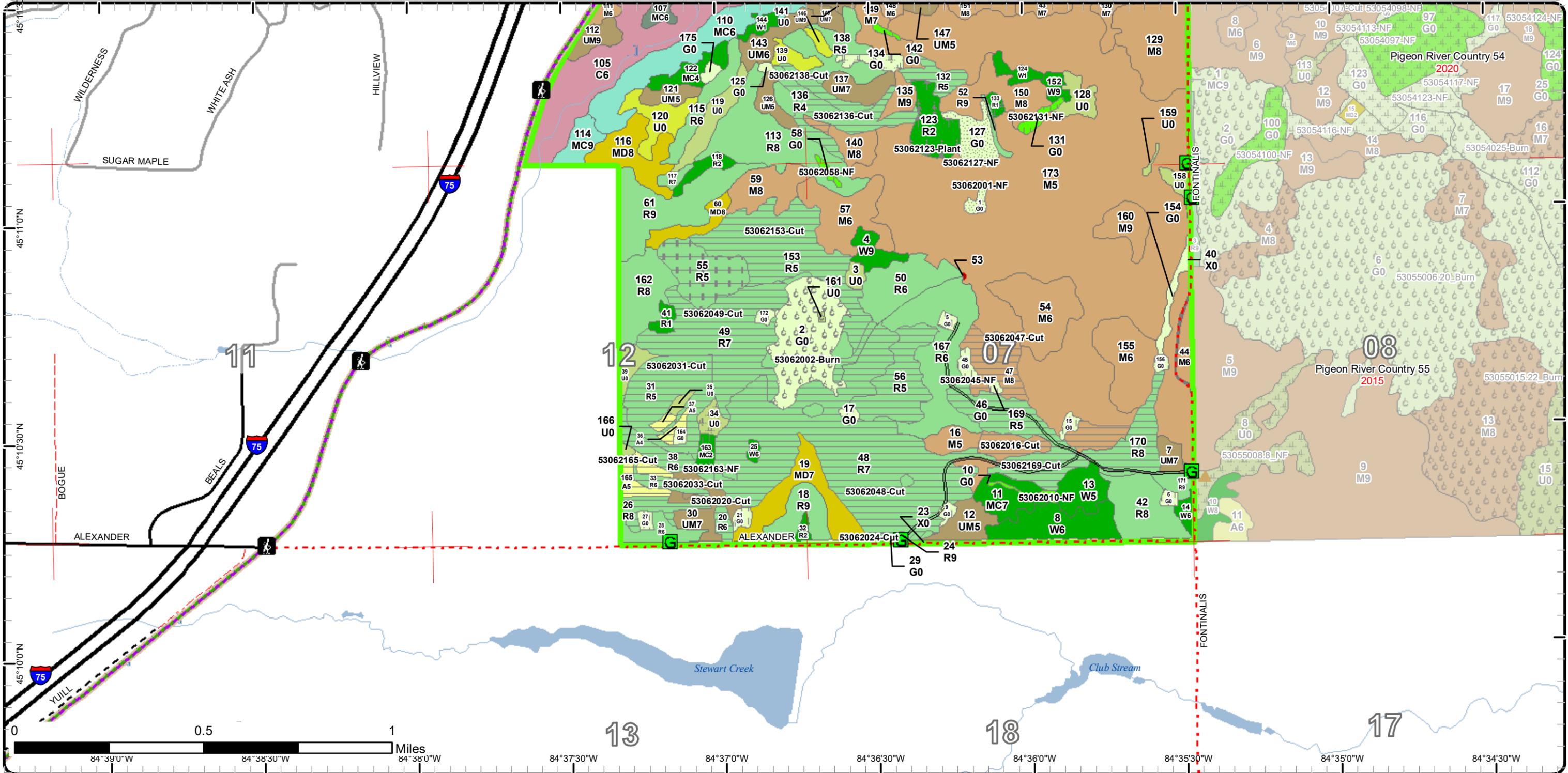


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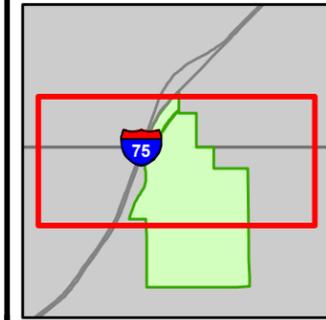


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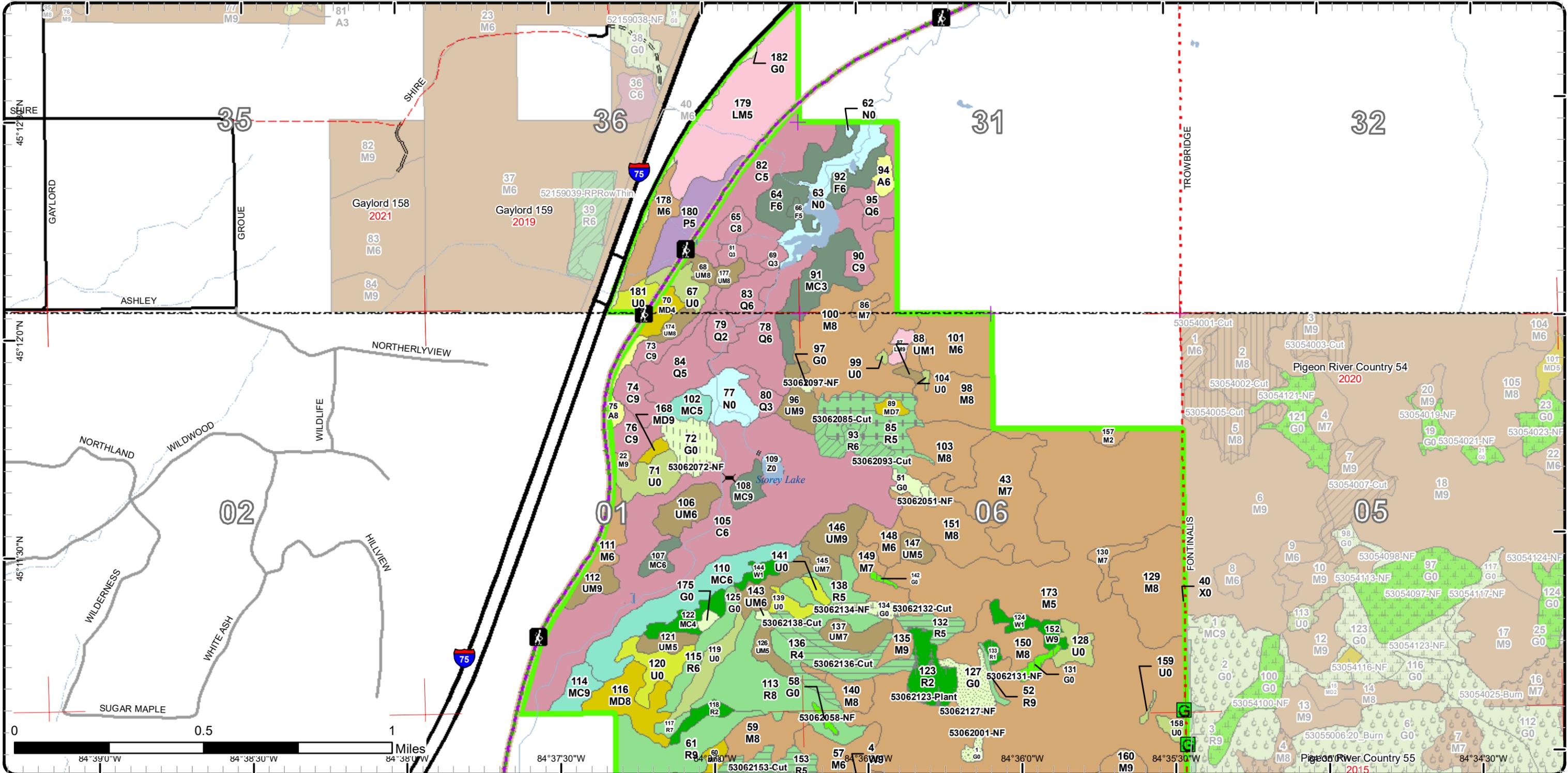


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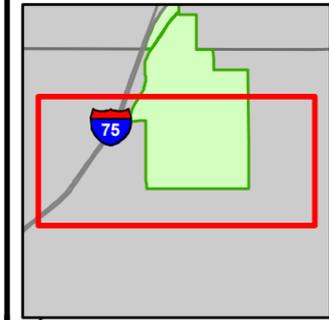


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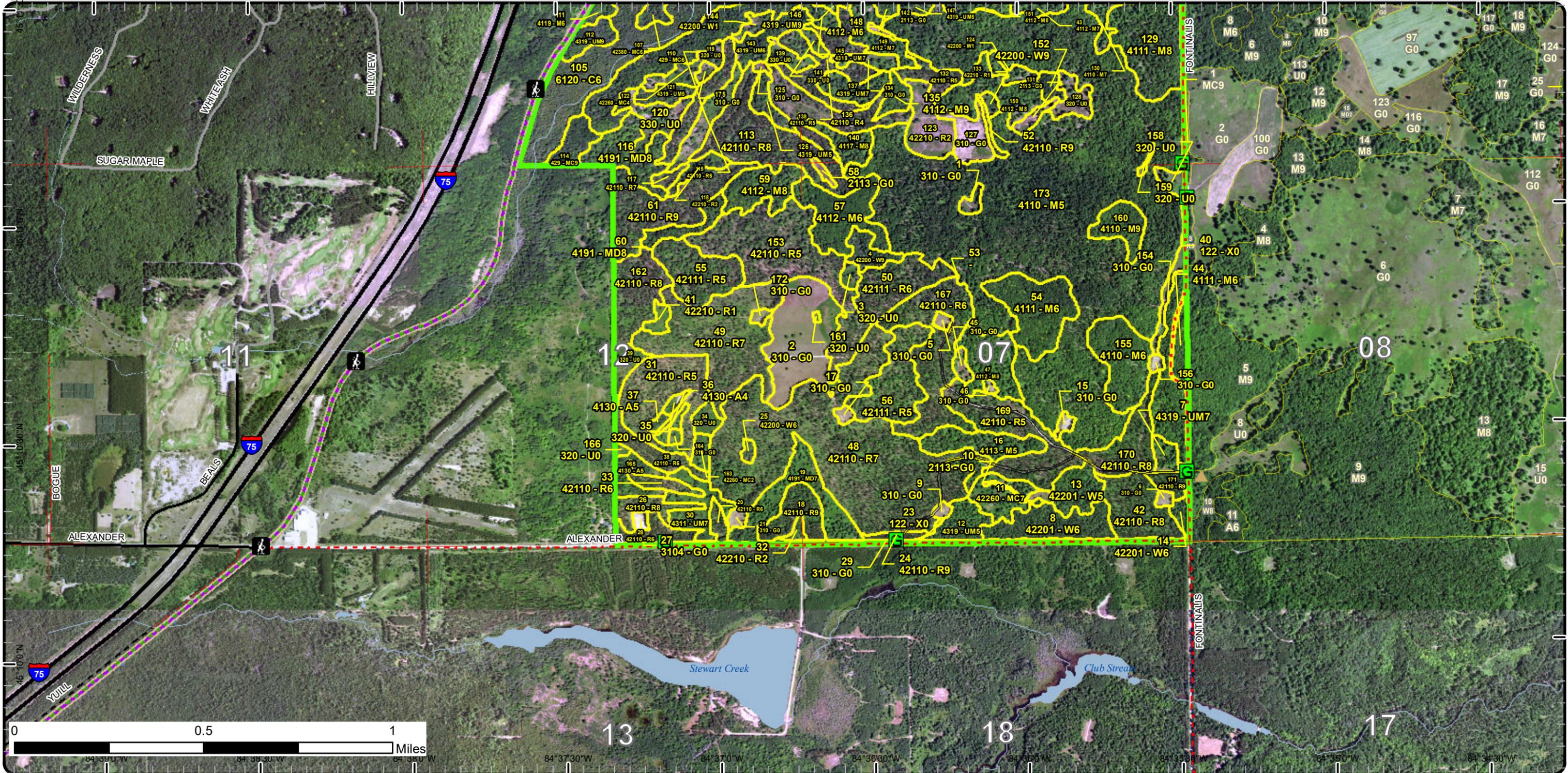


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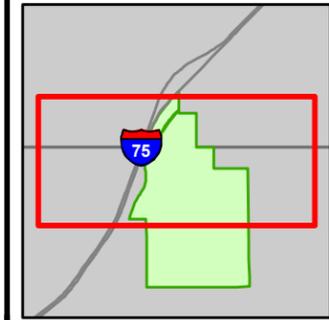


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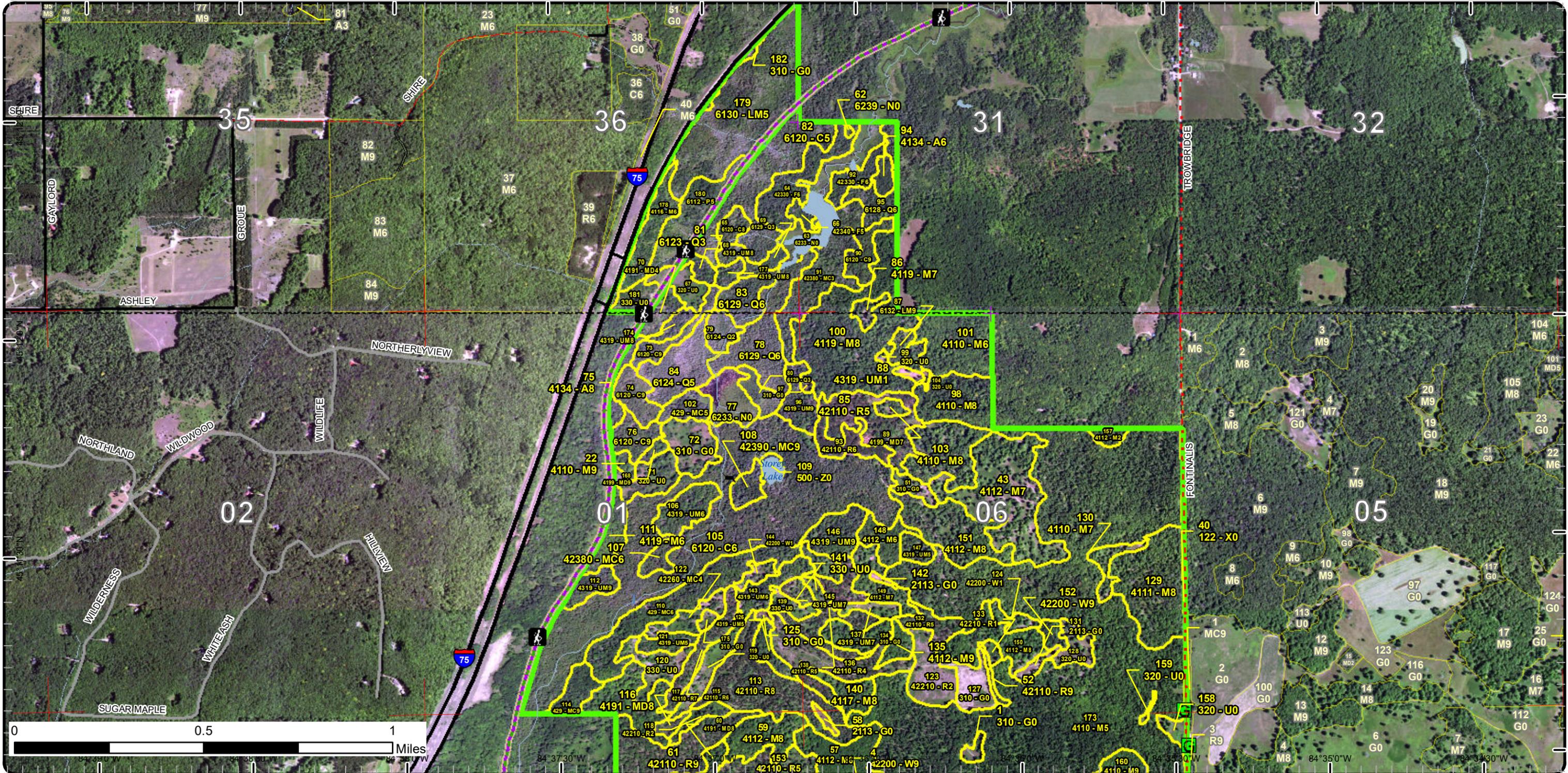
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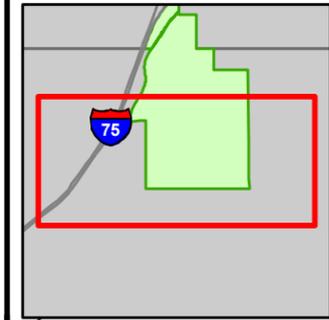
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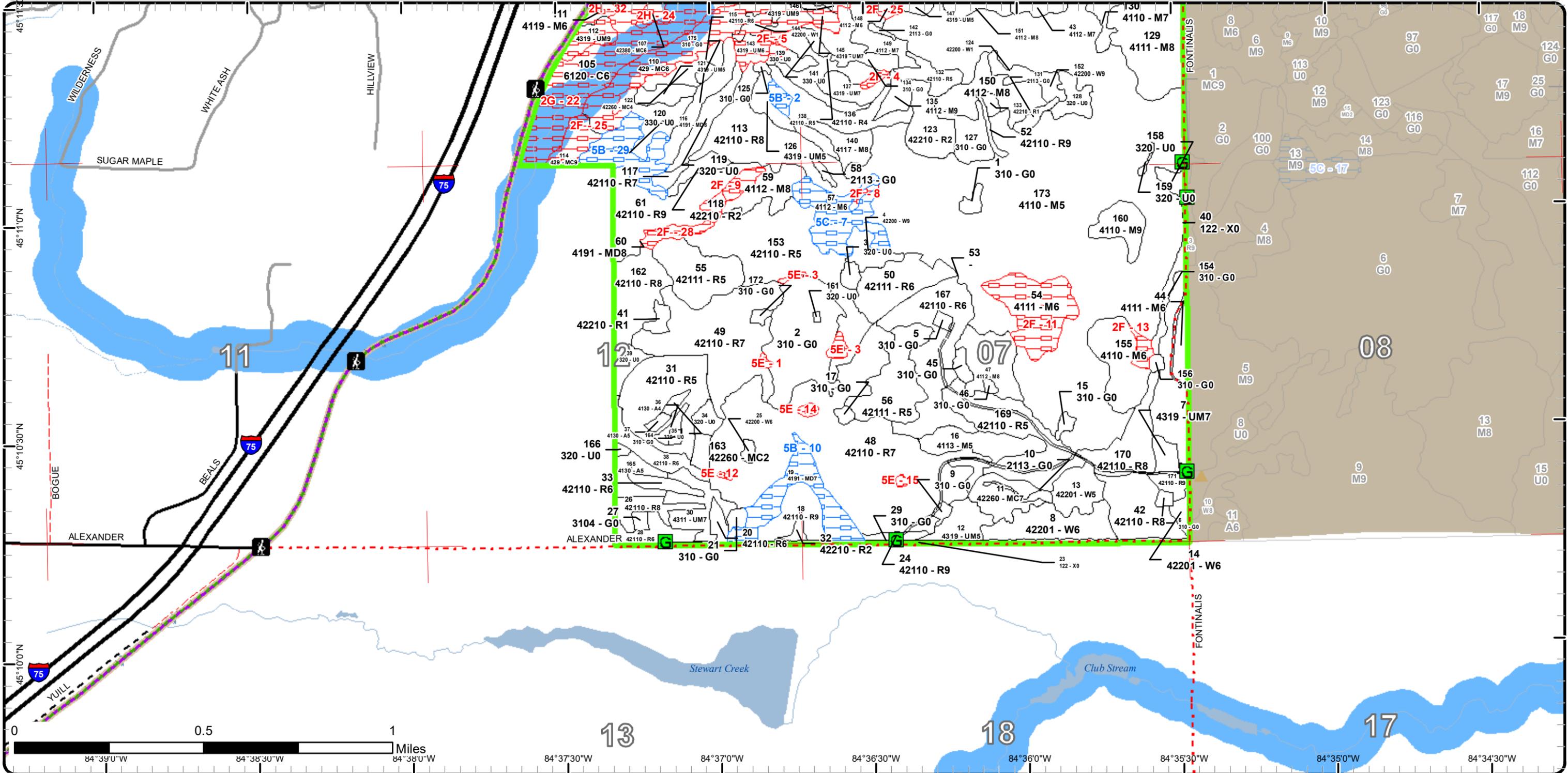
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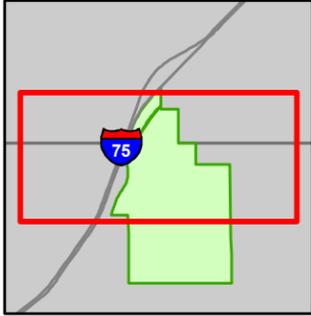
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- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes

- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5E: Long-Term Retention
- Stand Boundaries
- Dedicated Management Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

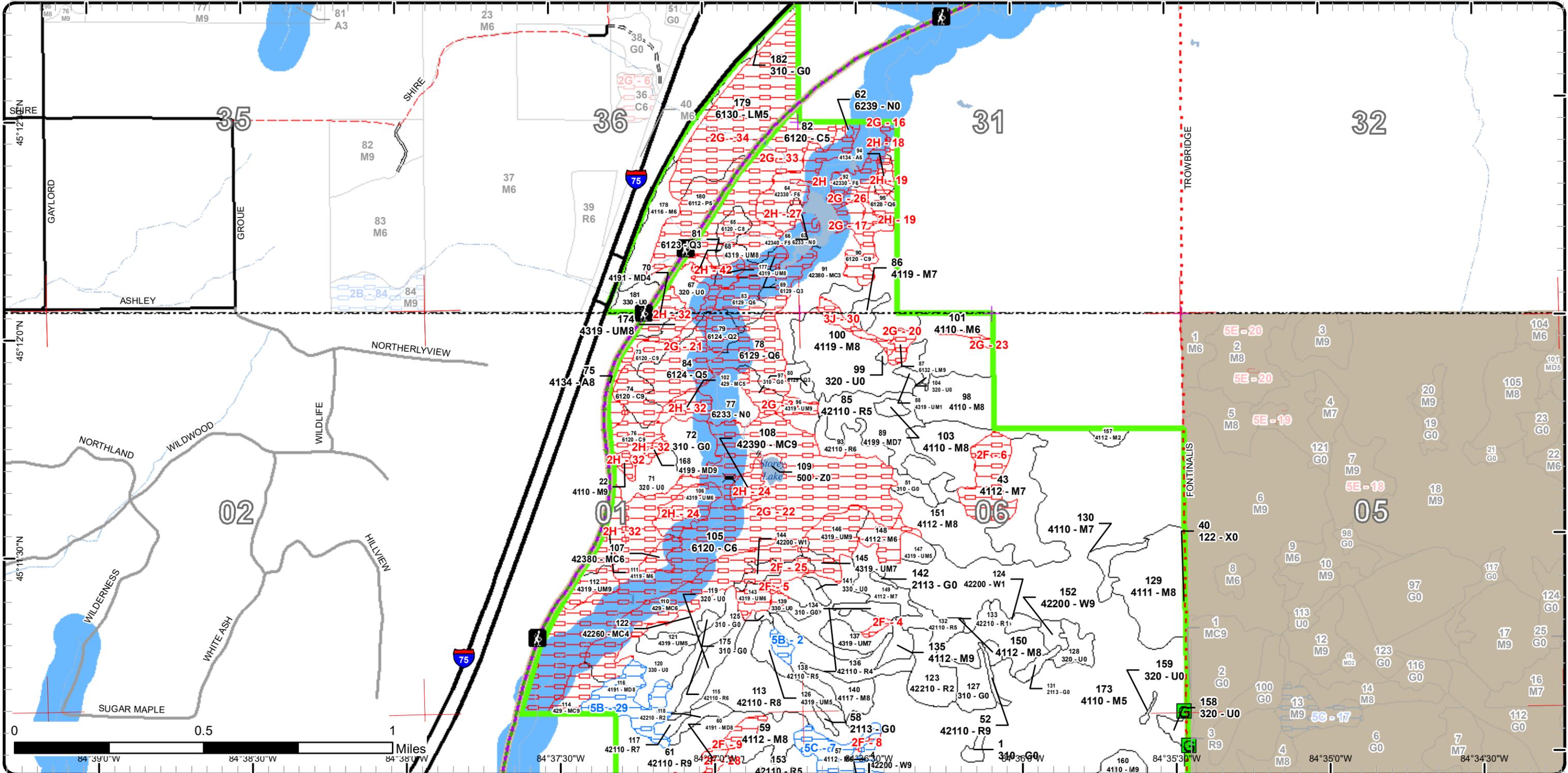


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- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Dedicated Management Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer





Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 407
 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	9	0	0	0	0	0	0	0	0	9
Northern Hardwood	20	0	0	0	0	0	0	0	0	20
Red Pine	331	0	0	0	0	9	37	0	0	377
Total	361	0	0	0	0	9	37	0	0	407

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	407	0	12	0	31	0	0	0	46	495
Next Step	0	541	347	0	0	242	656	0	0	1787
Total	407	541	359	0	31	242	656	0	46	2281



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

1	53062001-NF	1.8	310 - Herbaceous Openland	Nonstocked	Unspecified	NonForestMgt	Mowing	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain opening by mechanical treatment or prescribed fire. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
2	53062002-Burn	30.6	310 - Herbaceous Openland	Nonstocked	Unspecified	Burn	Opening	310 - Herbaceous Openland		No
<p><u>Prescription</u> Maintain opening through prescribed burning or mechanical means. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> Note that there is a survey corner in the middle of the stand on the north side of the road. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
5	53062005-NF	1.1	310 - Herbaceous Openland	Nonstocked	Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		No
<p><u>Prescription</u> Manage as a maintained opening using prescribed fire, chemical, or mechanical means. <u>Specs:</u> This area was formerly an oil/gas well while under private ownership. Treat invasives. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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6	53062006-NF	1.1	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops	No
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Prescription Manage as a maintained opening using prescribed fire, chemical, or mechanical means.

Specs:
This area was formerly an oil/gas well while under private ownership.
Treat invasives.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

9	53062009-NF	1.2	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops	No
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Specs:
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Treat invasives.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

10	53062010-NF	1.6	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops	No
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Prescription Manage as a maintained opening using prescribed fire, chemical, or mechanical means.

Specs:
This area was formerly a food plot while under private ownership.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
15 53062015-NF	1.3	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		No
<p><u>Prescription</u> Manage as a maintained opening using prescribed fire, chemical, or mechanical means.</p> <p><u>Specs:</u> This area was formerly an oil/gas well while under private ownership. Treat invasives.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
16 53062016-Cut	6.5	4113 - R.Maple, Conifer	Poletimber Medium	58	51-80	Harvest	Clearcut with Retention	4117 - Mixed N. Hardwood - Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut all species except for any oak or white pine.</p> <p><u>Specs:</u> Follow up with rollerchopping, herbicide, and then planting with red pine at a lower stocking and without any trenches. Planting spacing will be 8 feet between seedlings and 9 feet between adjacent planting rows. The idea is to allow more hardwood regeneration to grow in between the pine. Manage the red pine on earlier entries to allow more room for hardwoods. Leave 10% of the area unplanted for wildlife retention purposes. These areas will be planted with oak and possibly other mast species.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Planting, Unfurrowed <u>Treatments:</u></p> <p><u>Acceptable</u> Hardwoods, oak, and pine species will all be acceptable in determining regeneration success. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
17 53062017-NF	1.2	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		No
<p><u>Prescription</u> Manage as a maintained opening using prescribed fire, chemical, or mechanical means.</p> <p><u>Specs:</u> This area was formerly a oil/gas well while under private ownership. Treat invasives.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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20	53062020-Cut	2.5	42110 - Planted Red Pine	Poletimber Well	58	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with no area retention. Cut all species. Trench and replant following harvest.

Specs:

Add chipping spec 2.2.2.

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

Treatments:

Acceptable Fully-stocked stand of planted red pine.

Regen:

Other Add 2" spec to knock down any regen.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

21	53062021-NF	1.5	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		No
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Prescription Manage as a maintained opening using prescribed fire, chemical, or mechanical means.

Specs:

This area was formerly an oil/gas well while under private ownership.

Treat invasives.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

24	53062024-Cut	2.0	42110 - Planted Red Pine	Sawtimber Well	58	201+	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Crown thin/3rd row thin down to 110-130 square feet. The part of the stand west of the road has never been cut except for a few trees so mark every third row and then mark out some of the small, suppressed trees in adjacent rows. East of the road has been thinned so mark it down to the BAs mentioned above. Don't remove more than 1/2 of the BA at any place.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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26	53062026-Cut	6.1	42110 - Planted Red Pine	Sawtimber Medium	53	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with no area retention. Cut all species except for any incidental sugar maple, basswood, white pine, or merchantable cherry. Trench and replant following harvest.

Specs: Add chipping spec 2.2.2.

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

Acceptable Fully-stocked stand of planted red pine.

Other Add 2" spec to knock down any regen.

Site Condition

Proposed Start Date: 10/1 /2021

27	53062027-NF	1.2	3104 - Degraded	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		No
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Prescription Manage as a maintained opening using prescribed fire, chemical, or mechanical means.

Specs: This area was formerly a brine disposal well while under private ownership. Numerous concrete foundations are still on site. Remove these and rehab the site.

Treat invasives.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

31	53062031-Cut	25.2	42110 - Planted Red Pine	Poletimber Medium	61	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with no area retention. Cut all species except for any incidental white pine. Trench and replant following harvest.

Specs: Chipping is desired but may be able to get away without the requirement due to the lower basal area. However there is still a lot of slash on site from the previous harvest while under private ownership. Evaluate during sale prep. Add chipping spec 2.2.2.

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

Acceptable Fully-stocked stand of planted red pine.

Other Add 2" spec to knock down any regen.

Site Condition

Proposed Start Date: 10/1 /2021



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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33	53062033-Cut	4.2	42110 - Planted Red Pine	Poletimber Well	54	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut with no area retention. Leave one clump of 3-5 quality red pine per acre. Do not cut any incidental white pine or sugar maple.
Specs: Expand the eastern treatment boundary to capture additional aspen trees that are outside the stand boundary.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: At least a medium-stocked stand with aspen, maple, and pine species as the desired regeneration.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

34	53062034-NF	3.1	320 - Upland Shrub Nonstocked				Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	320 - Upland Shrub	No
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Prescription Plant 10-20 red and white oak saplings in the stand. Protect with fencing.
Specs:

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

36	53062036-Cut	2.1	4130 - Aspen	Poletimber Poor	46	1-50	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut with no area retention. Cut all species except for white pine. Include the small sliver of red pine at the northwest side between this stand and the road.
Specs:

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

Acceptable Regen: Fully-stocked stand of aspen.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

37	53062037-Cut	1.4	4130 - Aspen	Poletimber Medium	46	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut with no area retention. Cut all species.
Specs:

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

Acceptable Regen: Fully-stocked stand of aspen.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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38	53062038-Cut	7.8	42110 - Planted Red Pine	Poletimber Well	50	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with no area retention. Cut all species except for any incidental white pine. Trench and replant following harvest.

Specs:

Add chipping spec 2.2.2.

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

Treatments:

Acceptable Fully-stocked stand of planted red pine.

Regen:

Other No herbicide necessary due to high browse pressure and lack of competing vegetation.

Comment:

Add 2" spec to knock down any regen.

Site Condition

Proposed Start Date: 10/1 /2021

45	53062045-NF	2.0	310 - Herbaceous Openland	Nonstocked	Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		No
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Prescription Manage as a maintained opening using prescribed fire, chemical, or mechanical means.

Specs:

This area was formerly a food plot while under private ownership.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

46	53062046-NF	0.7	310 - Herbaceous Openland	Nonstocked	Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		No
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Prescription Manage as a maintained opening using prescribed fire, chemical, or mechanical means.

Specs:

This area was formerly a food plot while under private ownership.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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47	53062047-Cut	13.6	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	85	51-80	Harvest	Clearcut with Retention	4117 - Mixed N. Hardwood - Pine	Even-Aged	No
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Prescription Clearcut all species except for any incidental oak. Leave one small retention pocket in an area of better stocking or quality.
Specs: Follow up with rollerchopping, herbicides, and then plant with red pine at a lower stocking and without any trenches. Planting spacing will be 8 feet between seedlings and 9 feet between adjacent planting rows. The idea is to allow more hardwood regeneration to grow in between the pine. Manage the red pine on earlier entries to allow more room for hardwoods. Leave 10% of the area unplanted for wildlife retention purposes. These areas will be planted with oak and possibly other mast species.
Next Step SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Planting, Unfurrowed
Treatments:
Acceptable Regen: Hardwoods, oak, and pine species will all be acceptable in determining regeneration success.
Other Comment:
Site Condition
Proposed Start Date: 10/1 /2020

48	53062048-Cut	110.9	42110 - Planted Red Pine	Sawtimber Poor	58	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with retention. Put retention in the desired areas that are already in the site condition layer. Do not cut any incidental white pine, basswood, or red oak. Trench and replant following harvest.
Specs: Protect red pine regeneration during the harvest. Add follow-up notes to have the trencher go around these areas.
Next Step SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Monitoring, Artificial Regen(3yr)
Acceptable Regen: Fully-stocked stand of planted red pine.
Other Comment: Do not need to require chipping due to the lower BAs. However, require that tops are lopped and evenly scattered throughout.
 Add 2" spec. Leave the option open for follow-up rollerchopping and herbicide.
Site Condition
Proposed Start Date: 10/1 /2023

49	53062049-Cut	42.1	42110 - Planted Red Pine	Sawtimber Poor	63	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with retention. Put retention along the east edge bordering the field, desired areas are already in the site condition layer. Do not cut any incidental white pine, basswood, or sugar maple. Trench and replant following harvest.
Specs: Protect areas of red pine regeneration during the harvest. Add follow-up notes to have the trencher go around these areas.
Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:
Acceptable Regen: Fully-stocked stand of planted red pine.
Other Comment: Chipping not required because of lower BAs but ensure that tops are lopped and scattered evenly.
 Add 2" spec to knock down any regen other than red pine.
 No herbicide, competing vegetation is not high enough in this stand to warrant treatment.
Site Condition
Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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51	53062051-NF	1.1	310 - Herbaceous Openland	Nonstocked	Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		No
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Prescription Manage as a maintained opening using prescribed fire, chemical, or mechanical means.

Specs:

This area of stand 51 was formerly a food plot while under private ownership.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 7 /17/2020

55	53062055-Cut	17.3	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Medium	59 51-80	Harvest	Overstory Removal	4117 - Mixed N. Hardwood - Pine	Two-Aged	No
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Prescription Remove all red pine except leave one clump of 3-4 windfirm trees per acre. Do not cut any other species.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Natural regen survey at re-inventory and evaluate success of hardwood regeneration. Regeneration dominated by beech and/or ironwood will not be considered successful.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

56	53062056-Cut	19.2	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Medium	65 51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with no area retention. Trench and replant to red pine. If present, do not cut underrepresented species in the stand like basswood, red oak, or white pine.

Specs:

Add chipping spec 2.2.2.

Next Step

SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);

Treatments:

Monitoring, Artificial Regen(3yr)

Acceptable

Fully-stocked stand of planted red pine.

Regen:

Other

Rollerchopping and herbicide may be needed here to deal with the beech regen, most of which is under 2". Evaluate post harvest.

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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58	53062058-NF	1.1	2113 - Forage Crops	Nonstocked	Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		No
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Prescription Manage as a maintained opening using prescribed fire, chemical, or mechanical means.

Specs:
This area was formerly a food plot while under private ownership.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

72	53062072-NF	10.5	310 - Herbaceous Openland	Nonstocked	Unspecified	NonForestMgt	Brush Cutting	310 - Herbaceous Openland		No
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Prescription Maintain opening by mechanical treatment or prescribed fire.

Specs:
Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

85	53062085-Cut	19.3	42110 - Planted Red Pine	Poletimber Medium	57 81-110	Harvest	Overstory Removal	4117 - Mixed N. Hardwood - Pine	Even-Aged	No
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Prescription Remove all red pine except leave one clump of 3-4 windfirm trees per acre. Do not cut any other species.

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

Acceptable Evaluate hardwood regeneration at next inventory cycle. Regeneration dominated by beech and/or ironwood will not be considered
Regen: successful.

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

93	53062093-Cut	7.3	42110 - Planted Red Pine	Poletimber Well	57 201+	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 3rd row thin. Mark to cut small suppressed poletimber stems in adjacent rows.

Specs:
Check row widths during sale prep. If too narrow then free-thin, not removing more than 1/2 of the BA at any location.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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97	53062097-NF	0.6	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops	No
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Prescription Manage as a maintained opening using prescribed fire, chemical, or mechanical means.

Specs:
This area was formerly a food plot while under private ownership.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

123	53062123-Plant	11.6	42210 - Natural Red Pine	Sapling Medium	9	Immature	Planting	ERROR	4211 - Planted Red Pine	Even-Aged	No
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Prescription Interplant red pine in areas of the stand that are poorly-stocked. There are no furrows in the stand.

Specs:
Next Step Monitoring, Artificial Regen(1yr)
Treatments:

Acceptable Red pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

127	53062127-NF	7.7	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Mowing	310 - Herbaceous Openland	No
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Prescription Maintain opening by mechanical treatment or prescribed fire.

Specs:
Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

131	53062131-NF	2.2	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops	No
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Prescription Manage as a maintained opening using prescribed fire, chemical, or mechanical means.

Specs:
This area was formerly a food plot while under private ownership.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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132	53062132-Cut	5.7	42110 - Planted Red Pine	Poletimber Medium	66	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with no area retention. Do not cut any incidental white pine or sugar maple. Trench and replant following harvest.

Specs:

Add chipping spec 2.2.2. Add 2" spec. Require follow-up rollerchopping to knock down remaining regeneration.

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

Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Fully-stocked stand of planted red pine.

Regen:

Other Evaluate the need for herbicide after rollerchopping.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

133	53062133-NF	1.4	42210 - Natural Red Pine	Sapling Poor	17	1-50	NonForestMgt	Fruit Tree/Shrub Planting	42210 - Natural Red Pine	Even-Aged	No
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Prescription Plant 10-20 red and white oak saplings in the stand, focus planting in non-forested areas. Protect with fencing.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

134	53062134-NF	3.6	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Fruit Tree/Shrub Planting	310 - Herbaceous Openland		No
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Prescription Plant native mast-producing shrubs.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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136 53062136-Cut	17.1	42110 - Planted Red Pine	Poletimber Poor	62	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with no area retention. Do not cut any incidental white pine or sugar maple. Trench and replant following harvest.

Specs:
Add chipping spec 2.2.2. Add 2" spec.

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

Acceptable Regen: Fully-stocked stand of planted red pine.

Other Comment: Add in roller-chopping post-harvest to knock down any remaining beech regeneration.

Include the west arm of stand 140 that is mostly non-forested as part of the treatment boundary.

An area at the west end (roughly 2 acres) is being excluded because it is mostly blown over timber and has filled in well to balsam fir.

Site Condition

Proposed Start Date: 10/1 /2021

138 53062138-Cut	4.3	42110 - Planted Red Pine	Poletimber Medium	50	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with no area retention. Do not cut any incidental white pine or sugar maple. Trench and replant following harvest.

Specs:
Add chipping spec 2.2.2. Add 2" spec.

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

Acceptable Regen: Fully-stocked stand of planted red pine.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

142 53062142-NF	0.7	2113 - Forage Crops Nonstocked	Unspecified			NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		No
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Prescription Manage as a maintained opening using prescribed fire, chemical, or mechanical means.

Specs:
This area was formerly a food plot while under private ownership.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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153	53062153-Cut	41.0	42110 - Planted Red Pine	Poletimber Medium	68	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with area retention. Place retention along the field edges, at the north end where the sitting benches are located and at the south end of the stand where the road and field intersect (desired areas are already in the retention layer). Do not cut any incidental white pine, basswood, or red oak. Also, leave any sugar maple over 10" DBH. Trench and replant following harvest.

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

Acceptable Regen: Fully-stocked stand of planted red pine.

Other Comment: Add 2" spec for regeneration. Leave the option open for roller-chopping post-harvest.

Leave the option open for herbicide. The beech understory is mostly below 5 feet at this time but becomes widespread in the northern parts of the stand.

Require chipping for follow-up planting but leave alternative options available if chipping markets are still not available. Add chipping spec 2.2.2.

Site Condition

Proposed Start Date: 10/1 /2020

156	53062156-NF	1.0	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		No
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Prescription Manage as a maintained opening using prescribed fire, chemical, or mechanical means.

Specs: This area was formerly an oil/gas well while under private ownership.
Treat invasives.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

163	53062163-NF	2.6	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	12	1-50	NonForestMgt	Brush Cutting	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Remove all scotch pine. Most are under 5" diameter.

Specs: Good project for a volunteer group.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
165 53062165-Cut	5.8	4130 - Aspen	Poletimber Medium	48	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with no area retention. Cut all species except for any incidental sugar maple or white pine. Exclude the steep slope at the north/northeast edge which is mostly fir regen and doesn't have aspen. Protect juniper clumps. Mark a few of the wolfy aspen as cut and leave trees for drumming logs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully-stocked stand of aspen with any other mix of species being acceptable.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
169 53062169-Cut	25.9	42110 - Planted Red Pine	Poletimber Medium	65	51-80	Harvest	Clearcut	4117 - Mixed N. Hardwood - Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with no area retention. Leave any incidental white pine or red oak.</p> <p><u>Specs:</u></p> <p>Follow up with rollerchopping, herbiciding, and then planting with red pine at a lower stocking and without any trenches. Planting spacing will be 8 feet between seedlings and 9 feet between adjacent planting rows. The idea is to allow more hardwood regeneration to grow in between the pine. Manage the red pine on earlier entries to allow more room for hardwoods. Leave 10% of the area unplanted for wildlife retention purposes. These areas will be planted with oak and possibly other mast species.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Planting, Unfurrowed</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Hardwoods, oak, and pine species will all be acceptable in determining regeneration success.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
170 53062170-Cut	19.4	42110 - Planted Red Pine	Sawtimber Medium	71	81-110	Harvest	Clearcut	4117 - Mixed N. Hardwood - Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with no area retention. Push the southwestern side of the treatment into stand 173 in areas of low quality that were high-graded. If present, leave underrepresented species like oak and white pine.</p> <p><u>Specs:</u></p> <p>Follow up with rollerchopping, herbicide, and then planting with red pine at a lower stocking and without any trenches. Planting spacing will be 8 feet between seedlings and 9 feet between adjacent planting rows. The idea is to allow more hardwood regeneration to grow in between the pine. Manage the red pine on earlier entries to allow more room for hardwoods. Leave 10% of the area unplanted for wildlife retention purposes. These areas will be planted with oak and possibly other mast species.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Planting, Unfurrowed</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Hardwoods, oak, and pine species will all be acceptable in determining regeneration success.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
172 53062172-NF	1.1	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops		No
<p><u>Prescription</u> Manage as a maintained opening using prescribed fire, chemical, or mechanical means.</p> <p><u>Specs:</u> Treat invasives.</p> <p>This area was formerly an oil/gas well while under private ownership.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment Acreage Proposed: 500.3

Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

5B 5C 2F 2G 2H 3J 5E

	Total Acres	Acres Available	Acres With Condition	Acres Not Available	Dominant Site Condition	5B	5C	2F	2G	2H	3J	5E
16	9	0	7		Aspen				1	6		
190	0	0	190		Cedar				190			
6	6	0	0		Cropland							
89	89	0	0		Herbaceous Openland							
19	18	0	1		Low-Density Trees			1				
15	0	0	15		Lowland Aspen/Balsam Poplar				15			
69	0	0	69		Lowland Conifers				66	3		
50	4	0	46		Lowland Mixed Forest				46			
27	27	0	0		Marsh							
48	2	33	13		Mixed Upland Deciduous	33		6		7		
18	18	0	0		Natural Mixed Pines							
775	694	18	63		Northern Hardwood		18	48	1	9	4	
581	574	2	5		Red Pine	2						5
65	17	0	48		Upland Conifers			34		14		
94	47	0	47		Upland Mixed Forest			22	3	23		
44	44	0	0		Upland Shrub							
23	0	0	23		Upland Spruce/Fir				0	22		
9	9	0	0		Urban							
2	2	0	0		Water							
42	40	0	3		White Pine			3				
2,180	1,599	53	528		Total Forested Acres	35	18	113	322	84	4	5
	73%	2%	24%		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	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 62

Greg Rekowski : Examiner

Year of Entry: 2022

2	Available	5B: Maintain for regeneration purposes	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Portion of stand 136 that is mostly blown over timber and is filling in well to balsam fir. It is being excluded from the harvest in stand 136. Type out as a separate stand next inventory update.							
3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Desired retention areas for stand 153. Northern retention is centered around a pair of sitting benches which overlook the field.							
4	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2F: Too steep	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 62

Greg Rekowski : Examiner

Year of Entry: 2022

9	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5B: Maintain for regeneration purposes	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Let 2nd age class of regeneration mature before treating.							
11	Unavailable	2F: Too steep	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small area of red maple and white pine regen that should be excluded from the harvest.							
13	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Ridge and ridgetop that doesn't have much red pine other than some pockets of regeneration. There is also some red maple and white pine here.							
15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small sinkhole-like depression that should be excluded from harvest.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 62

Greg Rekowski : Examiner

Year of Entry: 2022

16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet ground with drainages leading into stand 94.							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Only areas of drier ground, surrounded by wet ground.							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 62

Greg Rekowski : Examiner

Year of Entry: 2022

22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	126	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Wet drainage, seasonal stream.							
24	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2F: Too steep	64	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep ridgeline.							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet drainage/stream							
27	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	17	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: No access. Numerous streams and drainages cross this stand as well.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 62

Greg Rekowski : Examiner

Year of Entry: 2022

28	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet drainage							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet drainage							
32	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments: No good access to any of these upland stands.							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	78	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Very wet stands. Numerous streams and drainages cross through the stand as well.							

Report 4 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment: 62

Greg Rekowski : Examiner

Year of Entry: 2022

34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	58	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
No access. If access ever becomes available there are some wet areas in both stands that will need to be excluded.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
1	310 - Herbaceous Openland	Nonstocked	1.8		Unspecified	No	This used to be a feeding area for elk while under private ownership. There is a large steel silo at the southwest corner of the stand, currently empty. The east side of the stand has a large pen (roughly 8' wide by 30' long) that was used to store corn. There is still a 1-2 foot layer of cobs at the bottom of the pen. There is also a manmade pond at the southeast corner.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Sugar Maple	Low	>20 feet	Log	
								Wild Red Raspberry	Medium	< 5 feet	Tall Shrub	
								Spotted Knapweed	Low	Unspecified	Non-Wood	
								Autumn Olive	Trace	< 5 feet	Tall Shrub	
								Mixed Grasses	High	Unspecified	Non-Wood	
2	310 - Herbaceous Openland	Nonstocked	30.3		Unspecified	No	Large opening with some slopes along the north and northeast sides. Looking at older imagery, portions of this stand were planted while under private ownership. Small shed on the east side where the road enters the stand. Another old structure, mostly falling apart, in the middle of the stand near one of the white pine trees. A survey corner is in the middle of the stand, north of the road.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Trace	>20 feet	Log	
								St. Johns Wort	Medium	Unspecified	Non-Wood	
								Spotted Knapweed	Low	Unspecified	Non-Wood	
								Black Cherry	Trace	Variable	Tall Shrub	
								Mixed Grasses	Full	Unspecified	Non-Wood	
3	320 - Upland Shrub	Nonstocked	1.9		Unspecified	No	Filling in to pine in a few areas. Central part of the stand is on an elevated knob.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Low	>20 feet	Log	
								White Pine	Medium	Variable	Sapling	
								Red Maple	Trace	>20 feet	Log	
								Red Pine	Trace	>20 feet	Log	
								Red Pine	Low	Variable	Sapling	
								Black Cherry	Low	< 5 feet	Tall Shrub	
								Bracken Fern	High	Unspecified	Non-Wood	
								St. Johns Wort	Medium	Unspecified	Non-Wood	
4	42200 - Natural White Pine	Sawtimber Well	5.4	66	111-140	N/A	Nice stand of white pine stand that transitions into hardwoods with a lot of smaller red maple mixed in. A couple of smaller hemlock are present as well. Some very large white pine (legacy size) are present along the northern edge. Average ba/acre from 7 plots = 120 square feet. This stand was not cut when all of the adjacent pine stands were while under private ownership. Leave unmanaged as there aren't many stands like this in the entire Compartment.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	1	Log/Pole	10	
								Red Pine	7	Log/Pole	11	
								Red Maple	14	Pole/Log/Sap	8	
								White Pine	78	Log/XLog/Pole	14	66
Sub-Canopy Species	Density	Avg. Height	Size									
Beech	High	Variable	Sapling									
Red Maple	Low	>20 feet	Sapling									
Hemlock	Trace	>20 feet	Pole									
5	310 - Herbaceous Openland	Nonstocked	1.1		Unspecified	No	Heavily disturbed site. Old gas well, plugged in 2015. Storey lake B2-7, Muskegon Development					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Mixed Grasses	High	Unspecified	Non-Wood	
								Spotted Knapweed	Medium	Unspecified	Non-Wood	
Red Pine	Trace	< 5 feet	Seeding									
6	310 - Herbaceous Openland	Nonstocked	1.1		Unspecified	No	Old well pad, plugged in 2015. Storey Lake D4-7 Muskegon Development					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
7	4319 - Mixed Upland Forest	Sawtimber Poor	3.5	88	51-80	N/A	Poorly-stocked stand with numerous open areas. However, red pine is starting to fill in many of the open areas. Trace of paper birch. Average ba/acre from 5 plots = 56 square feet.																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>5</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>5</td> <td>Log</td> <td>11</td> <td></td> </tr> <tr> <td>White Pine</td> <td>40</td> <td>Log/Pole</td> <td>13</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>50</td> <td>Log/Pole</td> <td>12</td> <td>88</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	5	Pole/Sapling	5		Sugar Maple	5	Log	11		White Pine	40	Log/Pole	13		Red Maple	50	Log/Pole	12	88	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	Medium	Variable	Sapling	White Pine	Trace	Variable	Sapling	Beech	Low	Variable	Sapling	Black Cherry	Low	Variable	Tall Shrub									
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Beech	Low	Variable	Sapling																																																						
Black Cherry	Low	Variable	Tall Shrub																																																						
8	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	16.1	53	111-140	N/A	Moderate quality white pine stand that is mostly in the large poletimber/small sawlog size classes although there are a few XL size trees present. Some areas of pure white pine. The aspen component is low quality. Large, old white pine stumps are scattered throughout. Average ba/acre from 7 plots = 116 square feet. Flat to gently rolling terrain. Manage for white pine, let the aspen die out.																																																		
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9	310 - Herbaceous Openland	Nonstocked	1.2		Unspecified	No	Old well pad, plugged in 2015. Too much snow to see the herbaceous layer but it looks like there is some mullein and knapweed present. Storey laek D2-7 Muskegon Development.																																																		
10	2113 - Forage Crops	Nonstocked	1.6		Unspecified	No	From imagery it looks like this was maintained as a food plot while under private ownership.																																																		
11	42260 - Natural Pine, Mixed Deciduous	Sawtimber Poor	9.3	52	1-50	N/A	Poorly-stocked stand with mostly open grown white pine and red maple. A few clumps of denser stocking with better quality white pine are present near the G stand. In general the west half of the stand is much more open and almost resembles a G type. Old fire-charred stumps are present throughout. Average ba/acre from 8 plots = 36 square feet.																																																		
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12	4319 - Mixed Upland Forest	Poletimber Medium	7.6	52	51-80	N/A	Moderate to poor quality red maple, the white pine is a little better quality. Not very well-stocked due to the fact that the majority of aspen was cut out of the stand many years ago, although a few were left here and there. Sparse understory in most areas. Average ba/acre from 6 plots = 68 square feet. Gently rolling terrain.																																																		
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13	42201 - Natural White Pine, Mixed Deciduous	Poletimber Medium	8.9	53	51-80	N/A	White pine dominated stand of moderate quality. Hardwoods increase in the north half of the stand. No sale records but it looks like this stand was harvested several years ago, I'm guessing they took out most of the aspen and any nice hardwood sawlog stems that were present. The understory has not developed and is barren in many places. Red pine present only along the northern edges. Trace of ironwood. Average ba/acre from 6 plots = 72 square feet. Mostly flat terrain.																																																		
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14	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	2.2	47	81-110	N/A	Moderate quality white pine stand. Bigtooth aspen mostly along the road edge. This stand looks like it may have had a partial harvest years ago while under private ownership. Average ba/acre from 3 plots = 93 square feet.																																												
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15	310 - Herbaceous Openland	Nonstocked	1.3		Unspecified	No	Old well pad, plugged in 2015. Heavily disturbed site, a lot of invasives are present. Mullein and a little milkweed are present as well. Storey Lake C3-7, Muskegon Development																																												
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16	4113 - R.Maple, Conifer	Poletimber Medium	14.1	58	51-80	N/A	Moderate to poor quality red maple stand. Strips of planted red pine weave through the stand, more common at the east, west, and south ends. Most of the better quality red pine were cut out of the stand a few years ago. Center of the stand is more of a pure red maple/white pine/red oak mix. A few small clumps of nice mixed pine regeneration. All beech has BBD. Trace of sugar maple. Average ba/acre from 11 plots = 79 square feet. Mostly flat terrain but the stand sits at a slightly higher elevation than stands to the south. Retain for now as this stand provides some species diversity in relation to the surrounding plantations.																																												
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18	42110 - Planted Red Pine	Sawtimber Well	10.2	62	111-140	N/A	Red pine plantation of moderate quality that wasn't completely high-graded like the rest of the plantations in the area. There is still some potential here. BA's are much higher closer to the road as it looks like they didn't thin these areas. Red pine regeneration becomes abundant in the north half of the stand where BA's are lower. Trace of balsam fir and basswood in the overstory. Maple overstory more pronounced at the far northern end. Average ba/acre from 7 plots =124 square feet.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
19	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	18.2	86	51-80	N/A	Poorly-stocked stand of overstory hardwoods dominated mostly by low quality red maple. However a second age class of red pine has naturally seeded in very well in many places, far southwest corner of the stand next to the road is very dense. There are still a few open areas without regeneration scattered throughout. The east side of the stand sits on a side slope. A couple of log-sized ironwood are present. Trace of beech and balsam fir in the overstory. Average ba/acre from 9 plots = 60 square feet. Let the red pine understory continue to fill in and mature.																																																																								
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20	42110 - Planted Red Pine	Poletimber Well	2.5	58	81-110	N/A	Sporadic stocking from a heavy partial harvest that took place while under private ownership. Most of the best red pine trees were cut and no consideration was made to residual spacing. Typical high-grading. Trace of balsam fir in the overstory. Average ba/acre from 4 plots = 110 square feet.																																																																								
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21	310 - Herbaceous Openland	Nonstocked	1.5		Unspecified	No	Stand sits in a bowl-like depression. Old gas well, plugged in 2015. Lots of knapweed. Also a lot of barren ground. Storey Lake D4-12, Muskegon Development.																																																																								
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22	4110 - Sugar Maple Association	Sawtimber Well	1.9	95	81-110	N/A	Nice little stand of hardwoods. Sugar maple quality is good. Trace of black cherry and cedar along the edges. Northeast side has an old open area that has filled in with fir. Average ba/acre from 3 plots= 100 square feet. Stand transitions to wet ground along the north edge.																																																																								
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23	122 - Road/Parking Lot	Nonstocked	3.4		Unspecified	No	Alexander Road																																																																								
24	42110 - Planted Red Pine	Sawtimber Well	2.0	58	201+	N/A	Small stand that was only lightly thinned while under private ownership. One of the only red pine stands in the Compartment that was not completely high-graded. The portion of the stand west of the road was barely thinned at all and has very high BAs, east of the road was thinned a little heavier. Average ba/acre from 4 plots = 215 square feet.																																																																								
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25	42200 - Natural White Pine	Poletimber Well	1.1	58	171-200	N/A	Small stand of dense white pine. Mostly small diameter and was never managed while under private ownership. Average ba/acre from 2 plots = 190 square feet. Do not manage, consider as retention for the surrounding harvest.																																				
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26	42110 - Planted Red Pine	Sawtimber Medium	6.1	53	51-80	N/A	Degraded stand. Sporadic stocking from a heavy partial harvest that took place while under private ownership. Most of the largest red pine trees were cut and no consideration was made to residual spacing. Typical high-grading. Small clump of bigtooth aspen at NW end against private. East finger has a few quaking aspen mixed in. Scattered porcupine damage on red pine crowns. Trace of basswood, sugar maple, and red maple in the overstory. Average ba/acre from 6 plots = 62 square feet.																																				
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27	3104 - Degraded	Nonstocked	1.2	Unspecified			Old brine disposal well, plugged in 2015. 4 concrete foundations present in the stand. Lots of barren ground including some gravel. Numerous invasives present.																																				
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28	42110 - Planted Red Pine	Poletimber Well	6.0	53	111-140	N/A	Compared to other plantations in the area, this stand did not get cut nearly as hard, some areas haven't even been thinned yet. Trace of red maple and bigtooth aspen in the overstory. Average ba/acre from 7 plots = 133 square feet. Still a lot of potential in this stand, wait another entry to thin.																																				
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29	310 - Herbaceous Openland	Nonstocked	6.1	Unspecified		No	Cleared right-of-way for Alexander Road.																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
30	4311 - Pine, Aspen Mix	Sawtimber Poor	10.2	48	1-50	N/A	<p>Scattered clumps of forested areas mixed in with non-forested areas. Resembles a U type in most areas. Some areas where red pine is seeding in. A small clump of nice bigtooth aspen at the far southern end near Alexander Road. One clump of quaking aspen regen in the northern end. Trace of red maple and jack pine in the overstory. Average ba/acre from 7 plots = 44 square feet.</p> <p>There is an old trash/scrap pile on the southwest side near the intersections of stand 26 and 28. An old buggy or vehicle cab is mixed in with the other items. It appears to be quite old.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	1	Log	11		White Pine	Trace		Variable	Sapling
Sugar Maple	2	Log	12		Jack Pine	Trace		Variable	Sapling
Balsam Fir	3	Pole/Log	8		Balsam Fir	Trace		Variable	Sapling
Bigtooth Aspen	10	Pole/Log	8		Ironwood	Low		Variable	Sapling
Red Pine	37	Log/Pole	10		Beech	Low		Variable	Sapling
Quaking Aspen	47	Log/Pole	10	48	Red Pine	Low		Variable	Sapling
					Red Pine	Low		< 5 feet	Seeding
					Quaking Aspen	Low		Variable	Sapling
					Black Cherry	Medium		Variable	Tall Shrub
					Witch Hazel	Trace		5 - 10 feet	Tall Shrub
31	42110 - Planted Red Pine	Poletimber Medium	26.0	61	51-80	N/A		<p>Severely degraded stand with sporadic stocking from a heavy partial harvest that took place while under private ownership. Most of the largest red pine trees were cut and no consideration was made to residual spacing. Typical high-grading. A lot of slash piles are still present on site. Trace of balsam fir and red maple in the overstory. Average ba/acre from 8 plots = 51 square feet. Gently rolling terrain.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Quaking Aspen	2	Pole/Log	9		Red Pine	Low	< 5 feet		Seeding
Red Pine	98	Pole/Log	8	61	Balsam Fir	Low	Variable		Sapling
					Beech	Low	< 5 feet		Seeding
					Black Cherry	Low	Variable		Tall Shrub
32	42210 - Natural Red Pine	Sapling Medium	1.4	24	1-50	N/A	<p>Natural red pine that has seeded in from the surrounding stand. North half is almost fully-stocked while the south end is more open.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Cherry	3	Pole	7		Black Cherry	Low		Variable	Tall Shrub
Red Pine	97	Sapling/Pole	3	24					
33	42110 - Planted Red Pine	Poletimber Well	3.7	54	81-110	N/A	<p>Thinned while under private ownership but not high-graded nearly as bad as some of the other surrounding stands, except for the portion east of the road which was cut heavier. Quaking aspen mostly mixed in along the edges. A couple of wolfy sugar maple are present. Trace of ironwood and white pine in the overstory. Average ba/acre from 4 plots = 100 square feet. Some rolling terrain in the west half.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	1	Log	13		Beech	Low		Variable	Sapling
Black Cherry	1	Pole	7		Balsam Fir	Low		Variable	Sapling
Quaking Aspen	8	Pole/Log	9		Red Pine	Trace		Variable	Sapling
Red Pine	90	Pole/Log	8	54	Black Cherry	Low		Variable	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
34	320 - Upland Shrub	Nonstocked	3.1		Unspecified	No	Stand sits on an elevated knob. Pine filling in north half.																																								
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35	320 - Upland Shrub	Nonstocked	1.2		Unspecified	No	Some leftover red pine pulpwood piles at the north end. Some quaking aspen trying to sprout up.																																								
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36	4130 - Aspen	Poletimber Poor	1.6	46	1-50	N/A	Average ba/acre from 3 plots = 23 square feet.																																								
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37	4130 - Aspen	Poletimber Medium	1.1	46	81-110	N/A	Average ba/acre from 2 plots = 85 square feet.																																								
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38	42110 - Planted Red Pine	Poletimber Well	7.8	50	81-110	N/A	Sporadic stocking from a heavy partial harvest that took place while under private ownership. This stand wasn't high-graded quite as bad as surrounding stands in the area but it is still in pretty rough shape, especially east of the road. Quite a few deformed crowns from porcupine damage. Trace of black cherry and white pine in the overstory. Average ba/acre from 6 plots = 97 square feet.																																								
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39	320 - Upland Shrub	Nonstocked	4.0		Unspecified	No																																																																
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40	122 - Road/Parking Lot	Nonstocked	5.3		Unspecified	No	Fontinalis Road																																																															
41	42210 - Natural Red Pine	Sapling Poor	2.3	12	1-50	N/A	Naturally seeding in to red pine. Better stocking of saplings in the south half, more seedlings in the north half.																																																															
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42	42110 - Planted Red Pine	Sawtimber Medium	16.8	71	51-80	N/A	Sporadic stocking from a heavy partial harvest/high-grading that took place while under private ownership. However, a lot of sawlog-sized trees were left in this stand, differing from adjacent stands where mostly the smaller poletimber was left. Some small inclusions of white pine along the south edge adjacent to the road that were excluded from the previous harvest. Regeneration is more diverse in this stand with a nice component of red and white pine seeding into areas with lower BAs. Beech regen is becoming heavy in a few localized areas, but overall it is not too much of an issue. Trace of red oak in the overstory. Average ba/acre from 9 plots = 62 square feet. Terrain is mostly flat. Hold this stand for ten years and consider a seed-tree/shelterwood cut and converting to a natural red maple/red pine/white pine cover type.																																																															
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43	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	37.5	88	1-50	N/A	Open-grown hardwood stand that mostly sits on a steep west-facing slope and ridgetop. The ridgetop provides a very nice view of the valley to the west and has a small sitting bench at the top. Scattered clumps of trees are present and have beech regeneration filling in underneath, most prevalent at the far northern end of the stand. The remainder of the stand is sparsely stocked with poor quality hardwoods and has mostly grass and bracken at the ground level. Trace of balsam fir, red pine, and scotch pine in the overstory. Average ba/acre from 12 plots = 31 square feet. No management due to the steep slopes.																																																															
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44	4111 - S.Maple, Hard Mast Association	Poletimber Well	4.4	86	81-110	N/A	Moderate to low quality hardwood stand that sits on a slight west-facing slope. Most but not all of the beech have BBD. There appears to be a few beech trees that may be resistant. Thick beech understory in most places. Trace of yellow birch. Average ba/acre from 5 plots = 90 square feet.																																																								
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45	310 - Herbaceous Openland	Nonstocked	2.0		Unspecified	No	This stand looks like it was managed as a food plot long ago while under private ownership. Red pine is starting to fill in. An old feeding structure is at the southwest side of the stand.																																																								
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46	310 - Herbaceous Openland	Nonstocked	0.7		Unspecified	No	It looks like this stand was managed as a food plot years ago while under private ownership. Red pine is now starting to fill in.																																																								
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47	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	13.6	85	51-80	N/A	Poor quality hardwood stand that was cut heavily while under private ownership, likely multiple times over the years. The interior of the stand is heavier to poletimber and has a thick understory of beech. There is also a lot of ironwood regen but almost all of it is below 5 feet and is being browsed heavily. The edges of the stand have more open-grown sawlog stems with a mostly barren understory. Most beech has BBD. Some very large, old white pine stumps are scattered throughout. Trace of red oak. Average ba/acre from 7 plots = 64 square feet. High browse pressure makes desirable hardwood regen very unlikely here so the only option may be to convert this to planted pine.																																																								
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48	42110 - Planted Red Pine	Sawtimber Poor	110.3	58	1-50	N/A	Sporadic stocking from a heavy partial harvest/high-grading that took place while under private ownership. Most of the best trees were cut and no consideration was made to residual spacing. Quite a few snags from mortality after the harvest. There are also a few small pockets of newer decline. Red pine has naturally seeded in well in some areas. Beech regen is becoming heavy in a few localized areas in the east half of the stand, but overall it is not too much of an issue. Trace of basswood, red oak, white pine, and merchantable black cherry. Average ba/acre from 21 plots = 49 square feet. Rolling terrain with a few short, steep slopes but nothing that would impact operability.																																																								
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49	42110 - Planted Red Pine	Sawtimber Poor	42.8	63	1-50	N/A	Sporadic stocking from a heavy partial harvest that took place while under private ownership. Most of the best trees were cut and no consideration was made to residual spacing. Typical high-grading. Trace of basswood, sugar maple, red maple, and white pine in the overstory. Average ba/acre from 12 plots = 36 square feet. Red pine has seeded in well in some areas, seems to be more prevalent in the north half of the stand. Mostly flat terrain.																																										
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50	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	16.1	58	81-110	N/A	Sporadic stocking from a heavy partial harvest that took place while under private ownership. Most of the largest red pine trees were cut and no consideration was made to residual spacing. This stand wasn't high-graded as bad as some adjacent stands and still has some potential left. The hardwood component is dominated by red maple and is mostly low quality except for a few nice log trees here and there. Some small areas of red pine pocket mortality. Beech understory becoming thick. Trace of quaking aspen and ironwood in the overstory. Average ba/acre from 9 plots= 91 square feet. Flat terrain.																																										
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51	310 - Herbaceous Openland	Nonstocked	3.5		Unspecified	No	West half of stand sits on a slight side slope. Some aspen trying to sprout in the western half but is being browsed hard, not sure how much is alive. East end may have been worked as a food plot at one time, based on older imagery.																																										
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52	42110 - Planted Red Pine	Sawtimber Well	1.4	66	51-80	N/A	Thin strip of planted red pine. Was cut while under private ownership but not completely high-graded like most of the other red pine stands in the Compartment. Average ba/acre from 3 plots = 73 square feet. Trace of bigtooth aspen, white pine, and sugar maple in the overstory.																																										
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54	4111 - S.Maple, Hard Mast Association	Poletimber Well	20.9	83	81-110	N/A	Moderate quality hardwood stand that lies on a series of steep slopes. An elevated ridgeline runs N-S along the eastern part of the stand, looking at the topo map this ridgetop appears to be the highest elevation on the Storey Lake property. Due to the steep slopes the majority of this stand has never been thinned before. Beech becomes common on the steep west-facing slopes but most of them have BBD and many are already dead and/or fallen over. Trace of red oak, paper birch, and ironwood in the overstory. Average ba/acre from 10 plots = 86 square feet.																																										
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55	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Medium	17.3	59	51-80	N/A	Planted red pine mixed in with hardwoods that was high-graded while under private ownership. Hardwoods are scattered throughout, both in clumps and individual trees. Hardwood quality is not very good with the exception of a few nicer sawlog stems. Trace of red oak, white pine, and beech in the overstory. Average ba/acre from 9 plots = 66 square feet. The south end of the stand is on a slight ridge overlooking stand 49 to the south. The remainder of the stand is flat.																																																												
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56	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Medium	19.2	65	51-80	N/A	Sporadic stocking from a heavy partial harvest/high-grading that took place while under private ownership. Most of the best trees were cut and no consideration was made to residual spacing. Residual hardwoods are low quality except for a few nice sawlog stems. Beech regen is becoming heavy in a few localized areas, but overall it is not too much of an issue. Trace of basswood, beech, white pine, bigtooth aspen, and ironwood in the overstory. Average ba/acre from 7 plots = 64 square feet. Terrain is mostly flat except for a few rolling hills along the west edge.																																																												
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57	4112 - Maple, Beech, Cherry Association	Poletimber Well	18.9	73	111-140	N/A	Moderate to high quality hardwood stand dominated by red maple. There are a lot of small poletimber stems as the age of this stand is a bit younger than other adjacent hardwood stands. Stocking and quality decline in the northwest and southwest ends as the cover type shifts to more of a pine type. This is one of the only hardwood stands in the Compartment that has never been thinned. The yellow birch component is mostly healthy. Hemlock is mostly in a clump at the northeast end although there are a few individual trees scattered throughout. Many do not appear healthy due to what appears to be porcupine damage. Supercanopy of very large white pine scattered throughout. Average ba/acre from 12 plots = 117 square feet. Rolling terrain with a ridgeline in the north half that becomes very steep at the northeast end. Hold for ten years. Protect the hemlock, yellow birch, and white pine component.																																																												
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58	2113 - Forage Crops	Nonstocked	1.1		Unspecified	Managed Opening	Old food plot. Still in good shape although a few red pine are starting to seed in.																																																												
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59	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	12.1	88	51-80	N/A	Mixed up stand with various cover types present. The east 1/2 of the stand has a much lower BA with an understory of pine, fir, and beech that resembles a two-aged structure from an old shelterwood cut. There is also an area at the far northeast end of almost pure juniper, maybe a 1/4 acre in size. The northwest side of the stand lies on a steep ridgeline and is mostly an aspen/maple mix. The remainder of the stand is moderate quality hardwoods with some big diameters and a heavy understory of beech regeneration. A few strips of planted red pine are scattered throughout. The majority of overstory beech have BBD. Average ba/acre from 9 plots = 64 square feet.																																																												
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60	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	5.9	88	51-80	N/A	Mixed species stand that is a hodgepodge of everything. Red maple is the consistent species throughout. A few small clones of large aspen are present. Some areas of lower stocking are scattered throughout and are filling in with fir, beech, and some red pine. Trace of quaking aspen, white spruce, yellow birch, and white pine. Average ba/acre from 5 plots = 76 square feet. The stand sits on a short, steep north facing slope. Slopes at the north end of the stand are more gradual than the rest of the stand.																																																									
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61	42110 - Planted Red Pine	Sawtimber Well	25.5	64	81-110	N/A	Red pine plantation that was cut heavily while under private ownership but not high-graded nearly as badly as many of the other red pine stands in the Compartment. A few small pockets of old mortality are present. Beech understory common in the east half of the stand while the fir understory increases in the northwest part. Trace of beech, white pine, ironwood, and red oak in the overstory. Average ba/acre from 10 plots = 85 square feet. The east part of the stand is in a valley and side-slope while the rest of the stand is mostly flat. Hold off on a treatment until basal areas are high enough for a thinning.																																																									
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62	6239 - Mixed Emergent Wetland	Nonstocked	0.4		Unspecified	No	Small wetland that looks like it connects with the larger wetland to the east (stand 63) via a small channel on the southeast side.																																																									
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63	6233 - Wet Meadow	Nonstocked	17.2		Unspecified	No	Wet meadow with Stewart Creek flowing through the middle. Some beaver activity in the middle of the stand. Numerous small streams and drainages enter the Creek from each side.																																																									
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64	42330 - Upland Fir	Poletimber Well	14.8	50	81-110	N/A	Moderate quality fir stand that is mostly upland and elevated above the adjacent lowland stands. A few small drainages and streams flow west to east, draining into Stewart Creek. A few localized areas with a lot of fir blowdown. No evidence of past cutting history. Trace of American elm and black spruce. Average ba/acre from 11 plots = 84 square feet.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
65	6120 - Lowland Cedar	Sawtimber Medium	3.7	76	81-110	N/A	Dense clumps of cedar along the west edge which transition to more of a mixed stand in the east half. Several areas of very thick blowdown. Areas of cedar decline as there is a wet drainage which goes north to south through the middle of the stand. The BAM component is mostly located in this area. Some drier ground at the east edge. A small stream borders the southern edge, flowing to the east. A few old cut cedar stumps can be found along the west/northwest edge, it looks like from many years ago. Trace of black spruce, American elm, and paper birch in the overstory. Average ba/acre from 5 plots = 110 square feet.																																																		
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66	42340 - Upland Spruce/Fir	Poletimber Medium	2.2	50	51-80	N/A	Unique stand. The east half is on a dry ridge elevated above the surrounding lowlands and has a lot of black cherry. Some of the cherry have merchantable form, others do not. The west half of the stand is wetter with thick alder in the understory. Trace of green ash poletimber that is alive. Average ba/acre from 5 plots = 54 square feet.																																																		
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67	320 - Upland Shrub	Nonstocked	6.2		Unspecified	No	Lots of knapweed and leafy spurge in the west half of the stand. Would benefit from a burn to get more native herbaceous species, however the logistics of getting equipment to this location is difficult.																																																		
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68	4319 - Mixed Upland Forest	Sawtimber Medium	3.0	53	51-80	N/A	Mostly dry stand except for the northern edge, which becomes wet and is where most of the BAM is located. Areas of predominantly saplings at the west/northwest part of the stand. Trace of white spruce and black cherry in the canopy. Average ba/acre from 4 plots = 80 square feet.																																																		
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69	6129 - Mixed Coniferous Lowland Forest	Sapling Well	1.8	57	51-80	N/A	Legitimate cedar sapling stand, the first of which I've seen in the PRC. Dense stocking. A lot of the smaller cedar has been killed from browse but there is a good percentage that has made it past the browse level. A small amount of older cedar is present, mostly in the large poletimber size class. Trace of red maple and paper birch. No evidence of a past cutting history. 98 imagery shows this site as being more open at that time which makes me guess this stand was either flooded or had a lot of blowdown long ago.																																																															
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70	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	5.1	66	1-50	N/A	Scattered clumps of trees mixed in with non-forested areas. This stand resembles a U in areas as a lot of cherry is present, including it in the canopy layer despite many of the larger trees not having much merchantable potential. Small clone of bigtooth aspen on the southwest side next to the Rail Trail. BAM saplings along the southeast edge. A few ironwood sawlogs are present in the north half. Trace of white spruce. Average ba/acre from 5 plots = 42 square feet.																																																															
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71	320 - Upland Shrub	Nonstocked	8.9		Unspecified	No	Nice U stand with a lot of cherry of varying sizes. East half of the stand has some clumps of hardwoods and conifers. West half becomes more open and is where most of the autumn olive, blackberry, and raspberry is located.																																																															
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72	310 - Herbaceous Openland	Nonstocked	10.5		Unspecified	No	Picturesque opening with scattered trees. No evidence that this was managed as a food plot while under private ownership. Has a lot of bracken and some weedy invasives, not a whole lot of grass. Mostly flat terrain. Would likely benefit from a burn but access is not good for equipment.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low	>20 feet	Log	
								Basswood	Trace	>20 feet	Log	
								Sugar Maple	Trace	>20 feet	Log	
								White Pine	Trace	>20 feet	Log	
								Balsam Fir	Trace	>20 feet	Pole	
								Red Oak	Trace	>20 feet	Log	
								Black Cherry	Low	Variable	Tall Shrub	
								Autumn Olive	Trace	5 - 10 feet	Tall Shrub	
								Juniper	Trace	< 5 feet	Tall Shrub	
								White Pine	Trace	Variable	Sapling	
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								Scotch Pine	Trace	5 - 10 feet	Sapling	
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Leafy Spurge	Low	Unspecified	Non-Wood									
73	6120 - Lowland Cedar	Sawtimber Well	6.0	88	111-140	N/A	Thin strip of cedar that is slightly higher in elevation than the adjacent Q5 stand to the east. Middle of part of the stand is heavy to cedar but the south and north ends have a lot more fir and other species mixed in. Areas of wet ground as there appear to be drainages coming down from the higher grounds to the west. Trace of white spruce, paper birch, and American elm. Average ba/acre from 3 plots = 137 square feet.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Yellow Birch	2	Log/Pole	11	
								Quaking Aspen	5	Log/XLog	13	
								Red Maple	10	Log/Pole	12	
								Black Spruce	5	Pole	7	
								Balsam Fir	15	Pole	7	
Northern White Cedar	63	Log/Pole	10	88								
74	6120 - Lowland Cedar	Sawtimber Well	7.4	88	171-200	N/A	High quality, dense stand of cedar. Nice, healthy component of yellow birch. There used to be some black ash but it is now all dead. Two different streams pass through the stand, draining down towards the east/northeast. Trace of quaking aspen. Average ba/acre from 5 plots = 186 square feet. There is a lot of blowdown which makes getting through this stand difficult.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Balsam Fir	Medium	Variable	Sapling	
								Canopy Species	% Cover	Size Class	DBH	Age
								Balsam Fir	1	Pole	6	
								Yellow Birch	8	Log/Pole	11	
								Red Maple	5	Log	13	
Northern White Cedar	86	Log/Pole	10	88								
75	4134 - Aspen, Spruce/Fir	Sawtimber Medium	3.9	66	51-80	N/A	Thin strip of a stand that sits on a slight east facing slope. Several wet areas are present as there appears to be seeps draining from the higher ground. An old road runs north-south through this stand, parallel with the Rail Trail, which is adjacent to the west. Small hardwood inclusions at the north and south ends. The south end has some decent quality black cherry. Trace of yellow birch and basswood. Average ba/acre from 6 plots = 67 square feet.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Balsam Fir	High	Variable	Sapling	
								Ironwood	Trace	Variable	Sapling	
								Black Cherry	Low	Variable	Tall Shrub	
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern White Cedar	2	Log	10	
Black Cherry	5	Pole/Log	8									
Balsam Fir	32	Pole/Log	8									
Sugar Maple	6	Log	14									
Red Maple	7	Log	12									
Quaking Aspen	48	Log/Pole	13	66								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
76	6120 - Lowland Cedar	Sawtimber Well	6.9	88	141-170	N/A	<p>Nice cedar with a mix of other species. Lots of blowdown and large coarse woody debris. Stand slopes down to the north/northeast and has multiple wet drainages. Trace of white pine, basswood, and sugar maple. Average ba/acre from 7 plots = 150 square feet. An old road runs north-south along the west edge of the stand, parallel to the Rail Trail.</p> <p>Several dead hemlock along the west edge, something to keep an eye on with the remaining trees.</p>																																												
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77	6233 - Wet Meadow	Nonstocked	9.7		Unspecified	No	<p>Stewart Creek and the creek coming out of Storey Lake converge in this stand. Dead standing timber to the north as there is a beaver dam just outside the northern boundary in stand 84. Only visited the edges of this stand.</p>																																												
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78	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	20.9	103	111-140	N/A	<p>Did not visit. From imagery, similar to stand 84 to the west except this stand appears better quality and there does not look like any areas of decline.</p>																																												
79	6124 - Lowland Spruce-Fir	Sapling Medium	5.0	26	Immature	N/A	<p>Very wet stand that looks like it was flooded at one time as there are lots of dead cedar stems. It is now starting to fill in with swamp conifers however there is still standing water in many places. Some cedar regeneration is present at the north end. Stewart Creek flows through the east side. Did not visit all areas of the stand, only the north and south parts.</p>																																												
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80	6129 - Mixed Coniferous Lowland Forest	Sapling Well	4.8	31	Immature	N/A	<p>Did not visit. From 98 imagery it looks like this stand was once flooded and has now filled in with lowland conifers. There also appears to be a decent amount of deciduous species in the middle part of the stand, likely paper birch and BAM.</p>																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
81	6123 - Lowland Fir	Sapling Well	3.5	26	Immature	N/A	Dense stand of Q3 with a sparse supercanopy of cedar, red maple, and quaking aspen. A lot of blowdown is present throughout the stand which makes getting through it difficult. Some cedar regeneration is present. A few small areas of drier ground mixed in. No tree big enough to core so age is an estimate. Canopy percentages should be revised when the stand gets older as I only visited the north half of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		6	Log	11		Tag Alder		
Northern White Cedar		4	Sapling	1		Low		
Tamarack		5	Sapling	3		10 - 20 feet		
Willow spp.		1	Sapling	2		Tall Shrub		
Quaking Aspen		1	Sapling	2				
Balsam Poplar		12	Sapling	3				
Black Ash		4	Sapling	2				
Black Spruce		15	Sapling	2				
Balsam Fir		50	Sapling	2	26			
Red Maple		1	Log	12				
Quaking Aspen		1	Log	14				
82	6120 - Lowland Cedar	Poletimber Medium	29.8	75	81-110	N/A		Generally low quality, very wet stand. Numerous small streams and drainages pass through this stand, draining to the east. Areas of cedar decline and mortality tend to be concentrated in these wet areas and are now mostly cattails. A couple clumps of healthy cedar, more along the west edge adjacent to the Rail Trail. A few upland inclusions at the far northeast end. Average ba/acre from 12 plots = 91 square feet.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		1	Log/Pole	11		Balsam Fir		
Quaking Aspen		1	Log/Pole	13		Medium		
Paper Birch		1	Pole/Log	8		Variable		
Tamarack		3	Log/Pole	10		Sapling		
Balsam Fir		21	Pole	7		10 - 20 feet		
White Spruce		3	Log/Pole	11		Tall Shrub		
Black Spruce		19	Pole/Log	8		Non-Wood		
Northern White Cedar		51	Pole/Log	9	75	Cattail spp.		
						Low		
83	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	8.9	76	111-140	N/A	Moderate quality and very wet swamp conifer stand. Stocking is somewhat irregular as there are some areas of blowdown with lower BAs. Tamarack is more abundant in the south half of the stand while cedar becomes dominant in the north half. Some areas along the west edge that had cedar harvested at one time, not sure how long ago, I'd guess somewhere around 10-20 years ago. Average stand ba/acre from 5 plots = 132 square feet. A small stream meanders through the west/northwest part of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		2	Log	11		Balsam Fir		
Tamarack		28	Log/Pole	10	56	Medium		
Black Spruce		4	Pole	6		Variable		
Balsam Fir		18	Pole	6		Sapling		
						10 - 20 feet		
						Tall Shrub		
84	6124 - Lowland Spruce-Fir	Poletimber Medium	15.4	103	81-110	N/A	Very wet, poor quality stand. The east/northeast part of the stand has a lot of standing water and most cedar are in decline. Quality gets better as you move west or southwest in the stand but there are still some areas that appear stagnant. Small upland area in the southeast part of the stand. Trace of quaking aspen, white pine, red maple, and paper birch. Average ba/acre from 6 plots = 98 square feet.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Tamarack		8	Pole	6		Balsam Fir		
Northern White Cedar		35	Pole/Log	8		High		
Balsam Fir		12	Pole	6		Variable		
Black Spruce		45	Pole/Sap/Log	6	103	Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
85	42110 - Planted Red Pine	Poletimber Medium	19.3	57	81-110	N/A	Red pine plantation that was heavily high-graded while under private ownership. Highly variable stocking as basal areas range anywhere from 0 to 170. Areas of blowdown and snapped stems where the stand was cut too heavily. There are also areas of heavy slash accumulation where it looks like trees were cut and left without being utilized. A few pockets of old red pine mortality. Residual hardwoods are moderate quality and more numerous in the east half of the stand. Not much understory in the west half of the stand but the east half has quite a bit of beech and balsam fir with some areas having abundant sugar maple seedlings. Trace of beech, basswood, quaking aspen, white pine, and balsam fir in the overstory. Average ba/acre from 10 plots = 96 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		2	Log	12		Balsam Fir		Medium	Variable	Sapling	
Sugar Maple		10	Log	13		Beech		Medium	5 - 10 feet	Sapling	
Red Pine		88	Pole/Log	8	57	Ironwood		Low	10 - 20 feet	Sapling	
						Sugar Maple		Medium	< 5 feet	Seeding	
						Black Cherry		Trace	Variable	Tall Shrub	
86	4119 - Mixed Northern Hardwoods	Sawtimber Poor	2.9	94	1-50	N/A	Poorly-stocked, open grown hardwood stand. Several non-forested areas mixed in, including one in the middle of the stand that may have been planted as a food plot many years ago. Terrain slopes slightly up to the east.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Cherry		1	Pole/Log	8		Beech		Medium	Variable	Sapling	
Quaking Aspen		2	Log	13		Ironwood		Medium	Variable	Sapling	
Balsam Fir		15	Pole/Log	8		Balsam Fir		Low	Variable	Sapling	
Red Maple		13	Log	14							
Basswood		18	Log/XLog	15							
Sugar Maple		51	Log/XLog	15	94						
87	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	2.6	91	141-170	N/A	Lowland stand that has seeps in it which form a drainage that flows down west through stand 100. Some upland along the edges. A few areas of blowdown and lower stocking. Nice, healthy yellow birch component. Trace of red maple. Average ba/acre from 3 plots = 157 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Hemlock		5	Log/Pole	10		Beech		Medium	Variable	Sapling	
Yellow Birch		12	Log/Pole	11		Ironwood		Low	Variable	Sapling	
Basswood		15	Log/Pole	13		Balsam Fir		Low	Variable	Sapling	
Sugar Maple		14	Log/Pole	10							
88	4319 - Mixed Upland Forest	Sapling Poor	1.2	6	Immature	N/A	This stand was formerly a red pine plantation and was clearcut while under private ownership. A few red pine have seeded in to the west half but most of the stand is raspberry, beech, and balsam fir.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		2	Log/Pole	13		Wild Red Raspberry		High	< 5 feet	Tall Shrub	
Red Pine		5	Sapling	1							
Ironwood		5	Sapling	1							
Balsam Fir		39	Sapling	1							
Beech		49	Sapling	1	6						
89	4199 - Other Mixed Upland Deciduous	Sawtimber Poor	2.0	88	1-50	N/A	Poorly-stocked stand of open-grown sugar maple that is filling in with balsam fir and ironwood. The west end has most of the fir component while the east end has a lot of ironwood in the 2-5" DBH range. Average ba/acre from 3 plots = 30 square feet. A lot of sugar maple seedlings are showing up at the ground level but none are taller than 6". The middle part of the stand has a small opening that may have been a food plot at one time.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		3	Pole/Log	8		Ironwood		High	Variable	Sapling	
Black Cherry		1	Log	11		Balsam Fir		Medium	Variable	Sapling	
Balsam Fir		5	Pole	5		Beech		Low	5 - 10 feet	Sapling	
Ironwood		20	Pole/Sapling	5	31	White Pine		Trace	Variable	Sapling	
Quaking Aspen		20	Log/Pole	12							
Sugar Maple		51	Log/XLog	14	88						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
90	6120 - Lowland Cedar	Sawtimber Well	9.9	91	171-200	N/A	Dense, high-quality cedar stand. A few areas of upland along the edges but most of the stand is a wet drainage and goes down to the west/northwest. Some small areas of blowdown are present. Average ba/acre from 6 plots = 180 square feet. Terrain slopes down to the west.																																																										
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91	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sapling Well	17.4	36	51-80	N/A	Strange stand that has a sparse supercanopy of older trees with a dense sapling/pole layer of mostly balsam fir. No evidence of past cutting so I'm guessing the overstory has just slowly died over time and filled in with fir. Ground is nearly a 50/50 mix of upland and lowland with more upland along the eastern edge of the stand. There is also evidence of some wet drainages coming from the uplands to the east and flowing down west to Stewart Creek. The northeast corner of the stand transitions to more of a Q6.																																																										
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92	42330 - Upland Fir	Poletimber Well	5.9	46	81-110	N/A	Dense stand of small diameter fir. Ground is mostly upland except for a few wet drainages that cross through the stand. A few small areas with a lot of fir blowdown. Clump of large cedar and spruce at the north end. Larger hardwoods are more numerous at the south end of the stand. There used to be more of an aspen component in the stand but beavers felled most of them long ago. No evidence of cutting in this stand so I'll assume it's of natural origin. Trace of white pine and green ash. Average ba/acre from 6 plots = 92 square feet.																																																										
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93	42110 - Planted Red Pine	Poletimber Well	7.3	57	201+	N/A	Red pine plantation that wasn't high-graded like nearly every other plantation in this Compartment. Most of the stand has never been thinned or only had a few trees taken out along the edges. As a result there are a lot of suppressed poletimber stems. Average ba/acre from 6 plots = 202 square feet.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
94	4134 - Aspen, Spruce/Fir	Poletimber Well	2.9	49	111-140	N/A	Small stand of aspen that is mostly upland except for two wet drainages that cross through the stand. The first starts in a clump of cedar in the southeast corner and drains to the northwest. The second drainage is at the far north end and drains from east to west. Although rare, a second age class of larger aspen is scattered throughout. Average ba/acre from 5 plot s= 124 square feet. I'm guessing this stand originated following a harvest but we have no sale records for this Compartment to verify.																																																	
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95	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	8.9	106	81-110	N/A	Stand is a mix of upland and lowland with several wet drainages present. One drainage starts in the southwest side of the stand and flows northwest through the stand. This drainage is very wet and currently has flowing water. Most of the dry upland ground is in the southeast portion of the stand and has a small clone of aspen mixed in. The northern finger of the stand has some large cedar. Trace of ironwood in the overstory. Average ba/acre from 7 plots = 89 square feet.																																																	
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96	4319 - Mixed Upland Forest	Sawtimber Well	8.0	63	81-110	N/A	Mixed species stand of moderate quality. A wet drainage with seeps runs east to west through the middle of the stand, joining with stand #80 to the west. The remainder of the stand is mostly upland. Some areas of lower stocking scattered throughout and a small non-forested area at the far northern end. A few areas of fir blowdown. A couple of large diameter (18"+ aspen and red maple). Trace of sugar maple, white pine, yellow birch, and tamarack. Average ba/acre from 7 plots = 99 square feet. Large stick nest in a quaking aspen at the south end, not sure if active.																																																	
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97	310 - Herbaceous Openland	Nonstocked	0.6		Unspecified	No	Small non-forested opening that looks like it was planted as a food plot long ago.																																																	
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98	4110 - Sugar Maple Association	Sawtimber Medium	16.2	94	51-80	N/A	Hardwood stand that was high-graded while under private ownership. Basal areas are low in most areas except for the steeper slopes. Most beech are dead from BBD. Thick beech brush understory throughout most of the stand. Average ba/acre from 6 plots = 68 square feet. Rolling terrain with some steep slopes. An old road, overgrown in many areas, runs north-south along a portion of the eastern edge of the stand.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
99	320 - Upland Shrub	Nonstocked	0.5		Unspecified	No	Small grassy opening. Milkweed present along with quite a bit of raspberry.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Ironwood	Medium	< 5 feet	Seeding	
								Beech	Low	< 5 feet	Seeding	
								Sugar Maple	Trace	>20 feet	Log	
								Balsam Fir	Low	Variable	Sapling	
								Wild Red Raspberry	Medium	< 5 feet	Tall Shrub	
Autumn Olive	Trace	5 - 10 feet	Tall Shrub									
100	4119 - Mixed Northern Hardwoods	Sawtimber Medium	51.0	94	51-80	N/A	Hardwood stand of varying quality due to past management. Many areas of the stand look like they were cut heavily several years ago. More recently, some areas along the south and east edges were high-graded prior to the property being sold to the State. The stand slopes down to the west and site quality is better on the upper slopes. The north running finger of the stand has the highest quality remaining trees and has only been lightly thinned. The far west edge of the stand transitions to more of a red maple/fir/birch type. A large drainage originates from stand 87 and flows northwest into stand 91. There are pockets of cedar in this drainage along with hardwoods. Some merchantable, sawlog-sized black cherry are present. A few non-forested open areas are scattered throughout the stand. Trace of yellow birch, white spruce, balsam poplar, and hemlock. Average ba/acre from 14 plots = 76 square feet.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Paper Birch	1	Log	12	
								Quaking Aspen	2	Log	13	
								Black Cherry	1	Log/Pole	10	
								Balsam Fir	7	Pole/Log	8	
								Ironwood	5	Pole/Sapling	5	
								Beech	2	Log/Pole	12	
								Northern White Cedar	2	Log/Pole	10	
								Basswood	10	Log/Pole	12	
								Red Maple	29	Log/Pole	11	
								Sugar Maple	41	Log/Pole	10	94
								Sub-Canopy Species	Density	Avg. Height	Size	
								Balsam Fir	Medium	Variable	Sapling	
								Beech	Medium	Variable	Sapling	
Ironwood	Medium	Variable	Sapling									
Black Cherry	Low	Variable	Tall Shrub									
101	4110 - Sugar Maple Association	Poletimber Well	20.0	94	51-80	N/A	Moderate quality hardwood stand that has not been completely high-graded like most other hardwood stands in the Compartment. It has been thinned before but not for several years. Best quality can be found along the north edge. Most beech have BBD. Thick understory of beech brush in areas, although not as thick as stand #98 to the south. Trace of balsam fir and yellow birch. Average ba/acre from 8 plots = 75 square feet. A large seep is present on the east side of the stand and drains westward down a small ravine. The drainage west of the seep is mostly dry at this time but obviously very wet during the spring as there is a defined stream channel. The rest of the stand has rolling terrain. An old road runs north-south along the eastern edge of the stand. It crosses the seep and only has a few old PVC pipes to allow for cross-drainage.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Ironwood	3	Pole	5	
								Beech	8	Log/Pole/XLog	12	
								Basswood	25	Log/Pole	12	
								Red Maple	2	Log/Pole	11	
								Sugar Maple	62	Pole/Log	9	94
								Sub-Canopy Species	Density	Avg. Height	Size	
								Beech	Full	Variable	Sapling	
								Ironwood	Low	Variable	Sapling	
								102	429 - Mixed Upland Conifers	Poletimber Medium	5.5	50
Canopy Species	% Cover	Size Class	DBH	Age								
Black Spruce	1	Pole/Sapling	5									
White Pine	1	Log	16									
Red Maple	8	Log	13									
Quaking Aspen	32	Log/Pole	11									
Balsam Fir	58	Pole/Sapling	7	50								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
103	4110 - Sugar Maple Association	Sawtimber Medium	17.7	88	51-80	N/A	Moderate to low quality hardwood stand due to recent high-grading while under private ownership. Most of the quality stems were harvested and everything else was left. Areas of the north half were not cut and still have some quality left, however BAs are still low. Small inclusions of balsam fir and red pine are present in the west half of the stand. Beech understory is very heavy in spots, especially in the east half along the slopes. Average ba/acre from 8 plots = 66 square feet.																																																															
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104	320 - Upland Shrub	Nonstocked	0.5		Unspecified	No	Small grassy opening that was likely used as a landing when surrounding stands were cut. Quite a bit of raspberry along the edges.																																																															
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105	6120 - Lowland Cedar	Poletimber Well	126.0	100	141-170	N/A	Did not visit all areas of this stand but from what I observed this is a high quality and healthy cedar dominated stand. Only a few areas of decline were noted. A few inclusions scattered throughout that are heavier to black spruce. Areas of upland along the edges. Numerous small streams and drainages come from the surrounding uplands and drain into Storey Lake and Stewart Creek. Some areas have a lot of blowdown. Average ba/acre from 13 plots = 150 square feet.																																																															
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106	4319 - Mixed Upland Forest	Poletimber Well	9.2	82	81-110	N/A	Upland island that is primarily dry ground except for along some of the edges. A couple of old blowdown areas that are not very well-stocked. Nice cedar along the edges. Trace of sugar maple, paper birch, and hemlock. Average ba/acre from 6 plots = 90 square feet. The northeast side of the stand is elevated above adjacent stand 105.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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107 42380 - Non Pine Upland Conifer, Mixed Deciduous Poletimber Well 3.8 82 81-110 N/A Upland island but just barely upland, a lot of the ground along the edges is damp. Single red oak clump in the southeast corner. Average ba/acre from 4 plots = 88 square feet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	1	Log	14		Balsam Fir	Medium	Variable	Sapling
White Pine	1	XLog	20					
Basswood	1	Log	12					
Yellow Birch	1	Log/Pole	10					
Quaking Aspen	17	Log/XLog	15					
Red Maple	19	Log/Pole	12					
Balsam Fir	11	Pole	7					
Northern White Cedar	49	Pole/Log	8	82				

108 42390 - Mixed Non-Pine Upland Conifers Sawtimber Well 4.6 62 81-110 N/A Mostly upland stand except for some lowland along the south and east sides. A few massive white pine are present (30"+ DBH). Average ba/acre from 5 plots = 110 square feet. Two small bathrooms and a pavilion are at the north side of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	11	XLog/Log	20		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	24	Log/Pole	10	100	Black Cherry	Trace	Variable	Tall Shrub
Quaking Aspen	7	Log	12					
Paper Birch	9	Log/Pole	11					
Red Maple	5	Log	12					
Black Spruce	4	Pole/Log	8					

109 500 - Water Nonstocked 2.1 Unspecified No Storey Lake

110 429 - Mixed Upland Conifers Poletimber Well 27.2 67 81-110 N/A Mixed species stand sitting on a northwest facing slope that is very steep in most places. White pine displays the best quality. Some areas with a lot of fir blowdown. A few small inclusions that are dominated by hardwoods. Cedar component that is healthy and seems to be growing fine on the upland soils. Most beech has BBD. Some very large, old fire-charred white pine stumps scattered throughout. Trace of black spruce, black cherry, paper birch, yellow birch, and hemlock in the overstory. Average ba/acre from 13 plots = 85 square feet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	2	Log	14		Balsam Fir	Medium	Variable	Sapling
Basswood	1	Log	13		Red Maple	Medium	>20 feet	Sapling
Red Oak	1	Log/Pole	10		Beech	Trace	Variable	Sapling
Quaking Aspen	4	Log/Pole	10					
Bigtooth Aspen	4	Log/XLog	15					
Northern White Cedar	6	Log/Pole	10					
Sugar Maple	5	Log/Pole	10					
Red Maple	21	Pole/Log	8					
Balsam Fir	28	Pole/Log	8	67				
White Pine	28	Log/XLog/Pole	14	63				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
111	4119 - Mixed Northern Hardwoods	Poletimber Well	7.1	86	51-80	N/A	Mostly low quality hardwoods with a lot of balsam fir mixed in. Basswood shows the best growth and quality. Aspen and red maple tend to be along the eastern edge. A couple of large, wofly sugar maple scattered throughout. Trace of American elm. Average ba/acre from 6 plots = 73 square feet. Mostly flat terrain.																																																			
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112	4319 - Mixed Upland Forest	Sawtimber Well	5.5	53	51-80	N/A	Fir/aspen stand of moderate quality. Some areas of low stocking scattered throughout. A few very large aspen, likely from an older age class. The northeast part of the stand is primarily fir and white pine and sits on some moderately steep slopes. Trace of paper birch and black spruce. Average ba/acre from 5 plots = 70 square feet.																																																			
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113	42110 - Planted Red Pine	Sawtimber Medium	29.5	47	81-110	N/A	Red pine plantation that was thinned heavily while under private ownership but not high-graded nearly as badly as nearby plantations. There is still a lot of potential for future growth in this stand. A few localized areas with deformed tops from past porcupine damage. A small area in the middle that wasn't planted originally and now has a clone of aspen (see 98DOQ imagery). Reindeer moss abundant at the ground level in some areas. The east half of the stand has quite a bit of juniper. Trace of red oak. Average ba/acre from 12 plots = 84 square feet. Rolling terrain but no inoperable slopes.																																																			
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114	429 - Mixed Upland Conifers	Sawtimber Well	6.5	66	141-170	N/A	Mixed species stand on a steep side slope. The south end has more aspen and fir with quite a bit of fir blowdown. Areas of pure white pine in the middle of the stand, some almost look planted. A few large, old white pine stumps scattered throughout. Average ba/acre from 6 plots = 143 square feet.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
115	42110 - Planted Red Pine	Poletimber Well	9.0	47	81-110	N/A	Young red pine plantation that was high-graded while under private ownership. However, it was not cut quite as heavily as other red pine stands in the Compartment and still has some potential due to it's young age. There are some areas with numerous deformed crowns, likely from old porcupine damage. A few hardwoods scattered throughout with a clump of younger oak near the north end. Trace of basswood and white pine in the overstory. Average ba/acre from 5 plots = 108 square feet. This stand sits on a ridge-top overlooking lower elevations to the east.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		1	Pole	6		Balsam Fir		Low	Variable	Sapling	
Red Oak		2	Pole/Log	8		Beech		Trace	Variable	Sapling	
Sugar Maple		2	Log/Pole	11		Black Cherry		Trace	Variable	Tall Shrub	
Red Maple		9	Log/Pole	12							
Red Pine		86	Pole/Log	8	47						
116	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	15.0	85	51-80	N/A	Variable stand that is a mix between poorly-stocked areas with only a few scattered trees and clumps of hardwoods. More open areas tend to be in the west half of the stand. Most hardwoods are open grown except for some of the denser clumps. White pine and balsam fir are regenerating well and starting to fill in the gaps. Most beech has BBD. Average ba/acre from 7 plots = 80 square feet. Rolling terrain but no inoperable slopes. Continue to let the white pine fill in and manage when it matures.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		1	Log/XLog/Pole	14		Balsam Fir		High	Variable	Sapling	
Ironwood		1	Pole	5		White Pine		Medium	Variable	Sapling	
Balsam Fir		23	Pole/Log	8							
Red Pine		2	Pole/Log	8							
White Pine		14	Log/Pole	10							
Quaking Aspen		2	Log	11							
Beech		3	Log/XLog	14							
Basswood		11	Log/XLog	13							
Red Maple		7	Log/Pole	11							
117	42110 - Planted Red Pine	Sawtimber Poor	1.9	59	1-50	N/A	Red pine plantation that was heavily high-graded while under private ownership. It looks like there was also quite a bit of mortality on residual stems following the last harvest. Average ba/acre from 3 plots = 27 square feet. Trace of sugar maple and basswood along the west edge. Balsam fir is starting to fill in the west half. Stand sits in a small valley.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		100	Log/Pole	11	59	Balsam Fir		Medium	Variable	Sapling	
						White Spruce		Trace	Variable	Sapling	
						Red Pine		Trace	< 5 feet	Seeding	
						Black Cherry		Trace	Variable	Tall Shrub	
118	42210 - Natural Red Pine	Sapling Medium	3.5	21	Immature	N/A	Small stand sitting on a northwest-facing side-slope that has seeded in naturally to red pine. A few mature red maple are scattered throughout. Age is an estimate from averaging whorl counts of several saplings.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		5	Pole/Sapling	6		Black Cherry		Trace	Variable	Tall Shrub	
Red Maple		9	Log/Pole	12							
White Pine		16	Sapling/Pole	3							
Red Pine		70	Sapling/Pole	3	21						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
119	320 - Upland Shrub	Nonstocked	8.0		Unspecified	No	Non-forested stand sitting on an east-facing slope. Scattered open-grown trees are present. A lot of reindeer moss, and not much grass, is present in the north half of the stand. The south half has more cherry as well as a few clumps of quaking aspen seedlings.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low	>20 feet	Log	
								Sugar Maple	Low	>20 feet	Log	
								Red Oak	Trace	>20 feet	Log	
								Quaking Aspen	Trace	>20 feet	Pole	
								Quaking Aspen	Low	< 5 feet	Seeding	
								White Pine	Trace	Variable	Sapling	
								Red Pine	Trace	Variable	Sapling	
								Black Cherry	Low	Variable	Tall Shrub	
Juniper	Low	< 5 feet	Tall Shrub									
120	330 - Low-Density Trees	Nonstocked	8.8		Unspecified	No	Clumps of open-grown trees mixed in with non-forested openings. White pine is starting to fill in some areas. A lot of juniper in the northeast part of the stand. Reindeer moss is abundant at the ground level in some areas.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low	>20 feet	Log	
								Sugar Maple	Low	>20 feet	Log	
								White Pine	Low	>20 feet	Log	
								Basswood	Trace	>20 feet	Log	
								White Pine	Trace	>20 feet	Pole	
								White Pine	Medium	Variable	Sapling	
								Red Pine	Trace	Variable	Sapling	
								Beech	Trace	Variable	Sapling	
								Balsam Fir	Low	Variable	Sapling	
								Black Cherry	Low	Variable	Tall Shrub	
								Juniper	Low	< 5 feet	Tall Shrub	
Cladonia (Reindeer moss)	Medium	Unspecified	Non-Wood									
121	4319 - Mixed Upland Forest	Poletimber Medium	4.3	84	51-80	N/A	Clumps of trees with areas around the edges that have filled in white pine and balsam fir. The east half in particular has a lot of white pine poletimber and saplings. Trace of red pine. Average ba/acre from 5 plots = 74 plots. Stand will be fully-stocked when the younger age classes mature.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	4	Log	12	
								Basswood	1	Log/XLog	16	
								Quaking Aspen	5	Pole	8	
								Ironwood	2	Pole	5	
								Sugar Maple	6	Log	13	
								White Pine	24	Log/Pole/XLog	13	
								Balsam Fir	24	Pole	7	
								Red Maple	34	Pole/Log	8	84
Sub-Canopy Species	Density	Avg. Height	Size									
Balsam Fir	Medium	Variable	Sapling									
White Pine	Medium	Variable	Sapling									
Black Cherry	Trace	Variable	Tall Shrub									
Serviceberry (Juneberry)	Trace	Variable	Tall Shrub									
Ironwood	Trace	Variable	Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
122	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	6.1	31	1-50	N/A	Semi-open stand that is filling in well to white pine in some areas, particularly the middle of the stand. There are still areas without any regeneration. Nice clump of red oak and basswood in the northeast part of the stand. Continue to let white pine fill in over time.																																																																	
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123	42210 - Natural Red Pine	Sapling Medium	11.6	9	Immature	N/A	This was formerly a fully-stocked red pine plantation but was clearcut while under private ownership. Red pine has naturally seeded in and is moderately well-stocked although there are areas where red pine is lacking. Age estimated using whorl counts.																																																																	
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124	42200 - Natural White Pine	Sapling Poor	3.2	19	1-50	N/A	Scattered overstory hardwoods, filling in to white pine. A couple of log-size white pine along the edges. Average ba/acre from 3 plots = 30 square feet.																																																																	
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125	310 - Herbaceous Openland	Nonstocked	0.7		Unspecified	No																																																																		
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126	4319 - Mixed Upland Forest	Poletimber Medium	4.6	45	51-80	N/A	Moderate to low quality mixed species stand. A few poorly-stocked areas along the edges that are filling in with fir and pine. A second age class of larger, older trees is present. Average ba/acre from 6 plots = 70 square feet. The south half of the stand sits on a moderately steep east facing slope. The rest of the stand slopes gradually down to the north.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																	
127	310 - Herbaceous Openland	Nonstocked	7.7		Unspecified	No	This stand used to be a fully-stocked red pine plantation but was clearcut and converted to a grassy opening. Stumps were pulled and placed into large piles (about 10 of them scattered throughout). A small area at the southeast corner was not stumped and has grown back to beech, cherry, and raspberry.																	
								Sub-Canopy Species	Density	Avg. Height	Size													
								Red Pine	Low	< 5 feet	Sapling													
								Beech	Low	Variable	Sapling													
								Black Cherry	Low	Variable	Tall Shrub													
								Wild Red Raspberry	Low	< 5 feet	Tall Shrub													
Mixed Grasses	Full	Unspecified	Non-Wood																					
128	320 - Upland Shrub	Nonstocked	5.3		Unspecified	No	Nice clumps of juniper scattered throughout. North/northwest end is filling in to white pine. This end of the stand was also used as a landing/decking area during the most recent harvest of the adjacent hardwood stands, some leftover logs remain. Couple of scotch pine saplings at the southwest end. Gently rolling terrain. High elk use at time of inventory. Old feeding structure on the south edge.																	
								Sub-Canopy Species	Density	Avg. Height	Size													
								White Pine	Trace	>20 feet	Log													
								Basswood	Trace	>20 feet	Log													
								Sugar Maple	Trace	>20 feet	Log													
								White Pine	Medium	Variable	Sapling													
								Red Pine	Trace	Variable	Sapling													
								Scotch Pine	Trace	Variable	Sapling													
								Spotted Knapweed	Low	Unspecified	Non-Wood													
								St. Johns Wort	Low	Unspecified	Non-Wood													
Mixed Grasses	High	Unspecified	Non-Wood																					
Juniper	Low	< 5 feet	Tall Shrub																					
129	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	28.5	86	51-80	N/A	Moderate quality hardwood stand that was high-graded several times while under private ownership. 98DOQ imagery shows that it was cut heavy in the '90's and then more recently it was cut before the property was sold to the state. The west half in particular has much lower BAs with a lot of beech and ironwood in the poletimber class which gives the stand a two-aged appearance. There are still a few clumps of decent quality and stocking closer to Fontinalis Road. Trace of white pine in the overstory. Average ba/acre from 9 plots = 72 square feet. Thick regeneration of undesirable species. Rolling terrain but no inoperable slopes.																	
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size								
								Balsam Fir	1	Pole	7		Beech	High	Variable	Sapling								
								American Elm	1	Pole/Log	8		Ironwood	Medium	Variable	Sapling								
								Beech	10	Pole/Log	8		White Ash	High	< 5 feet	Seeding								
								Ironwood	10	Pole/Sapling	5		White Ash	Low	Variable	Sapling								
								Red Maple	3	Log	11		Balsam Fir	Trace	Variable	Sapling								
								Basswood	30	Log	12													
								Sugar Maple	45	Log/Pole	10	86												
								130	4110 - Sugar Maple Association	Sawtimber Poor	4.7	86	1-50	N/A	Poorly-stocked hardwoods on rolling terrain with a few small non-forested areas mixed in. Hardwoods are mostly open-grown stump sprout clumps. Some areas filling in with beech. Trace of balsam fir and quaking aspen in the overstory. Average ba/acre from 5 plots = 32 square feet.									
																Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
																Basswood	2	Log	13		Beech	Medium	Variable	Sapling
White Pine	9	Log/Pole	14		Ironwood	Low	Variable									Sapling								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
131	2113 - Forage Crops	Nonstocked	2.2		Unspecified	Managed Opening	Looks like this was a food plot at one time. Stand is slightly elevated above the adjacent hardwood stands.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Sugar Maple	Trace	>20 feet	Log					
								Red Pine	Trace	< 5 feet	Seeding					
								White Pine	Trace	< 5 feet	Seeding					
								Mixed Grasses	Full	Unspecified	Non-Wood					
St. Johns Wort	Low	Unspecified	Non-Wood													
132	42110 - Planted Red Pine	Poletimber Medium	5.7	66	81-110	N/A	Degraded stand with sporadic stocking from a heavy partial harvest that took place while under private ownership. Most of the best trees were cut and no consideration was made to residual spacing. Classic high-grading. Areas of highest stocking are along the north edge. Trace of white pine and quaking aspen in the overstory. Average ba/acre from 5 plots = 104 square feet. Stand sits on a slight side-slope with the small finger sitting on a ridge-top.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Sugar Maple	1	Log	12		Beech	High	Variable	Sapling
								Red Maple	6	Log/Pole	12		Balsam Fir	Low	Variable	Sapling
								Red Pine	93	Pole/Log	8	66	White Pine	Trace	Variable	Sapling
													Red Pine	Trace	< 5 feet	Seeding
133	42210 - Natural Red Pine	Sapling Poor	1.4	17	1-50	N/A	Naturally seeding in to red pine. Averaged whorl counts from a few different trees to get the age.									
								Canopy Species	% Cover	Size Class	DBH	Age				
								Beech	2	Sapling	1					
								Sugar Maple	5	Log	13					
								Balsam Fir	5	Sapling	2					
								White Pine	13	Pole/Sap/Log	5					
Red Pine	75	Sapling	3	17												
134	310 - Herbaceous Openland	Nonstocked	3.6		Unspecified	No	Stand sits on a ridgetop and steep side-slope overlooking a valley. There is a small bench in the central part of the stand at the top of the ridge. Old charred pine stumps are scattered throughout.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Sugar Maple	Trace	>20 feet	Log					
								Red Maple	Low	>20 feet	Log					
								Quaking Aspen	Trace	>20 feet	Pole					
								White Pine	Medium	Variable	Sapling					
								Red Pine	Trace	< 5 feet	Sapling					
								Balsam Fir	Trace	< 5 feet	Sapling					
Bracken Fern	High	Unspecified	Non-Wood													
135	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.9	76	81-110	N/A	Red maple dominated stand of moderate to good quality. The south half of the stand was cut pretty heavily while under private ownership. The north half was not high-graded like the rest and has some nice stems. Most of the overstory beech has BBD. Thick beech understorey in many places. Average ba/acre from 4 plots = 90 square feet. Stand sits on somewhat of an elevated knob.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Beech	6	Pole/Log	9		Beech	High	5 - 10 feet	Sapling
								Sugar Maple	19	Log/Pole	10		Ironwood	Low	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
136	42110 - Planted Red Pine	Poletimber Poor	18.2	62	51-80	N/A	Severely degraded stand, probably the worst example of high-grading on the Storey Lake property. Stand was harvested while under private ownership taking all of the best trees and not caring about residual stocking. Residual BAs are very erratic, ranging anywhere from 0 to 130 square feet. In many instances it looks like very little was utilized from the trees as there are numerous cut stems laying on the ground throughout the stand. I'm guessing they were just going for the sawtimber and didn't care about the rest. There has also been a lot of blowdown and mortality due to the degree to which this stand was opened up. A large pocket of this blowdown is at the west end where balsam fir is filling in well. The beech understory component is mostly at the far east end. Average ba/acre from 14 plots = 70 square feet.																																																					
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137	4319 - Mixed Upland Forest	Sawtimber Poor	7.0	76	1-50	N/A	Sparse overstory of primarily white pine and red maple, filling in well with white pine regeneration in many areas. A few small strips of planted red pine are present. Non-forested open areas are mixed in throughout (primarily bracken fern, wintergreen, and cladonia). Steep slope along the NE side that has some nice mixed pine poletimber. Remainder of the stand is on rolling terrain. Average ba/acre from 8 plots = 50 square feet.																																																					
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138	42110 - Planted Red Pine	Poletimber Medium	17.9	50	81-110	N/A	Oddly shaped red pine plantation that resembles a stick figure. The northern "head" of the stand is on flat ground but sits on a ridge-top above the rest of the stand. The western "arm" is on a side-slope and ridge-top and has a small inclusion of white pine, fir, and red maple. The eastern "arm" sits in a narrow valley. The southern "legs" of the stand are on a gentle side-slope that is mostly flat. Most of the stand was thinned while under private ownership but was not high-graded nearly as badly as surrounding stands, although areas of flat ground, like at the south end, were thinned more heavily than others. Trace of white pine and balsam fir in the overstory. Average ba/acre from 15 plots = 83 square feet.																																																					
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139	330 - Low-Density Trees	Nonstocked	3.5		Unspecified	No	Stand sits on a side-slope with steep slopes in the west half. Far northwest corner is a ridgetop and provides a nice view of the surrounding area. Clumps of trees more common in the central part of the stand where white pine regeneration is starting to fill in. Not much grass, mostly just bracken, wintergreen, and cladonia at the ground level. Prevalence of cladonia indicates this may be a nutrient poor site. Old charred white pine stumps can be found throughout.																																																					
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140	4117 - Mixed N. Hardwood - Pine	Sawtimber Medium	6.8	69	51-80	N/A	Lower overstory basal area of maple and white pine that is filling in with pine regeneration. Stand somewhat resembles an old shelterwood harvest. The far west end is much more open and doesn't have much regeneration. The north side of the stand is on a slight ridge-line. Average ba/acre from 6 plots = 60 square feet. Continue to let the pine fill in and then manage when the regeneration is mature.																																																																		
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141	330 - Low-Density Trees	Nonstocked	1.7		Unspecified	No	Stand sits on a side-slope with some steep slopes. Clumps of trees more common in the north half. Not much grass, mostly just bracken, wintergreen, and cladonia at the ground level. Prevalence of cladonia indicates this may be a nutrient poor site.																																																																		
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142	2113 - Forage Crops	Nonstocked	0.7		Unspecified	No	It looks like this was a food plot while under private ownership.																																																																		
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143	4319 - Mixed Upland Forest	Poletimber Well	7.7	67	81-110	N/A	Stand is a mixed bag of everything. The west half has a valley with some steep side walls and is where most of the hardwoods (SM/BW/RO) are located as well as a small clone of aspen. The east half sits on a moderately steep north facing slope and has more of the white pine and red maple. Balsam fir is uniform throughout the entire stand. Trace of red pine. Average ba/acre from 7 plots = 93 square feet.																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
144	42200 - Natural White Pine	Sapling Poor	2.6	21	Immature	N/A	The middle of the stand occupies a valley with steep slopes leading up the east and west sides. Barely forested but there is some mixed conifer regeneration starting to fill in along the edges. Lots of reindeer moss at the ground level.																																																					
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145	4319 - Mixed Upland Forest	Sawtimber Poor	3.3	84	51-80	N/A	Sparse overstory of hardwoods that is filling in well to white pine in many areas. However there are still areas lacking any regeneration. Average ba/acre from 5 plots = 60 square feet. The stand sits on a steep west facing slope.																																																					
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146	4319 - Mixed Upland Forest	Sawtimber Well	9.7	70	51-80	N/A	Mixed species stand sitting on a moderately steep northwest facing slope. White pine shows the best quality although there are several weevil-damaged stems. Aspen is mostly at the northeast corner of the stand. Some upland cedar along the north edge. Average ba/acre from 7 plots = 73 square feet. No management due to the slopes.																																																					
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147	4319 - Mixed Upland Forest	Poletimber Medium	3.7	52	51-80	N/A	Poor quality stand with a mix of small non-forested openings and clumps of trees. Hardwoods are low quality and most have multiple stump sprouts. Most beech has BBD. Average ba/acre from 4 plots = 68 square feet.																																																					
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148	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.9	84	51-80	N/A	Mixed hardwood stand sitting on steep north-facing slopes. There is also a small ravine on the east side of the stand. Red maple is more common at mid and lower slopes while sugar maple is more common on the upper slopes. Most beech has BBD, some are already dead. Heavy beech understory except at the north end where the stand transitions to the swamp. Trace of hemlock along the northern edge. A few larger, older maple stems are present. Average ba/acre from 6 plots = 80 square feet. No management due to the steep slopes.																																																					
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149	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	9.0	86	1-50	N/A	Poor quality, poorly-stocked stand. Most hardwoods are stump sprouts. Portions of the stand were high-graded while under private ownership. Scattered non-forested openings mixed in throughout. Heavy beech understory in many parts of the stand. Average ba/acre from 6 plots = 28 square feet.																																																		
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150	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	14.9	91	51-80	N/A	Moderate quality hardwood stand with low basal areas. It looks like most of this stand was thinned heavily many years ago, the resulting regeneration is primarily beech and is thick in many areas. More recently, the center part of the stand on the east side of the road was high-graded heavily, leaving only some poor quality poletimber. There is a small clump on the west side of the road (less than 1 acre) that doesn't look like it has been thinned before. Some areas along the edge of stand 124 that have nice white pine regeneration. Gently rolling terrain. Average ba/acre from 9 plots = 58 square feet.																																																		
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151	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	20.0	77	51-80	N/A	Mostly poor-quality hardwood stand that was high-graded while under private ownership. A lot of the trees are multi-stemmed stump sprouts. Sugar maple and beech are more numerous in the east half of the stand where slopes increase. Some of the slopes in this area are steep and inoperable. Most of the beech has BBD. Red maple and balsam fir are more numerous in the west half of the stand on the lower slopes. Very heavy beech understory in most of the stand except for a few non-forested openings. Trace of cedar, hemlock, and yellow birch, all along the west edge where the stand transitions down to lowland. Average ba/acre from 9 plots = 54 square feet.																																																		
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152	42200 - Natural White Pine	Sawtimber Well	2.6	66	81-110	N/A	Nice stand of white pine with some large open-grown hardwoods along the edges. No indications that this has been harvested before. Average ba/acre from 4 plots = 95 square feet.																																																		
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153	42110 - Planted Red Pine	Poletimber Medium	45.5	68	51-80	N/A	Sporadic stocking from a heavy partial harvest that took place while under private ownership. Most of the largest red pine trees were cut and no consideration was made to residual spacing. Typical high-grading. Some scattered pockets of red pine mortality. The beech understory and overstory hardwoods, which are mostly red maple, pick up as you move north in the stand. Red pine has seeded in well in some localized areas. Trace of beech, red oak, black cherry, and ironwood in the overstory. Average ba/acre from 17 plots = 68 square feet. Rolling terrain but no steep slopes.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
154	310 - Herbaceous Openland	Nonstocked	3.6		Unspecified	No	Several piles of basswood that were not hauled out when the adjacent hardwood stand was thinned while under private ownership.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	Trace	>20 feet	Log	
								White Pine	Trace	>20 feet	Log	
								Red Pine	Trace	Variable	Sapling	
								White Pine	Trace	Variable	Sapling	
								Black Cherry	Trace	Variable	Tall Shrub	
								Wild Red Raspberry	Medium	5 - 10 feet	Tall Shrub	
Bristly Blackberry	Low	< 5 feet	Tall Shrub									
155	4110 - Sugar Maple Association	Poletimber Well	18.2	104	81-110	N/A	Moderate to high quality hardwoods that were only lightly thinned and not high-graded like most of the other hardwood stands on the Storey Lake property. BAs are lighter at the south end which is where most of the beech is located although most of it is dead from BBD. There used to be a lot of white ash at the NW end but most of that was either salvaged or has fallen on the ground. Many areas with a dense understory of beech and ironwood. Trace of red oak and elm. There are some steep slopes in the northeast portion of the stand that are inoperable. Average ba/acre from 9 plots = 83 square feet. Ground was covered with snow at time of inventory but there appears to be some sort of invasive grass in many areas of the stand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	2	Pole/Log	9	
								Ironwood	4	Pole	6	
								Beech	4	Log/Pole	11	
								Sugar Maple	66	Pole/Log	9	104
Sub-Canopy Species	Density	Avg. Height	Size									
Ironwood	High	Variable	Sapling									
Beech	Medium	Variable	Sapling									
156	310 - Herbaceous Openland	Nonstocked	1.0		Unspecified	No	Heavily disturbed site, possibly an old gas well? Numerous basswood logs lying around from the adjacent hardwood stand that was thinned while under private ownership.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Mixed Grasses	Medium	Unspecified	Non-Wood	
Spotted Knapweed	High	Unspecified	Non-Wood									
157	4112 - Maple, Beech, Cherry Association	Sapling Medium	2.2	42	1-50	N/A	Must have been cut heavy at one time as there is only a small amount of overstory trees. Regeneration entirely beech, ironwood, or striped maple, no desirable species present. Most of the merchantable beech have BBD, many of the saplings are also showing signs of infection. Rolling terrain.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	1	Log	14	
								Basswood	4	Log	12	
								Sugar Maple	10	Log/Pole	12	
								Ironwood	15	Pole/Sapling	5	
Sub-Canopy Species	Density	Avg. Height	Size									
Beech	Full	Variable	Sapling									
Ironwood	Low	Variable	Sapling									
Striped Maple	Trace	>20 feet	Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
158	320 - Upland Shrub	Nonstocked	2.5		Unspecified	No	An old road used for hauling is along the west edge.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Low	Variable	Sapling	
								White Pine	Trace	>20 feet	Log	
								Sugar Maple	Low	>20 feet	Log	
								Red Pine	Trace	>20 feet	Pole	
								Black Cherry	Low	Variable	Tall Shrub	
								Autumn Olive	Trace	5 - 10 feet	Tall Shrub	
Wild Red Raspberry	Low	< 5 feet	Tall Shrub									
159	320 - Upland Shrub	Nonstocked	0.6		Unspecified	No	Small area that looks like it was used as a landing and decking area when the surrounding hardwood stand was cut. Raspberry starting to fill in.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Beech	Trace	< 5 feet	Seeding	
								Ironwood	Trace	< 5 feet	Seeding	
								Sugar Maple	Trace	>20 feet	Log	
								Wild Red Raspberry	Medium	< 5 feet	Tall Shrub	
Mixed Grasses	Full	Unspecified	Non-Wood									
160	4110 - Sugar Maple Association	Sawtimber Well	8.3	104	81-110	N/A	Moderate to high quality hardwoods that were only lightly thinned and not high-graded like most of the other hardwood stands on the Storey Lake property. The east half of the stand is heavier to sawtimber while the west half transitions to mostly poletimber. Trace of elm. Some areas with a heavy understory of beech and ironwood. Rolling terrain but no slopes that are inoperable. Average ba/acre from 6 plots = 85 square feet.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Beech	4	Log	12	
								Ironwood	5	Pole	6	
								Basswood	20	Log/Pole	11	
								Sugar Maple	71	Log/Pole	10	104
								Sub-Canopy Species	Density	Avg. Height	Size	
								Ironwood	High	Variable	Sapling	
								Beech	Medium	Variable	Sapling	
								161	320 - Upland Shrub	Nonstocked	0.3	
Sub-Canopy Species	Density	Avg. Height	Size									
American Crab Tree	Medium	< 5 feet	Tall Shrub									
Bracken Fern	High	Unspecified	Non-Wood									
Spotted Knapweed	Medium	Unspecified	Non-Wood									
162	42110 - Planted Red Pine	Sawtimber Medium	16.6	59	51-80	N/A	Red pine plantation that was cut heavily while under private ownership. Despite the basal area being low there is still some quality left to work with here. Average ba/acre from 8 plots = 56 square feet. Trace of red oak, sugar maple, white pine, and quaking aspen in the overstory. Rolling terrain. Hold one entry before considering a restart.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	8	Log/Pole	11	
								Red Pine	92	Log/Pole	11	59
								Sub-Canopy Species	Density	Avg. Height	Size	
								Balsam Fir	Low	Variable	Sapling	
								Beech	Low	Variable	Sapling	
Red Pine	Trace	< 5 feet	Seeding									
Quaking Aspen	Trace	< 5 feet	Seeding									



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163	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	2.6	12	1-50	N/A	Clump of quaking aspen regen in the north half, the remainder is a mix of pine, including quite a bit of scotch pine. A couple of larger log-sized white pine are present.																																																																														
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164	310 - Herbaceous Openland	Nonstocked	0.9		Unspecified	No	Signs of an old borrow pit and other disturbance along the part of the stand near the road edge. Lots of knapweed in this area as well.																																																																														
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165	4130 - Aspen	Poletimber Medium	6.2	48	51-80	N/A	Stand ranges from quaking aspen/fir in the north half, to bigtooth aspen along the west edge, to a mix of hardwood species in the southern end. Portions of the southern end are more of a black cherry/ironwood mix without much aspen. Scattered open areas that are more of a U type are present throughout. Steep slope along the northeast edge is mostly conifer regen without any aspen. Trace of white pine in the overstory. Average ba/acre from 7 plots = 51 square feet.																																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
167	42110 - Planted Red Pine	Poletimber Well	31.5	65	81-110	N/A	This stand was cut while under private ownership but wasn't high-graded nearly as badly as some of the adjacent stands. Stocking is somewhat sporadic but there is still some potential for this stand to grow and increase in value for several more entries. Beech regen is becoming heavy in many areas. Residual hardwoods are mostly low quality but there are a few nice sawlog stems here and there. Northeast corner of the stand has a small inclusion of white pine. Trace of basswood, bigtooth aspen, white pine, beech, and ironwood in the overstory. Average ba/acre from 9 plots = 90 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		4	Pole/Log	9		Beech		High	5 - 10 feet	Sapling	
Red Maple		10	Log/Pole	10		Ironwood		Low	< 5 feet	Seeding	
Red Pine		86	Pole/Log	9	65	Red Pine		Low	< 5 feet	Seeding	
168	4199 - Other Mixed Upland Deciduous	Sawtimber Well	1.6	96	81-110	N/A	Mostly red maple stump sprouts in the east half transitioning to fir and aspen in the west half. One clump of large ironwood. Average ba/acre from 2 plots = 85 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		18	Pole/Log	8		Balsam Fir		Medium	Variable	Sapling	
Ironwood		2	Pole/Log	8		Black Cherry		Low	Variable	Tall Shrub	
Sugar Maple		6	Log/Pole	12							
Quaking Aspen		25	Log/Pole	13							
Red Maple		49	Log/Pole	13	96						
169	42110 - Planted Red Pine	Poletimber Medium	25.9	65	51-80	N/A	Sporadic stocking from a heavy partial harvest/high-grading that took place while under private ownership. Most of the best trees were cut and no consideration was made to residual spacing. Some areas of stem snap and blowdown due to the lower BA. Beech regen is becoming heavy, especially east of the road. Trace of basswood, sugar maple, red oak, white pine, and merchantable black cherry. Average ba/acre from 8 plots = 73 square feet. Terrain is flat.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		13	Log/Pole	10		Beech		Medium	5 - 10 feet	Sapling	
Red Pine		87	Pole/Log	9	65	Red Pine		Low	< 5 feet	Seeding	
						Ironwood		Trace	< 5 feet	Seeding	
						White Pine		Trace	< 5 feet	Seeding	
170	42110 - Planted Red Pine	Sawtimber Medium	14.3	71	81-110	N/A	Sporadic stocking from a heavy partial harvest/high-grading that took place while under private ownership with BAs ranging anywhere from 40 to 180. Most of the best trees were cut and no consideration was made to residual spacing. The south end of the stand has higher BAs and is heavier to poletimber but transitions to lower BAs and more sawtimber as you head north. Areas of stem snap and blowdown, most prevalent at the southwest corner of the stand. Beech regen is heavy throughout and the ironwood component increases further to the north. Trace of basswood. Average ba/acre from 7 plots = 84 square feet. Terrain is mostly flat.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		2	Pole/Log	9		Beech		High	5 - 10 feet	Sapling	
Red Maple		5	Log/Pole	11		Ironwood		Medium	5 - 10 feet	Sapling	
Red Pine		93	Log/Pole	11	71	Red Maple		Low	< 5 feet	Seeding	
						White Pine		Trace	Variable	Sapling	
						Wild Red Raspberry		Low	< 5 feet	Tall Shrub	
171	42110 - Planted Red Pine	Sawtimber Well	3.7	71	81-110	N/A	This stand was thinned while under private ownership but not high-graded like adjacent stands. Basal areas are higher closer to the road. Trace of basswood. Average ba/acre from 4 plots = 98 square feet.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		1	Pole/Log	8		Beech		High	5 - 10 feet	Sapling	
White Pine		1	Pole	6		Red Maple		Medium	< 5 feet	Seeding	
Red Maple		5	Log/Pole	10							
Red Pine		93	Log/Pole	11	71						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
172	310 - Herbaceous Openland	Nonstocked	1.1		Unspecified	No	Formerly a dry oil/gas well, plugged in 2014. Storey Lake B4-12, Muskegon Development.																																																
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173	4110 - Sugar Maple Association	Poletimber Medium	401.9	88	51-80	N/A	Large hardwood stand that was heavily cut while under private ownership. The harvest was mostly a high-grading, taking most of the sawtimber and leaving all of the poletimber regardless of quality. Despite the high-grading there is still a lot of potential on many of the sugar maple poletimber stems. Quality tends to decrease slightly in the north half of the stand, with more beech and ironwood present. Regeneration following the harvest has been exclusively beech, ironwood, white ash, and raspberry, with beech brush thick in many areas. Average ba/acre from 22 plots = 64 square feet per acre. Rolling terrain with some steep slopes. At the current basal area, management won't be possible for at least 20 years.																																																
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174	4319 - Mixed Upland Forest	Sawtimber Medium	3.2	66	51-80	N/A	Sparse stocking in some areas due to old blowdown. A few large aspen. Stand slopes gradually down to the east. Trace of cedar. Average ba/acre from 2 plots = 70 square feet.																																																
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175	310 - Herbaceous Openland	Nonstocked	1.3		Unspecified	No	Small grassy area that has not filled in with many trees yet. Reindeer moss is abundant in areas.																																																
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177	4319 - Mixed Upland Forest	Sawtimber Medium	2.6	71	51-80	N/A	Mostly upland stand except for a wet drainage through the middle and some wet areas along the edges. Not well-stocked in all places as there are some areas of blowdown. 29" DBH quaking aspen at the southeast side of the stand. Trace of yellow birch and paper birch. Average ba/acre from 3 plots = 73 square feet.																																																
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178	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	10.9	74	51-80	N/A	SMALLER ACREAGE, MIXED NORTHERN HARDWOOD STAND, ADJACENT TO I-75 AND RR GRADE. LOWER STOCKED PRESENTLY. BA IS ABOUT 70 SQ. FT. PRESENTLY.																																														
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179	6130 - Fir, Aspen, Maple	Poletimber Medium	47.4	83	51-80	N/A	MIXED SWAMP CONIFERS/ASPEN ON A SITE TOO WET TO HARVEST. ADJACENT TO I-75 AND RR GRADE. PRESENT BA IS ABOUT 60 SQ. FT.																																														
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180	6112 - Lowland Aspen	Poletimber Medium	14.9	74	51-80	N/A	LOWER-STOCKED, WET STAND OF MOSTLY OVER-MATURE MIXED ASPEN WITH SCATTERED BALSAM FIR AND CEDAR, ADJACENT TO I-75 AND RR GRADE. BA IS ABOUT 50 SQ. FT. TOO WET TO HARVEST.																																														
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Black Ash	Medium	5 - 10 feet	Sapling																																																		
Red Osier Dogwood	Low	< 5 feet	Tall Shrub																																																		
Tag Alder	Low	5 - 10 feet	Tall Shrub																																																		
181	330 - Low-Density Trees	Nonstocked	4.7	184	Unspecified	No	SCATTERED BLACK CHERRY SAPS AND SMALL POLETIMBER, WITH A COUPLE CLONES OF BIG-TOOTHED AND QUAKING ASPEN, AND SEVERAL CLUMPS OF BALSAM FIR SAPS/POLES. SCATTERED JUNIPER SHRUBS PRESENT ALSO. ADJACENT TO I-75 AND RR GRADE. LEAVE UN-TREATED AT THIS TIME.																																														
182	310 - Herbaceous Openland	Nonstocked	5.5	0	Unspecified	No	I75 cleared ROW																																														