



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63063

Entry Year 2028

Acreage: 3,157

County: Wexford

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Joel Taylor

Legal Description:

T23N R12W, Section: 6, 7, 18T24N R12W, Section: 16, 17, 19, 20, 21, 28, 29, 31, 32

Identified Planning Goals:

Vegetative management in the Kalkaska Sandy Moraines management area (MA) will produce various forest products; maintain or enhance biodiversity conservation and wildlife habitat; protect areas of unique character and threatened, endangered and special concern species; provide for forest-based recreational uses; and Native American non-commercial use of forest products. Timber management for this 10-year planning period includes improving the age-class structure of red pine, conversion of pine plantations to northern hardwoods and continued selection harvesting in high-quality northern hardwoods to achieve an all-age structure. Wildlife management objectives include increasing the structural complexity of northern hardwood communities for interior forest species and perpetuating early-successional communities for species adapted to young forests. Expected trends within this 10-year planning period are forest health issues, particularly beech bark disease and potential for beech leaf disease, deer browse impacting northern hardwood regeneration, and an increase in recreational trail use.

Soil and topography:

Kalkaska-Rubicon Association; primarily Kalkaska sands. Topography consists of rolling uplands with some steep slopes.

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

Relatively solid block of State land intermixed with various private ownership. Primarily seasonal homes with some full time residences.

Unique Natural Features:

The Michigan Natural Features Inventory lists the Bigmouth shiner, wood turtle, bald eagle, and red-shouldered hawk as having occurred in the compartment. The compartment has the potential for goshawk, red-shouldered hawk, and the eastern box turtle.

Archeological, Historical, and Cultural Features:

In west end of Stand 86- old foundation of Union School District # 8 (1903-1914) remains with commemorative sign off 14rd.

Special Management Designations or Considerations:

M-115 bisects the compartment. A State-operated roadside park is situated on the north side of M-115 on the eastern side of the compartment. High voltage powerlines bisect the southern portion of the compartment.

Watershed and Fisheries Considerations:

There are no watershed or fisheries considerations for Compartment 63.

Wildlife Habitat Considerations:

Priority wildlife species are marten, black-throated blue warbler, deer, turkey and grouse. Management emphasis for the former two species will include managing large, contiguous tracts of mature stands, maintenance of vertical stand structure by promoting uneven-aged management and a well-developed shrub layer, increasing coarse woody debris, and retention of large diameter trees. Management for the latter three species will include maintaining openings complexes, oak regeneration, and balancing aspen age classes. Timber sale specifications for these featured species (where applicable) will include protection of mast bearing shrubs and ironwood, protection of standing dead snags, creation of drumming logs (1-2 per acre) and woody debris (tops or whole trees) in aspen cuts. (Victory, 5/24/16)

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial production of metallic minerals in this part of the state. Multiple active sand/gravel operations occur within one mile southeast of the compartment, and there may be potential for additional sand and gravel within the compartment. The compartment occurs on the southern margin of the Silurian reef trend, and some minor production has occurred in the north end. Potential for additional reef discoveries beneath the compartment is likely

relatively low. There is no active leasing involving State-owned oil & gas rights in the area, and there has been no recent well permit activity in the vicinity.

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for abandonment. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

Survey Needs:

Low. State land is mostly surveyed with corners present.

Recreational Facilities and Opportunities:

A section of the Betsie Valley Rail Trail cuts across the southern part of this compartment. This old rail grade is a designated snowmobile and non-motorized trail.

Fire Protection:

This area is predominantly hardwoods, with numerous red pine plantations within the compartment. There is the potential for moderate to large fire growth, due to the terrain. The area would have good access for suppression equipment; however there are some areas that are very steep, which may hinder suppression equipment. Remote camping in summer and fall hunting season may add to the chance of having a remote wildfire start.

Additional Compartment Information:

Generally, red pine stands exist where old fields failed to seed in naturally. Potential for degraded soils on these sites.

The following reports from the Inventory are attached:

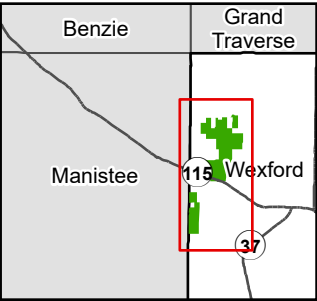
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

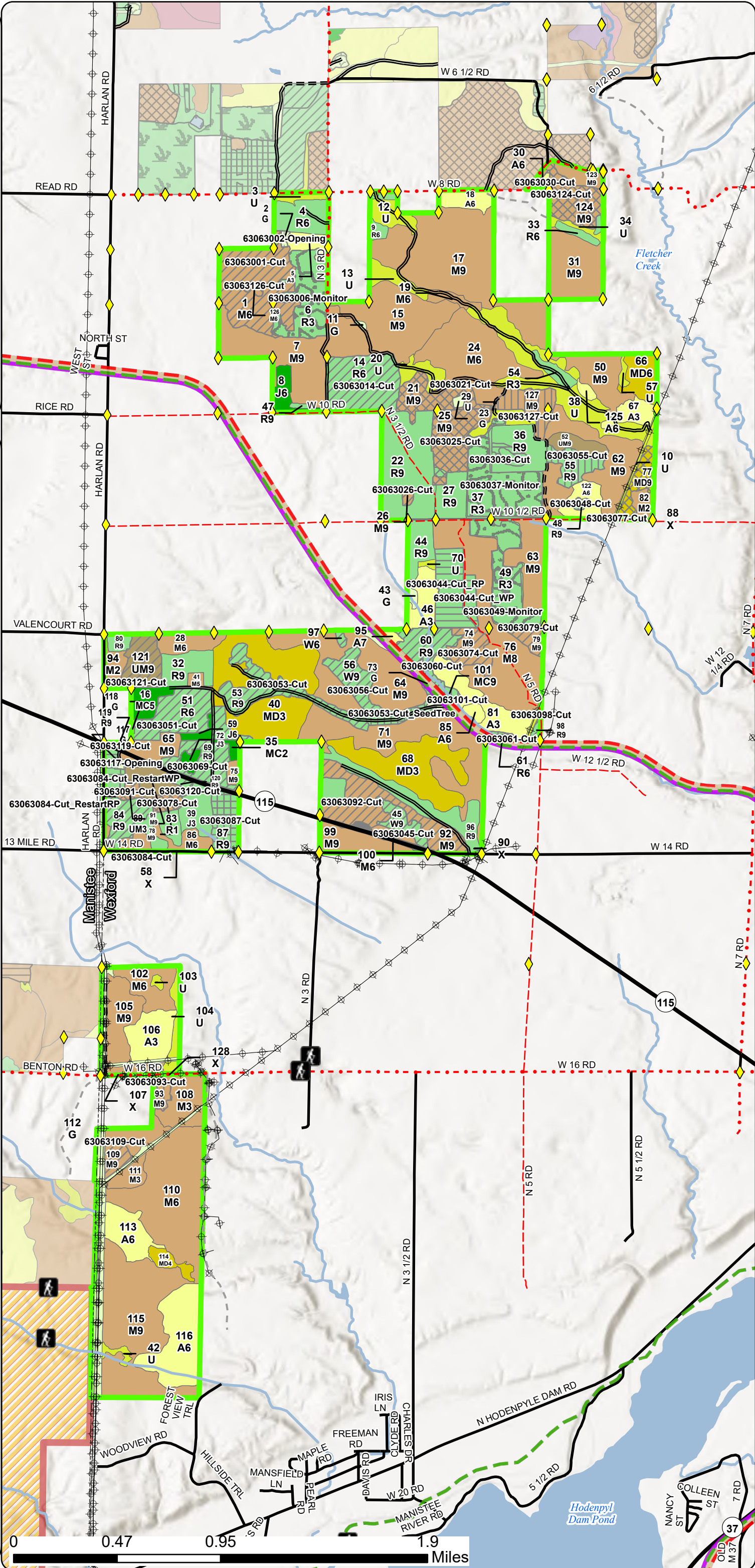
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 63063
T24N, R11W,
Sec. 10, 11, 14, 15, 22, 23
County: Wexford
Unit: Cadillac
Mgmt. Area: Kalkaska Sandy Moraines
YOE: 2028
Acres: 3,157.17 GIS Calculated
Examiner: Joel Taylor
Date Exported: 07/17/2026
Map Phase: Web Post

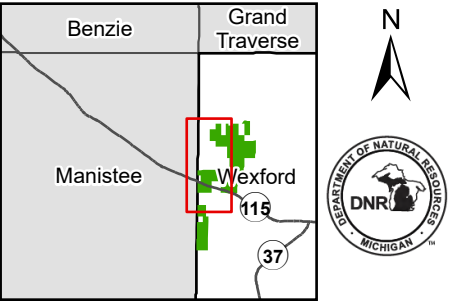


- Survey Grade Corners
- Designated Hiking Pathway
- Designated Bicycle Trails
- Designated Snowmobile
- Railtrail
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Electric
- Compartment Boundary
- Clearcut
- Selection
- Seed Tree
- Shelterwood
- Thinning
- Other Harvest - See Comments
- Openings Mgmt.
- Monitoring - Regeneration
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees

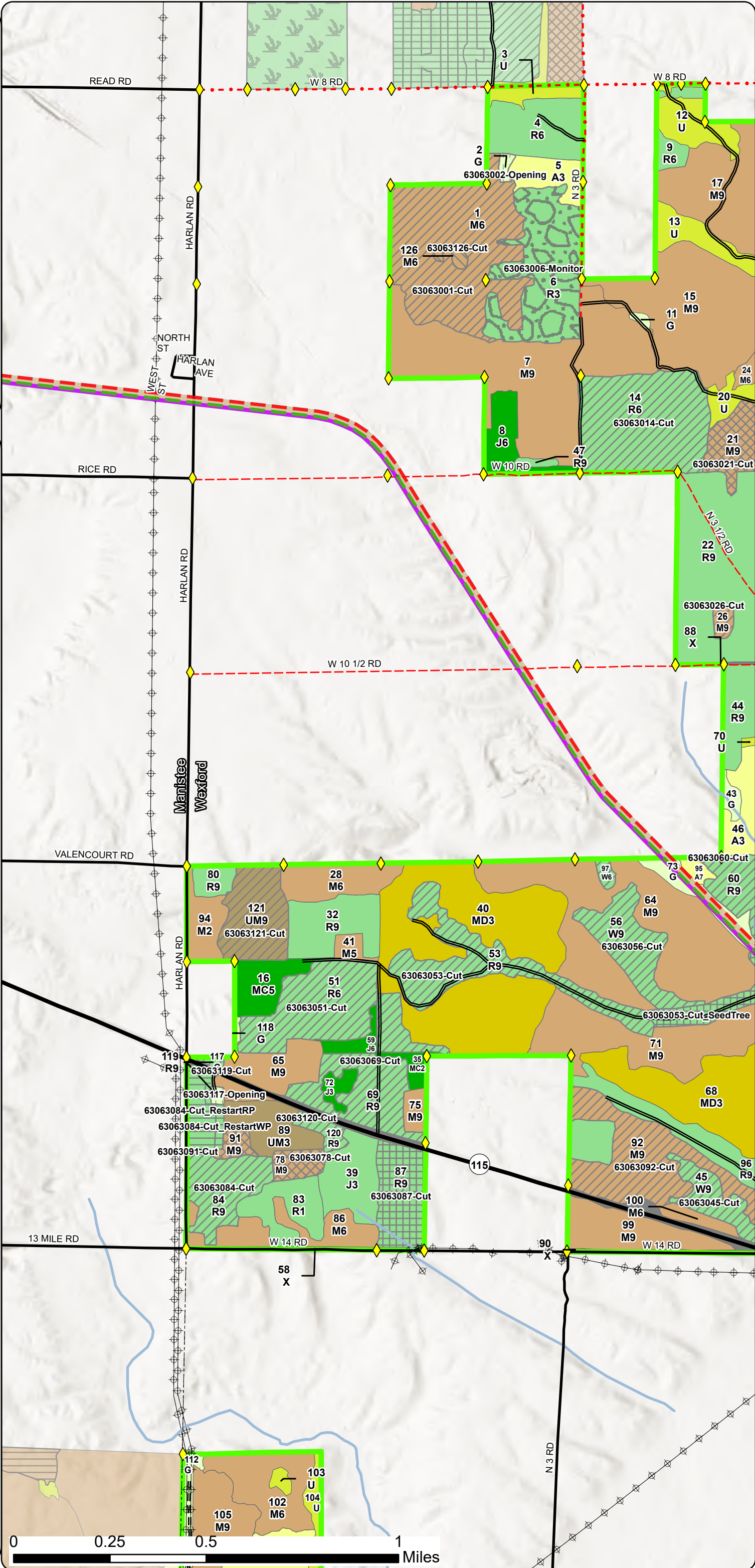


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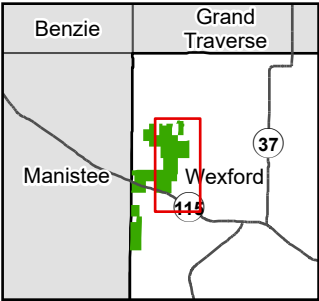


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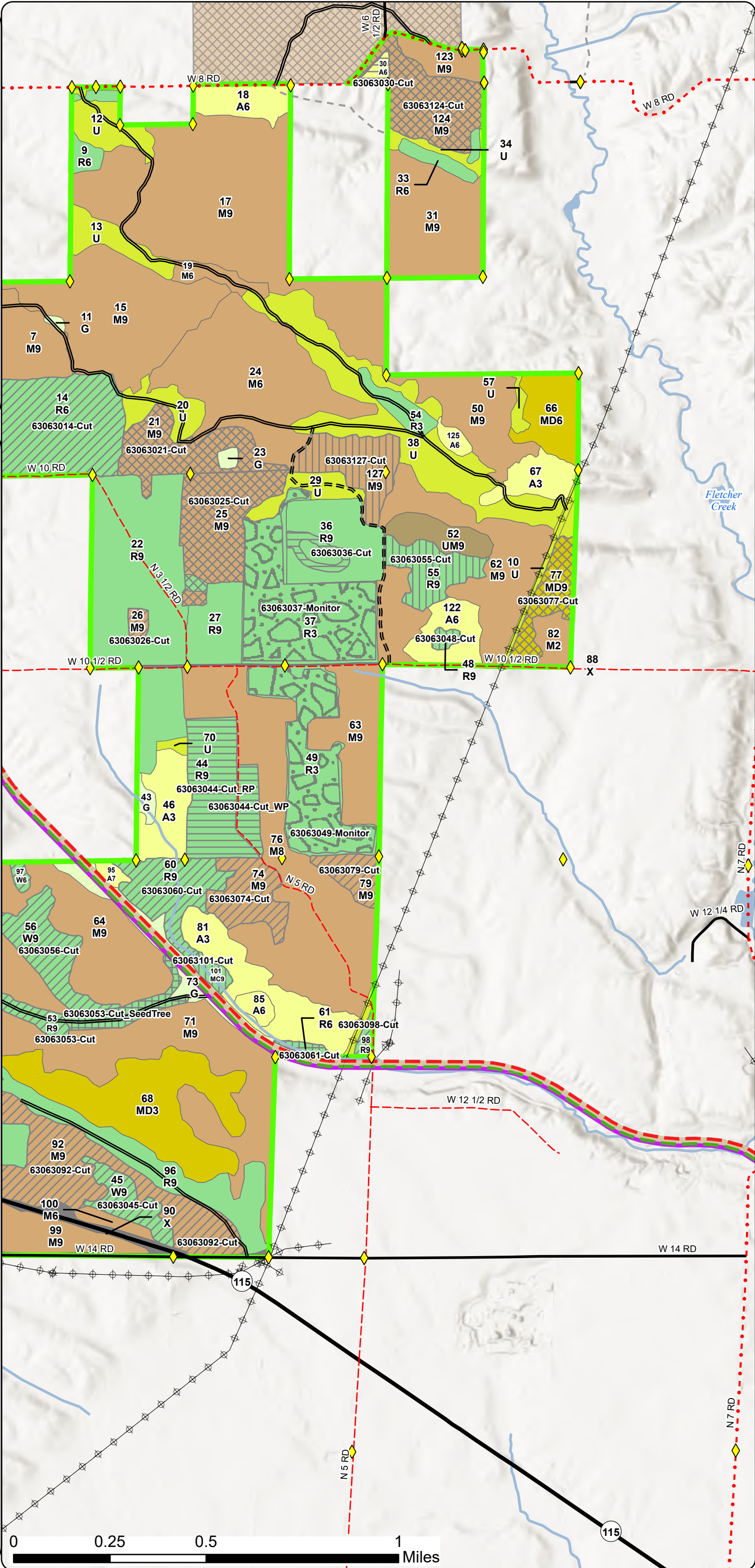


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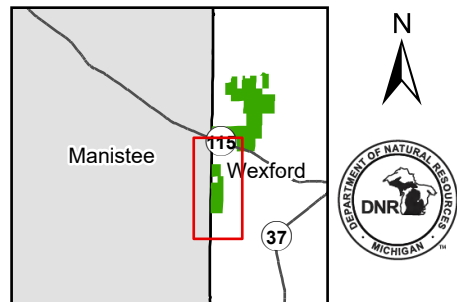
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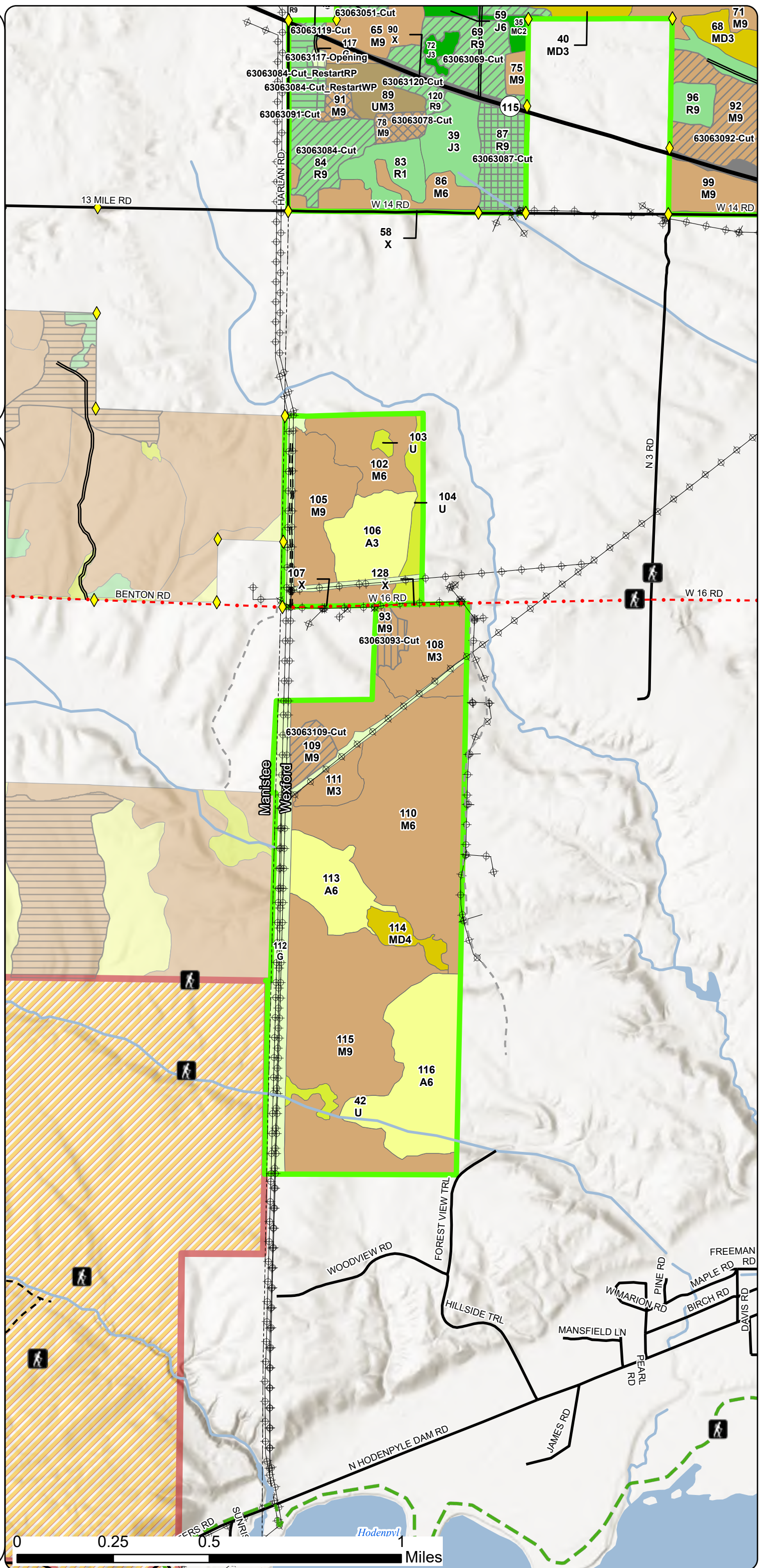
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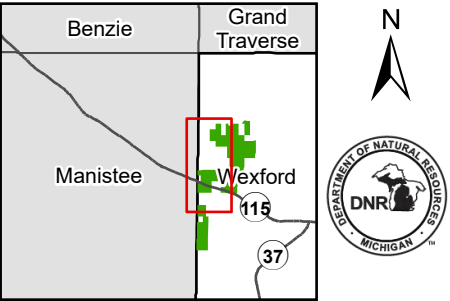


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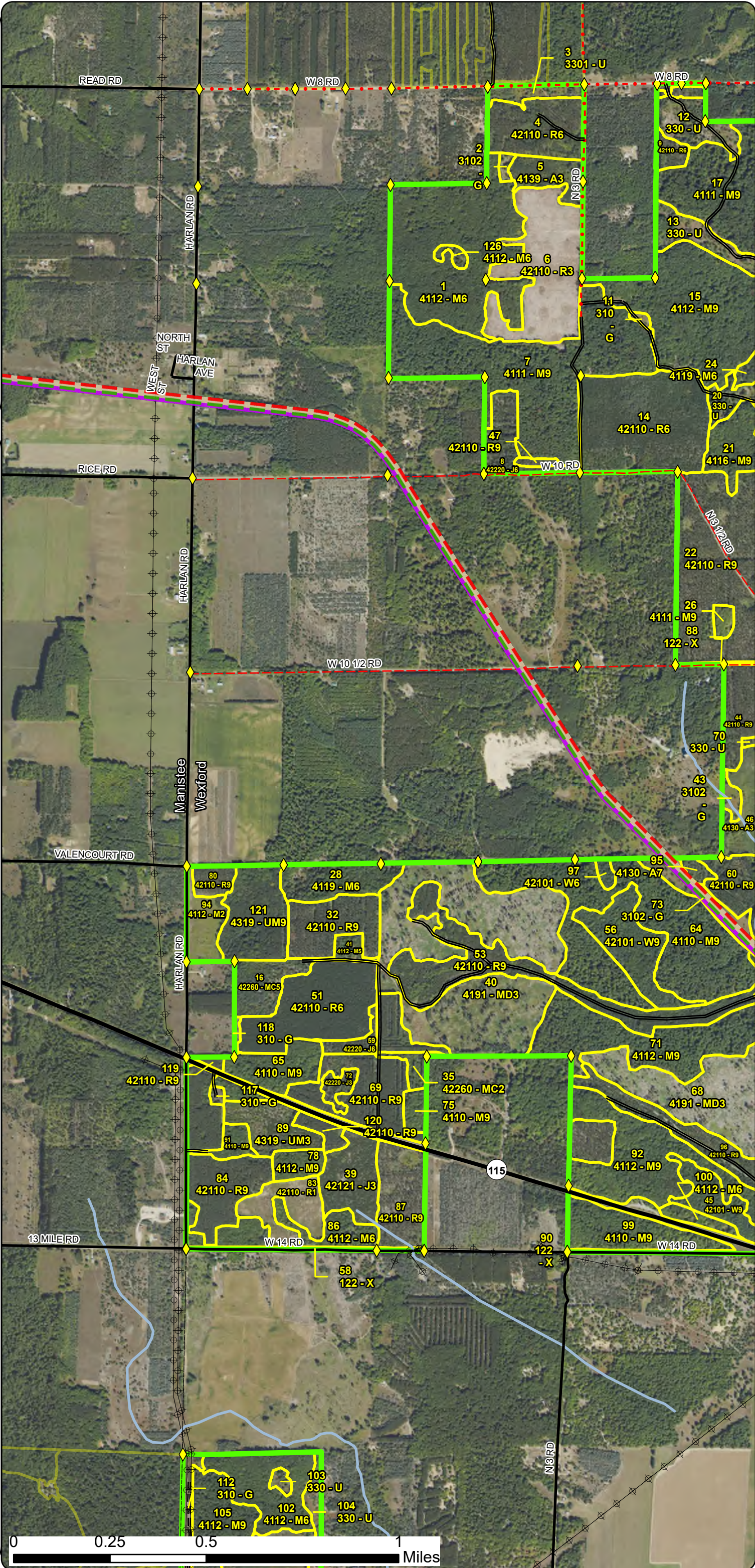


Stand Boundary
Map

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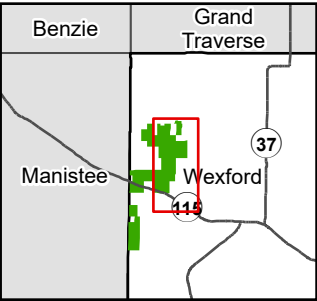


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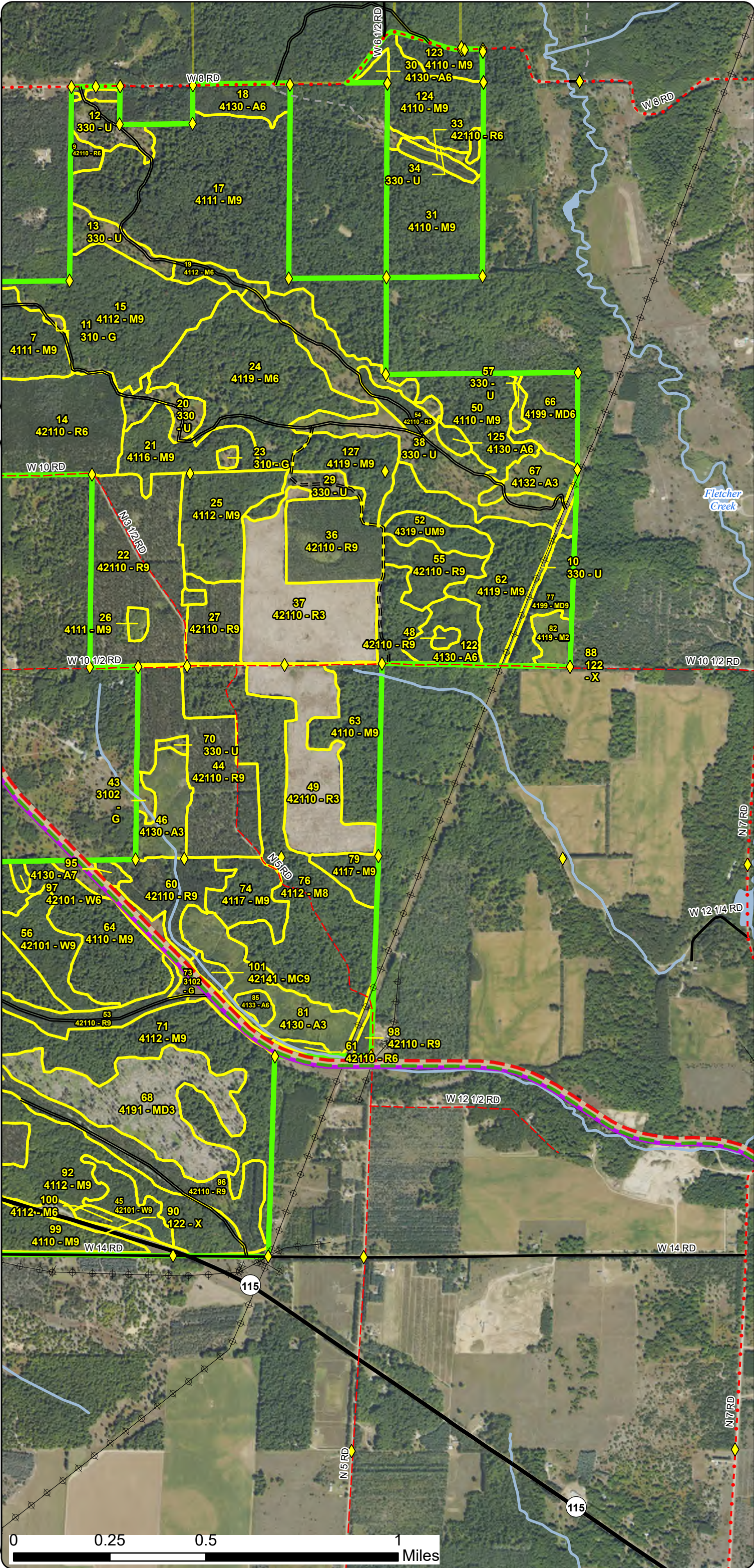


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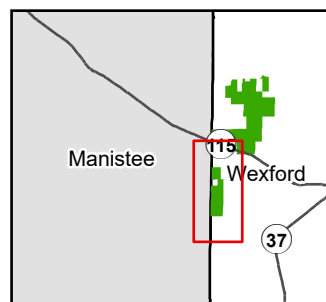
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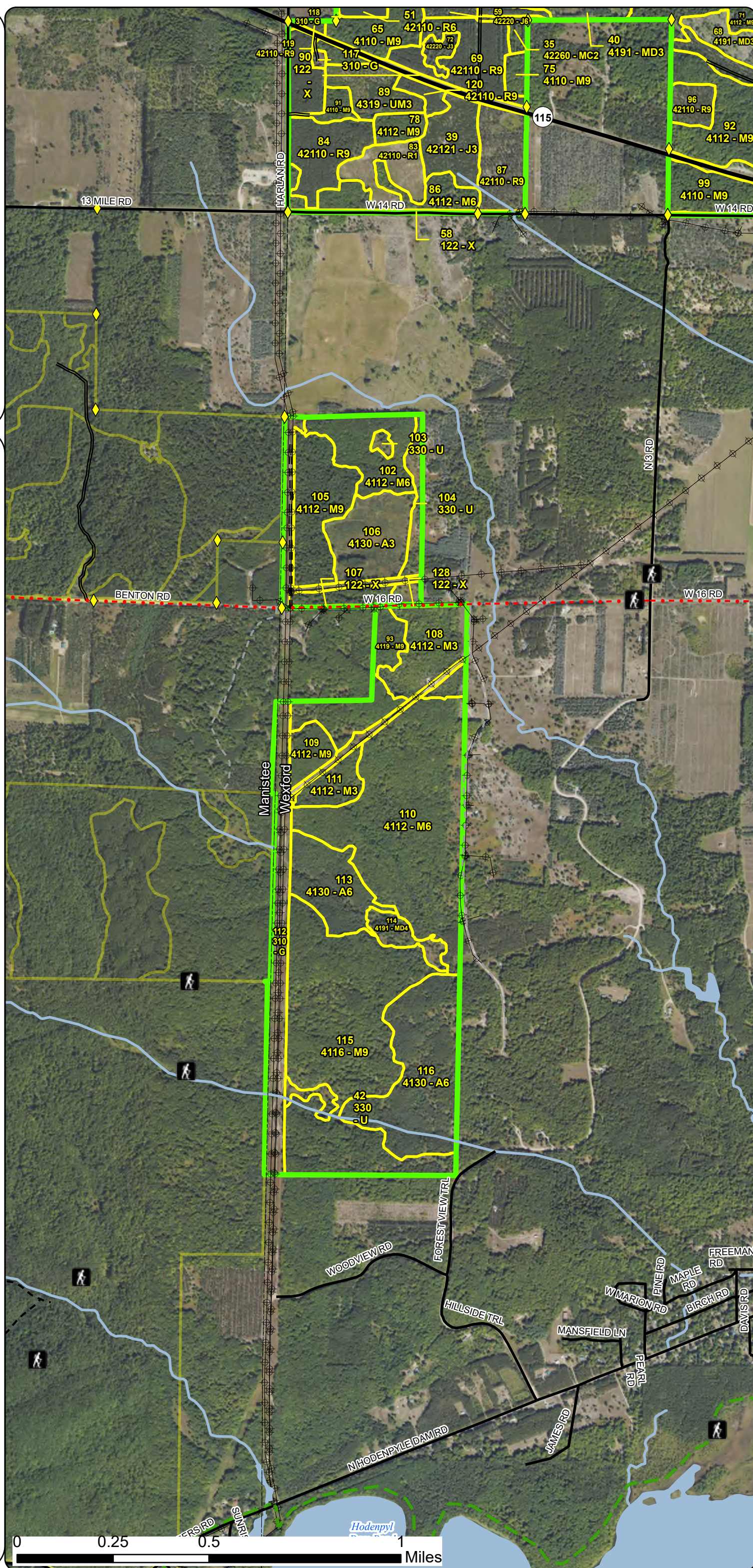
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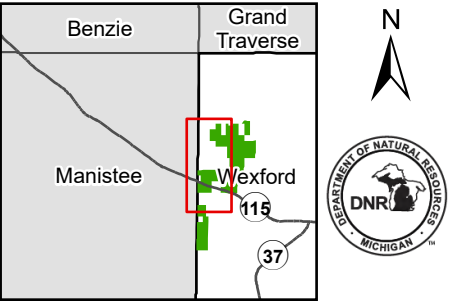


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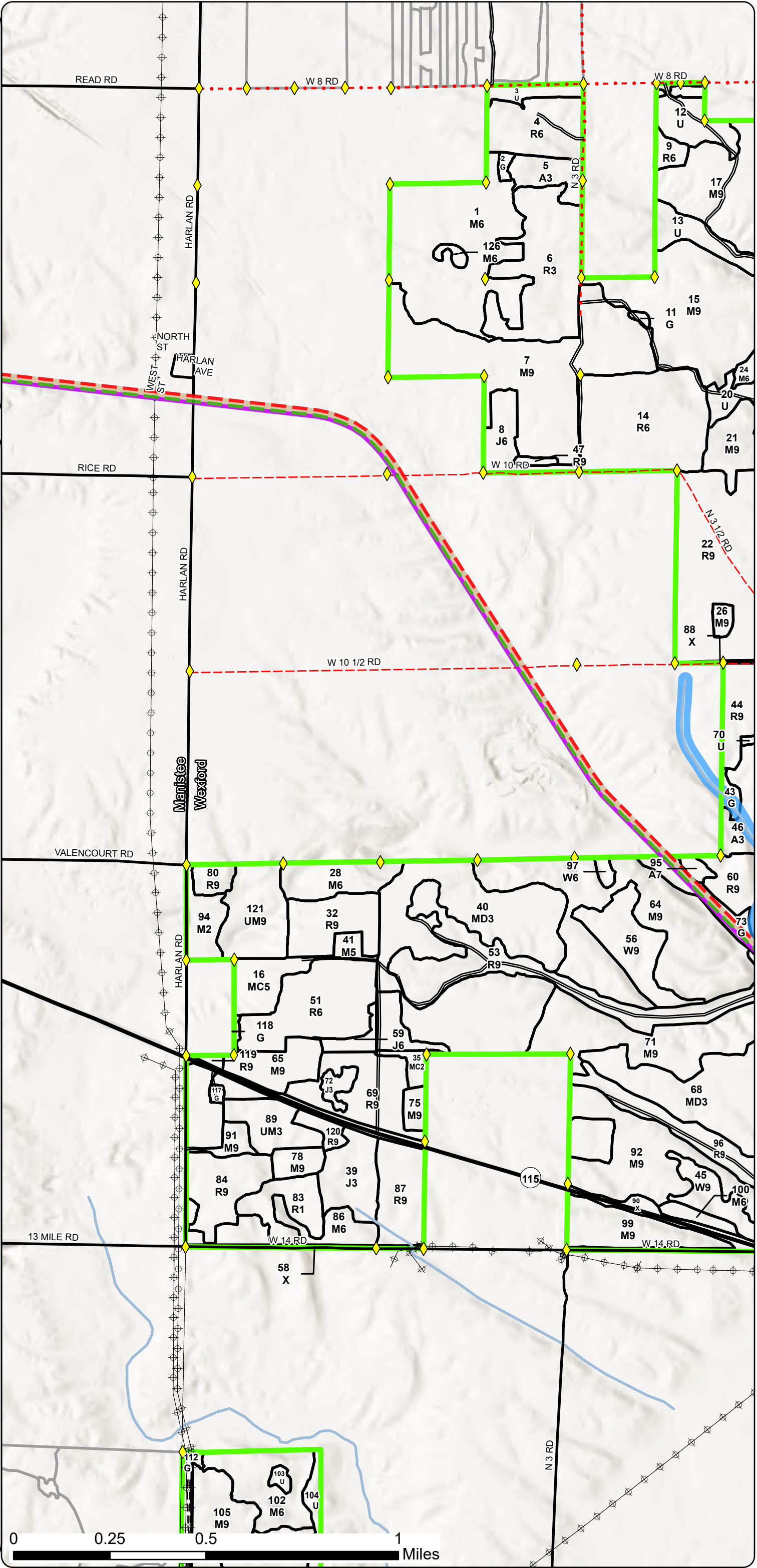


Special Conservation Areas
& Site Conditions Map

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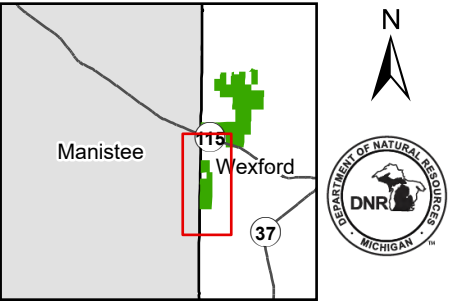


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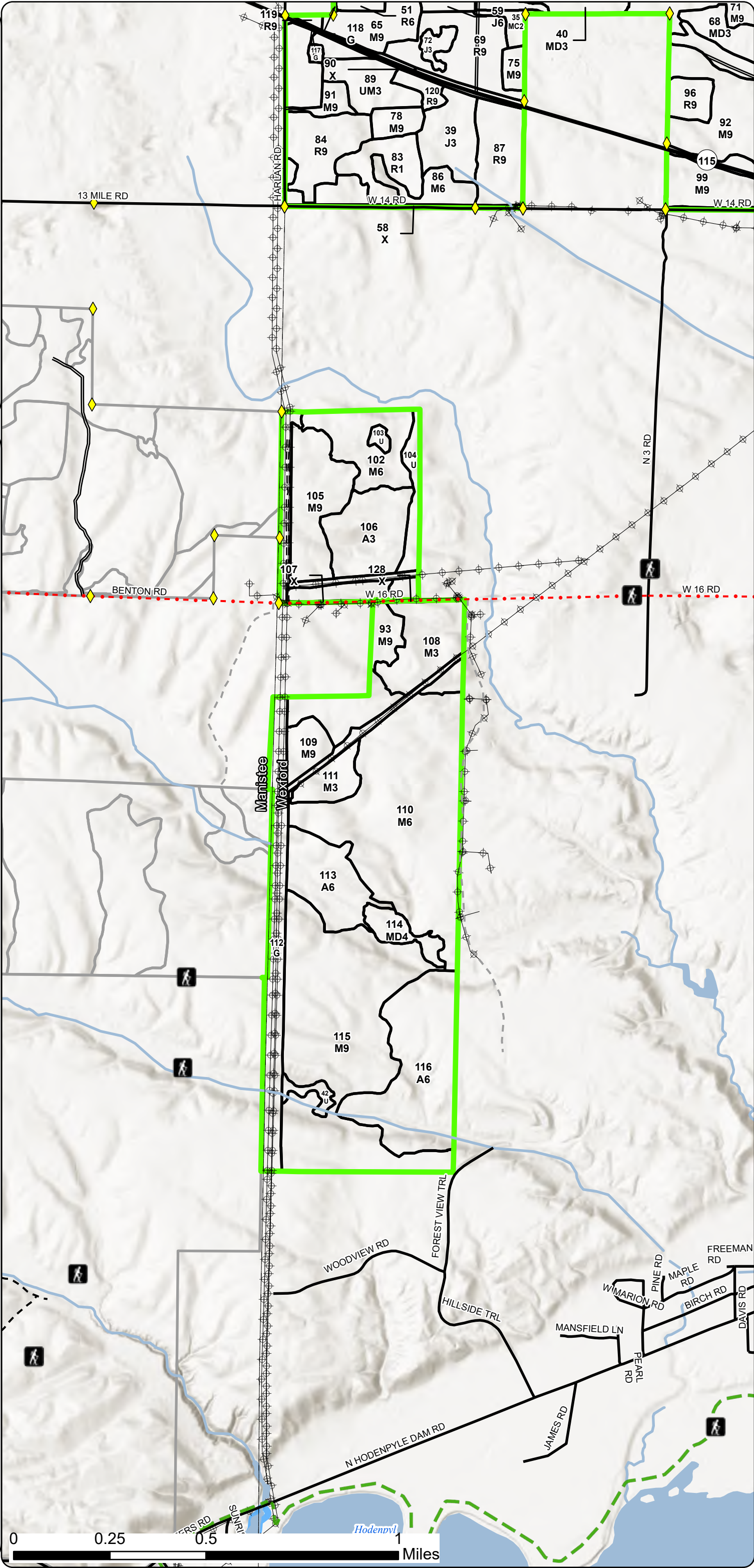


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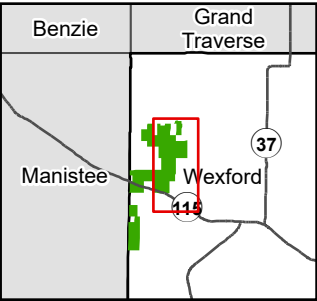


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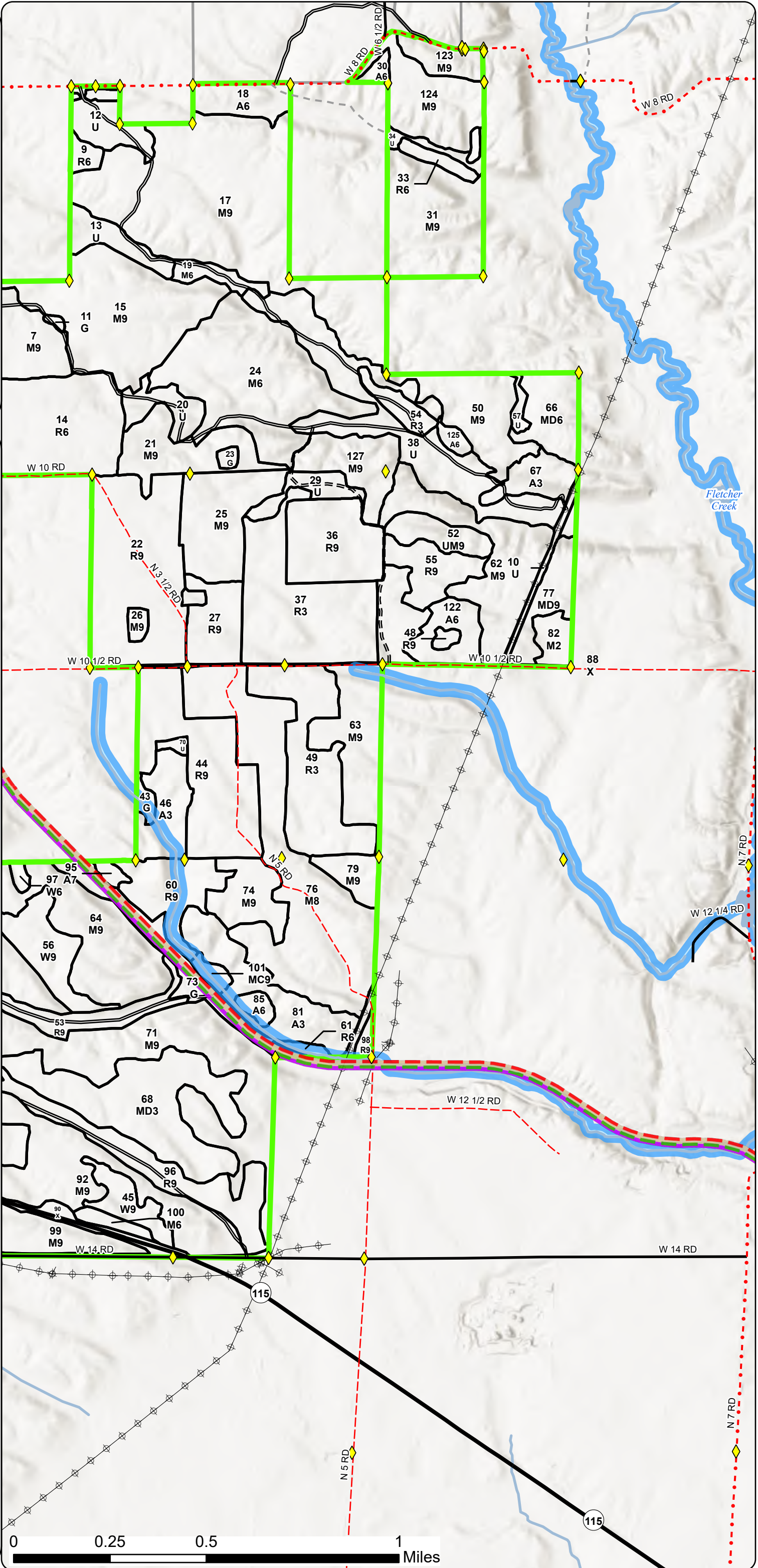


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	93	11	0	28	85	7	0	3	0	0	0	0	0	0	0	0	0	226
Herbaceous Openland	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
Jack Pine	0	0	22	0	13	4	0	0	0	0	0	0	0	0	0	0	0	0	39
Low-Density Trees	148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148
Mixed Upland Deciduous	0	97	0	0	8	19	0	0	0	0	0	0	0	0	0	0	0	79	202
Natural Mixed Pines	0	0	4	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Northern Hardwood	0	19	0	27	0	156	0	20	76	348	583	165	48	0	0	0	0	136	1578
Planted Mixed Pines	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Red Pine	0	171	8	0	91	0	0	129	340	4	0	0	0	0	0	0	0	0	743
Upland Mixed Forest	0	0	15	0	0	0	0	0	25	0	0	0	0	0	0	0	0	12	51
Urban	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
White Pine	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	36
Total	259	380	60	27	153	264	7	189	444	352	583	165	48	0	0	0	0	227	3154



Report 2 – Treatment Summary

Cadillac Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 63
Total Compartment Acres: 3,157

Commercial Harvest - 1241
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	Oversky Removal	Salvage	Other	Total Acres
Aspen	3	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	15	0	0	0	0	0	0	0	15
Northern Hardwood	0	107	0	0	30	170	0	0	0	308
Planted Mixed Pines	0	0	0	0	3	0	0	0	0	3
Red Pine	54	0	0	33	19	215	0	0	0	322
Upland Mixed Forest	0	0	0	0	0	25	0	0	0	25
White Pine	0	0	0	0	0	37	0	0	0	37
Total	57	122	0	33	52	446	0	0	0	712

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	712	0	0	0	0	0	144	0	0	859
Next Step	0	0	71	0	0	100	359	0	0	535
Total	712	0	71	0	0	100	503	0	0	1394



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

1	63063001-Cut	73.9	4112 - Maple, Beech, Cherry Association	6	75	111- 140	Harvest	Thinning	4112 - Maple, Beech, Cherry Association	Planting Record	No
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Prescription Thin to a residual of 70BA. Cut all aspen, ironwood, beech greater than 5" that meet minimum product specifications. Mark for equipment
Specs: access to reduce residual damage. Remove diseased and stems of poor form first. Release high quality stems of sugar and

Next Step
Treatments:

Acceptable
Regen:

Other Some areas may be easier to thin through strips instead of selection based on individual trees.
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

2	63063002-Opening	1.4	3102 - Grass	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
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Prescription Keep open.
Specs:

Next Step Openings Mgmt., Mowing; Openings Mgmt., Idle/Fallow; Openings Mgmt., Idle/Fallow; Openings Mgmt., Idle/Fallow
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

14	63063014-Cut	54.2	42110 - Planted Red Pine	6	31	171- 200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Thin rows following a cut one leave two pattern or cut 15 feet leave 30 feet where rows are hard to follow. Cut all scotch pine 4" and greater a
Specs: DBH.Acreage may vary based on field conditions.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027



Standard

	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
21	63063021-Cut	27.2	4116 - Mixed N. Hardwood - Aspen	9	96	111-140	Harvest	Selection	4116 - Mixed N. Hardwood - Aspen	Planting Record	No
<u>Prescription</u> Thin stand to 70BA. Cut all aspen, beech, red pine and ironwood that meet minimum product specifications. Remove diseased and stems of poor form first. Release high quality maple stems. Avoid marking hardwoods over 15" unless needed. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, maple, ash, pine, basswood, beech <u>Regen:</u> <u>Other</u> Retaining larger hardwoods is intended to create a reliable seed source within the stand. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
25	63063025-Cut	37.1	4112 - Maple, Beech, Cherry Association	9	96	111-140	Harvest	Selection	4116 - Mixed N. Hardwood - Aspen	Planting Record	No
<u>Prescription</u> Thin stand to 70BA. Cut all aspen, beech, red pine and ironwood that meet minimum product specifications. Remove diseased and stems of poor form first. Release high quality maple stems. Avoid marking hardwoods over 15" unless needed. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, maple, ash, pine, basswood, beech <u>Regen:</u> <u>Other</u> Retaining larger hardwoods is intended to create a reliable seed source within the stand. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
26	63063026-Cut	2.6	4111 - S.Maple, Hard Mast Association	9	91	81-110	Harvest	Thinning	411 - Northern Hardwood	Current	No
<u>Prescription</u> Thin to 70. Cut all aspen, ironwood and beech that meet minimum product specifications. Retain high quality maple 17"+ and promote quality bolts/poles. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> No roads, skids only <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											



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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30 63063030-Cut	2.7	4130 - Aspen	6	45	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Cut all cherry, aspen, beech and ironwood greater than two inches at DBH.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, cherry, maple, pine

Regen:

Other Aspen is being harvested early in rotation. Intent is to reduce some browse pressure on adjacent hardwood thinning. Grouse spec

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

36 63063036-Cut	4.6	42110 - Planted Red Pine	9	77	111-140	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
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Prescription Cut all red pine within 100 feet of the decline pocket. The decline pocket begins at the last living red pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, maple, beech, cherry, pine, basswood

Regen:

Other Intended to capture value of red pine around the pocket decline.

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

44 63063044-Cut_RP	31.0	42110 - Planted Red Pine	9	77	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
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Prescription Cut all trees greater than two inches at DBH.

Specs:

Next Step Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Monitoring, Artificial Regen

Treatments:

Acceptable Red pine

Regen:

Other No retention due to lack of hardwood trees in the overstory and dense beech understory.

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

44 63063044-Cut_WP	7.9	42110 - Planted Red Pine	9	77	111-140	Harvest	Clearcut	4210 - Planted White Pine	Planting Record	No
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Prescription Cut all trees greater than two inches at DBH.

Specs:

Next Step Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Monitoring, Artificial Regen

Treatments:

Acceptable White pine

Regen:

Other No retention due to lack of hardwood trees in the overstory and dense beech understory.

Comment:

Site Condition:

Proposed Start Date: 10/01/2027



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
45 63063045-Cut	12.3	42101 - Planted White Pine, Mixed Deciduous	9	65	141- 170	Harvest	Thinning	4117 - Mixed N. Hardwood - Pine	Cutting Record	No
<u>Prescription</u> Thin to an average residual of 110BA in white pine dominated areas and 80BA residual in areas dominated by hardwoods. Focus on removing poor quality stems and spacing. Release pockets of hardwood poles where possible. Retain some large poor quality hardw <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> maple, pine, cherry, aspen, hemlock, beech. <u>Regen:</u> <u>Other</u> Harvest is an improvement cut. Heavy BBD on beech trees. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
48 63063048-Cut	2.0	42110 - Planted Red Pine	9	76	201+	Harvest	Shelterwood	4119 - Mixed Northern Hardwoods	Planting Record	No
<u>Prescription</u> Thin to a residual of 40BA. Retain hardwood trees and dominant red pine with healthy crowns. Cut all aspen that meet minimum product specifications. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> maple, cherry, aspen, basswood, pine, elm <u>Regen:</u> <u>Other</u> Should provide some shelter for maple and conifer diversity within the aspen stand. Red pine should not be removed until maple is mature enough to treat. Regen protection spec. No feller buncher - roundwood only. No chipping. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
51 63063051-Cut	36.9	42110 - Planted Red Pine	6	31	201+	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin rows following a cut one leave two pattern. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										



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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53 63063053-Cut	36.8	42110 - Planted Red Pine	9	64	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Thin from below to a residual of 100BA. Cut all beech that meet minimum product specifications. Favor retention of maple and cherry. Actual
Specs: acreage may vary based on field conditions.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

53 63063053-Cut_SeedTree	9.8	42110 - Planted Red Pine	9	64	171-200	Harvest	Seed Tree	4211 - Planted Red Pine	Planting Record	No
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Prescription Do not cut maple, cherry and basswood. Mark additional red pine to leave 4 TPA residual stocking. Size may vary based on field conditions.
Specs:

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

Acceptable maple, cherry, basswood, pine, aspen, oak, birch, beech
Regen:

Other Regeneration protection spec. Place division between adjacent harvest where maple regen tapers off to the west and is likely to be
Comment: outcompeted by beech and ironwood. Trail protection spec.

Site Condition:

Proposed Start Date: 10/01/2027

55 63063055-Cut	17.3	42110 - Planted Red Pine	9	76	141-170	Harvest	Shelterwood	4119 - Mixed Northern Hardwoods	Cutting Record	No
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Prescription Thin to a residual of 40BA. Retain hardwood trees and dominant red pine with healthy crowns. Cut all aspen that meet minimum product
Specs: specifications.

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

Acceptable
Regen: maple, cherry, aspen, basswood, pine, elm

Other Should provide some shelter for maple and conifer diversity within the aspen stand. Red pine should not be removed until maple is mature
Comment: enough to treat. Regen protection spec. No feller buncher - roundwood only. No chipping. Consider designating skid t

Site Condition:

Proposed Start Date: 10/01/2027



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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56 63063056-Cut	24.2	42101 - Planted White Pine, Mixed Deciduous	9	63	141- 170	Harvest	Thinning	4117 - Mixed N. Hardwood - Pine	Cutting Record	No
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Prescription Thin hardwood areas to a residual 80BA. Remove 1/3rd of BA in areas of pine focusing on access and removing poor formed and suppressed stems first. Cut all ironwood, aspen, and beech that meet minimum product specifications. Avoid removing hardwood greater

Next Step
Treatments:

Acceptable maple, aspen, pine, basswood, birch, beech.
Regen:

Other Hardwood regeneration issues within the compartment. Improved growing stock of white pine should hopefully provide increased diversity
Comment: and regeneration opportunities

Site Condition:

Proposed Start Date: 10/01/2027

60 63063060-Cut	24.4	42110 - Planted Red Pine	9	77	141- 170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Thin from below to a residual of 120BA. Remove poor form and suppressed stems first before focusing on tree spacing. Cut all red pine
Specs: within 66ft of the decline pocket.

Next Step
Treatments:

Acceptable
Regen:

Other Trail protection spec.
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

61 63063061-Cut	2.2	42110 - Planted Red Pine	6	64	111- 140	Harvest	Seed Tree	4136 - Aspen, Mixed Conifer	Cutting Record	No
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Prescription Cut all red pine, ironwood, beech and aspen that meet minimum product specifications.
Specs:

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

Acceptable aspen, pine, maple, ash, birch, basswood
Regen:

Other Retaining white pine, ash and maple as a seed source and to increase local diversity. Exotic honeysuckle in the stand and along the
Comment: snowmobile trail. Clean equipment if moving to a unit not on the trail. Trail protection spec.

Site Condition:

Proposed Start Date: 10/01/2027

69 63063069-Cut	34.2	42110 - Planted Red Pine	9	77	171- 200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Thin to a residual of 110BA. Follow the complete marker for selection order. Cut all beech that meet minimum product specifications.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027



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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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74	63063074-Cut	18.8	4117 - Mixed N. Hardwood - Pine	9	98	81-110	Harvest	Thinning	4117 - Mixed N. Hardwood - Pine	Cutting Record	No
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Prescription Thin hardwood areas to a residual 80BA. Remove 1/3rd of BA in areas of pine focusing on access and removing poor formed and suppressed stems first. Cut all ironwood, aspen, and beech which meet minimum product specifications. Avoid removing log hardwood w

Specs:

Next Step
Treatments:

Acceptable pine, maple, cherry, aspen, basswood, beech, other northern hardwood species

Regen:

Other Hardwood regeneration issues within the compartment. Improved growing stock of white pine should hopefully provide increased diversity and

Comment: regeneration opportunities Improvement cut. The objective is to build a future seed source and improve stand health

Site Condition:

Proposed Start Date: 10/01/2027

77	63063077-Cut	15.0	4199 - Other Mixed Upland Deciduous	9	91	111- 140	Harvest	Selection	4116 - Mixed N. Hardwood - Aspen	Planting Record	No
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Prescription Thin areas dominated by hardwood and pine to 80BA. Cut all aspen, beech and ironwood that meet minimum product specifications. Retain

Specs: large hardwoods (17"+ at DBH) and high quality poles whenever possible.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, maple, cherry, pine, ash, beech

Regen:

Other Should regenerate aspen clones and hardwood. Aspen should nurse along additional maple regen as clones mature.

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

78	63063078-Cut	6.2	4112 - Maple, Beech, Cherry Association	9	83	111- 140	Harvest	Selection	411 - Northern Hardwood	Cutting Record	No
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Prescription Thin to a residual of 70BA. Cut all beech that meet minimum product specifications. Create one 150' drip line to drip line gap per 2 acres.

Specs: Within gaps, cut all trees greater than 2" at DBH. Use areas of heavy beech harvest in gap creation. Keep large map

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, cherry, pine, aspen, oak, beech

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

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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
79 63063079-Cut	9.7	4117 - Mixed N. Hardwood - Pine	9	98	81-110	Harvest	Thinning	4117 - Mixed N. Hardwood - Pine	Cutting Record	No
<u>Prescription</u> Thin hardwood areas to a residual 80BA. Remove 1/3rd of BA in areas of pine focusing on access and removing poor formed and suppressed stems first. Cut all ironwood, aspen, and beech which meet minimum product specifications. Avoid removing hardwood great <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Hardwood regeneration issues within the compartment. Improved growing stock of white pine should hopefully provide increased diversity <u>Comment:</u> and regeneration opportunities <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
84 63063084-Cut	21.2	42110 - Planted Red Pine	9	77	171- 200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin to a residual of 120BA. Remove suppressed pine and poor quality stems first before focusing on spacing. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
84 63063084-Cut_RestartR P	9.3	42110 - Planted Red Pine	9	77	171- 200	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Cut all trees greater than 2" at DBH. <u>Specs:</u> <u>Next Step</u> Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Monitoring, Artificial Regen <u>Treatments:</u> <u>Acceptable</u> Red pine <u>Regen:</u> <u>Other</u> Potential for a small area of retention along M-115 for visual concerns. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										



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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84 63063084-Cut_RestartWP	1.6	42110 - Planted Red Pine	9	77	171-200	Harvest	Clearcut	4210 - Planted White Pine	Planting Record	No
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Prescription Cut all trees greater than 2" at DBH.Specs:Next Step Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Monitoring, Artificial Regen
Treatments:Acceptable White pineRegen:OtherComment:Site Condition:Proposed Start Date: 10/01/2027

87 63063087-Cut	20.8	42110 - Planted Red Pine	9	77	111-140	Harvest	Seed Tree	4319 - Mixed Upland Forest	Cutting Record	No
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Prescription Leave 6-8 TPA of largest red pine or those most likely to produce mast. Cut all other trees that meet minimum product specifications.Specs:Next Step Monitoring, Natural Regen (Intermediate); Planting, Underplant; Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable pine, cherry, maple, aspen, beech, oakRegen:Other Snow off harvest with whole tree or tracked equipment. Scarification is important on this site for additional pine and hardwood to seed in. Final
Comment: harvest is recommended as multiple decline pockets affecting the long term future of overstory red pine. NaSite Condition:Proposed Start Date: 10/01/2027

91 63063091-Cut	4.8	4110 - Sugar Maple Association	9	85	111-140	Harvest	Selection	411 - Northern Hardwood	Cutting Record	No
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Prescription Thin to a residual of 70BA. Cut all beech that meet minimum product specifications. Retain high quality poles to recruit to log size class.Specs: Retain large maples (16"+) to provide a future seed source for this and adjacent stands.Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Maple, cherry, pine, aspen, oak.Regen:Other Beech is heavily infected with BBD.Comment:Site Condition:Proposed Start Date: 10/01/2027



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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92 63063092-Cut	55.7	4112 - Maple, Beech, Cherry Association	9	86	111-140	Harvest	Thinning	4117 - Mixed N. Hardwood - Pine	Cutting Record	No
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Prescription Thin stand to a residual of 80BA. Cut all beech, aspen and ironwood greater than 2". Follow complete marker guidelines, retain large hardwood for seed source and wildlife. Release quality maple poles when advantageous.

Next Step
Treatments:

Acceptable maple, pine, cherry, aspen, hemlock, beech.
Regen:

Other Harvest is an improvement cut to increase size and quality of residual stand.
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

93 63063093-Cut	7.3	4119 - Mixed Northern Hardwoods	9	98	81-110	Harvest	Shelterwood	4117 - Mixed N. Hardwood - Pine	Cutting Record	No
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Prescription Cut all trees greater than 2" at DBH except oak, sugar maple and conifers.
Specs:

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

Acceptable oak, maple, aspen, pine, basswood, fir, spruce, beech
Regen:

Other Oak wilt spec. Treat with compartment 61037 Stand 100
Comment:

Site Condition:

Proposed Start Date: 10/01/2026

98 63063098-Cut	2.3	42110 - Planted Red Pine	9	61	1-50	Harvest	Thinning	42111 - Planted Red Pine, Mixed Deciduous	Planting Record	No
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Prescription Thin following a cut one row leave one row pattern.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Allow maple and other hardwoods to mature post harvest. Next entry should be 20+ years in the future. Trail protection spec.
Comment:

Site Condition:

Proposed Start Date: 10/01/2027



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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101 63063101-Cut	3.4	42141 - Planted Mixed Pine, Mixed Deciduous	9	64	81-110	Harvest	Shelterwood	4136 - Aspen, Mixed Conifer	Cutting Record	No
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Prescription Cut all trees greater than 2" at DBH except maple, white pine, basswood and ash. Retain these species for increased diversity.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, pine, maple, basswood, ash, birch

Regen:

Other Due to spatial distribution of species, aspen should sprout well and regenerate while allowing for retention species to mature. Exotic
Comment: honeysuckle in the stand and along the snowmobile trail. Clean equipment if moving to a unit not on the trail. Trail

Site Condition:

Proposed Start Date: 10/01/2027

109 63063109-Cut	9.0	4112 - Maple, Beech, Cherry Association	9	65	111- 140	Harvest	Thinning	4112 - Maple, Beech, Cherry Association	Planting Record	No
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Prescription Thin to an average residual of 70 BA. Cut all beech that meet minimum product specifications. Retain high quality stems in pole and log
Specs: classes. Follow the complete marker guidelines.

Next Step

Treatments:

Acceptable

Regen:

Other Treat with compartment 61037 Stand 100

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

117 63063117- Opening	1.0	310 - Herbaceous Openland	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
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Prescription Keep Open

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
119	63063119-Cut	1.1	42110 - Planted Red Pine	9	77	201+	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin following a cut one row leave one row pattern. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
120	63063120-Cut	4.3	42110 - Planted Red Pine	9	80	171- 200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Thin to a residual of 120BA. Cut all beech that meet minimum product specifications. Remove suppressed pine and poor quality stems first <u>Specs:</u> before focusing on spacing. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
121	63063121-Cut	24.5	4319 - Mixed Upland Forest	9	77	141- 170	Harvest	Thinning	4319 - Mixed Upland Forest	Cutting Record	No
<u>Prescription</u> Thin to an average residual of 80BA. Cut all beech, ironwood, aspen that meet minimum product specifications. Do not cut maple over 14" at <u>Specs:</u> DBH. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Regen protection spec (roundwood only?). Regen is more important than residual BA; leave BA high in some areas to protect saplings. <u>Comment:</u> Consider removing a row from pine areas to meet BA and protect hardwood regeneration. Do not cut maple over 14" at DBH. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
124	63063124-Cut	31.5	4110 - Sugar Maple Association	9	91	111- 140	Harvest	Selection	411 - Northern Hardwood	Current	No
<u>Prescription</u> Thin to an average residual of 60BA. Cut all ironwood and beech that meet minimum product specifications. Retain high seed producing trees <u>Specs:</u> (greater than 18 inches at DBH) and high quality pole/logs. Put one gap 150ft in diameter, drip line to drip line, <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> maple, basswood, cherry, pine, ash, elm, aspen, beech <u>Regen:</u> <u>Other</u> The intent is to transition this stand to an uneven aged condition. It will take at least one more entry in 20-30 years to achieve this. Gaps are <u>Comment:</u> intended to increase species diversity in mid tolerant species and hedge against maple regeneration failure. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											

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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
126 63063126-Cut	1.9	4112 - Maple, Beech, Cherry Association	6	75	51-80	Harvest	Other Harvest - See Comments	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> Leave 1 tree greater than 8" in DBH every 66 feet in the opening shown. Favor conifer, cherry and other mast species. Cut all other trees greater than 2" at DBH. <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> 10/01/2027										
127 63063127-Cut	22.3	4119 - Mixed Northern Hardwoods	9	86	81-110	Harvest	Shelterwood	4111 - S.Maple, Hard Mast Association	Cutting Record	No
<u>Prescription</u> Cut all trees greater than 2 inches in diameter except sugar maple and elm. Acreage will depend on field conditions. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> maple, aspen, basswood, cherry, elm, ash, pine, hemlock, birch <u>Other Comment:</u> Will result in a shelterwood with ICO characteristics. Sugar maple seedlings should do well due to north and east facing slopes and residual overstory maple as shelter. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										

Approved Treatments:

6 63063006-Monitor	44.9	42110 - Planted Red Pine	3	3	1-50	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine		No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> Planted Red pine <u>Other Comment:</u> Percent to Treat = 100% <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025										



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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37	63063037-Monitor	56.1	42110 - Planted Red Pine	3	3	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine	No
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PrescriptionSpecs:Next StepTreatments:Acceptable Red pineRegen:Other Percent to Treat = 100%Comment:Site Condition:Proposed Start Date: 10/01/2025

49	63063049-Monitor	43.2	42110 - Planted Red Pine	3	3	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine	No
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PrescriptionSpecs:Next StepTreatments:Acceptable Red pine planted.Regen:Other Percent to Treat = 100%Comment:Site Condition:Proposed Start Date: 10/01/2025

Total Treatment 858.6
Acreage Proposed:

Report 4 – Site Conditions



Availability for Management

Total Acres	Acres Available	Acres With Condition	Acres Not Available
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Dominant Site Conditions

5B	5C	5G	2F	5E
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208	200	0	8	Aspen					8
85	85	0	0	Herbaceous Openland					
39	39	0	0	Jack Pine					
148	148	0	0	Low-Density Trees					
203	203	0	0	Mixed Upland Deciduous					
18	18	0	0	Natural Mixed Pines					
1544	1490	42	12	Northern Hardwood	4		38	12	
3	3	0	0	Planted Mixed Pines					
735	705	30	0	Red Pine		30			
52	40	12	0	Upland Mixed Forest	12				
26	26	0	0	Urban					
36	37	0	0	White Pine					
3,098	2,994	84	20	Total Forested Acres	16	30	38	12	8
	97%	3%	1%	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
2	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions



5	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5B: Maintain for regeneration purposes	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2F: Too steep	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5B: Maintain for regeneration purposes	12				
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5G: Research Study	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walters research project							

Report 4 – Site Conditions



16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
6	42110 - Planted Red Pine	Sapling Well	44.9	3	1-50	N/A	Red pine stand that was final harvested in 2019, sale was chipped and is ready to be planted back to red pine. Big Mesick Pine, #63-021-18.Stand was initial planted in spring of 2023.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Pine		100	Sapling	1	3					
7	4111 - S.Maple, Hard Mast Association	Sawtimber Well	86.7	91	81-110	N/A	Beech is infested with scale. Some evidence of fruiting bodies. Limited amount of large mast trees.Stand treated with N Nelson Hardwoods (63-14-08-01) - Fall 2012, short wood. All aspen and ironwood was cut.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		65	Log/Pole	12	91	Beech		High	Variable	Variable
Red Maple		15	Log/Pole	13	91	Red Maple		Low	Variable	Variable
Black Cherry		10	Log/Pole	12		White Ash		Trace	5 - 10 feet	5 - 10 feet
Beech		10	Log/Pole	13		Ironwood		Full	Variable	Variable
						Sugar Maple		Low	10 - 20 feet	10 - 20 feet
8	42220 - Natural Jack Pine	Poletimber Well	12.6	32	1-50	N/A	Stand was final harvested in 1994. Random strips of red pine were left in the over story. Jack pine has naturally seeded in. American chestnut seeds were handplanted in the southwest part of the stand in April of 1995. FTP#C-61-297. 3 sapling chestnuts were found during 2016 survey. Not located again in 2026.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		20	Log	13	85	Sugar Maple		Low	>20 feet	>20 feet
Jack Pine		65	Pole/Sapling	5	32	White Pine		Low	5 - 10 feet	5 - 10 feet
Black Cherry		5	Sapling/Pole	4	32	Beech		Medium	Variable	Variable
Red Maple		10	Sapling/Pole	4		Ironwood	Medium	10 - 20 feet	10 - 20 feet	
9	42110 - Planted Red Pine	Poletimber Well	5.9	67	111-140	N/A	Stand was third row thinned in 2009, 8 Rd. Red #63-026-08. Stand was thinned in 2019, 63 Pine Contract #63-001-18. All merchantable hardwood, aspen, and jack pine was cut.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		100	Pole	9	67	Ironwood		Low	5 - 10 feet	5 - 10 feet
						Red Pine		Low	< 5 feet	< 5 feet
						Beech	Medium	Variable	Variable	
10	330 - Low-Density Trees	None	6.8			No	Powerline			
							Sub-Canopy Species	Density	Avg. Height	Size
							Ironwood	Low	< 5 feet	< 5 feet
							Amur Honeysuckle	Low	5 - 10 feet	5 - 10 feet
							Jack Pine	Low	5 - 10 feet	5 - 10 feet
							Red Pine	Medium	< 5 feet	< 5 feet
							Blackberry/Raspberry	Medium	5 - 10 feet	5 - 10 feet
11	310 - Herbaceous Openland	None	0.9			No	Small opening in the hardwood.			
							Sub-Canopy Species	Density	Avg. Height	Size
							Sugar Maple	Trace	5 - 10 feet	5 - 10 feet
							Red Pine	Low	5 - 10 feet	5 - 10 feet
							Black Cherry	Low	>20 feet	>20 feet





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
16	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	13.4	31	1-50	N/A	Old scotch pine plantation which was final harvested and allowed to regenerate naturally. Good cover for wildlife at this time, stand is more open to east edge.																																																											
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>10</td><td>Pole/Sapling</td><td>7</td><td></td></tr><tr><td>Black Cherry</td><td>25</td><td>Pole/Sapling</td><td>7</td><td></td></tr><tr><td>Scotch Pine</td><td>55</td><td>Pole/Sapling</td><td>7</td><td>31</td></tr><tr><td>Red Pine</td><td>5</td><td>Pole/Sapling</td><td>5</td><td></td></tr><tr><td>Beech</td><td>5</td><td>Pole/Sapling</td><td>5</td><td></td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	White Pine	10	Pole/Sapling	7		Black Cherry	25	Pole/Sapling	7		Scotch Pine	55	Pole/Sapling	7	31	Red Pine	5	Pole/Sapling	5		Beech	5	Pole/Sapling	5				<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Serviceberry (Juneberry)</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Beech</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Serviceberry (Juneberry)	Low	10 - 20 feet	10 - 20 feet	Beech	Low	Variable	Variable	White Pine	Medium	Variable	Variable															
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17	4111 - S.Maple, Hard Mast Association	Sawtimber Well	137.8	95	51-80	N/A	Quality hardwood with rolling hills. Overstocked ironwood understory.																																																											
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18	4130 - Aspen	Poletimber Well	13.8	32	1-50	N/A	Stand was final harvested in 1994. Sapling trembling aspen with occasional sugar maple log and hemlock pole trees. Southern edge of stand has less aspen and more small sapling (<2") ironwood, sugar maple, and white ash, as well as a small amount of serviceberry and blackberry/raspberry bushes. There is also a small amount of autumn olive.																																																											
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19	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.8	66	51-80	N/A	Valley of pole hardwood, transition area between two ridges.																																																											
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20	330 - Low-Density Trees	None	11.6			No	Transitioning to forested.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																														
21	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	27.2	96	111-140	N/A	Mixed stand with a few aspen clones. Mixed origin from sprouts or single stem. Rolling hills.																																																																														
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22	42110 - Planted Red Pine	Sawtimber Well	72.6	77	111-140	N/A	Pine plantation doesn't touch private line to west. Strip is a mix of hardwood and pine from the private. Overstory is free to grow. Handful of smaller decline pockets that appear to be expanding slowly.Stand third row thinned in 1994. Stand thinned again in 2019, 63 Pine Contract, #63-001-18. All merchantable hardwood, aspen, and jack pine was cut.																																																																														
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Beech	High	5 - 10 feet	5 - 10 feet																																																																																		
23	310 - Herbaceous Openland	None	1.7			No	Possible old exploration well pad. Visible in the 1930s imagery with no development since.																																																																														
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24	4119 - Mixed Northern Hardwoods	Poletimber Well	77.2	82	51-80	N/A	Mixed low timber quality stand. Open grown characteristics on larger trees and some openings. Offers good vertical structure, species diversity and wildlife habitat; let it grow. Stand was likely clearcut around the turn of the 20th century; ~60% canopy cover in 1938. May have been harvested repeatedly for firewood or grazed prior. Aerial photos suggest some kind of harvested between 1981 and 1993. No FTP found.																																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
30	4130 - Aspen	Poletimber Well	2.7	45	111-140	N/A	Stand was final harvested in 1981. Came back well to aspen. Small stand. Private on south border.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	90	Pole	8	45	Sugar Maple	Low		>20 feet	>20 feet
Black Cherry	10	Pole/Log	9		Red Maple	Medium		Variable	Variable
					Ironwood	Medium		Variable	Variable
31	4110 - Sugar Maple Association	Sawtimber Well	46.3	91	51-80	N/A	Good quality with single stem sugar maple. Difficult access, possible through stand 30 and 124. Hill within stand has the potential for a dry season strip thin. Allow to respond to thinning, future issues with ironwoodStand was thinned in 2020, Private Access Hardwood/Pine #63-025-18, winter. All ironwood was cut. Access came from private to west. Portion of stand was site conditioned and avoided for being too steep. See hard factor for area avoided.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	75	Log	14	91	Sugar Maple	Low		Variable	Variable
Basswood	15	Log	12		Beech	Medium		Variable	Variable
Beech	2	Log/XLog	14		Ironwood	Full		Variable	Variable
Black Cherry	3	Log/Pole	12						
Red Maple	5	Log/XLog	16						
32	42110 - Planted Red Pine	Sawtimber Well	20.9	77	141-170	N/A	Stand second thinned in the mid 90's. All jack pine was cut and the red pine was third thinned in mid 2000's.Stand was thinned in 2019, 63 Pine Contract #63-001-18. All merchantable hardwood, aspen, and jack pine was cut.Crowns are filing in. Hold until next YOE		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	100	Log	14	77	Sugar Maple	Trace		Variable	Variable
					Beech	High		Variable	Variable
					Black Cherry	Low	Variable	Variable	
33	42110 - Planted Red Pine	Poletimber Well	6.2	67	141-170	N/A	Good response to thinning. Mixed hardwood saplings developing between removed rowsStand was row thinned, Private Access Hardwood/Pine #63-025-18 - winter 2020.Access through private to west.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	99	Log/Pole	10	67	Sugar Maple	Medium		Variable	Variable
White Pine	1	XLog/Log	18		Beech	Medium		Variable	Variable
					Ironwood	Medium	Variable	Variable	
34	330 - Low-Density Trees	None	4.5			No	Open grown pine, cherry and maple. Few autmn olive and exotic honeysuckle in western portion. Stand mostly occurs on a south facing slope		
35	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	4.1	16	Immature	N/A	Portion of red pine plantation that was heavy to jack pine. Stand was final harvested and scattered red pine was left.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	20	Log	12	77	Jack Pine	Low		5 - 10 feet	5 - 10 feet
Beech	30	Sapling/Pole	3	16	Beech	High		10 - 20 feet	10 - 20 feet
Jack Pine	45	Sapling	2	16					
Black Cherry	5	Pole/Sapling	5						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
36	42110 - Planted Red Pine	Sawtimber Well	32.3	77	111-140	N/A	Decline pocket within stand. Isolated pine mortality. Crowns are moderately healthy and free to grow. Primarily beech with a minor amount of black cherry regenerating within decline pocket. Stand was thinned in 1994. Thinned in 2018, 63 Pine Contract, #63-001-18. All merchantable hardwood, aspen, and jack pine was cut.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Pine	100	Log	12	77	
		Sub-Canopy Species	Density	Avg. Height	Size		
		Black Cherry	Low	5 - 10 feet	5 - 10 feet		
		Sugar Maple	Low	5 - 10 feet	5 - 10 feet		
		Red Pine	Trace	< 5 feet	< 5 feet		
		Beech	Full	5 - 10 feet	5 - 10 feet		
		White Ash	Low	5 - 10 feet	5 - 10 feet		
		Ironwood	Medium	5 - 10 feet	5 - 10 feet		
37	42110 - Planted Red Pine	Sapling Well	61.0	3	Immature	N/A	Stand that was final harvested in 2019, Big Mesick Pine, #63-021-18. Stand was planted in spring of 2023.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Pine	100	Sapling	1	3	
38	330 - Low-Density Trees	None	63.4			No	Stand occurs primarily in a valley. Old rdr treatments with pine planting and a barrier on the powerline. No trespassing posts along powerline on state forest land.
		Sub-Canopy Species	Density	Avg. Height	Size		
		Hawthorn (spp.)	Low	5 - 10 feet	5 - 10 feet		
		Witch Hazel	Low	5 - 10 feet	5 - 10 feet		
		Quaking Aspen	Low	Variable	Variable		
		Black Cherry	Low	>20 feet	>20 feet		
		Red Pine	Trace	5 - 10 feet	5 - 10 feet		
		White Pine	Low	5 - 10 feet	5 - 10 feet		
		Common Or Ground Juniper	Low	5 - 10 feet	5 - 10 feet		
		Jack Pine	Low	5 - 10 feet	5 - 10 feet		
		Amur Honeysuckle	Low	5 - 10 feet	5 - 10 feet		
		American Elm	Low	>20 feet	>20 feet		
39	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	18.4	16	Immature	N/A	Old jack pine plantation which was final harvested in 2010 (M-115 Red #63-030-08) and was attempted to be planted to red pine. This failed as thick jack pine volunteers overtook the stand. Some areas of snow damage to jack pine.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Jack Pine	75	Sapling/Pole	3	16	
		Black Cherry	20	Sapling	2	16	
		Sub-Canopy Species	Density	Avg. Height	Size		
		Red Pine	Low	5 - 10 feet	5 - 10 feet		
		Red Oak	Trace	10 - 20 feet	10 - 20 feet		
40	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	96.5	5	1-50	N/A	Rolling hills with scattered overstory white pine and trace hardwood, mostly red maple. Stand came back to primarily pin cherry. Allow stand to continue to respond to treatment. Stand was final harvested in 2021, Time Bandit Hardwood #63-027-18. All pine 9" or greater at DBH was left. Scattered hardwood was marked leave. (OLD NOTES pre harvest) Stand was under planted with white pine in 1962. Most of the white pine is being topped and has double stems. Hardwood and pine scattered and not able to be typed out.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Bigtooth Aspen	5	Sapling	1		
		White Pine	20	Log	12	64	
		Beech	5	Sapling	1		
		Pin Cherry	65	Sapling	1	5	



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
47	42110 - Planted Red Pine	Sawtimber Well	1.4	77	111-140	N/A	Stand second thinned in 2019, stand was thinned before no records found.			
Canopy Species Red Pine		% Cover 100	Size Class Log	DBH 13	Age 77	Sub-Canopy Species Blackberry/Raspberry		Density Low	Avg. Height 5 - 10 feet	Size 5 - 10 feet
						Red Pine		Low	< 5 feet	< 5 feet
						White Pine		Low	5 - 10 feet	5 - 10 feet
						Beech		Medium	Variable	Variable
48	42110 - Planted Red Pine	Sawtimber Well	2.0	76	201+	N/A	Unthinned stand with forest health issues. Small and light crowns			
Canopy Species Red Pine		% Cover 100	Size Class Log/Pole	DBH 12	Age 76	Sub-Canopy Species Sugar Maple		Density High	Avg. Height 10 - 20 feet	Size 10 - 20 feet
						Ironwood		Medium	Variable	Variable
						Beech		Medium	Variable	Variable
49	42110 - Planted Red Pine	Sapling Well	48.7	3	Immature	N/A	Stand that was final harvested in 2019, Big Mesick Pine, #63-021-18.Stand was planted in spring of 2023.			
Canopy Species Red Pine		% Cover 100	Size Class Sapling	DBH 1	Age 3	Sub-Canopy Species Jack Pine		Density Trace	Avg. Height < 5 feet	Size < 5 feet
						Beech		Trace	< 5 feet	< 5 feet
50	4110 - Sugar Maple Association	Sawtimber Well	29.8	99	51-80	N/A	High quality stems. Free to grow at this time. Allow stand to mature for 10-20 years before considering future management.Stand treated with Hill Climb Aspen/Hardwood #63-026-18 - 2019, short wood. All aspen 2" and greater and hardwood 2-5" was cut. Southern tip not included in sale.			
Canopy Species Sugar Maple		% Cover 75	Size Class Log/Pole	DBH 12	Age 99	Sub-Canopy Species Autumn Olive		Density Trace	Avg. Height 5 - 10 feet	Size 5 - 10 feet
						White Ash		Medium	< 5 feet	< 5 feet
						Ironwood		Full	5 - 10 feet	5 - 10 feet
						Black Cherry		Medium	< 5 feet	< 5 feet
51	42110 - Planted Red Pine	Poletimber Well	36.9	31	201+	N/A	Red Pine planted by DNR crew in spring 1995, appears it was a open field prior to planting. 3-0 red pines were used and were noted to be in poor condition by planting crew.			
Canopy Species Red Pine		% Cover 100	Size Class Pole	DBH 6	Age 31					
52	4319 - Mixed Upland Forest	Sawtimber Well	12.1	73	111-140	N/A	White pine planted May 1953 throughout hardwood stand; FTP #8-53. Some mortality and double stems in white pine. Pine more concentrated in east while hardwood more established in west.			
Canopy Species Sugar Maple		% Cover 35	Size Class Log/Pole	DBH 13	Age	Sub-Canopy Species Sugar Maple		Density Low	Avg. Height 10 - 20 feet	Size 10 - 20 feet
						Ironwood		Medium	Variable	Variable
						Autumn Olive		Trace	5 - 10 feet	5 - 10 feet
						Witch Hazel		Low	10 - 20 feet	10 - 20 feet
						American Elm		Low	>20 feet	>20 feet
						White Ash		Low	5 - 10 feet	5 - 10 feet



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
53	42110 - Planted Red Pine	Sawtimber Well	46.6	64	171-200	N/A	Hardwood is mostly in western portion of stand. A few log beech also present. Cherry is generally beginning to senesce. Exotic honeysuckle on east edge of the stand. Heavier maple regen in the eastern portion. Stand was third row thinned in 2010, M-115 Red #63-030-08. All jack pine was cut.																																																							
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54	42110 - Planted Red Pine	Sapling Well	7.5	18	Immature	N/A	RDR tree planting occurred in stand to prevent illegal orv hill cline. Was trenched and planted around 2008. Roughly 7 acres were planted to mostly red pine. Very variable with scattered cherry, aspen clones(very small patches, jack pine, white pine and witch hazel.																																																							
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55	42110 - Planted Red Pine	Sawtimber Well	17.3	76	141-170	N/A	Minor damage from 2026 March Ice/Snow storm. Light and small crowns in spots; decline pockets starting to appear. Stand was third row thinned in 2019 under Mesick Spruce and Pine #63-022-18-01. All aspen and hardwood was cut.																																																							
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56	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	22.3	63	141-170	N/A	Stand does not have evidence of a thinning. Large hardwood is open grown in form.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
62	4119 - Mixed Northern Hardwoods	Sawtimber Well	45.0	93	51-80	N/A	Stand combines small area of planted red and white pine. Maple mostly in clumps but some single stem. Northern edge of stand contains aspen and witch hazel component. Stand was cut in Spring 2014 with 10 1/2 Hardwoods #63-015-08-01. All aspen and ironwood was cut. Small side slopes on north edge were missed during Harwood thinning as a result of topography.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	55	Log/Pole	12	93	Witch Hazel	Medium		5 - 10 feet	5 - 10 feet
Red Maple	15	Log/Pole	11		White Pine	Trace		10 - 20 feet	10 - 20 feet
Basswood	10	Log	14		Ironwood	High		Variable	Variable
White Pine	5	Log/Pole	13		Sugar Maple	Low		>20 feet	>20 feet
Red Pine	5	Log/Pole	12	76	Ironwood	Low		>20 feet	>20 feet
Bigtooth Aspen	5	Log/Pole	12		White Ash	Medium		Variable	Variable
Quaking Aspen	2	Pole/Log	8		Autumn Olive	Trace		5 - 10 feet	5 - 10 feet
Black Cherry	3	Log/Pole	11		Sugar Maple	Low		10 - 20 feet	10 - 20 feet
					Beech	Low		Variable	Variable
63	4110 - Sugar Maple Association	Sawtimber Well	47.8	111	81-110	N/A		High quality stems. Natural regen issues, full ironwood understory. Northern portion is has a heavier component of red maple and cherry vs southern. Stand was cut in Spring 2014 with 10 1/2 Hardwoods #63-015-08-01. All aspen, beech and ironwood was cut.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Sugar Maple	55	Log/XLog	14	111	Sugar Maple	Low	>20 feet		>20 feet
Red Maple	10	Log/XLog/Pole	14		Ironwood	Full	Variable		Variable
Basswood	5	Log/XLog	16		White Ash	Low	Variable		Variable
Black Cherry	5	Log/Pole	14		Sugar Maple	Low	5 - 10 feet		5 - 10 feet
Sugar Maple	25	Pole	9		Beech	Medium	Variable	Variable	
64	4110 - Sugar Maple Association	Sawtimber Well	80.4	40	81-110	N/A	Heavy deer browse on maple. Rolling hills with a snowmobile trail along the eastern stand boundary. Stand was cut in Spring 2014 with sale #63-017-08-01. Short wood operation.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	32	Log/XLog	15	86	Sugar Maple	Medium		Variable	Variable
Red Maple	15	Log/Pole	11		Ironwood	Full		Variable	Variable
Black Cherry	10	Pole/Log	9		Sugar Maple	Low		>20 feet	>20 feet
Sugar Maple	40	Pole	9	40	White Pine	Trace		Variable	Variable
Beech	3	XLog/Log	18		Red Maple	Low		>20 feet	>20 feet
					Ironwood	Low		>20 feet	>20 feet
					Witch Hazel	Low		5 - 10 feet	5 - 10 feet
65	4110 - Sugar Maple Association	Sawtimber Well	18.3	106	111-140	N/A		North east corner is a younger cohort of pole hardwood. Mixed sized hardwoods with recreational firewood cutting evidence. Buried utility along M-115 on north side.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Sugar Maple	70	Log/Pole/XLog	14	106	White Ash	Low	< 5 feet		< 5 feet
Beech	8	Log/Pole	15		Sugar Maple	Medium	< 5 feet		< 5 feet
Hemlock	2	Log	14		Hemlock	Trace	10 - 20 feet		10 - 20 feet
Black Cherry	20	Log/Pole	10	98	Beech	Medium	>20 feet		>20 feet
					Beech	Medium	Variable		Variable
					Ironwood	High	10 - 20 feet		10 - 20 feet
					Ironwood	Medium	>20 feet	>20 feet	



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
76	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	99.3	108	51-80	N/A	Stand was cut in Spring 2014 with sale #63-015-08-01. All beech, ash, ironwood and aspen was cut. Stand is patchy in spots with gaps in canopy. Slight rolling hills. High stumps noted. Area of red pine harvest came back to an full beech understory. Most of the stand is still free to grow.				
		Canopy Species	% Cover	Size Class	DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size
		Sugar Maple	68	Log/Pole	12	108		Red Maple	Low	Variable	Variable
		Red Maple	20	Log	10			Beech	High	Variable	Variable
		Basswood	5	Log	10			Ironwood	High	Variable	Variable
		Black Cherry	5	Log/Pole	10			Bigtooth Aspen	Low	10 - 20 feet	10 - 20 feet
		Red Pine	2	Log/Pole	12			Sugar Maple	Low	>20 feet	>20 feet
								Sugar Maple	Low	Variable	Variable
								White Ash	Low	Variable	Variable
77	4199 - Other Mixed Upland Deciduous	Sawtimber Well	15.0	91	111-140	N/A	Hardwood stand with some aspen mixed in. Tiny red pine plantation and some white pine mixed in southern end. Steep hill on north tip.				
		Canopy Species	% Cover	Size Class	DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size
		Sugar Maple	35	Log	14	91		American Elm	Low	>20 feet	>20 feet
		Bigtooth Aspen	35	Log/Pole	12			Sugar Maple	Low	10 - 20 feet	10 - 20 feet
		White Pine	5	Log/Pole	12			Sugar Maple	Medium	< 5 feet	< 5 feet
		Red Pine	5	Log/Pole	13			Beech	Low	Variable	Variable
		Red Maple	10	Log	11			Ironwood	Medium	Variable	Variable
		Sugar Maple	10	Pole	9			White Ash	Low	10 - 20 feet	10 - 20 feet
								White Ash	Medium	< 5 feet	< 5 feet
								White Pine	Low	Variable	Variable
78	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.2	83	111-140	N/A	Lower quality hardwood stand with significant beech component particularly in the east end. Slight rolling hills, not much evidence of past thinning's. West side has just a few beech while east end is almost half beech and cherry. Heavy scale on beech.160120140				
		Canopy Species	% Cover	Size Class	DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size
		Sugar Maple	40	Log/Pole	13	83		Beech	Medium	5 - 10 feet	5 - 10 feet
		Beech	35	Log/Pole	13			Red Maple	Low	Variable	Variable
		Black Cherry	15	Log/Pole	12			Sugar Maple	Low	Variable	Variable
		Red Maple	10	Log/Pole	14			Beech	Low	>20 feet	>20 feet
								Black Cherry	Low	5 - 10 feet	5 - 10 feet
79	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	9.7	98	81-110	N/A	Underplanted white pine 1962. Small stand of hardwood. Rolling hills with a large hill on the southwest edge.				
		Canopy Species	% Cover	Size Class	DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size
		Sugar Maple	35	Log/Pole	13	98		Ironwood	Low	5 - 10 feet	5 - 10 feet
		Red Maple	15	Log/Pole	13			Beech	Medium	Variable	Variable
		White Pine	25	Pole/Log	9	64		Sugar Maple	Low	Variable	Variable
		Black Cherry	5	Log/Pole	11			White Pine	Low	Variable	Variable
		Beech	15	Log/Pole	14						
		Red Pine	3	Pole/Log	9						
		Basswood	2	Log/Pole	15						







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91	4110 - Sugar Maple Association	Sawtimber Well	4.8	85	111-140	N/A	Two aged northern hardwood stand. No history of thinning found, likely a cut in the 80's that is the origin of pole sugar maple. Finger in west is mostly open grown trees along an old forest road/landing site.																																																																						
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92	4112 - Maple, Beech, Cherry Association	Sawtimber Well	55.7	86	111-140	N/A	Variable small log hardwood stand with small pockets of planted white pine (origin 1962). Slight hills with the southern border of stand being M-115. Oldest overstory hardwood is from sprouts with multiple stems or has open grown features. Stand appears to have struggled with natural regeneration in the past.																																																																						
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93	4119 - Mixed Northern Hardwoods	Sawtimber Well	7.3	98	81-110	N/A	Rolling topography with access from 16 Rd. Appears white pine was planted at some point in the past. Survey needed to determine property boundary. Old NCT section ran though the stand. It has been relocated down to hodenpyl.Areas in stand were planted with acorns in 1993 according to old notes. No FTP found. Approximately 21 acres were under planted in this stand and stand 110, north of the utility right of way.																																																																						
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94	4112 - Maple, Beech, Cherry Association	Sapling Medium	11.1	7	Immature	N/A	Moderate stocking of hardwoods with full stocking of rasp/blackberry. Majority of tree stems are of sprout origin. Sugar maple generally only faired well where it was missed in harvest. Possible example of sprouting ability of young sugar maple locally and regen protection needs during a harvest. Final harvested in Mesick Spruce and Pine #63-022-18-01.																																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
95	4130 - Aspen	Sawtimber Poor	2.5	75	1-50	N/A	Fallen out aspen stand. Converting to black cherry and ironwood.																																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>85</td><td>Log</td><td>13</td><td>75</td></tr><tr><td>Black Cherry</td><td>10</td><td>Log/Pole</td><td>12</td><td></td></tr><tr><td>Basswood</td><td>5</td><td>XLog/Log</td><td>18</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	85	Log	13	75	Black Cherry	10	Log/Pole	12		Basswood	5	XLog/Log	18		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Ironwood</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Quaking Aspen</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Black Cherry</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>Beech</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Green Ash</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	High	10 - 20 feet	10 - 20 feet	Quaking Aspen	Low	10 - 20 feet	10 - 20 feet	Black Cherry	Medium	10 - 20 feet	10 - 20 feet	White Pine	Low	>20 feet	>20 feet	Beech	Low	< 5 feet	< 5 feet	Green Ash	Low	10 - 20 feet	10 - 20 feet	Retention pocket for 2019 harvest of stand 46.	
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96	42110 - Planted Red Pine	Sawtimber Well	42.5	64	111-140	N/A	Stand has some variation in density. As low as 80BA and as high as 160BA. Hardwood understory beginning to develop. Likely to have future issues with beech understory. Stand was third row thinned in 2010, M-115 Red #63-030-08. All jack pine was cut. Stand was thinned again 2019, 63 Pine Contract #63-001-18. All merchantable hardwood, aspen, and jack pine was cut.																																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>100</td><td>Log/Pole</td><td>12</td><td>64</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100	Log/Pole	12	64	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Ash</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Ironwood</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Beech</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Sugar Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Pine</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	White Ash	Low	Variable	Variable	Ironwood	Low	5 - 10 feet	5 - 10 feet	Beech	High	5 - 10 feet	5 - 10 feet	Sugar Maple	Low	5 - 10 feet	5 - 10 feet	Red Pine	Low	< 5 feet	< 5 feet	White Pine	Low	< 5 feet	< 5 feet												
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97	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	1.9	63	171-200	N/A	Planted white pine with hardwood mixed in in spots.																																														
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98	42110 - Planted Red Pine	Sawtimber Well	2.3	61	1-50	N/A	Unthinned red pine adjacent to private and power line.																																														
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MICHIGAN

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
99	4110 - Sugar Maple Association	Sawtimber Well	21.7	96	51-80	N/A	Low to Medium quality hardwood which was thinned in 2014. Good pole class of sugar maple developing. High visibility stand of slight rolling hardwood along M-115. Small opening along 14 road with open grown trees. Beech has abundant scale on boles. Similar ironwood response to other cuts in the area, dominate in understory. 8060408080																																																																								
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100	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.4	41	51-80	N/A	Small piece of hardwood that was final harvested. No record in the files, but regenerated to red maple. A few log maple and cherry were left. Some white pine in understory.																																																																								
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101	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	3.4	64	81-110	N/A	Mix of planted white pine, red pine, and aspen along a snowmobile trail.																																																																								
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102	4112 - Maple, Beech, Cherry Association	Poletimber Well	24.1	40	51-80	N/A	Small pole hardwood stand with small inclusions of aspen and log hardwood. Higher BA in aspen inclusion.1008060120406060																																																																								
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103	330 - Low-Density Trees	None	1.7				No	Small open grown trees																																																																								
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104	330 - Low-Density Trees	None	11.2				No	Private to east. Hardwoods are mostly stump sprout origin.																																																																								
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105	4112 - Maple, Beech, Cherry Association	Sawtimber Well	37.7	103	81-110		N/A	Mostly red maple, larger size on southern portion of stand, more pole/log hardwood in north portion. Residual trees responded well to harvest. Small gaps that were made (intentional or not) are dominated with ironwood and beech regen.1008080808060Stand was cut in Spring 2014 with sale #63-017-08-01.																																																																								
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106	4130 - Aspen	Sapling Well	27.2	7	Immature		N/A	Very good aspen regen with red maple sprouts throughout. ~10,000 TPA (Four 1/1000th acre plots)Stand was final harvested in 2019, Hill Climb Aspen/Hardwood #63-026-18. All trees 2" and greater were cut except hemlock.																																																																								
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107	122 - Road/Parking Lot	None	0.6				No	16 rd																																																																								



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
108	4112 - Maple, Beech, Cherry Association	Sapling Well	26.9	25	Immature	N/A	Stand was planted in 1951. Planted jack pine has fallen out of stand and hardwood has naturally taken over on the site. A few larger hardwood trees, otherwise sapling hardwood.																																													
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109	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.0	65	111-140	N/A	Fair quality red maple stand with a mix of stump sprouts and seed origin. Quality pole class developing through stem exclusion.																																													
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110	4112 - Maple, Beech, Cherry Association	Poletimber Well	123.8	98	81-110	N/A	Rolling topography. Medium quality stems. Composition varies depending on aspect and soil. Heavier to oak/aspens with maple as a co dominate species in spots. Old NCT section ran though the stand. It has been relocated down to hodenpyl.																																													
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111	4112 - Maple, Beech, Cherry Association	Sapling Well	10.2	47	51-80	N/A	Stand was final harvested around 1979.																																													
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112	310 - Herbaceous Openland	None	54.9			No	Power Line																																													



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
113	4130 - Aspen	Poletimber Well	25.5	40	51-80	N/A	Stand occurs on the hillsides of a valley. Density varies, low in some areas. Few saw white pine.																																																														
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White Pine	Trace	10 - 20 feet	10 - 20 feet																																																																		
114	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	8.4	30	1-50	N/A	Small opening in valley with scattered trees.																																																														
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115	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	117.3	85	81-110	N/A	Low grade rolling hardwood with open pockets as well as a few aspen clones scattered in. A few log maple stems but overall a pole stand.																																																														
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116	4130 - Aspen	Poletimber Well	56.5	40	81-110	N/A	Stand final harvested in 1986. Mixed hardwood and aspen. Rolling hills with orv trespass throughout. Some areas of low density trees.																																																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>5</td><td>Pole/Sapling</td><td>7</td><td></td></tr><tr><td>Red Maple</td><td>15</td><td>Pole</td><td>8</td><td></td></tr><tr><td>Quaking Aspen</td><td>65</td><td>Pole/Log</td><td>8</td><td>40</td></tr><tr><td>White Pine</td><td>2</td><td>Log</td><td>16</td><td></td></tr><tr><td>Black Cherry</td><td>5</td><td>Pole</td><td>6</td><td></td></tr><tr><td>Red Oak</td><td>3</td><td>Pole/Sapling</td><td>7</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>5</td><td>Log/Pole</td><td>10</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	5	Pole/Sapling	7		Red Maple	15	Pole	8		Quaking Aspen	65	Pole/Log	8	40	White Pine	2	Log	16		Black Cherry	5	Pole	6		Red Oak	3	Pole/Sapling	7		Bigtooth Aspen	5	Log/Pole	10		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Beech</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Ironwood</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Serviceberry (Juneberry)</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Amur Honeysuckle</td><td>Trace</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	Low	Variable	Variable	Ironwood	Medium	Variable	Variable	Serviceberry (Juneberry)	Medium	5 - 10 feet	5 - 10 feet	Amur Honeysuckle	Trace	5 - 10 feet	5 - 10 feet					
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117	310 - Herbaceous Openland	None	1.0			No	Old well site																																																														



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118	310 - Herbaceous Openland	None	0.8				No																																																																																											
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119	42110 - Planted Red Pine	Sawtimber Well	1.1	77	201+		N/A	Unthinned red pine stand. Protect witness post with any treatment.																																																																																										
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120	42110 - Planted Red Pine	Sawtimber Well	4.3	80	171-200		N/A	Stand was second thinned in 1994 and third thinned in 2010 (M-115 Red #63-030-08.) 200160180																																																																																										
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121	4319 - Mixed Upland Forest	Sawtimber Well	24.5	77	141-170		N/A	Mixture of mature hardwood and scattered red pine plantation. Portions of the pine have been thinned. Some portions are mostly pine with others mature hardwood. Hilly. 160180100200140																																																																																										
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122	4130 - Aspen	Poletimber Well	14.6	32	81-110		N/A	Stand was final harvested in 1994. Appears to have been a mixed aspen/hardwood stand prior to harvest.																																																																																										
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123	4110 - Sugar Maple Association	Sawtimber Well	10.4	106	81-110	N/A	Stand was thinned previously before being aquired by the state. Stand is entirely on a hill snd slopes north to 8 road. Handful of old skid trails. Plenty of room for remaining crop trees, limited crown competition, seedlings are being tended nicely.																																																																	
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124	4110 - Sugar Maple Association	Sawtimber Well	31.5	91	111-140	N/A	Stand is a nice mix of sawlog and pulp trees. NE corner of stand is heavy sugar maple and ironwood saplings. Ironwood dominates in the gaps created last entry. Stand treated with N Nelson Hardwoods (63-14-08-01) - spring 2012 (Hand Cut). All aspen and ironwood was cut. Trespass occurred with road and a gate was put in place by logger for the landowner.																																																																	
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>45</td><td>Log/XLog</td><td>16</td><td>91</td></tr><tr><td>Basswood</td><td>10</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Beech</td><td>5</td><td>Log</td><td>16</td><td></td></tr><tr><td>Black Cherry</td><td>9</td><td>Log</td><td>10</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td>Log/Pole</td><td>12</td><td></td></tr><tr><td>White Pine</td><td>1</td><td>XLog/Log</td><td>18</td><td></td></tr><tr><td>Sugar Maple</td><td>20</td><td>Pole</td><td>9</td><td>45</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	45	Log/XLog	16	91	Basswood	10	Log/Pole	10		Beech	5	Log	16		Black Cherry	9	Log	10		Red Maple	10	Log/Pole	12		White Pine	1	XLog/Log	18		Sugar Maple	20	Pole	9	45	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Ironwood</td><td>Full</td><td>Variable</td><td>Variable</td></tr><tr><td>Autumn Olive</td><td>Trace</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Hemlock</td><td>Trace</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Ash (spp.)</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Beech</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Sugar Maple</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Full	Variable	Variable	Autumn Olive	Trace	5 - 10 feet	5 - 10 feet	Hemlock	Trace	10 - 20 feet	10 - 20 feet	Ash (spp.)	Medium	Variable	Variable	Beech	Low	5 - 10 feet	5 - 10 feet	Sugar Maple	Medium	5 - 10 feet	5 - 10 feet
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125	4130 - Aspen	Poletimber Well	3.0	55	81-110	N/A	Stand occurs on a hillside.																																																																	
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126	4112 - Maple, Beech, Cherry Association	Poletimber Well	1.9	75	51-80	N/A	Small semi open area																																																																	
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White Pine	5	Pole	8																																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																				
127	4119 - Mixed Northern Hardwoods	Sawtimber Well	22.3	86	81-110	N/A	Open grown characteristics on some larger trees with hilly terrain. Scattered small aspen clones.																																																																				
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>40</td><td>Log/Pole</td><td>10</td><td>86</td></tr><tr><td>Red Maple</td><td>15</td><td>Pole/Log</td><td>9</td><td></td></tr><tr><td>Basswood</td><td>10</td><td>Log/Pole</td><td>13</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>15</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Black Cherry</td><td>10</td><td>Log/Pole</td><td>11</td><td></td></tr><tr><td>Ironwood</td><td>5</td><td>Pole</td><td>7</td><td></td></tr><tr><td>American Elm</td><td>5</td><td>Pole</td><td>8</td><td></td></tr></table>					Canopy Species	% Cover		Size Class	DBH	Age	Sugar Maple	40	Log/Pole	10	86	Red Maple	15	Pole/Log	9		Basswood	10	Log/Pole	13		Bigtooth Aspen	15	Log/Pole	10		Black Cherry	10	Log/Pole	11		Ironwood	5	Pole	7		American Elm	5	Pole	8		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Sugar Maple</td><td>High</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Sugar Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Witch Hazel</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Ironwood</td><td>Low</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>Ironwood</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Black Cherry</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	High	< 5 feet	< 5 feet	Sugar Maple	Low	Variable	Variable	Witch Hazel	Low	5 - 10 feet	5 - 10 feet	Ironwood	Low	>20 feet	>20 feet	Ironwood	Low	Variable	Variable	Black Cherry	Medium	< 5 feet	< 5 feet
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128	122 - Road/Parking Lot	None	0.5			No	16 rd																																																																				