



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41106

Entry Year 2023

Acreage: 3,203

County Schoolcraft

Management Area: Danaher Kingston Outwash

Stand Examiner: Scott Kentner

Legal Description:

T47N R13W Sections 24-26, 35 & 36

Identified Planning Goals:

To manage the compartment in accordance with the principles of sustainable forest ecosystem management, with emphasis on timber production, maintaining & enhancing wildlife habitat, and protection of riparian areas.

Soil and topography:

The compartment has rolling to flat terrain. There are some places where frost pockets do occur. The majority of the soil is sandy supporting hardwood and pine species.

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

This compartment is surrounded by other state land with no private land bordering it.

Unique Natural Features:

This compartment has a complex of pine and open land making the area suitable habitat for Sharptail Grouse.

Archeological, Historical, and Cultural Features:

Many old grades from early logging are found in the compartment.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

No treatments are prescribed near water, so Fisheries Division has no comments at this time.

Wildlife Habitat Considerations:

This compartment is located within the Grand Marais Sandy End Moraine Outwash sub-subsection. The average growing season is approximately 120 days. The extreme winter temperature generally reaches approximately -35 F. Snowfall in this compartment averages 160 inches or more annually. General Land Office (GLO) Surveyor notes indicate that the upland forest contained a mixture of softwood and hardwoods. Principle species included white pine, hemlock, yellow birch, beech, balsam fir, and red maple. Many comments were made about the amount of fallen timber and the thick understory of balsam fir, red maple and mountain ash. Windthrow and fire were likely the major sources of natural disturbance. Subsequent to the first logging era, slash fires consumed most of the organic matter in the soils. This resulted in large grass covered openings. Reforestation efforts and natural succession has produced the current forest cover which is dominated by pine plantations, grassy openings, and aspen types. In this respect it shows little resemblance to the forest found circa 1850. Wildlife habitat objectives include allowing some of the grassy areas to succeed back into a natural forest cover while maintaining an open characteristic through the use of clearcuts in other areas. Additionally, some of the presettlement tree species mix will be restored through the planting of white pine within hardwood stands.

Gray wolves (Federal and Michigan endangered) and sharp-tailed grouse (Michigan special concern) are known to inhabit this area. Other species of interest include the upland sandpiper, sandhill crane, meadow vole, and coyote.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. There is 40 feet of local relief in the compartment. There is insufficient data to determine the glacial drift thickness. The Ordovician Utica and Collingwood Shales and Trenton Group subcrop below the glacial drift. The Trenton is used for dolomite/stone elsewhere in the UP. Gravel pits are not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

Most of this compartment is accessible via county road, Two Track or Snowmobile trail.

Survey Needs:**Recreational Facilities and Opportunities:**

The Danaher ORV Trail and the Snowmobile trail (Seney Club) are both within the compartment.

Fire Protection:

: This compartment is sandy with a lot of pine and other flammable fuel types. This compartment is also vary close to the Seney FO and has good road access making large fires somewhat less likely.

Additional Compartment Information:

The following reports from the Inventory are attached:

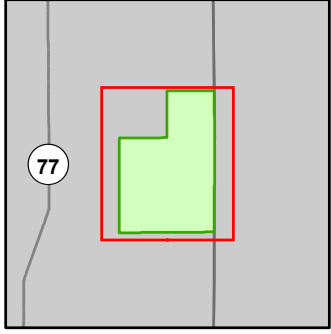
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

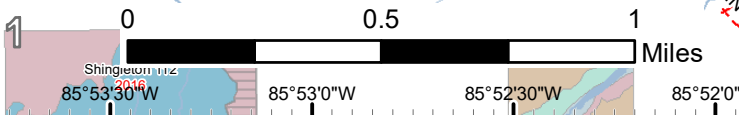
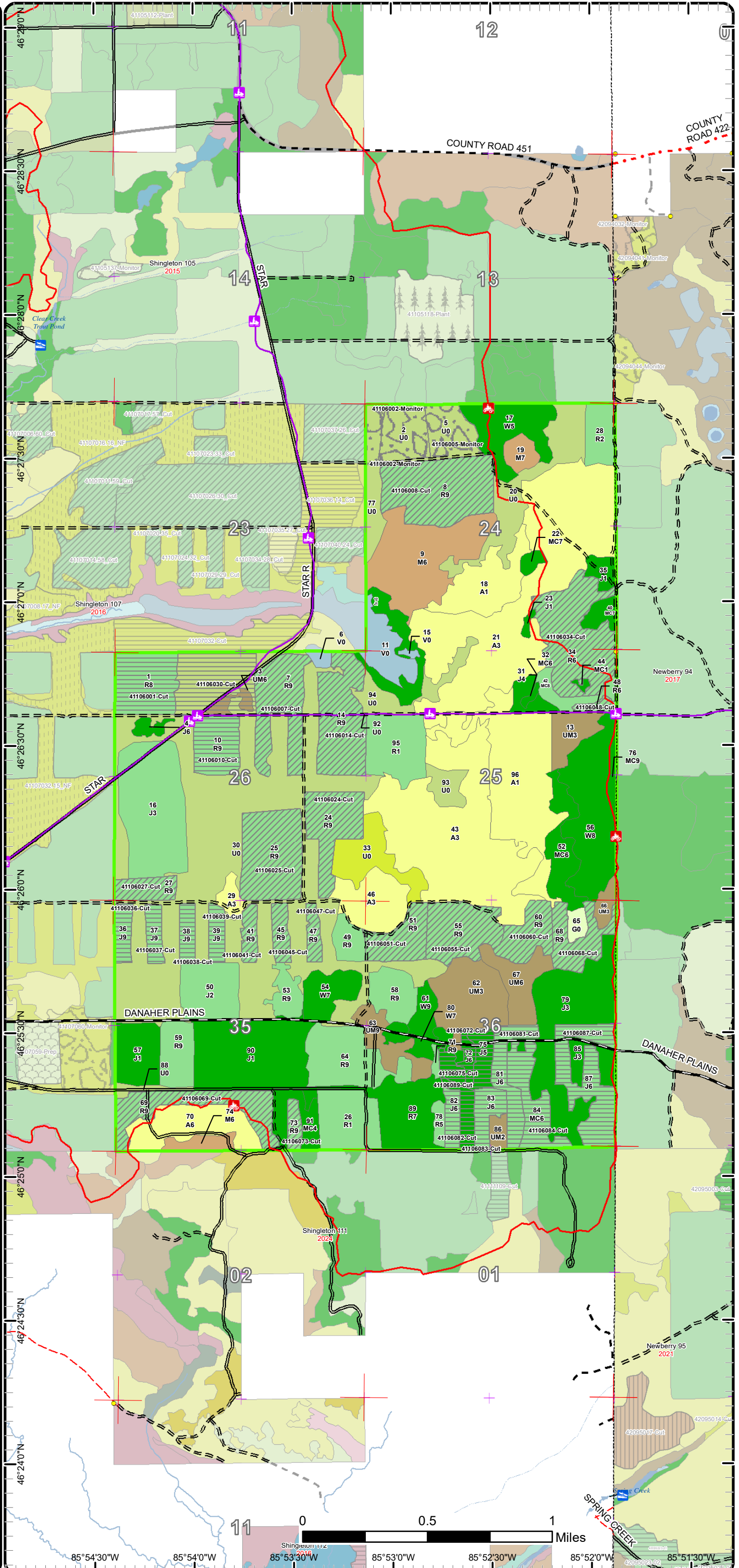
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 106
 T47N, R13W, Sec. 24-26, 35, 36
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Danaher Kingston
 Outwash
 YOE: 2023
 Acres: 3202.9 GIS Calculated
 Examiner: Scott Kentner
 Map Revised: 1/28/2022
 Map Phase: Post Review

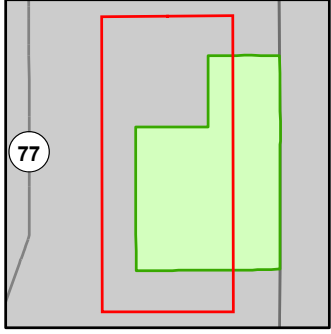


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- ORV Trails
- Snowmobile Trails
- Designated ATV
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub

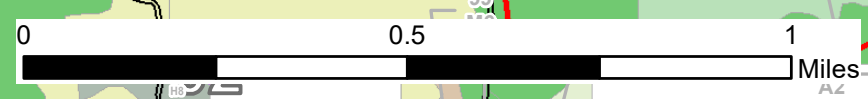
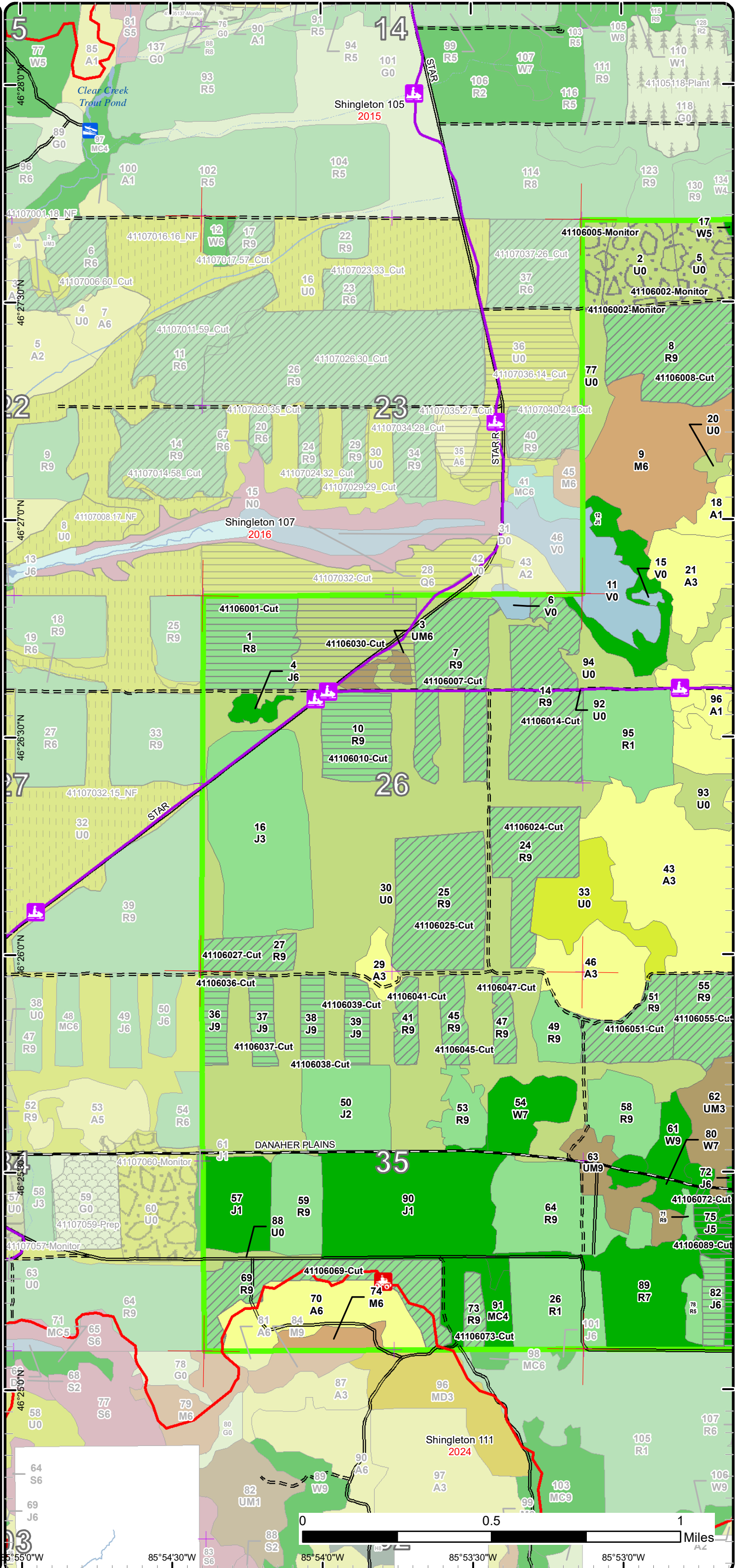


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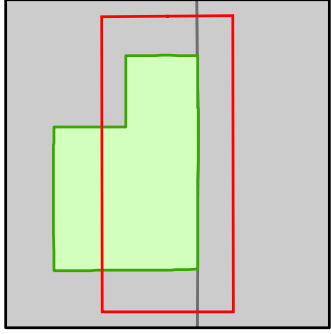
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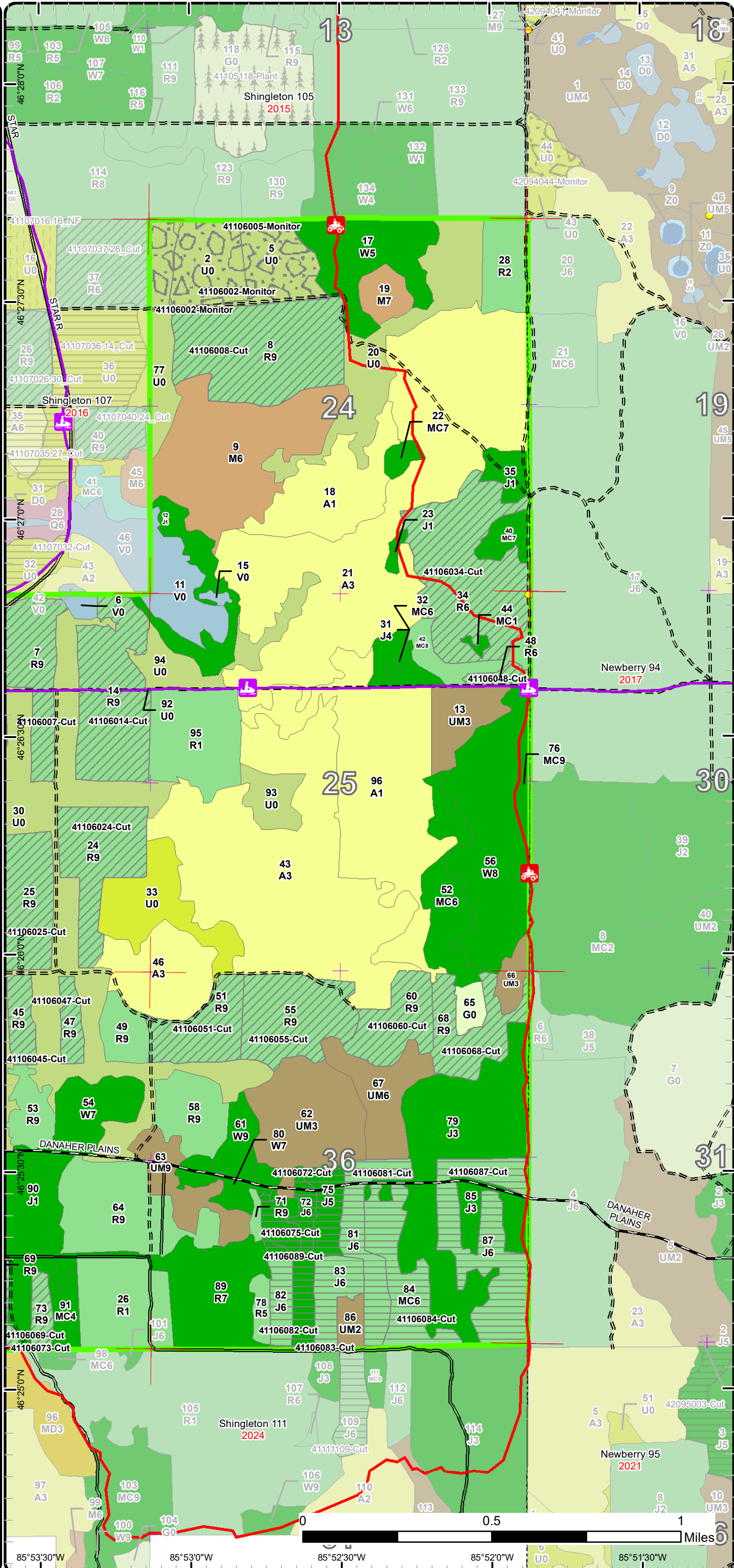
85°55'0"W 85°54'30"W 85°54'0"W 85°53'30"W 85°53'0"W

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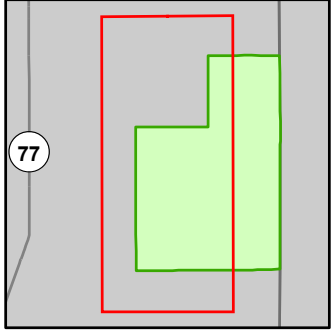


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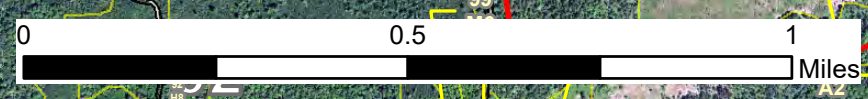
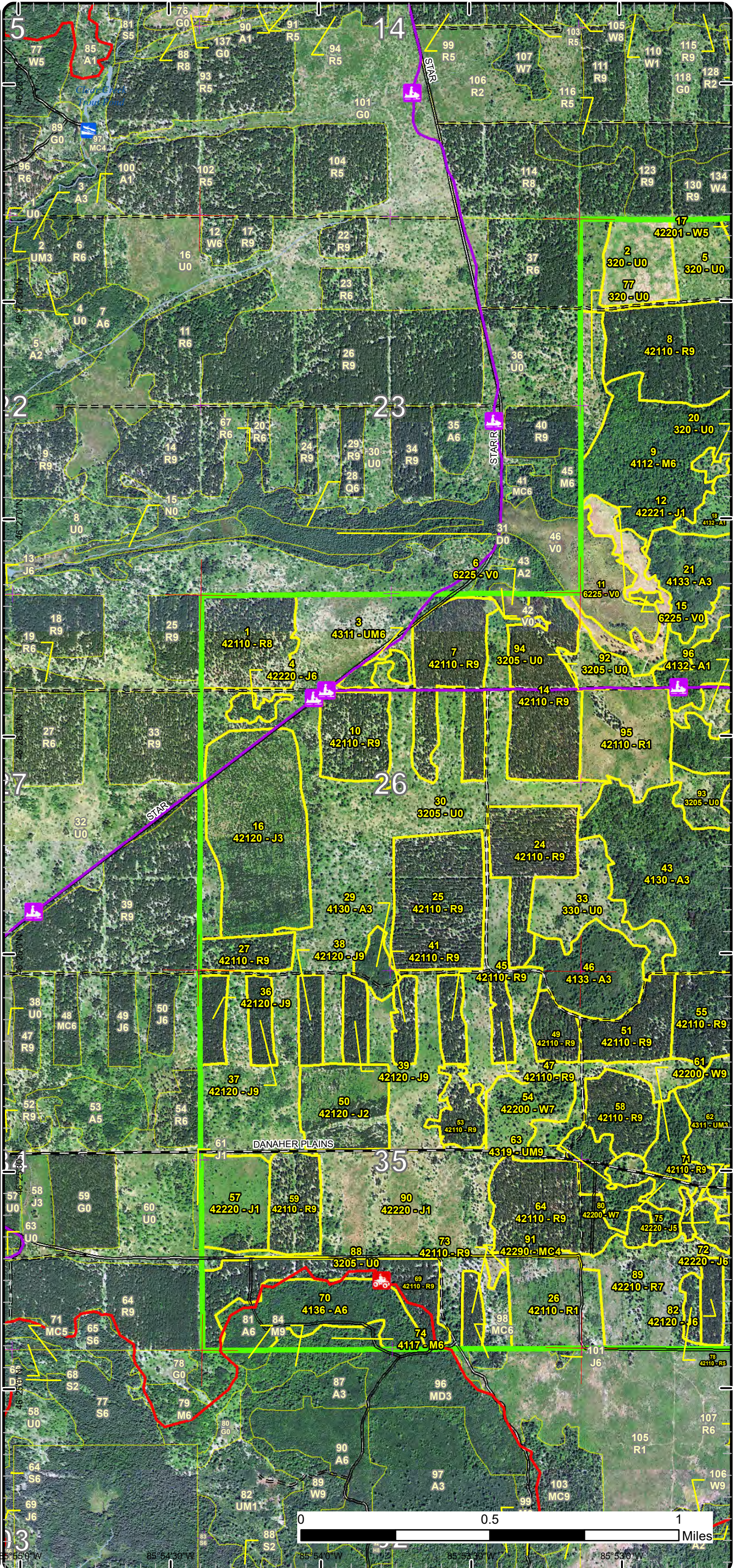


Stand Boundary Map

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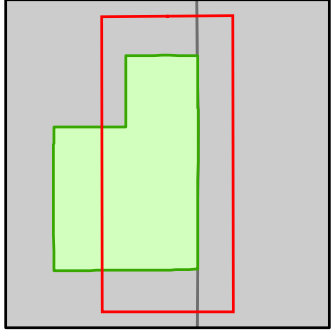
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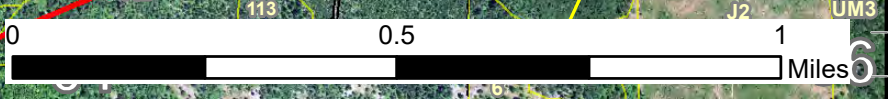
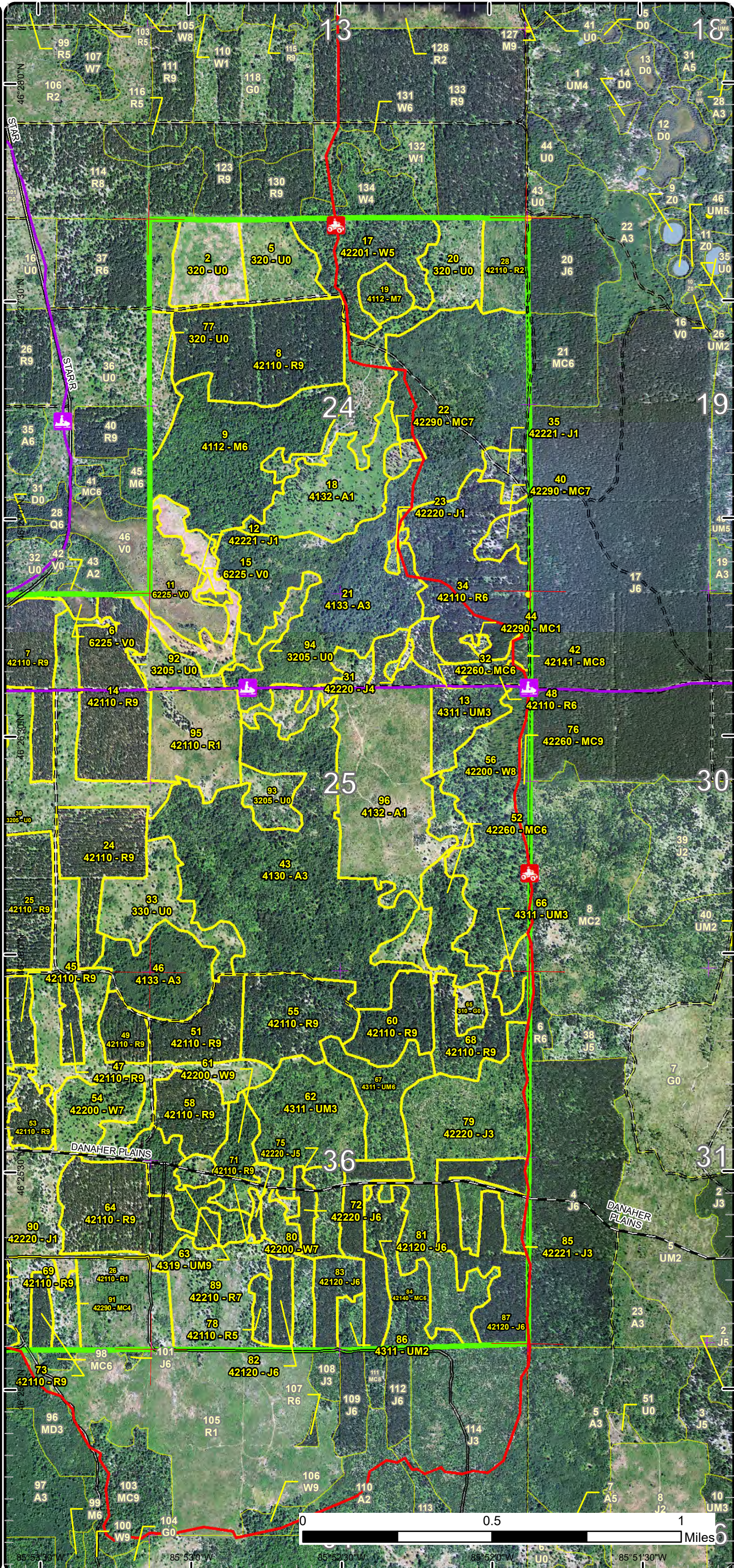
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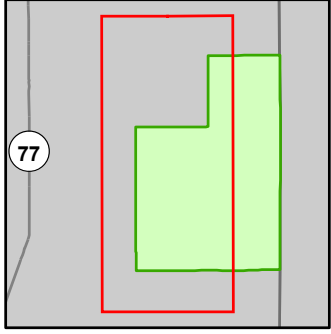


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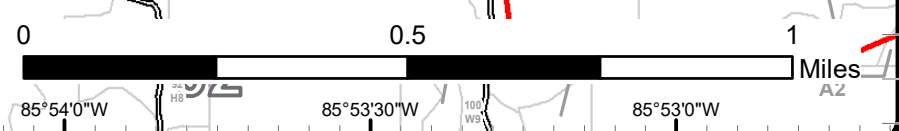
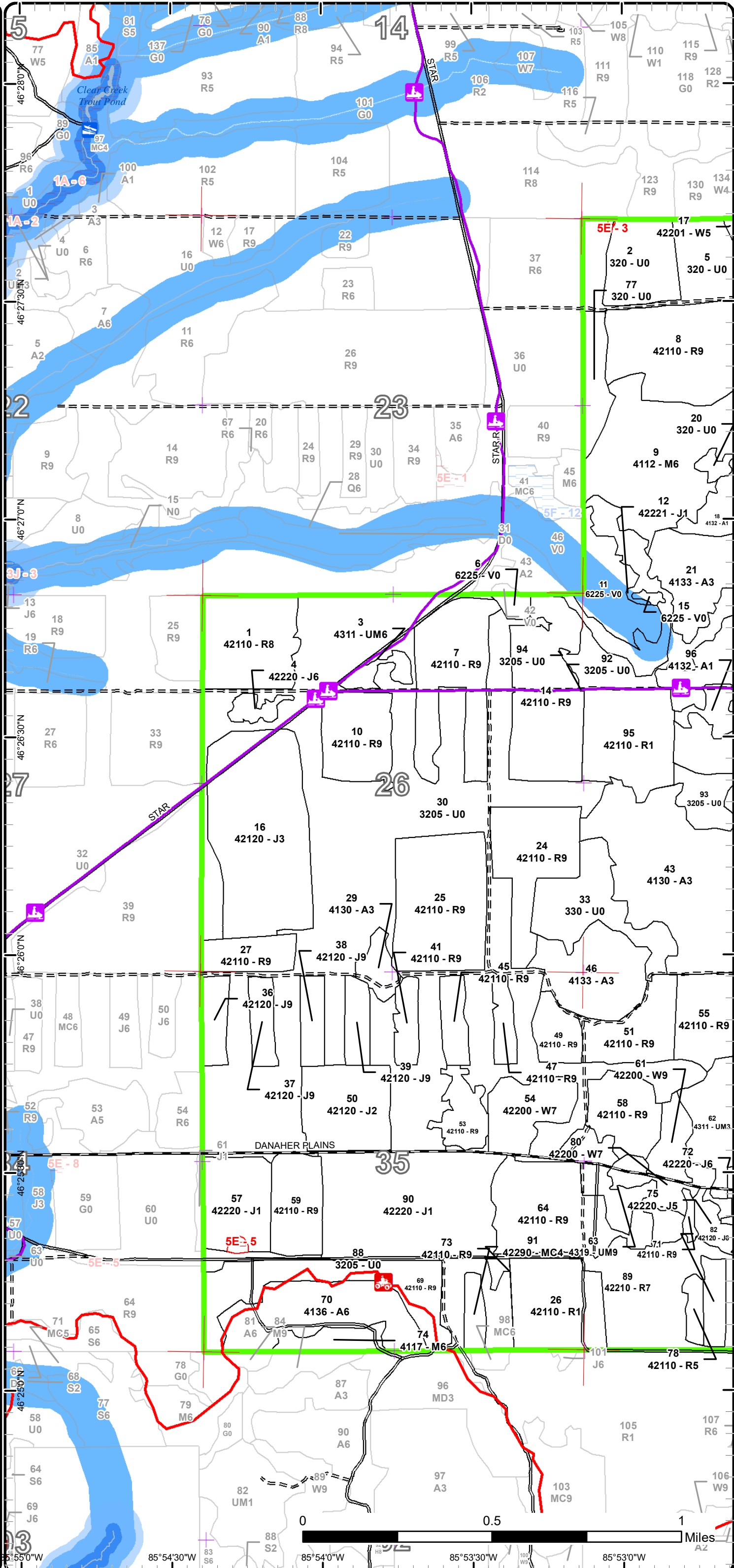


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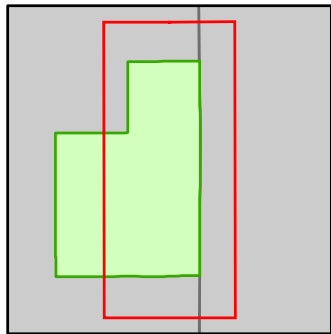


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- Compartment Boundary
- Unavailable
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

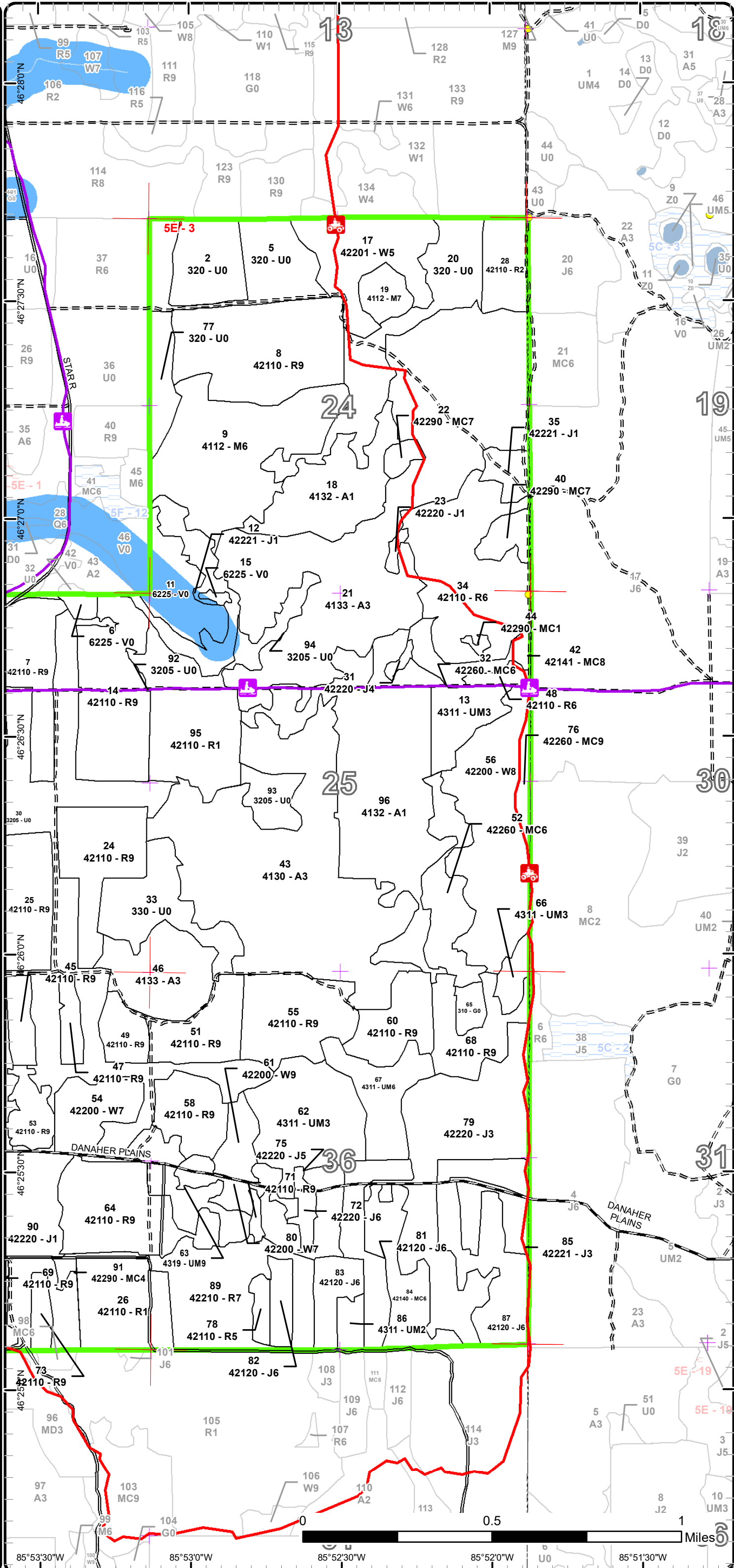


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85°53'30"W 85°53'0"W 85°52'30"W 85°52'0"W 85°51'30"W

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	42	0	0	296	172	0	0	0	0	0	0	0	0	0	0	0	111	621
Bog	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Jack Pine	0	137	0	238	0	0	104	40	0	0	0	0	0	0	0	0	0	13	532
Low-Density Trees	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Natural Mixed Pines	0	0	0	0	10	29	20	0	0	12	0	0	0	0	0	0	0	10	79
Northern Hardwood	0	0	0	0	0	81	0	0	10	0	10	0	0	0	0	0	0	0	101
Planted Mixed Pines	0	0	0	0	0	0	28	13	0	0	0	0	0	0	0	0	0	0	41
Red Pine	0	0	58	37	0	0	7	630	39	112	0	0	0	0	0	0	0	0	882
Upland Mixed Forest	0	0	0	55	0	32	27	0	0	22	0	0	0	0	0	0	0	0	136
Upland Shrub	576	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	576
White Pine	0	0	0	0	0	0	0	0	56	106	0	0	0	0	0	0	0	0	162
Total	646	179	58	330	306	314	186	683	105	252	10	0	0	0	0	0	0	134	3200



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 106

Total Compartment Acres: 3,203

Commercial Harvest - 843
 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
Jack Pine	148	0	0	0	0	0	0	0	0	148
Planted Mixed Pines	28	0	0	0	0	0	0	0	0	28
Red Pine	77	0	0	0	539	0	0	0	0	616
Upland Shrub	51	0	0	0	0	0	0	0	0	51
Total	304	0	0	0	539	0	0	0	0	843

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	843	0	0	0	0	62	0	0	0	905
Next Step	0	392	275	0	117	579	0	0	0	1363
Total	843	392	275	0	117	640	0	0	0	2267



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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Approved Treatments:

1	41106001-Cut	38.9	42110 - Planted Red Pine	Sawtimber Medium	82	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with Retention: Harvest all species down to 2", leaving retention in pocket along edge of the stand.

Specs:

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

Acceptable Red Pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

2	41106002- Monitor	25.7	320 - Upland Shrub	Nonstocked	0	Unspec ified	Monitoring	Artificial Regen(3yr)	42110 - Planted Red Pine	Two-Aged	No
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Prescription regen check

Specs:

Next Step

Treatments:

Acceptable Plantation red pine

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

5	41106005- Monitor	35.8	320 - Upland Shrub	Nonstocked		Unspec ified	Monitoring	Artificial Regen(3yr)	42110 - Planted Red Pine	Even-Aged	No
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Prescription regen check

Specs:

Next Step

Treatments:

Acceptable red pine

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



Stand Name	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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7	41106007-Cut	46.3	42110 - Planted Red Pine	Sawtimber Well	64	111- 140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 2nd Entry Thinning: Mark stand down to BA of 110 -120, by focusing on the removal of poor form trees and leaving future crop trees.

Specs:

Next Step

Treatments:

Acceptable Red Pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

8	41106008-Cut	67.9	42110 - Planted Red Pine	Sawtimber Well	65	201+	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 2nd Entry Thinning: Mark stand down to BA of 110 -120, by focusing on the removal of poor form trees and leaving future crop trees.

Specs:

Next Step

Treatments:

Acceptable Red Pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

10	41106010-Cut	27.3	42110 - Planted Red Pine	Sawtimber Well	61	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut with Retention: Remove all species of trees down to 2", leaving retention in pocket along the edge of stand.

Specs:

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

Treatments: Regen(3yr); SitePrep, Roller Chopping

Acceptable Red pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

14	41106014-Cut	52.8	42110 - Planted Red Pine	Sawtimber Well	64	111- 140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 2nd Entry Thinning: Mark stand down to BA of 110 -120, by focusing on the removal of poor form trees and leaving future crop trees.

Specs:

Next Step

Treatments:

Acceptable Red Pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

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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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24	41106024-Cut	37.0	42110 - Planted Red Pine	Sawtimber Well	64	111- 140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 2nd Entry Thinning: Mark stand down to BA of 110 -120, by focusing on the removal of poor form trees and leaving future crop trees.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

25	41106025-Cut	55.0	42110 - Planted Red Pine	Sawtimber Well	64	111- 140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 2nd Entry Thinning: Mark stand down to BA of 110 -120, by focusing on the removal of poor form trees and leaving future crop trees.

Specs:

Next Step

Treatments:

Acceptable Red pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

27	41106027-Cut	14.4	42110 - Planted Red Pine	Sawtimber Well	81	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 1st Entry Thinning: Remove 1/3 of stand, by marking every third row to create access. If rows are not present, create access row, again by removing 1/3 of the stand's BA

Specs:

Next Step

Treatments:

Acceptable Red Pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

30	41106030-Cut	51.2	3205 - Mixed Upland Shrub	Nonstocked		Unspec ified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut stand down to 2" removing all species.

Specs:

Next Step

Treatments:

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

Acceptable Red pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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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34	41106034-Cut	70.9	42110 - Planted Red Pine	Poletimber Well	63	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 1st Entry Thinning: Remove 1/3 of stand, by marking every third row to create access. If rows are not present, create access row, again by removing 1/3 of the stand's BA

Specs:
Next Step
Treatments:

Acceptable Red Pine
Regen:

Other ORV Trail runs thru stand and should be protected.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

36	41106036-Cut	10.4	42120 - Planted Jack Pine	Sawtimber Well	68	111- 140	Harvest	Clearcut	3102 - Grass		No
-----------	---------------------	------	------------------------------	-------------------	----	-------------	---------	----------	--------------	--	----

Prescription Clearcut with Retention: Remove all species down to 2".
Specs:

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

Acceptable non-forested
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

37	41106037-Cut	9.7	42120 - Planted Jack Pine	Sawtimber Well	68	141- 170	Harvest	Clearcut	3102 - Grass		No
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Prescription Clearcut: Remove all species down to 2"
Specs:

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

Acceptable non-forested
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

38	41106038-Cut	9.8	42120 - Planted Jack Pine	Sawtimber Well	68	111- 140	Harvest	Clearcut	3102 - Grass		No
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Prescription Clearcut: Remove all species down to 2".
Specs:

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

Acceptable non-forested
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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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39	41106039-Cut	9.7	42120 - Planted Jack Pine	Sawtimber Well	68	111- 140	Harvest	Clearcut	3102 - Grass	No
-----------	---------------------	-----	------------------------------	-------------------	----	-------------	---------	----------	--------------	----

Prescription Clearcut: Remove all species down to 2",
Specs:

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

Acceptable non-forested
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

41	41106041-Cut	8.9	42110 - Planted Red Pine	Sawtimber Well	68	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 1st Entry Thinning: Remove 1/3 of stand, by marking every third row to create access. If rows are not present, create access row, again by
Specs: removing 1/3 of the stand's BA

Next Step
Treatments:

Acceptable Red Pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

45	41106045-Cut	10.0	42110 - Planted Red Pine	Sawtimber Well	68	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 1st Entry Thinning: Remove 1/3 of stand, by marking every third row to create access. If rows are not present, create access row, again by
Specs: removing 1/3 of the stand's BA

Next Step
Treatments:

Acceptable red Pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

47	41106047-Cut	7.9	42110 - Planted Red Pine	Sawtimber Well	68	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	-----	-----------------------------	-------------------	----	-------------	---------	------------------------	----------------------------	-----------	----

Prescription 1st Entry Thinning: Remove 1/3 of stand, by marking every third row to create access. If rows are not present, create access row, again by
Specs: removing 1/3 of the stand's BA.

Next Step
Treatments:

Acceptable Red pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022



Stand Name	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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48	41106048-Cut	4.8	42110 - Planted Red Pine	Poletimber Well	63	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 1st Entry Thinning: Remove 1/3 of stand, by marking every third row to create access. If rows are not present, create access row, again by
Specs: removing 1/3 of the stand's BA

Next Step
Treatments:

Acceptable red Pine
Regen:

Other ORV Trail runs thru stand and should be protected.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

51	41106051-Cut	25.1	42110 - Planted Red Pine	Sawtimber Well	62	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 1st Entry Thinning: Remove 1/3 of stand, by marking every third row to create access. If rows are not present, create access row, again by
Specs: removing 1/3 of the stand's BA

Next Step
Treatments:

Acceptable Red Pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

55	41106055-Cut	39.4	42110 - Planted Red Pine	Sawtimber Well	73	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 1st Entry Thinning: Remove 1/3 of stand, by marking every third row to create access. If rows are not present, create access row, again by
Specs: removing 1/3 of the stand's BA

Next Step
Treatments:

Acceptable Red pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

60	41106060-Cut	23.9	42110 - Planted Red Pine	Sawtimber Well	62	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 1st Entry Thinning: Remove 1/3 of stand, by marking every third row to create access. If rows are not present, create access row, again by
Specs: removing 1/3 of the stand's BA

Next Step
Treatments:

Acceptable Red pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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
68 41106068-Cut	25.8	42110 - Planted Red Pine	Sawtimber Well	63	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> 1st Entry Thinning: Remove 1/3 of stand, by marking every third row to create access. If rows are not present, create access row, again by removing 1/3 of the stand's BA</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine</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 /2022</p>										
69 41106069-Cut	41.8	42110 - Planted Red Pine	Sawtimber Well	68	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> 1st Entry Thinning: Remove 1/3 of stand, by marking every third row to create access. If rows are not present, create access row, again by removing 1/3 of the stand's BA</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine</p> <p><u>Regen:</u></p> <p><u>Other</u> ORV trail run thru stand and should be protected .</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
72 41106072-Cut	6.1	42220 - Natural Jack Pine	Poletimber Well	57	81-110	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut: Cut all species on site, leave no retention due to forest health concerns.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen(3yr); SitePrep, Trenching; Monitoring, Artificial Regen(1yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine, aspen, red pine, white, spruce, red maple</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 /2022</p>										
73 41106073-Cut	6.8	42110 - Planted Red Pine	Sawtimber Well	68	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> 1st Entry Thinning: Remove 1/3 of stand, by marking every third row to create access. If rows are not present, create access row, again by removing 1/3 of the stand's BA</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine</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 /2022</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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75	41106075-Cut	18.9	42220 - Natural Jack Pine	Poletimber Medium	24	1-50	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
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Prescription Clearcut: Cut all species on site, leave no retention due to forest health concerns.

Specs:

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

Acceptable Regen: Jack pine with a representation of species currently on site.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

Site Condition

Proposed Start Date: 10/1 /2022

81	41106081-Cut	23.9	42120 - Planted Jack Pine	Poletimber Well	57	81-110	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
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Prescription Clearcut: Cut all species on site, leave no retention due to forest health concerns.

Specs:

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

Acceptable Regen: Jack pine with a representation of species currently on site.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

Site Condition

Proposed Start Date: 10/1 /2022

82	41106082-Cut	9.0	42120 - Planted Jack Pine	Poletimber Well	57	81-110	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
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Prescription Clearcut: Cut all species on site, leave no retention due to forest health concerns.

Specs:

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

Acceptable Regen: Jack pine with a representation of species currently on site.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

Site Condition

Proposed Start Date: 10/1 /2022

83	41106083-Cut	14.4	42120 - Planted Jack Pine	Poletimber Well	57	81-110	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
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Prescription Clearcut: Cut all species on site, leave no retention due to forest health concerns.

Specs:

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

Acceptable Regen: Jack pine with a representation of species currently on site.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

Site Condition

Proposed Start Date: 10/1 /2022



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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
84 41106084-Cut	28.3	42140 - Planted Mixed Pine	Poletimber Well	58	51-80	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut: Cut all species on site, leave no retention due to forest health concerns. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Initial Plant <u>Treatments:</u> <u>Acceptable</u> Jack pine with a representation of species currently on site. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
87 41106087-Cut	45.5	42120 - Planted Jack Pine	Poletimber Well	57	81-110	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut: Cut all species on site, leave no retention due to forest health concerns. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Initial Plant <u>Treatments:</u> <u>Acceptable</u> Jack pine with a representation of species currently on site. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
89 41106089-Cut	11.0	42210 - Natural Red Pine	Sawtimber Poor	81	1-50	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut: Cut all species on site, leave no retention due to forest health concerns. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Treatments:</u> <u>Acceptable</u> Jack pine with a representation of species currently on site. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment 914.3
Acreage Proposed:

Report 4 – Site Conditions

Shingleton Mgt. Unit
Scott Kentner : Examiner

Compartment: 106
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions	5E
621	621	0	0	Aspen	
29	29	0	0	Bog	
6	6	0	0	Herbaceous Openland	
532	531	0	1	Jack Pine	1
35	35	0	0	Low-Density Trees	
79	79	0	0	Natural Mixed Pines	
102	102	0	0	Northern Hardwood	
42	42	0	0	Planted Mixed Pines	
883	883	0	0	Red Pine	
137	137	0	0	Upland Mixed Forest	
575	575	0	0	Upland Shrub	0
162	162	0	0	White Pine	
3,203	3,201		2	Total Forested Acres	2
	100%		0%	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
3	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
1	42110 - Planted Red Pine	Sawtimber Medium	38.9	82	1-50	N/A	Failed red pine plantation. Luce Line pulpwood 036-13 unit 1 TCR - 1/5/16																																
<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>98</td> <td>Log</td> <td>10</td> <td>82</td> </tr> <tr> <td>Jack Pine</td> <td>2</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	98	Log	10	82	Jack Pine	2	Pole/Log	8		<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>Black Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	5 - 10 feet	Sapling													
Canopy Species	% Cover	Size Class	DBH	Age																																			
Red Pine	98	Log	10	82																																			
Jack Pine	2	Pole/Log	8																																				
Sub-Canopy Species	Density	Avg. Height	Size																																				
Black Cherry	Low	5 - 10 feet	Sapling																																				
2	320 - Upland Shrub	Nonstocked	26.1	0	Unspecified	4211 - Planted Red Pine	Site was trenched fall of 2017 by DNR staff. Site planted spring 2018 to RP. 1st year check failed. needs spray, then replant. Site was sprayed summer 2019. Trenched in 2019. Needs initial planting again. Planted spring 2021 passed 1st year check 2021.																																
3	4311 - Pine, Aspen Mix	Poletimber Well	5.7	43	1-50	N/A																																	
<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>White Pine</td> <td>5</td> <td>Pole/Sap/Log</td> <td>6</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>50</td> <td>Pole/Sapling</td> <td>6</td> <td>43</td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Pole/Sap/Log</td> <td>6</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>35</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	5	Pole/Sap/Log	6		Quaking Aspen	50	Pole/Sapling	6	43	Red Pine	5	Pole/Sap/Log	6		Red Maple	5	Sapling/Pole	3		Jack Pine	35	Sapling/Pole	4									
Canopy Species	% Cover	Size Class	DBH	Age																																			
White Pine	5	Pole/Sap/Log	6																																				
Quaking Aspen	50	Pole/Sapling	6	43																																			
Red Pine	5	Pole/Sap/Log	6																																				
Red Maple	5	Sapling/Pole	3																																				
Jack Pine	35	Sapling/Pole	4																																				
4	42220 - Natural Jack Pine	Poletimber Well	5.1	50	51-80	N/A	This is a jack pine stand that is a mix of ages, sizes heights and diameters.																																
<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>Jack Pine</td> <td>96</td> <td>Pole</td> <td>6</td> <td>50</td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>2</td> <td>Pole</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	96	Pole	6	50	Red Pine	2	Pole	6		Quaking Aspen	2	Pole	6																			
Canopy Species	% Cover	Size Class	DBH	Age																																			
Jack Pine	96	Pole	6	50																																			
Red Pine	2	Pole	6																																				
Quaking Aspen	2	Pole	6																																				
5	320 - Upland Shrub	Nonstocked	36.6		Unspecified	4211 - Planted Red Pine	Planted spring 2015 to red pine. Regen survey needs to be done. 3rd year check done. Parts of stand never planted. Site needs to be started over. large trees need to be cut odwn before areail spraying can take place, then new treches and planting can happen. Site was sprayed summer 2019. Trenching done 2019. Planted spring 2021. passed 1st year check 2021.																																
6	6225 - Bog	Nonstocked	3.4			No																																	
7	42110 - Planted Red Pine	Sawtimber Well	46.3	64	111-140	N/A	Nice looking red pine with good rows. 41-020-14-01, Money shot red pine cut in 2016, 1st thinning.																																
<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>Quaking Aspen</td> <td>2</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>96</td> <td>Log</td> <td>10</td> <td>64</td> </tr> <tr> <td>Black Cherry</td> <td>2</td> <td>Pole</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	2	Pole	6		Red Pine	96	Log	10	64	Black Cherry	2	Pole	6		<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>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	Variable	Sapling	Jack Pine	Low	Variable	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																			
Quaking Aspen	2	Pole	6																																				
Red Pine	96	Log	10	64																																			
Black Cherry	2	Pole	6																																				
Sub-Canopy Species	Density	Avg. Height	Size																																				
Black Cherry	Low	Variable	Sapling																																				
Jack Pine	Low	Variable	Sapling																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8	42110 - Planted Red Pine	Sawtimber Well	67.9	65	201+	N/A	AN OLD GRADE RUNS THROUGH THE STAND. [5/5/04] Under contract TS # 030-03 Danaher Star Red Pine. Residual BA red pine = 95 sq.ft./acre. [5-30-08] Sale is completed TCR dtd 5-20-08.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	Pole	8	
Red Pine	90	Log	10	65
Jack Pine	3	Pole	8	
Red Maple	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	< 5 feet	Sapling

9	4112 - Maple, Beech, Cherry Association	Poletimber Well	81.1	46	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Beech	5	Log	12	
Red Maple	30	Pole	7	
Black Cherry	10	Pole	8	
White Spruce	15	Pole	9	
Sugar Maple	35	Pole	7	46
White Pine	5	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	5 - 10 feet	Sapling
Balsam Fir	Full	5 - 10 feet	Sapling
Red Maple	Low	5 - 10 feet	Sapling
Hemlock	Low	5 - 10 feet	Sapling

10	42110 - Planted Red Pine	Sawtimber Well	27.3	61	81-110	N/A	Red pine plantation, failed in places trees are short branchy and fat.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	96	Log	10	61
Jack Pine	2	Log	10	
Quaking Aspen	2	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	< 5 feet	Sapling
Jack Pine	Low	< 5 feet	Sapling
Quaking Aspen	Low	< 5 feet	Sapling

11	6225 - Bog	Nonstocked	24.5			No	
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12	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Poor	24.5	7	Immature	N/A	Star junction sale 035-13. TCR 1-6/16 unit 1 SCarified summer 2016 by DNR staffPassed regen check fall 2019.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	4	Sapling	1	
Red Pine	3	Sapling	1	
Quaking Aspen	30	Sapling	1	
White Pine	1	Sapling	1	
Jack Pine	60	Sapling	1	7
Red Maple	2	Sapling	1	

13	4311 - Pine, Aspen Mix	Sapling Well	19.1	43	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	10	Sapling	4	
Red Pine	5	Pole	6	
Quaking Aspen	40	Sapling	4	43
Jack Pine	40	Sapling	4	
White Pine	5	Pole	5	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
14	42110 - Planted Red Pine	Sawtimber Well	52.8	64	111-140	N/A	pine plantation good row and density. 41-020-14-01, Money shot red pine. 1st thinning																																																			
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Red Pine	100	Log/Pole	12	64																																																						
15	6225 - Bog	Nonstocked	1.3			No																																																				
16	42120 - Planted Jack Pine	Sapling Well	84.4	26	51-80	N/A	cut in '96. Originally planted in 1927 cut once in '52. THIS STAND HARBORS A FUNGI AND AN ASSOCIATED MYCORHIZA WHICH IS UNIQUE TO THE JACK PINE GROWING IN THIS STAND.																																																			
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17	42201 - Natural White Pine, Mixed Deciduous	Poletimber Medium	41.8	77	1-50	N/A	41-035-13-01 unit 4. TCR 1/5/16																																																			
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18	4132 - Aspen, Jack Pine	Sapling Poor	42.3	5	Immature	N/A	Stand was Clear-cut In Star junction pine and Aspen Sale. Stand trenched 5/15/16, and partially filled with JP Don Kuhr had left over from a nearby site. Planted fully Spring 2017 with JP. stand is a fully stocked Aspen stand with Jack intermixed that were planted.																																																			
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20	320 - Upland Shrub	Nonstocked	51.5		Unspecified	4211 - Planted Red Pine	FTP: 1561 Planted spring 2015, needs regen check. Regen failed in 2016, Partial completion for planting done in summer 2016. Replanted spring 2017. passed third year check spring 2021.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
21	4133 - Aspen, Mixed Pine	Sapling Well	207.4	31	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		20	Pole/Sapling	5		Quaking Aspen	Full	< 5 feet	Sapling
Quaking Aspen		65	Sapling	4	31	White Pine	Medium	5 - 10 feet	Sapling
Black Cherry		2	Sapling	2					
Red Pine		2	Sapling	1					
Red Maple		9	Sapling	3					
Jack Pine		2	Sapling	2					
22	42290 - Natural Mixed Pine	Sawtimber Poor	4.5	86	1-50	N/A	Unit 3 of Star Junction pine and Aspen sale. Trenched 5/15/16. Planted Spring 2017.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		50	Log	12	86	Red Pine	Low	< 5 feet	Sapling
White Pine		50	Log	12					
23	42220 - Natural Jack Pine	Sapling Poor	2.2	21	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		10	Sapling	3					
Jack Pine		80	Sapling	3	21				
White Pine		10	Sapling/Pole	4					
24	42110 - Planted Red Pine	Sawtimber Well	37.0	64	111-140	N/A	pine plantation, failed in places trees are short branchy and fat. Money shot Red pine. 41-020-14-01 1st thinning.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		2	Log	10		Black Cherry	Low	5 - 10 feet	Sapling
Red Pine		98	Log	10	64				
25	42110 - Planted Red Pine	Sawtimber Well	55.0	64	111-140	N/A	Red pine plantation, failed in places trees are short branchy and fat. 41-020-14-01 Money shot red pine. 1st thinning.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		2	Log	10	64	Black Cherry	Low	5 - 10 feet	Sapling
Red Pine		98	Log	10	64				
26	42110 - Planted Red Pine	Sapling Poor	36.8	24	1-50	N/A	Failed red pine plantation that is now 4" in diameter and about 15' to 20' tall.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		5	Sapling	3		White Pine	Low	< 5 feet	Sapling
Red Pine		75	Sapling	4	24				
Jack Pine		20	Sapling	4					
27	42110 - Planted Red Pine	Sawtimber Well	14.4	81	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		5	Log	10		Black Cherry	Medium	5 - 10 feet	Sapling
Red Pine		95	Log	12	81	Jack Pine	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
28	42110 - Planted Red Pine	Sapling Medium	19.0	16	1-50	N/A		
		Canopy Species	% Cover	Size Class	DBH	Age		
		Red Pine	70	Sapling	4	16		
		Quaking Aspen	3	Sapling	1			
		Black Cherry	2	Sapling	1			
		White Pine	3	Sapling	1			
		Red Maple	2	Sapling	1			
		Jack Pine	20	Sapling	3			
29	4130 - Aspen	Sapling Well	8.2	36	1-50	N/A		
		Canopy Species	% Cover	Size Class	DBH	Age		
		Quaking Aspen	97	Sapling	3	36		
		White Pine	3	Log	10			
30	3205 - Mixed Upland Shrub	Nonstocked	406.3		Unspecified	Managed Opening	stand is an agreed upon managed opening, with traded acres from passed timbered stands being consolidated into a large opening. areas include low density aspen, failed red pine plantations. trees are starting to regenerate through out stand.	
				Sub-Canopy Species	Density	Avg. Height		Size
				Black Cherry	Medium	5 - 10 feet		Sapling
31	42220 - Natural Jack Pine	Poletimber Poor	1.8	31	1-50	N/A		
		Canopy Species	% Cover	Size Class	DBH	Age		
		Quaking Aspen	10	Sapling	3			
		Jack Pine	90	Pole	5	31		
32	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	9.6	31	1-50	N/A		
		Canopy Species	% Cover	Size Class	DBH	Age		
		Quaking Aspen	37	Pole	5			
		Red Pine	8	Pole	7			
		Jack Pine	45	Pole	7	31		
		White Pine	10	Pole/Sap/Log	6			
		Sub-Canopy Species	Density	Avg. Height	Size			
		Jack Pine	Medium	5 - 10 feet	Sapling			
		White Pine	Low	5 - 10 feet	Sapling			
		Quaking Aspen	Medium	5 - 10 feet	Sapling			
33	330 - Low-Density Trees	Nonstocked	34.8			No		
34	42110 - Planted Red Pine	Poletimber Well	70.9	63	111-140	N/A		
		Canopy Species	% Cover	Size Class	DBH	Age		
		Red Pine	90	Pole	8	63		
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		Quaking Aspen	7	Sapling	4			
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		Red Pine	Low	5 - 10 feet	Sapling			
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35	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Poor	8.9	31	1-50	N/A																																
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40	42290 - Natural Mixed Pine	Sawtimber Poor	9.0	66	1-50	N/A																																
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41	42110 - Planted Red Pine	Sawtimber Well	8.9	68	81-110	N/A	Red pine plantation																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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42 42141 - Planted Mixed Pine, Mixed Deciduous Sawtimber Medium 13.2 68 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	6	Pole	7	
Red Pine	50	Log	10	68
White Pine	4	Pole	5	
Quaking Aspen	40	Pole	5	

43 4130 - Aspen Sapling Well 172.4 43 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	82	Sapling	4	43
White Pine	8	Sapling	4	
Paper Birch	3	Sapling	4	
Jack Pine	7	Sapling	4	

44 42290 - Natural Mixed Pine Sapling Poor 1.4 21 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	55	Sapling	4	21
White Pine	15	Sapling	4	
Jack Pine	30	Sapling	4	

45 42110 - Planted Red Pine Sawtimber Well 10.0 68 141-170 N/A Red pine plantation

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	2	Log	10	
Red Pine	98	Log	10	68

46 4133 - Aspen, Mixed Pine Sapling Well 35.9 36 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	6		White Pine	Low	< 5 feet	Sapling
Quaking Aspen	70	Sapling	4	36	Quaking Aspen	High	5 - 10 feet	Sapling
White Pine	20	Log	12					
Black Cherry	5	Pole	6					

47 42110 - Planted Red Pine Sawtimber Well 7.9 68 141-170 N/A Red pine plantation

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	98	Log	10	68
White Pine	2	Log	10	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
48	42110 - Planted Red Pine	Poletimber Well	4.8	63	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		10	Pole	6		White Pine	
White Pine		10	Pole	7		Quaking Aspen	
Quaking Aspen		10	Pole	6		Density	
Red Pine		70	Pole	8	63	Avg. Height	
						Size	
						5 - 10 feet	
						Sapling	
49	42110 - Planted Red Pine	Sawtimber Well	12.3	68	81-110	N/A	Stand was cut in 5/15 "Timbersale 35" 41-35-14-01
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		4	Pole	8		White Pine	
White Pine		5	Log	10		Red Maple	
Red Maple		10	Pole	6		Density	
Red Pine		81	Log	10	68	Avg. Height	
						Size	
						Variable	
						Sapling	
50	42120 - Planted Jack Pine	Sapling Medium	33.4	22	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		2	Sapling	1		White Pine	
Jack Pine		94	Sapling	4	22	Red Maple	
Black Cherry		2	Sapling	1		Density	
Red Maple		2	Sapling	1		Avg. Height	
						Size	
						Variable	
						Sapling	
51	42110 - Planted Red Pine	Sawtimber Well	25.1	62	141-170	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		98	Log	11	62	Red Maple	
Red Maple		2	Pole	6		Density	
						Avg. Height	
						Size	
						Variable	
						Sapling	
52	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	28.6	43	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		40	Pole	5	43	Black Cherry	
White Pine		17	Pole/Sapling	5		Density	
Red Pine		8	Pole/Sapling	5		Avg. Height	
Quaking Aspen		35	Sapling/Pole	4	43	Size	
						5 - 10 feet	
						Sapling	
53	42110 - Planted Red Pine	Sawtimber Well	13.3	68	51-80	N/A	pine plantation, failed in places trees are short branchy and fat.Cut in 5/15 "timbersale 35" 41-35-14-01
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		100	Log	12	68	Jack Pine	
						Density	
						Avg. Height	
						Size	
						Variable	
						Pole	
54	42200 - Natural White Pine	Sawtimber Poor	22.7	86	1-50	N/A	.Luce line pulpwood unit 2TCR - 1/5/16Trenched 5/15/16.planted summer 2016 with JP. 3rd year check done fall 2018, site passed with lots of aspen counted as volunteers.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		100	Log	14	86	Quaking Aspen	
						Jack Pine	
						Density	
						Avg. Height	
						Size	
						Full	
						5 - 10 feet	
						Sapling	
						Medium	
						< 5 feet	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
55	42110 - Planted Red Pine	Sawtimber Well	39.4	73	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		85	Log	10	73	White Pine	Low	5 - 10 feet	Sapling
Jack Pine		15	Pole	6		Jack Pine	Medium	5 - 10 feet	Sapling
						Quaking Aspen	Low	10 - 20 feet	Sapling
						Red Pine	Low	< 5 feet	Sapling
56	42200 - Natural White Pine	Sawtimber Medium	71.2	87	51-80	N/A	Unit 3 of Luce line pulpwood sale 036-13 TCR 1/5/16		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		20	Pole	8		Red Maple	Low	5 - 10 feet	Sapling
White Pine		80	Log	12	87	Jack Pine	Medium	< 5 feet	Sapling
						White Pine	High	5 - 10 feet	Sapling
						Quaking Aspen	Full	5 - 10 feet	Sapling
57	42220 - Natural Jack Pine	Sapling Poor	28.3	8	Immature	N/A	Site scarified after harvest then natural regen count in 2018, 816 TPA.		
Canopy Species		% Cover	Size Class	DBH	Age				
Black Cherry		10	Sapling	1					
Jack Pine		90	Sapling	1	8				
58	42110 - Planted Red Pine	Sawtimber Well	22.1	60	81-110	N/A	Cut in 5/15 :timbersale35" 41-35-14-01		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		3	Log	10		White Pine	Low	< 5 feet	Pole
Red Pine		94	Log	10	60				
White Pine		3	Pole	8					
59	42110 - Planted Red Pine	Sawtimber Well	22.9	68	81-110	N/A	Red pine plantation. Thinned in 2014 as part of Easy going 106 Mix.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/Pole	10	68	Black Cherry	Low	>20 feet	Sapling
60	42110 - Planted Red Pine	Sawtimber Well	23.9	62	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		9	Pole	5		Red Maple	Low	Variable	Sapling
Red Pine		80	Log	10	62	Quaking Aspen	Low	Variable	Sapling
Jack Pine		6	Pole	5					
White Pine		5	Pole	5					
61	42200 - Natural White Pine	Sawtimber Well	11.5	84	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		100	Log	10	84	White Pine	Medium	< 5 feet	Sapling
						Quaking Aspen	High	5 - 10 feet	Sapling
						Jack Pine	High	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
62	4311 - Pine, Aspen Mix	Sapling Well	49.0	24	1-50	N/A																																															
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63	4319 - Mixed Upland Forest	Sawtimber Well	22.1	84	81-110	N/A	White pine stand with aspen and red maple.																																														
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64	42110 - Planted Red Pine	Sawtimber Well	46.7	64	81-110	N/A	Red pine with some pockets of white pine. Cut in 5/15 "timbersale35" 41-35-14-01																																														
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65	310 - Herbaceous Openland	Nonstocked	5.9			No																																															
66	4311 - Pine, Aspen Mix	Sapling Well	7.6	43	1-50	N/A																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
68	42110 - Planted Red Pine	Sawtimber Well	25.8	63	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		10	Pole	7		White Pine	
White Pine		10	Log	12		Density	Avg. Height
Red Pine		80	Log	12	63	Low	< 5 feet
						Size	Sapling
69	42110 - Planted Red Pine	Sawtimber Well	41.8	68	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		96	Log	10	68		
Quaking Aspen		2	Pole	6	21		
Red Maple		2	Pole	6	21		
70	4136 - Aspen, Mixed Conifer	Poletimber Well	44.2	38	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		63	Pole/Sapling	5	38	Red Maple	
Red Maple		10	Pole/Sapling	6		Balsam Fir	
White Spruce		5	Pole/Sap/Log	5		White Pine	
Balsam Fir		10	Sapling/Pole	4		White Spruce	
Paper Birch		2	Pole	8		Density	Avg. Height
White Pine		10	Log/Pole	10		Low	< 5 feet
						Size	Sapling
71	42110 - Planted Red Pine	Sawtimber Well	2.3	58	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		6	Pole	5		White Pine	
Red Pine		90	Log	12	58	Density	Avg. Height
Quaking Aspen		4	Pole	5		Low	5 - 10 feet
						Size	Pole
72	42220 - Natural Jack Pine	Poletimber Well	6.1	57	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		3	Log	10		White Pine	
Jack Pine		82	Pole	6	57	Density	Avg. Height
Quaking Aspen		15	Pole/Sapling	5		Low	< 5 feet
						Size	Sapling
73	42110 - Planted Red Pine	Sawtimber Well	6.8	68	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		2	Pole	9		Black Cherry	
Quaking Aspen		2	Pole	7		Density	Avg. Height
Red Pine		94	Log	11	68	Low	< 5 feet
Red Maple		2	Pole	7		Size	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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74 4117 - Mixed N. Hardwood - Pine Poletimber Well 10.4 90 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	8		Balsam Fir	Medium	5 - 10 feet	Sapling
White Pine	25	Log	12		Beech	Medium	5 - 10 feet	Sapling
Beech	12	Pole/Sapling	5					
Black Cherry	3	Pole	8					
Balsam Fir	5	Pole/Sapling	5					
Sugar Maple	35	Pole	8	90				
White Spruce	5	Log	11					

75 42220 - Natural Jack Pine Poletimber Medium 18.9 24 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log	10		Quaking Aspen	Medium	< 5 feet	Sapling
Jack Pine	75	Pole/Sapling	5	24	Jack Pine	Medium	< 5 feet	Sapling
Red Pine	10	Log	12					
Quaking Aspen	10	Pole	6					

76 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 6.5 87 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	58	Log	12	87	Red Maple	Low	5 - 10 feet	Sapling
Red Pine	6	Log	12					
Jack Pine	6	Pole	8					
Quaking Aspen	30	Log	10					

77 320 - Upland Shrub Nonstocked 14.4 Immature 4319 - Mixed Upland Forest Planted spring 2015 to red pine. 3rd year check done. Parts of stand never planted. Site needs to be started over. large trees need to be cut down before aerial spraying can take place, then new trenches and planting can happen. this part of the original stand was removed and will grow in poorly stocked/ semi open red pine and white pine.

78 42110 - Planted Red Pine Poletimber Medium 5.2 57 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	85	Log	10	57
Jack Pine	10	Pole	6	
Quaking Aspen	5	Pole	8	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
79	42220 - Natural Jack Pine	Sapling Well	87.1	24	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		92	Sapling	3	24		
White Spruce		2	Sapling	2			
Red Pine		2	Pole	6			
Quaking Aspen		2	Sapling	3			
Black Cherry		2	Sapling	2			
80	42200 - Natural White Pine	Sawtimber Poor	14.3	71	1-50	N/A	stand is an agreed upon managed opening, with traded acres from passed timbered stands being consolidated into a large opening. areas include low density aspen, failed red pine plantations. trees are starting to regenerate through out stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		20	Pole	6			
White Pine		80	Log	10	71		
81	42120 - Planted Jack Pine	Poletimber Well	23.9	57	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		75	Pole	6	57		
Red Pine		25	Pole	8			
Sub-Canopy Species		Density	Avg. Height	Size			
Balsam Fir		Low	Variable	Sapling			
82	42120 - Planted Jack Pine	Poletimber Well	9.0	57	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		25	Log	10			
Jack Pine		70	Pole	9	57		
Quaking Aspen		5	Pole	8			
83	42120 - Planted Jack Pine	Poletimber Well	14.4	57	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		75	Pole	8	57		
Red Pine		20	Pole	8			
Quaking Aspen		5	Pole	8			
84	42140 - Planted Mixed Pine	Poletimber Well	28.3	58	51-80	N/A	A complex of jack pine regeneration in gaps some older jack pine, white pine and red pine, the stand looks good over all.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		41	Log	10	58		
White Pine		10	Sapling	4			
Jack Pine		39	Pole	5	24		
Quaking Aspen		10	Sapling/Pole	4			
Sub-Canopy Species		Density	Avg. Height	Size			
Jack Pine		Medium	Variable	Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
85	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	14.6	24	1-50	N/A																																					
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Jack Pine	62	Sapling	3	24																																							
Black Cherry	18	Sapling	2																																								
Quaking Aspen	20	Sapling	4																																								
86	4311 - Pine, Aspen Mix	Sapling Medium	6.3	24	1-50	N/A																																					
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87	42120 - Planted Jack Pine	Poletimber Well	45.5	57	81-110	N/A																																					
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88	3205 - Mixed Upland Shrub	Nonstocked	5.1			Managed Opening	stand is an agreed upon managed opening, with traded acres from passed timbered stands being consolidated into a large opening. areas include low density aspen, failed red pine plantations. trees are starting to regenerate through out stand.																																				
89	42210 - Natural Red Pine	Sawtimber Poor	58.5	81	1-50	N/A	stand is an agreed upon managed opening, with traded acres from passed timbered stands being consolidated into a large opening. areas include low density aspen, failed red pine plantations. trees are starting to regenerate through out stand.																																				
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90	42220 - Natural Jack Pine	Sapling Poor	84.5	7	Immature	N/A	stand is an agreed upon managed opening, with traded acres from passed timbered stands being consolidated into a large opening. areas include low density aspen, failed red pine plantations. trees are starting to regenerate through out stand.																																				
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Jack Pine	60	Sapling	2	7																																							
91	42290 - Natural Mixed Pine	Poletimber Poor	19.5	56	1-50	N/A	stand is an agreed upon managed opening, with traded acres from passed timbered stands being consolidated into a large opening. areas include low density aspen, failed red pine plantations. trees are starting to regenerate through out stand.																																				
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92	3205 - Mixed Upland Shrub	Nonstocked	0.0			Managed Opening	stand is an agreed upon managed opening, with traded acres from passed timbered stands being consolidated into a large opening. areas include low density aspen, failed red pine plantations. trees are starting to regenerate through out stand.																																				



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93	3205 - Mixed Upland Shrub	Nonstocked	12.8			Managed Opening	stand is an agreed upon managed opening, with traded acres from passed timbered stands being consolidated into a large opening. areas include low density aspen, failed red pine plantations. trees are starting to regenerate through out stand.																				
94	3205 - Mixed Upland Shrub	Nonstocked	22.8			Managed Opening	stand is an agreed upon managed opening, with traded acres from passed timbered stands being consolidated into a large opening. areas include low density aspen, failed red pine plantations. trees are starting to regenerate through out stand.																				
95	42110 - Planted Red Pine	Sapling Poor	39.1	11	Immature	N/A	stand is an agreed upon managed opening, with traded acres from passed timbered stands being consolidated into a large opening. areas include low density aspen, failed red pine plantations. trees are starting to regenerate through out stand, planting information is not found.																				
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96	4132 - Aspen, Jack Pine	Sapling Poor	110.6	7	Immature	N/A	stand is an agreed upon managed opening, with traded acres from passed timbered stands being consolidated into a large opening. areas include low density aspen, failed red pine plantations. trees are starting to regenerate through out stand.																				
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