



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12173

Entry Year: 2027

Acreage: 1,963

County: Iron

Management Area: Brule River

Stand Examiner: Eric Brolin

Legal Description:

T41N R32W sections 2-4, 8-12, 14,15 & 17

Identified Planning Goals:

Develop age class distribution in aspen type. Develop the quality while maintaining diversity in hardwood types. Maintain health of conifer types and increase acreage where possible. Maintain and improve road system.

Soil and topography:

Soils are sandy loam to loamy sand, rolling hills to wet lowlands.

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

Private and corporate lands scattered throughout compartment. Highly used for recreation.

Unique Natural Features:

Brule River and Paint River Pond.

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment is in the Peavy End Moraine Management Area which has the following featured species: American woodcock, black bear, wood duck, eastern bluebird, and white-tailed deer. This area is one of the most important oak areas in entire Crystal Falls Forest Area. This area provides excellent bear, deer and wood duck habitat due to the presence of mast producing oak trees. Maintaining and increasing this mast crop is the desired management. Balancing the age classes of aspen to provide early successional habitat through mature aspen forest is a goal in this compartment. Lowland conifers and lowland hardwood types provide winter and summer cover and are essential for travel corridors for many species of wildlife and provide essential habitat for riparian species, such as wood duck. Deer find critical winter cover in the lowland conifer stands and natural pine stands. Mesic conifer in the uplands is promoted to provide structural diversity within stands which increases habitat value, as cover for wildlife. This also enables deer to access forage in the uplands during deep snow conditions. Mast production, such as oak, cherry and raspberry are encouraged to provide valuable forage for bear, deer, grouse and turkey.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 50 and 100 feet. The Precambrian Michigamme and Dunn Creek Formations and the Badwater Greenstone subcrops below the glacial drift. There is not a current economic use for these rocks. Abandoned iron mines at Crystal Falls are located seven miles to the north. This Compartment was not previously leased for metallic exploration, but could have potential. A gravel pit is located in Section 9 and there is potential. There is no economic oil and gas production in the UP.

Vehicle Access:

Very good throughout most of compartment. Some two tracks accessible by four wheel drive.

Survey Needs:

Recreational Facilities and Opportunities:

Hunting and fishing. Snowmobile trail UP2 runs through the west side of compartment.

Fire Protection:**Additional Compartment Information:**

This compartment has had the presence of oak wilt confirmed and has had these areas treated. If other areas of oak wilt are detected, they will be treated.

The following reports from the Inventory are attached:

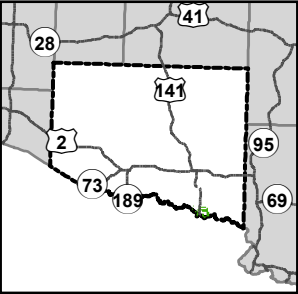
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

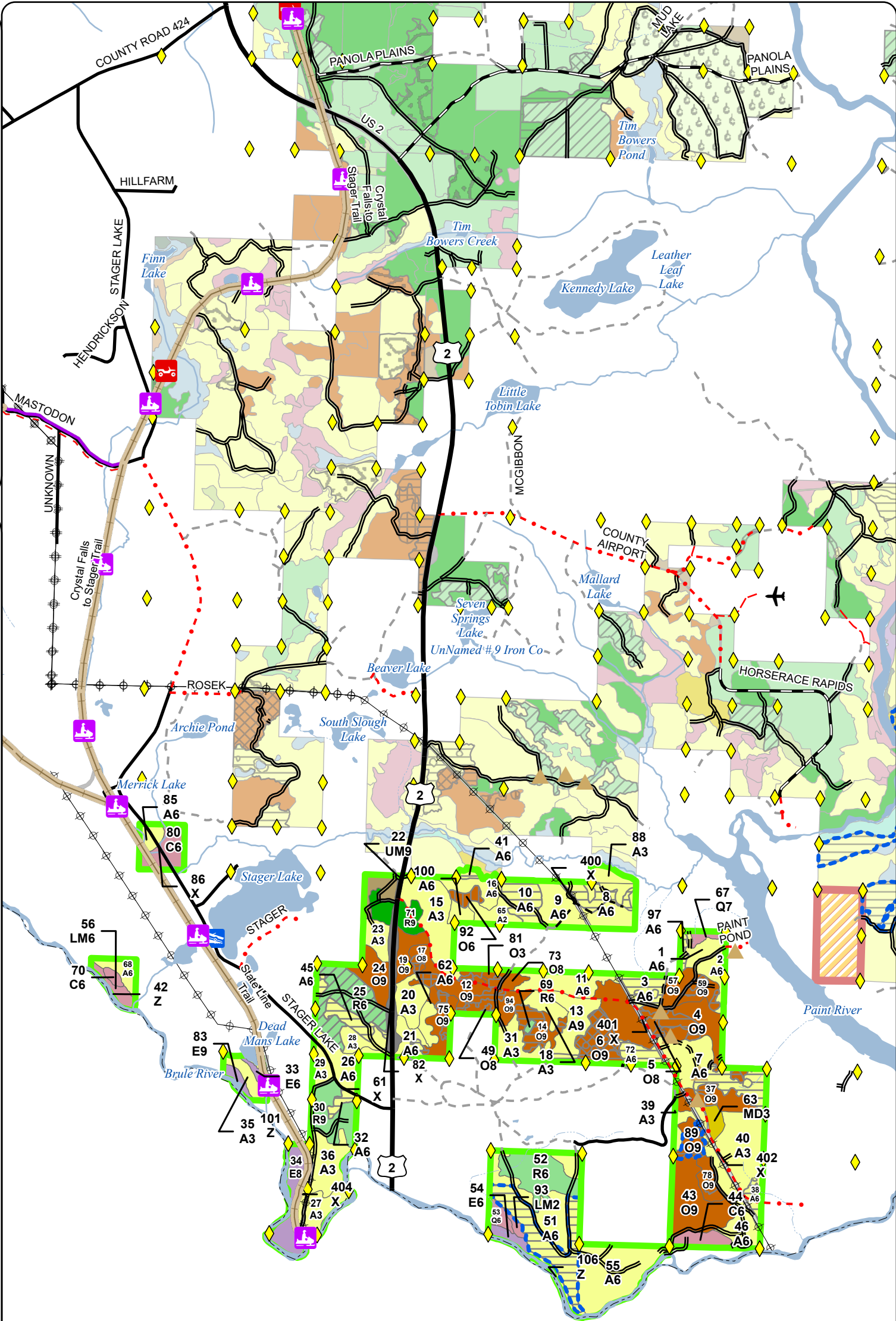
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 12173
T41N, R32W sec, 2-6, 8-12, 15-17
County: Iron
Unit: Crystal Falls
Mgmt. Area: Brule River
YOE: 2027
Acres: 1,963.15 GIS Calculated
Examiner: Eric Brolin
Date Exported: 09/16/2025
Map Phase: Post Review

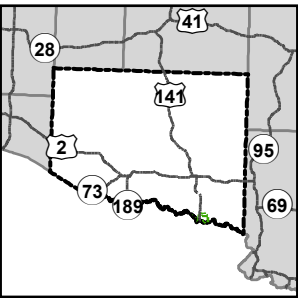


- Survey Grade Corners
- Airport
- Berms
- Boating Access Site
- Designated ORV Routes
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- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
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- Counties
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Selection
- Seed Tree
- Shelterwood
- Thinning
- Clearcut
- Selection
- Seed Tree
- Thinning
- Site Prep
- Prescribed Burn
- Monitoring - Regeneration
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 122 - Road/Parking Lot

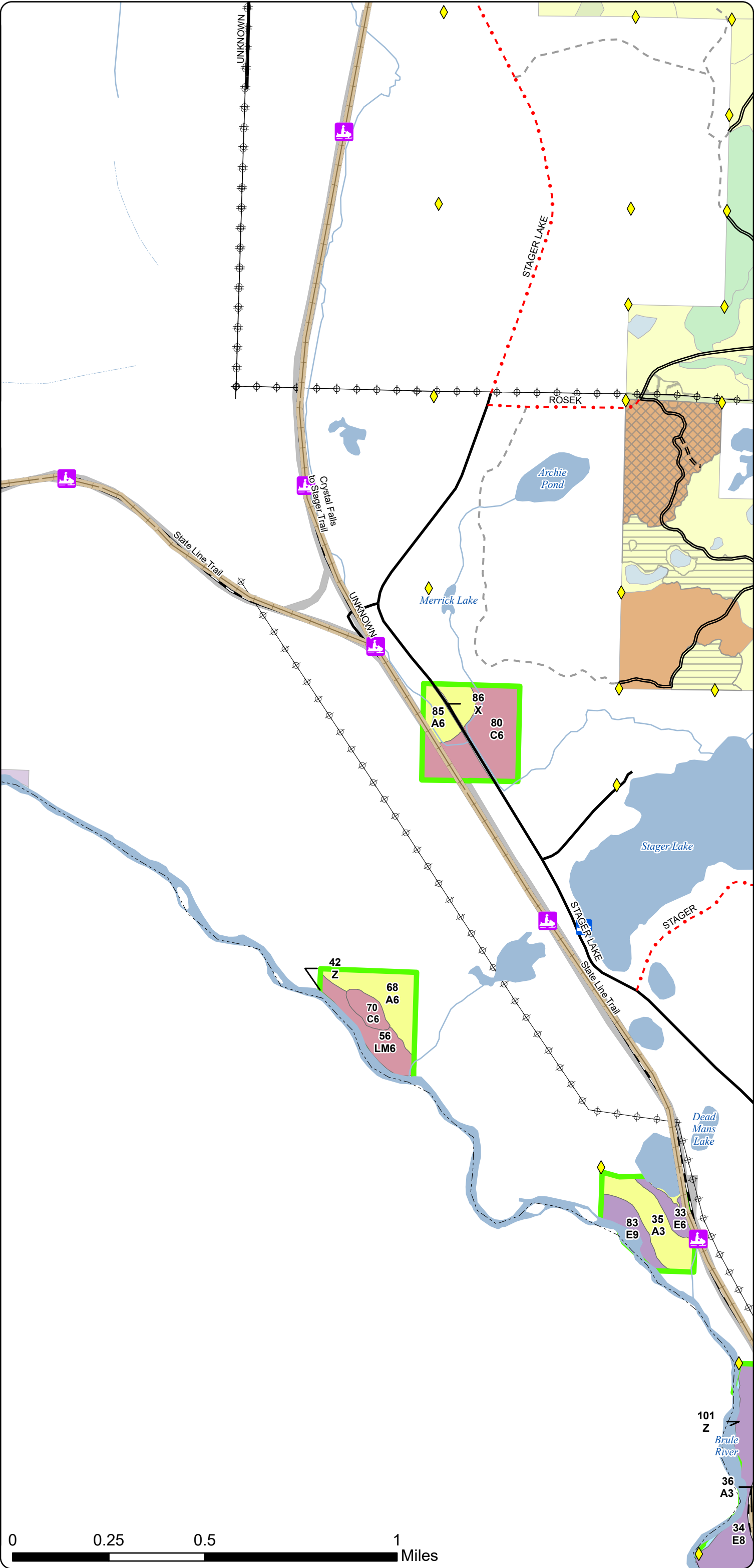


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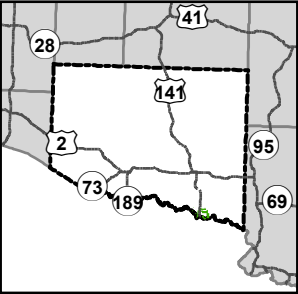


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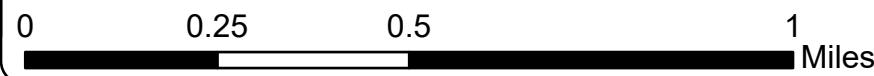
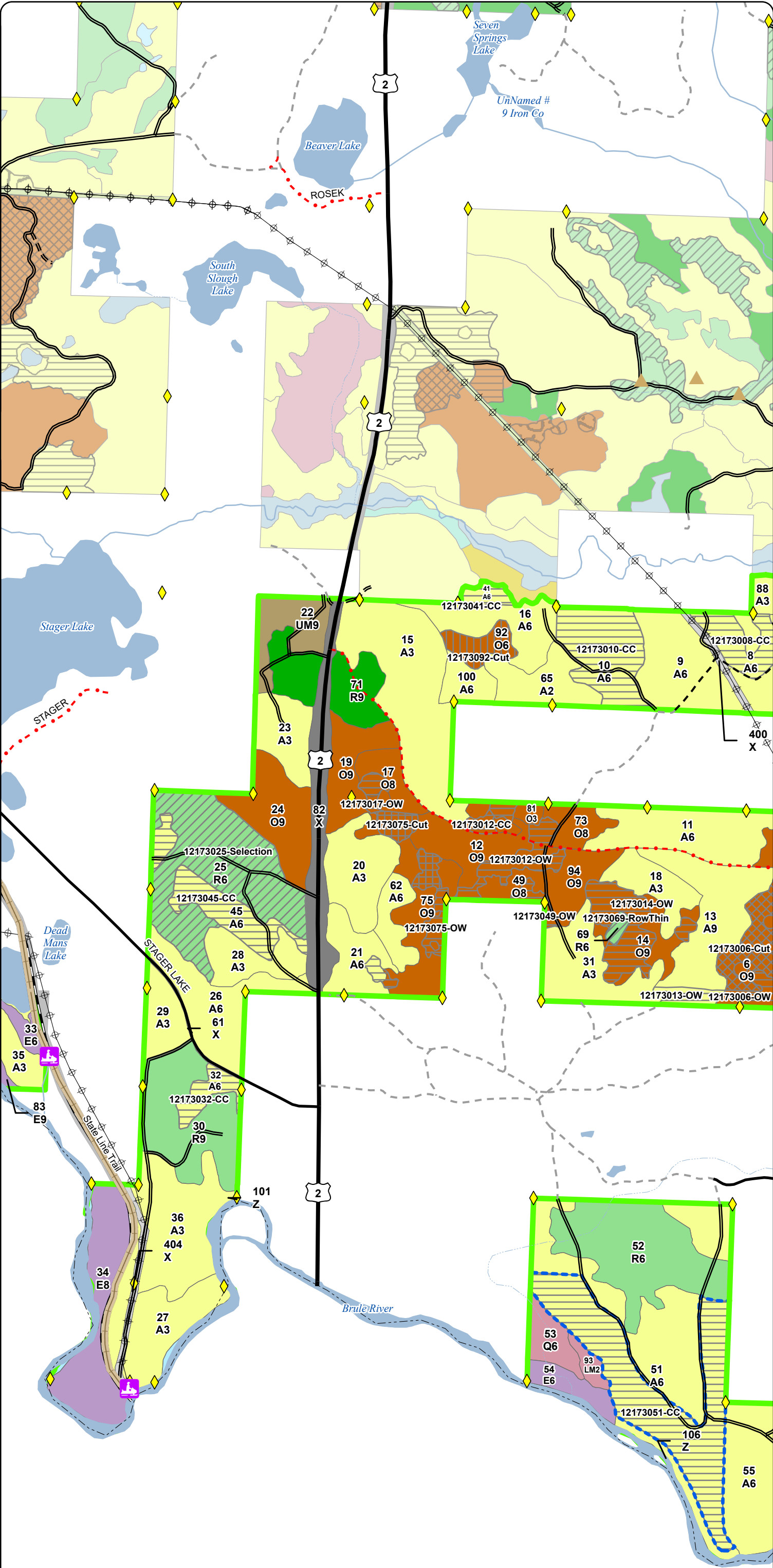


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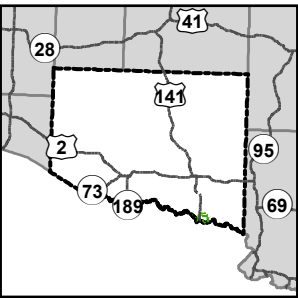


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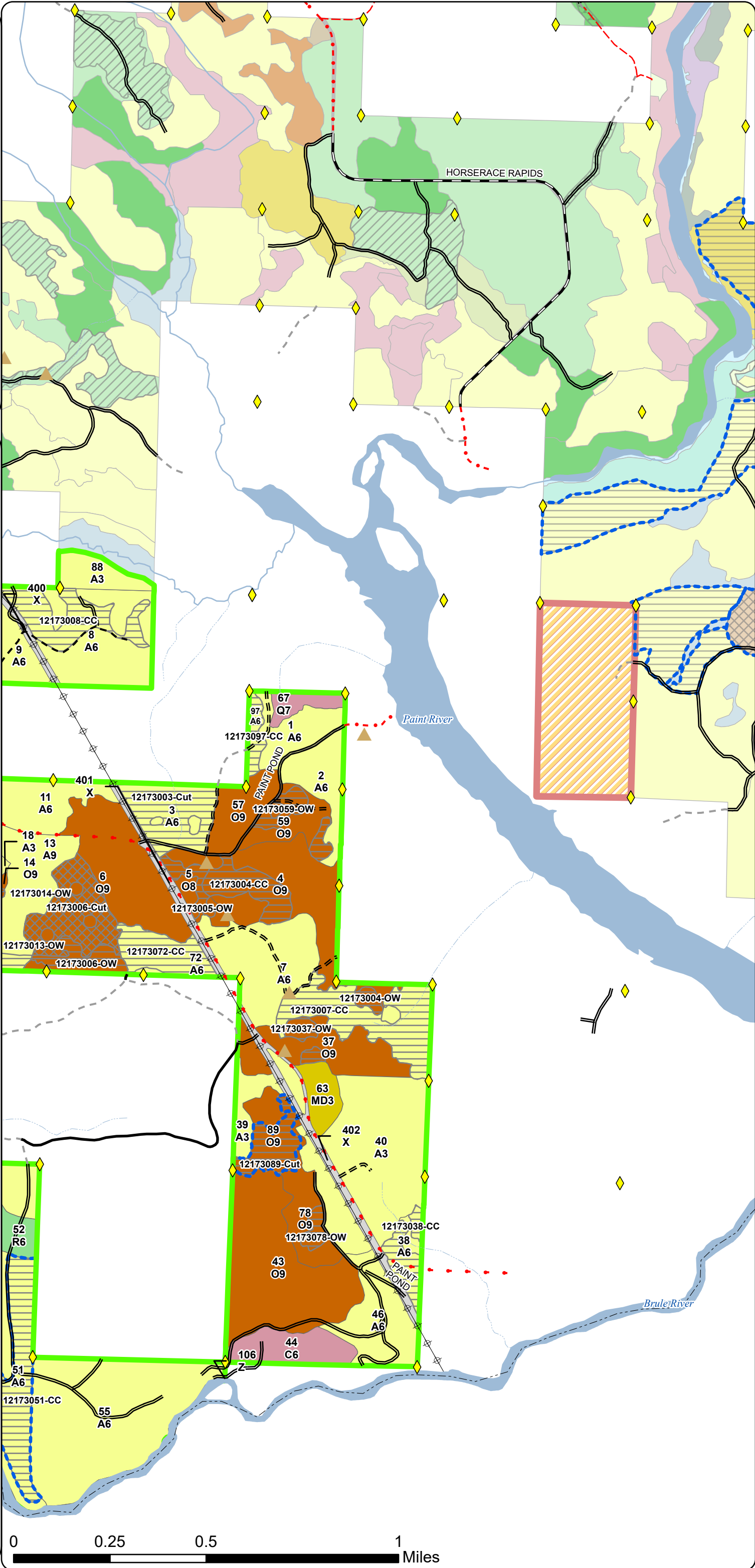


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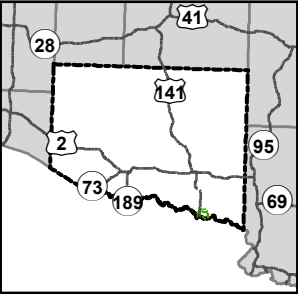


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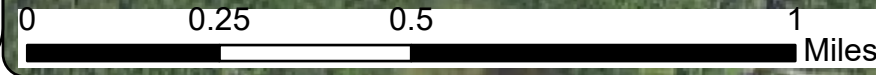


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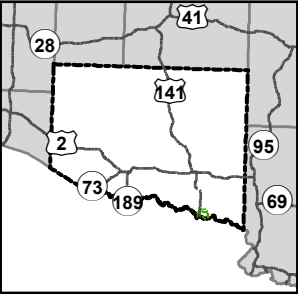


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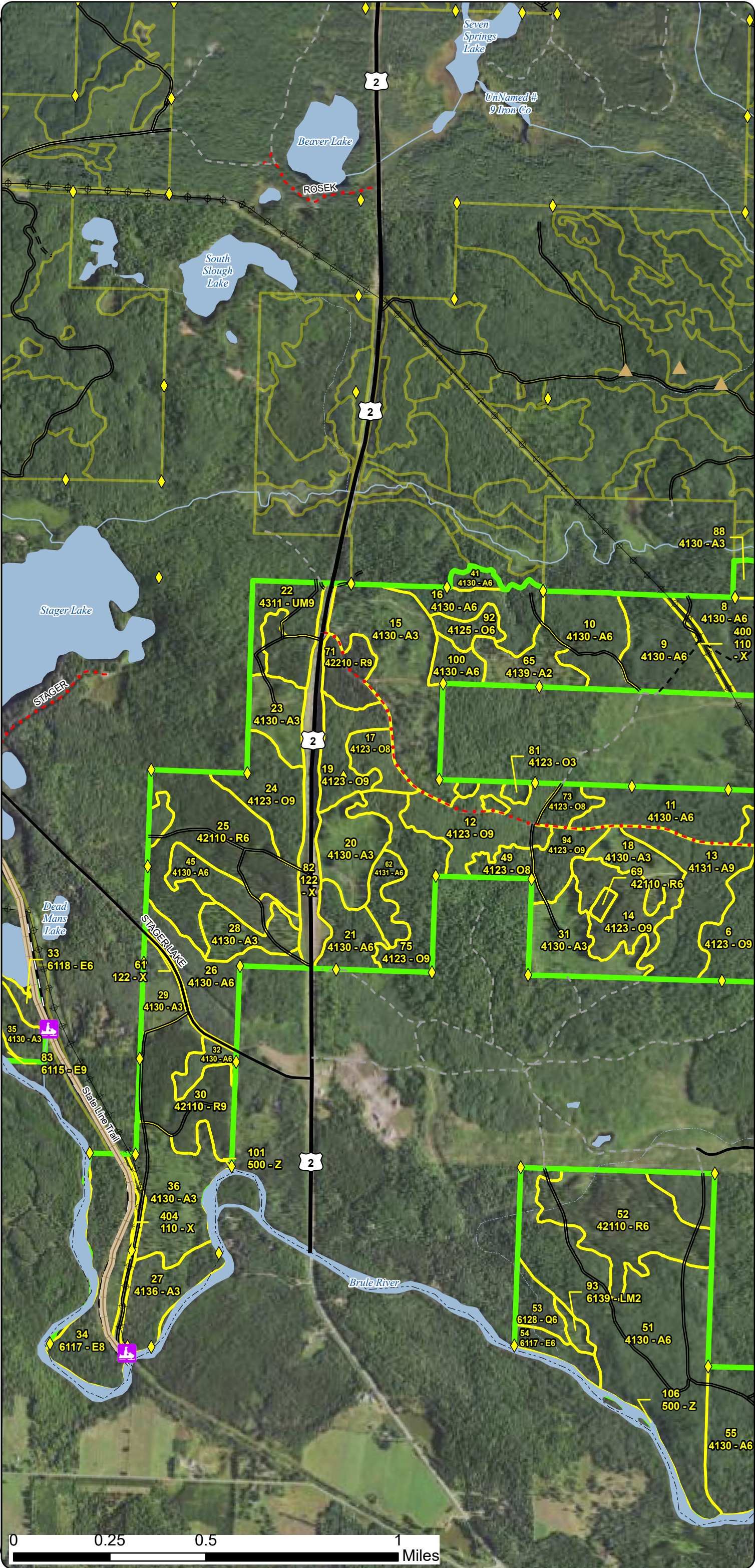


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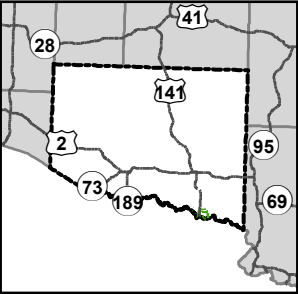


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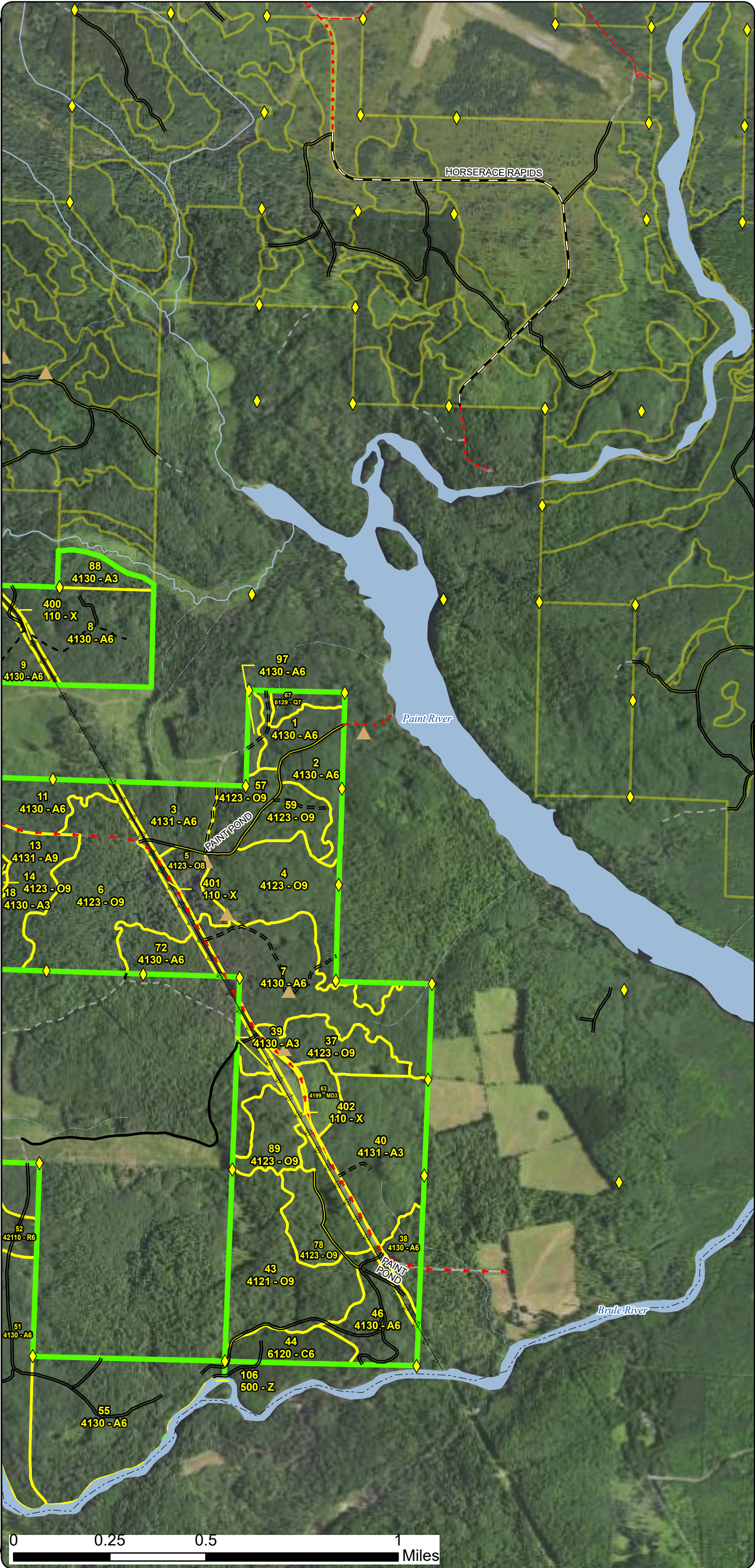


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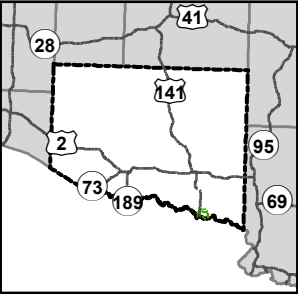


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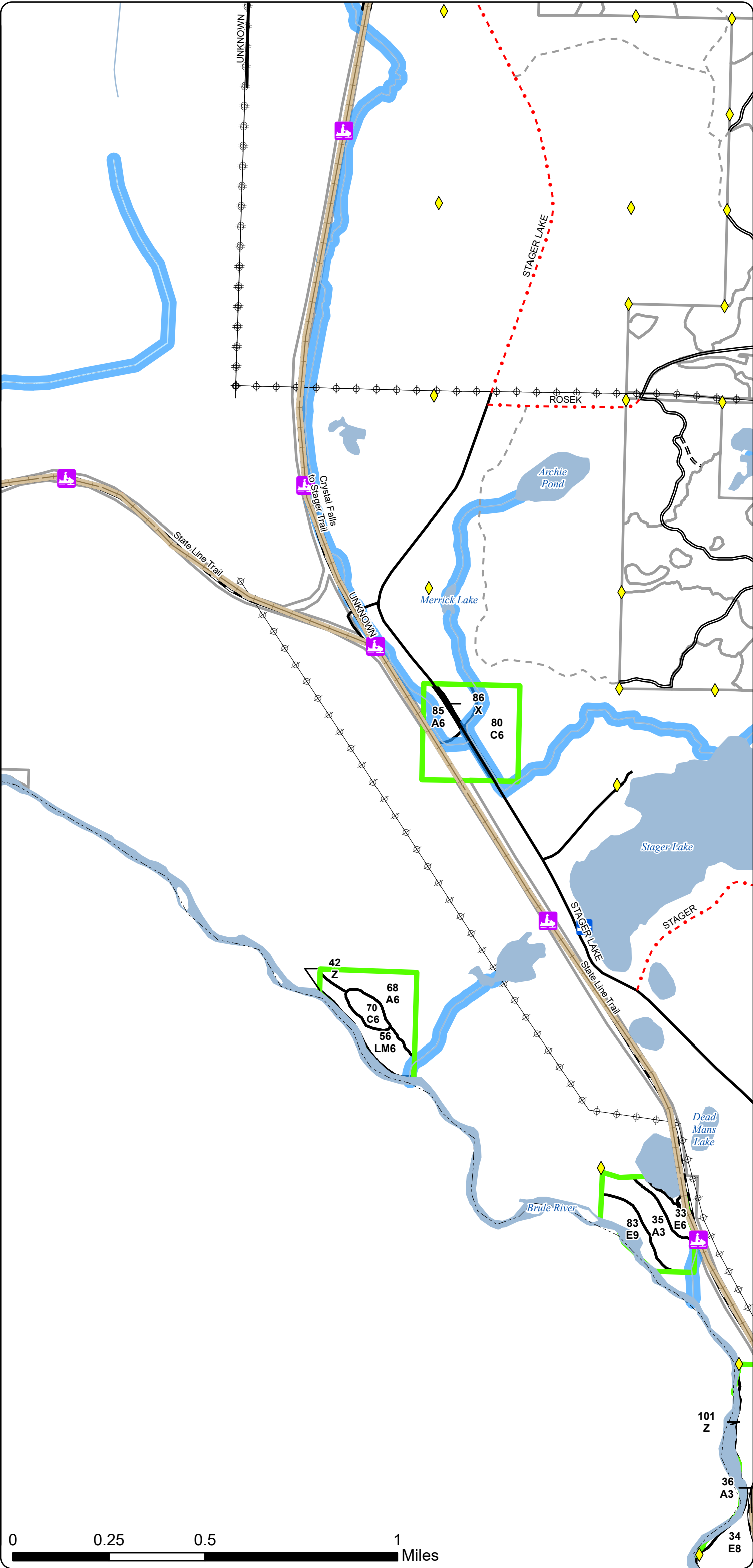


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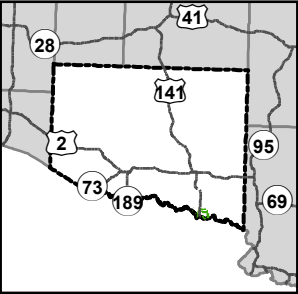


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- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Trail - Trail Corridor

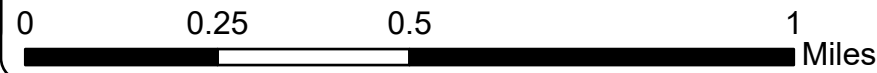
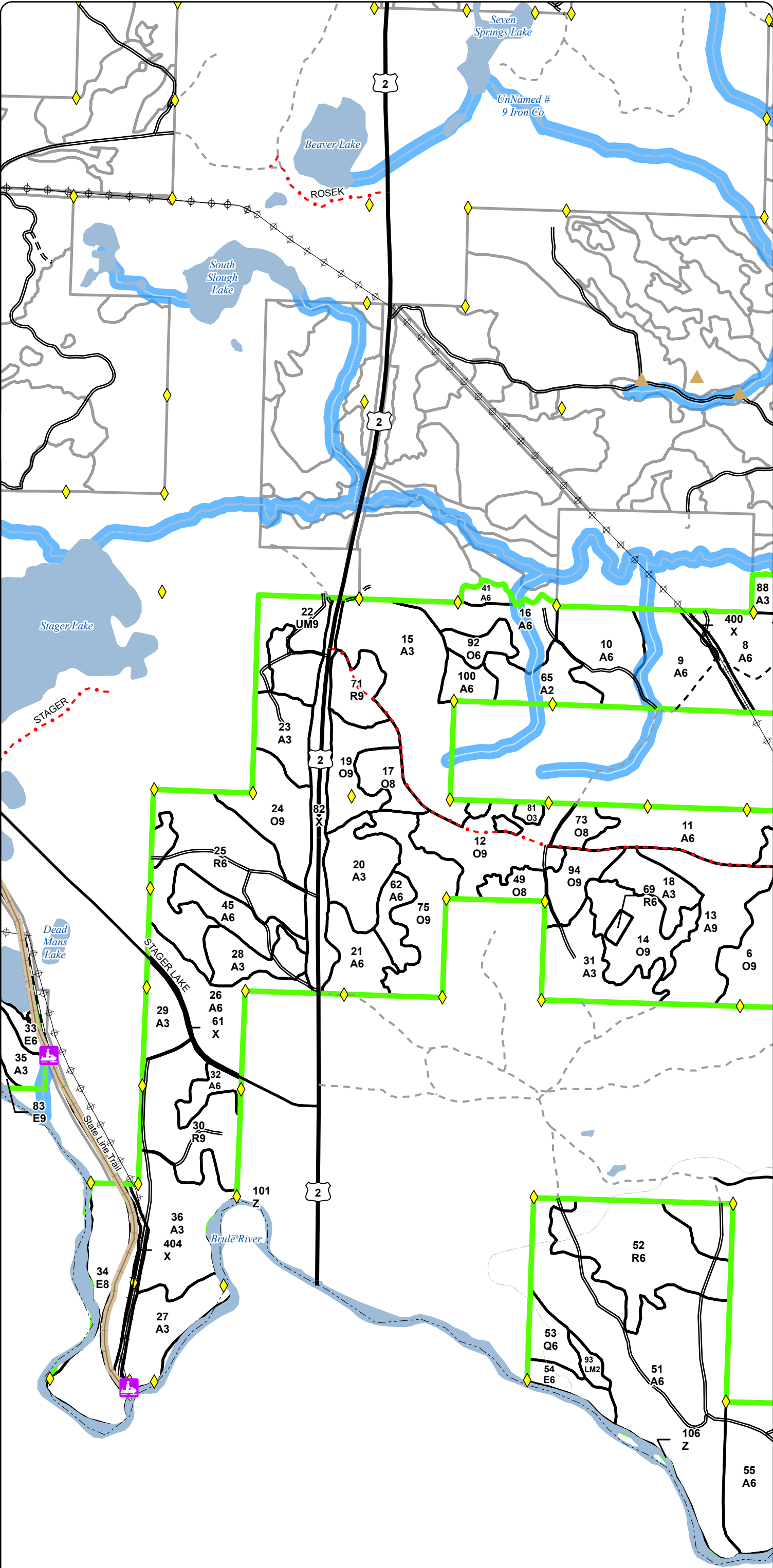


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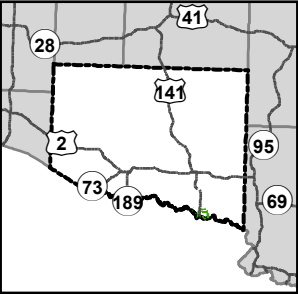


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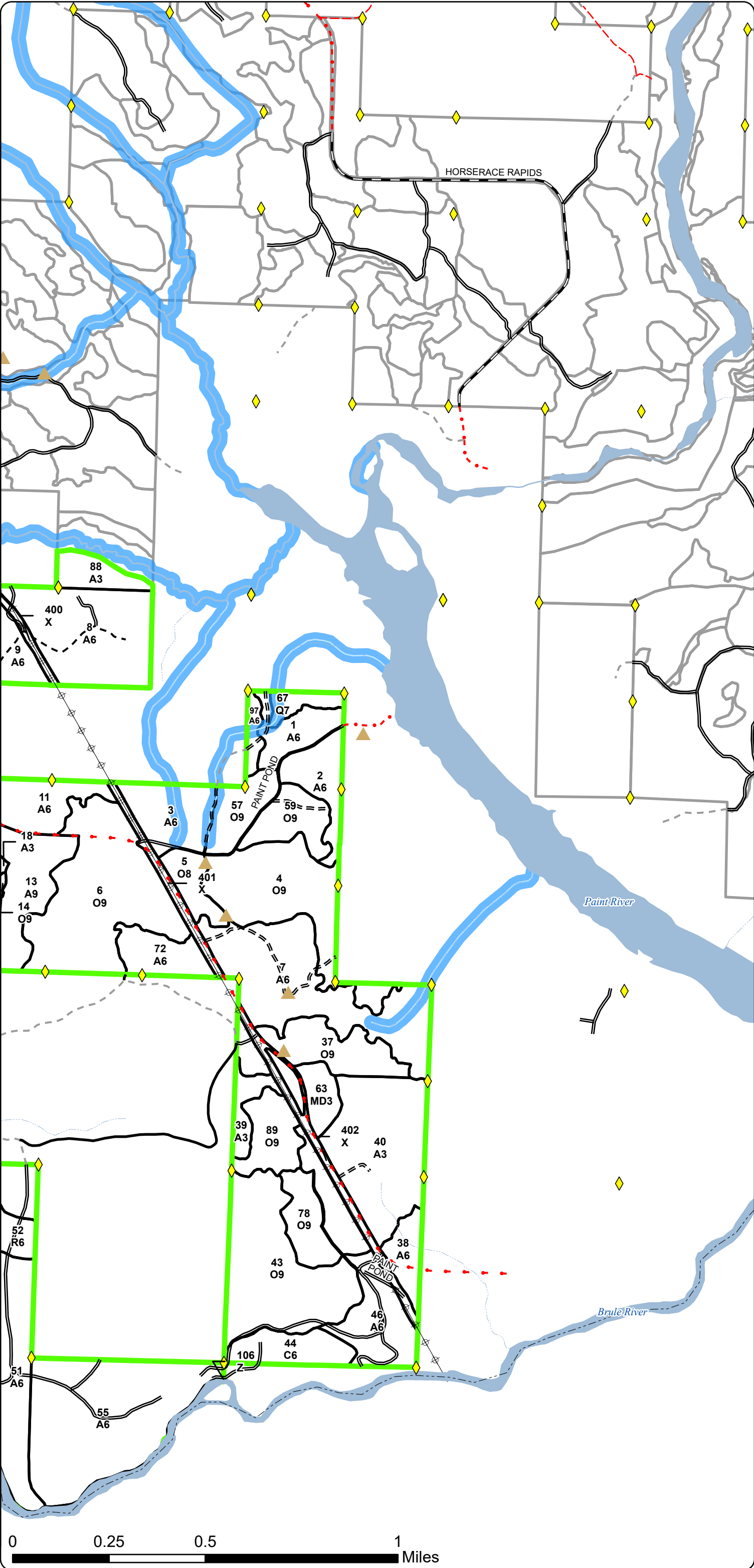


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Report 1 – Total Acres by Cover Type and Age Class



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	245	106	104	166	426	10	15	0	0	0	0	0	0	0	0	0	0	1072
Cedar	0	0	0	0	0	0	0	0	0	4	17	28	0	0	0	0	0	0	49
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	16
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	23	34	0	0	0	0	0	0	57
Lowland Mixed Forest	0	4	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Oak	0	0	5	0	0	0	0	0	0	0	467	0	0	0	0	0	0	0	472
Red Pine	0	0	0	0	0	2	0	149	0	0	25	0	0	0	0	0	0	0	175
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	17	1	0	0	0	0	0	0	17
Urban	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Water	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Total	81	249	120	104	166	428	10	164	0	14	565	63	0	0	0	0	0	0	1962



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 173
Total Compartment Acres: 1,963

Commercial Harvest - 1446
Harvests with Site Condition - 176
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearecut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	226	0	0	0	0	0	0	0	0	226
Oak	97	23	0	7	8	1	0	0	0	136
Red Pine	0	0	0	0	0	61	0	0	0	61
Total	323	23	0	7	8	62	0	0	0	423

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	423	0	0	0	0	0	0	0	0	423
Next Step	0	23	174	0	0	453	550	0	0	1200
Total	423	23	174	0	0	453	550	0	0	1623



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:

6	12173006-Cutxx	0.6	4123 - Red Oak	9	99	111-140	Harvest	Selection	4121 - Oak, Aspen	Cutting Record	No
<u>Prescription</u> Mark red oak to approximately 80-90 BA average across the stand. Focus on removing suppressed and/or weakened trees while creating more canopy light to release advanced regeneration. Improve quality and mark to retain healthier, stout branched trees that <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species, including aspen and maple. <u>Regen:</u> <u>Other</u> Exclude areas where advanced regeneration is more dense due to lighter canopy stocking. Treatment has been updated to reflect some of these areas but may change if determined during timber sale prep. Include all applicable oak wilt specs for timber sale. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
6	12173006-Cutxxx	0.6	4123 - Red Oak	9	99	111-140	Harvest	Selection	4121 - Oak, Aspen	Cutting Record	No
<u>Prescription</u> Mark red oak to approximately 80-90 BA average across the stand. Focus on removing suppressed and/or weakened trees while creating more canopy light to release advanced regeneration. Improve quality and mark to retain healthier, stout branched trees that <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species, including aspen and maple. <u>Regen:</u> <u>Other</u> Exclude areas where advanced regeneration is more dense due to lighter canopy stocking. Treatment has been updated to reflect some of these areas but may change if determined during timber sale prep. Include all applicable oak wilt specs for timber sale. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
6	12173006-Cutxxxx	0.6	4123 - Red Oak	9	99	111-140	Harvest	Selection	4121 - Oak, Aspen	Cutting Record	No
<u>Prescription</u> Mark red oak to approximately 80-90 BA average across the stand. Focus on removing suppressed and/or weakened trees while creating more canopy light to release advanced regeneration. Improve quality and mark to retain healthier, stout branched trees that <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species, including aspen and maple. <u>Regen:</u> <u>Other</u> Exclude areas where advanced regeneration is more dense due to lighter canopy stocking. Treatment has been updated to reflect some of these areas but may change if determined during timber sale prep. Include all applicable oak wilt specs for timber sale. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
75	12173075-Cutx	0.6	4123 - Red Oak	9	99	111-140	Harvest	Thinning	4123 - Red Oak	Cutting Record	No
<u>Prescription</u> Thin to approximately 60-80 BA average across the stand. Focus on removing suppressed and/or weakened trees while creating more canopy light to release advanced regeneration. Improve quality and mark to retain healthier, stout branched trees that will be <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u> <u>Other</u> Large seedling/sapling sized oak is well established across the forest floor. These will respond well to canopy gaps creating a second age class of red oak while maintaining mature mast producing trees. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											



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:

3	12173003-Cut	21.3	4131 - Aspen, Oak	6	46	111-140	Harvest	Clearcut	4131 - Aspen, Oak	Planting Record	No
<u>Prescription</u> Harvest all merchantable deciduous trees. Leave all conifers. Exclude patches interior for long term retention containing mature oak. This will retain mature mast producing oak while creating a vigorous diverse mix of young regeneration. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u> <u>Other</u> Patches identified interior are surrounded by dense aspen stocking. A couple of ravines may need to be excluded along the north edge, this will add to long term stand retention. Include all applicable oak wilt specs for timber sale. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2031											
4	12173004-CC	12.4	4123 - Red Oak	9	99	171-200	Harvest	Clearcut	4121 - Oak, Aspen	Cutting Record	No
<u>Prescription</u> Harvest all merchantable deciduous trees. Leave all conifers. Exclude patch along the south containing mature oak for long term retention. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u> <u>Other</u> Include all applicable oak wilt specs for timber sale. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
17	12173004-OW	2.1	4123 - Red Oak	8	99	111-140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
<u>Prescription</u> Harvest all trees 2" DBH and larger to prep site for white pine planting. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen; <u>Treatments:</u> Planting, Interplant; Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Pesticide, Ae <u>Acceptable</u> White pine with white oak mix option if available during or after initial planting. <u>Regen:</u> <u>Other</u> Plant white pine. Plant white oak within, possibly in open patches, when funding and source is available. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
17	12173005-OW	4.7	4123 - Red Oak	8	99	111-140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
<u>Prescription</u> Harvest all trees 2" DBH and larger to prep site for mixed pine planting. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen; <u>Treatments:</u> Planting, Interplant; Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Pesticide, Ae <u>Acceptable</u> Mixed pine with white oak mix option if available during or after initial planting. <u>Regen:</u> <u>Other</u> Alternate tree boxes while planting to create a red pine / white pine mix. Plant white oak within, possibly in open patches, when funding and source is available. <u>Comment:</u> <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
6	12173006-Cut	22.8	4123 - Red Oak	9	99	111-140	Harvest	Selection	4121 - Oak, Aspen	Cutting Record	No
<u>Prescription</u> Mark red oak to approximately 80-90 BA average across the stand. Focus on removing suppressed and/or weakened trees while creating more canopy light to release advanced regeneration. Improve quality and mark to retain healthier, stout branched trees that <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Scarification; Planting, Underplant <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species, including aspen and maple. <u>Regen:</u> <u>Other</u> Exclude areas where advanced regeneration is more dense due to lighter canopy stocking. Treatment has been updated to reflect some of these areas but may change if determined during timber sale prep. Include all applicable oak wilt specs for timber sale. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
6	12173006-OW	8.5	4123 - Red Oak	9	99	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Harvest all trees 2" DBH and larger to prep site for red pine planting. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen; <u>Treatments:</u> Planting, Interplant; Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Pesticide, Ae <u>Acceptable</u> Red pine <u>Regen:</u> <u>Other</u> No retention due to forest health concerns. Include all applicable oak wilt specs for timber sale. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
7	12173007-CC	30.6	4130 - Aspen	6	47	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Harvest all merchantable trees except conifers and oak to promote aspen regeneration. Retention should include large diameter, forked crown aspen, and a diverse mix of species. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u> <u>Other</u> Include all applicable oak wilt specs for timber sale. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
8	12173008-CC	18.7	4130 - Aspen	6	48	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Harvest all merchantable trees except red pine, white pine and oak to promote aspen regeneration. Retention should include large diameter, forked crown aspen, and a diverse mix of species. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u> <u>Other</u> Slope / BMP exclusions are estimates based off of field observations. These areas could change if determined during timber sale prep. Include all applicable oak wilt specs for timber sale. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2031											



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
10	12173010-CC	27.8	4130 - Aspen	6	48	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Harvest all merchantable trees except conifers and oak to promote aspen regeneration. Retention should include large diameter, forked crown aspen, and a diverse mix of species. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2031											
12	12173012-CC	2.1	4123 - Red Oak	9	99	171-200	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
<u>Prescription</u> Harvest all merchantable trees except conifers. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u> <u>Other</u> See site conditions for small long term retention area. The west 2/3 of the stand will be retained containing healthy mature oak. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
17	12173012-OW	12.0	4123 - Red Oak	8	99	111-140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
<u>Prescription</u> Harvest to a 2" spec to prep site for mixed pine planting. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen; <u>Treatments:</u> Planting, Interplant; Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Pesticide, Ae <u>Acceptable</u> Mixed pine with white oak mix option if available during or after initial planting. <u>Regen:</u> <u>Other</u> Alternate tree boxes while planting to create a red pine / white pine mix. Plant white oak within, possibly in open patches, when funding and <u>Comment:</u> source is available. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
13	12173013-OW	4.2	4131 - Aspen, Oak	9	34	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Harvest all trees 2" DBH and larger to prep site for red pine planting. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen; <u>Treatments:</u> Planting, Interplant; Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Pesticide, Ae <u>Acceptable</u> Red pine <u>Regen:</u> <u>Other</u> No retention due to forest health concerns. Include all applicable oak wilt specs for timber sale. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											

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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
17 12173014-OW	17.6	4123 - Red Oak	8	99	111-140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
<u>Prescription</u> Harvest all trees 2" DBH and larger to prep site for mixed pine planting. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen; <u>Treatments:</u> Planting, Interplant; Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Pesticide, Ae <u>Acceptable</u> Mixed 50% red/50% white pine with white oak mix option if available during or after initial planting. <u>Regen:</u> <u>Other</u> Alternate tree boxes while planting to create a red pine / white pine mix. Plant white oak within, possibly in open patches, when funding and <u>Comment:</u> source is available. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025										
17 12173017-OW	2.9	4123 - Red Oak	8	99	111-140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
<u>Prescription</u> Harvest all trees 2" DBH and larger to prep site for mixed pine planting. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen; <u>Treatments:</u> Planting, Interplant; Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Pesticide, Ae <u>Acceptable</u> Mixed 50% red/50% white pine with white oak mix option if available during or after initial planting. <u>Regen:</u> <u>Other</u> Alternate tree boxes while planting to create a red pine / white pine mix. Plant white oak within, possibly in open patches, when funding and <u>Comment:</u> source is available. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025										
25 12173025-Selection	59.0	42110 - Planted Red Pine	6	62	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Mark stand to average 120 BA. Focus on improving quality and removing suppressed trees. Exclude more open areas that contain dense aspen <u>Specs:</u> saplings from past harvest. Leave all oak and white pine. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Red pine <u>Regen:</u> <u>Other</u> Some areas are not dense enough to be thinned at this time. Either exclude less dense areas if on an edge, avoid marking in, or lightly thin if <u>Comment:</u> needed. Include all applicable oak wilt specs for timber sale. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
32 12173032-CC	6.9	4130 - Aspen	6	48	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Harvest all merchantable trees except conifers and oak to promote aspen regeneration. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u> <u>Other</u> No retention due to small size. Include all applicable oak wilt specs for timber sale. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										



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
17	12173037-OW	3.9	4123 - Red Oak	8	99	111-140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
<u>Prescription</u> Harvest all trees 2" DBH and larger to prep site for mixed pine planting. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen; <u>Treatments:</u> Planting, Interplant; Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Pesticide, Ae <u>Acceptable</u> Mixed 50% red pine/50% white with white oak mix option if available during or after initial planting. <u>Regen:</u> <u>Other</u> Alternate tree boxes while planting to create a red pine / white pine mix. Plant white oak within, possibly in open patches, when funding and <u>Comment:</u> source is available. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
38	12173038-CC	9.0	4130 - Aspen	6	47	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Harvest all merchantable trees except conifers and oak to promote aspen regeneration. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u> <u>Other</u> No long-term retention due to small size. Include all applicable oak wilt specs for timber sale. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
41	12173041-CC	3.9	4130 - Aspen	6	48	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Harvest all merchantable trees except conifers and oak to promote aspen regeneration. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u> <u>Other</u> No long term retention due to small stand size. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
45	12173045-CC	19.9	4130 - Aspen	6	48	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Harvest all merchantable trees except red pine, white pine and oak to promote aspen regeneration. Retention should include large diameter, forked crown aspen, and a diverse mix of species. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u> <u>Other</u> Recommend sale prep during leaf off. Include all applicable oak wilt specs for timber sale. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											



Standard Treatment Acres Stand Size Stand BA Treatment Treatment Cover Type Age Habitat
d Name CoverType Density Age Range Type Method Objective Structure Cut

17 12173049-OW 3.0 4123 - Red Oak 8 99 111-140 Harvest Clearcut 4310 - Pine, Oak Mix Planting Record No

Prescription Harvest all trees 2" DBH and larger to prep site for mixed pine planting.

Specs:

Next Step Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen;
Treatments: Planting, Interplant; Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Pesticide, Ae

Acceptable Mixed 50% red pine/50% white with white oak mix option if available during or after initial planting.

Regen:

Other Alternate tree boxes while planting to create a red pine / white pine mix. Plant white oak within, possibly in open patches, when funding and
Comment: source is available.

Site Condition:

Proposed Start Date: 10/01/2025

51 12173051-CC 64.3 4130 - Aspen 6 44 111-140 Harvest Clearcut 413 - Aspen Planting Record No

Prescription Harvest all merchantable trees except conifers and oak to promote aspen regeneration. Retention should include large diameter, forked crown
Specs: aspen, and a diverse mix of species. Mark to leave one mature hardwood tree per acre while cruising if present wher

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of the current overstory species.

Regen:

Other Exclusion along the Brule River is an estimate from steep slope top and may change if determined during timber sale prep but will still hold the
Comment: 100' river buffer. Follow Wood Turtle guidance for the Brule River buffer (660' from 3/15 - 9/30, and/or 100'

Site Condition: Minor Change in Acreage

Proposed Start Date: 10/01/2026

17 12173059-OW 7.0 4123 - Red Oak 8 99 111-140 Harvest Clearcut 4310 - Pine, Oak Mix Planting Record No

Prescription Harvest all trees 2" DBH and larger to prep site for mixed pine planting.

Specs:

Next Step Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen;
Treatments: Planting, Interplant; Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Pesticide, Ae

Acceptable Mixed 50% red pine/50% white with white oak mix option if available during or after initial planting.

Regen:

Other Alternate tree boxes while planting to create a red pine / white pine mix. Plant white oak within, possibly in open patches, when funding and
Comment: source is available.

Site Condition:

Proposed Start Date: 10/01/2025

69 12173069-RowThin 1.9 42110 - Planted Red Pine 6 42 171-200 Harvest Thinning 4211 - Planted Red Pine Planting Record No

Prescription Mark red pine to harvest approximately 1/3 of the stand creating rows as needed for operability.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Red pine

Regen:

Other Rows may be narrow or non-existent. Mark rows for operability. Include all applicable oak wilt specs for timber sale.

Comment:

Site Condition:

Proposed Start Date: 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
72	12173072-CC	14.7	4130 - Aspen	6	47	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Harvest all merchantable trees except conifers and oak to promote aspen regeneration. Retention should include large diameter, forked crown aspen, and a diverse mix of species. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u> <u>Other</u> Include all applicable oak wilt specs for timber sale. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
75	12173075-Cut	7.3	4123 - Red Oak	9	99	111-140	Harvest	Seed Tree	4319 - Mixed Upland Forest	Cutting Record	No
<u>Prescription</u> Harvest all merchantable trees except conifers. Do not leave any interior oak trees or retention. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u> <u>Other</u> No long-term retention due to interior and/or adjacent forest health concerns. Include all applicable oak wilt specs for timber sale. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
17	12173075-OW	6.3	4123 - Red Oak	8	99	111-140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
<u>Prescription</u> Harvest all trees 2" DBH and larger to prep site for mixed pine planting. If available, exclude patches with pure aspen saplings to retain for diversity. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen; <u>Treatments:</u> Planting, Interplant; Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Pesticide, Ae <u>Acceptable</u> Mixed 50% red pine/50% white with white oak mix option if available during or after initial planting. <u>Regen:</u> <u>Other</u> Alternate tree boxes while planting to create a red pine / white pine mix. Plant white oak within, possibly in open patches, when funding and source is available. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
17	12173078-OW	3.3	4123 - Red Oak	8	99	111-140	Harvest	Clearcut	4310 - Pine, Oak Mix	Planting Record	No
<u>Prescription</u> Harvest all trees 2" DBH and larger to prep site for mixed pine planting. <u>Specs:</u> <u>Next Step</u> Pesticide, Skidder - Site Prep; Planting, Unfurrowed; Monitoring, Artificial Regen; Pesticide, Aerial - Release; Monitoring, Artificial Regen; <u>Treatments:</u> Planting, Interplant; Pesticide, Aerial - Site Prep; Pesticide, Drone - Site Prep; Pesticide, Ae <u>Acceptable</u> Mixed 50% red pine/50% white with white oak mix option if available during or after initial planting. <u>Regen:</u> <u>Other</u> Plant white pine. Plant white oak within, possibly in open patches, when funding and source is available. <u>Comment:</u> <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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89	12173089-Cut	11.5	4123 - Red Oak	9	99	141-170	Harvest	Clearcut	4121 - Oak, Aspen	Planting Record	No
<u>Prescription</u> Harvest all merchantable trees except conifers. This treatment will include the south 1/2 to 2/3 of this stand where more aspen and mixed hardwood are present to create a more diverse mixed stand. The north portion dominated by oak will be retained. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> Any Combination of the current overstory species. <u>Regen:</u> <u>Other</u> Treatment layer is an estimate and may change. Include all applicable oak wilt specs for timber sale. <u>Comment:</u> <u>Site Condition:</u> Wildlife Concerns <u>Proposed Start Date:</u> 10/01/2025											
92	12173092-Cut	7.7	4125 - Black, N. Pin Oak	6	99	111-140	Harvest	Shelterwood	4319 - Mixed Upland Forest	Cutting Record	No
<u>Prescription</u> Harvest all merchantable trees except pine species to promote oak and pine regeneration and release current desirable advanced regeneration. <u>Specs:</u> Leave no interior oak or long term retention for regeneration and forest health concerns. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u> <u>Other</u> Use caution to not damage current saplings during timber sale operations. Include all applicable oak wilt specs for timber sale. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2025											
97	12173097-CC	4.8	4130 - Aspen	6	46	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Harvest all merchantable trees except conifers and oak to promote aspen regeneration. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u> <u>Other</u> No long term retention due to small and narrow stand size. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2031											

Total Treatment Acreage Proposed: 424.5



Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

5B 5C 5F MC 2F 2G 3J 3L 5E

720	584	63	72	Aspen		35		29	36		32		4
49	49	0	0	Cedar									
16	0	0	16	Lowland Conifers						16			
57	14	0	43	Lowland Deciduous						9	34		
14	14	0	0	Lowland Mixed Forest									
9	9	0	0	Mixed Upland Deciduous									
311	108	197	6	Oak	16	52	129					5	1
175	150	25	0	Red Pine		25							
17	1	17	0	Upland Mixed Forest		17							
61	61	0	0	Urban									
20	20	0	0	Water									
1,450	1,010	302	138	Total Forested Acres	16	128	129	29	36	25	66	5	5
	70%	21%	10%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5F: Evaluated for Forest Health Considerations	19	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area of Stand 12 with no current oak wilt infections. Mature oak including areas with a good component of mature aspen mixed in.								
2	Available	5F: Evaluated for Forest Health Considerations	9	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand 59 area not currently effected by oak wilt.								

Report 4 – Site Conditions



3	Unavailable	2F: Too steep	13	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Long steep inoperable slopes and/or low, poorly drained ground at the bottom of the slopes.							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Allow younger age class to grow larger.							
5	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for Stand 15. Patches seem healthy yet except the far north bubble which is riddled with dead oak.							
6	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for Stand 40. Pockets contain patches of dead oak.							
7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for Stand 23. Contains 3 mature oak pockets. All are healthy except for one dead oak tree in the NE bubble.							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention consisting of patchy oak with saplings, and a steeper hillside with mature oak.							
9	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	6	2G: Too wet (sensitive soils, does not include access issues)	5E: Long-Term Retention	Unspecified	Unspecified
Comments: 100' river buffer for Brule River, poorly drained ground, and long term retention for stand 36.							



10	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: 100' river buffer and long term retention for Stand 27.							
11	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	4	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Low drainage ravine with poorly drained ground. Long term retention for Stand 9.							
12	Available	Minor Change in Acreage	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 660' Wood Turtle buffer needed for operations from 3/15 - 9/30.							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was thinned in 2020.							
14	Unavailable	2F: Too steep	24	3J: Water quality/BMPs (stream, river, or lake)	5E: Long-Term Retention	Unspecified	Unspecified
Comments: Estimated exclusion for 100' river buffer and inoperable slopes. Long term retention for Stand 55. This may change during future management but will hold at least a 100' river buffer.							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Allow younger aspen age class to grow to a more merchantable size. No current oak wilt infections and a lot more diversity transitioning to pole sized trees.							

Report 4 – Site Conditions



16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consider harvest next YOE. Aspen will be more merchantable size.							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Healthy oak on a high elevation hump. Part of long term retention for Stand 75.							
18	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for Stand 3 containing mature oak and surrounded by dense aspen stocking.							
19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for Stand 72. Mix of mature aspen and some oak.							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Areas that will be excluded from thinning this YOE. Contains sparser oak canopy with better growing conditions for advanced regeneration.							
21	Unavailable	3L: Other wildlife concerns	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retain mature oak on the landscape for wildlife.							

Report 4 – Site Conditions



22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Approximately half of Stand 7 being held to break up a larger stand to create more age class diversity in the area.							
23	Available	5F: Evaluated for Forest Health Considerations	20	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: Areas of Stand 75 with either no current oak wilt infections or secluded patches with very little spread potential. A majority of the stand has dense aspen saplings and scattered mature oak to limit significant spread.							
24	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	7	2F: Too steep	5E: Long-Term Retention	Unspecified	Unspecified
Comments: Steep slope in areas along the Brule River and 100' river buffer. Long term retention for Stand 51.							
25	Available	5F: Evaluated for Forest Health Considerations	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Areas of mature oak left, currently no oak wilt within or effecting the area left.							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: Flooded ground with denser cedar across most areas.							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Flat floodplain with saturated ground and black ash bordering the Brule River.							

Report 4 – Site Conditions



28	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	34	2G: Too wet (sensitive soils, does not include access issues)	2F: Too steep	Unspecified	Unspecified
Comments: Mostly saturated floodplain flats with black ash and cedar along the Brule River. Steep, long slope along RR grade trail to the stand with no good access.							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very saturated ground with cedar and sparse, declining stocking of conifer and alder.							
30	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: After a 300' trout stream buffer, there is approximately 1/2 acre in the center that can be managed.							
31	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Areas of Stand 5 with dense aspen saplings and scattered oak with minimal chance of OW spread.							
32	Available	5F: Evaluated for Forest Health Considerations	9	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Area of Stand 17 with no current oak wilt infections. Mature, dense oak, consider thinning in near future.							
33	Available	5B: Maintain for regeneration purposes	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense aspen saplings.							



34	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Recently harvested area leaving all oak. Sapling recruitment is doing well where enough sunlight is available.							
35	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area of Stand 49 with dense saplings and scattered oak with minimal chance for OW spread.							
36	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention containing a steeper hillside with mature, healthy oak and hemlock.							
37	Available	5F: Evaluated for Forest Health Considerations	19	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Area of Stand 37 with no current oak wilt infections.							
38	Available	5F: Evaluated for Forest Health Considerations	5	5T: Contingency Treatment for Forest Health Concerns	Unspecified	Unspecified	Unspecified
Comments: Area of Stand 37 that contains scattered oak wilt infections, mainly along the powerline ROW. Future spread may be limited with stand diversity. Monitor for spread and possible future management.							
39	Available	5F: Evaluated for Forest Health Considerations	29	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Area of Stand 4 with no current oak wilt infections.							



40	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention (3.5%) for the east half of Stand 7 including mature aspen and oak.							
41	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention of mature oak for Stand 89.							
42	Available	5F: Evaluated for Forest Health Considerations	12	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Area of Stand 73 with pure oak and no current signs of oak wilt.							
43	Unavailable	5E: Long-Term Retention	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Dense mature oak patch and/or lowland alder/hardwood exclusion. Long term retention for Stand 38.							
45	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small interior patch with dense aspen saplings excluded from current treatment.							

Mgt. Unit

Compartment: #Type!
Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	4130 - Aspen	Poletimber Well	14.4	25	1-50	N/A	Dense aspen stand transitioning to pole sized trees with some mature oak speckled within. More bigtooth in the south half and quaking in the north half.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	30	Pole	4	25	White Pine	Low		Variable	Variable
White Pine	1		18		Red Maple	High		Variable	Variable
Paper Birch	1	Pole	3		White Spruce	Low		Variable	Variable
Bigtooth Aspen	63	Sapling	5	25					
Red Oak	5		13	99					
2	4130 - Aspen	Poletimber Well	16.9	33	Immature	N/A	Dense aspen, small pole sized trees. Oak and a few mature pine are scattered within.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	1		18		White Spruce	Low		Variable	Variable
Red Oak	5		13	99	Red Maple	Medium		Variable	Variable
White Spruce	1	Seedling	8						
Quaking Aspen	15	Sapling	6	33					
Red Maple	3	Sapling	5	33					
Paper Birch	2	Sapling	6						
Bigtooth Aspen	73	Sapling	7	33					
3	4131 - Aspen, Oak	Poletimber Well	22.4	46	111-140	N/A		Aspen pole stand. There is a fair amount of mature oak scattered across the stand. Oak is scattered enough to not have continuous spread from oak wilt in most areas. There are a couple of spreading dead oak patches in the SE corner and the NW corner. The SE patch has oak density to continue spreading. The NW patch has less oak density and should slow/stop with more species diversity. A couple of drainage ravines run N/S across the stand and will probably need to be excluded from future management.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Red Oak	25		14	99	Balsam Fir	Low	Variable		Variable
White Pine	2		22		Red Maple	Low	Variable		Variable
Quaking Aspen	30	Seedling	7	46	White Pine	Low	Variable		Variable
Red Maple	3	Sapling	7	46					
Paper Birch	2		8						
Bigtooth Aspen	38	Seedling	8	46					
4	4123 - Red Oak	Sawtimber Well	49.1	99	171-200	N/A	Very dense oak stand over 200 BA in a lot of areas. Average small log size trees with natural mortality occurring due to being severely suppressed. A few small visible dead oak patches were investigated in the field and appear to be natural mortality with no spread occurring. More aspen mixed in the west 1/3 turning to nearly solid oak in the east 2/3. Very small areas were harvested in 2021 in the SW corner and the far east edge that contain some young regen but also denser oak canopies. Moderate rolling terrain in areas.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	85		13	99	White Pine	Low		Variable	Variable
White Pine	2		20		Red Maple	Medium		Variable	Variable
Red Maple	3	Seedling	8		Red Maple	Low		Variable	Variable
Paper Birch	1	Seedling	8						
Bigtooth Aspen	9		12	99					
5	4123 - Red Oak	Sawtimber Medium	10.8	99	81-110	N/A	Dense oak patches with some small young aspen areas mixed in. Numerous, aggressive spreading dead oak patches within stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	100		12	99	Quaking Aspen	High		Variable	Variable
					Red Maple	Medium		Variable	Variable
					Bigtooth Aspen	Low	Variable	Variable	



10MICHIGAN

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed State	General Comments																																																			
6	4123 - Red Oak	Sawtimber Well	71.8	99	111-140	N/A	This is the healthiest oak stand in this Compartment. Stand has been managed in the past with oak being thinned. Oak is healthier with more stout branches and larger diameter trees compared to other unmanaged stands. Oak canopy is closed across a majority of the stand averaging 110-120 BA+ across oak areas. Understory has maple and aspen saplings from last harvest. Aspen is doing well with smaller gaps across the stand but is barely holding on with the limited sunlight. No signs of dead oak except along the south edge. Spreading dead oak along the south private line from adjacent past harvest. Adjacent private landowner along the south edge clearcut during peak oak wilt season up to the state land border. Significant new mortality and spread along the line is anticipated in the coming years. Oak stocking is dense enough for continuous spread across the entire stand.																																																			
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OPIC - FMD: Shelterwood cut to 50' BA oak retention. Summer cut for scarification (after July 15). (2006) Shelterwood cut in 2010. Everything removed but oak and pine. (2010)																																																										
7	4130 - Aspen	Poletimber Well	66.6	47	111-140	N/A	Good quality aspen pole stand. Mature scattered oak and pine mixed in, mainly in the NW half of the stand. More fir and hazel in the understory in the north half. Some open patches and edges show good natural pine regeneration. Lower patch of ground in the NE may have to be excluded from future management. Retain the W/NW half of the stand to create more aspen age class diversity in the area.																																																			
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8	4130 - Aspen	Poletimber Well	50.9	48	111-140	N/A	Good quality mixed aspen poles. Scattered mature oak and pine found across the stand. Fingers and areas along the north have steep slopes down to low ground flats. A fair amount may need to be excluded from future management for operations and BMP's. Some areas have beefy oak and pine seedlings present.																																																			
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9	4130 - Aspen	Poletimber Well	30.5	25	1-50	N/A	Young mixed aspen stand transitioning to pole sized trees. Stand is heavy to bigtooth with scattered oak and some pine mixed in. A lower ravine along the NW should be excluded from future management. A large rock outcrop in the north was excluded during the last harvest but some of this may be included in future management.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
10	4130 - Aspen	Poletimber Well	27.8	48	111-140	N/A	Good quality aspen pole stand with mainly quaking aspen. Fairly open understory across most of the area. Some oak is mixed in, mainly in the west. Very few scattered conifer within.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	1		18		Red Maple	Low		Variable	Variable
Red Oak	6		13	99	Red Oak	Trace		Variable	Variable
White Pine	1		15	99	White Spruce	Trace		Variable	Variable
Bigtooth Aspen	7	Seedling	9	48					
Quaking Aspen	85	Seedling	8	48					
11	4130 - Aspen	Poletimber Well	35.0	23	Immature	N/A	Dense aspen stand transitioning to pole sized trees. Scattered mature oak and white pine within.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	2		22		Red Maple	Medium		Variable	Variable
Red Oak	12		14	99	Red Oak	Trace		Variable	Variable
Red Maple	7	Pole	3						
Bigtooth Aspen	64	Sapling	5	23					
Quaking Aspen	15	Sapling	5	23					
12	4123 - Red Oak	Sawtimber Well	33.5	99	171-200	N/A	Good quality oak but extremely suppressed averaging smaller diameter, larger pole to small sawlog range. Most areas are reaching up to 200BA for stocking. Some small clones of large, very mature aspen is mixed in as well as some red maple and birch poles. Significant amount of spreading dead oak patches along the SE edge from past adjacent timber sale. Area north of the road also has numerous spreading dead oak patches. Adjacent private landowner along the south edge clearcut during peak oak wilt season up to the state land border. Significant new mortality and spread along the line is anticipated in the coming years. Oak stocking is dense enough for continuous spread across the entire stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	2		17		Red Maple	Medium		Variable	Variable
Quaking Aspen	3		11		Paper Birch	Low		Variable	Variable
Red Maple	3	Sapling	7						
Paper Birch	7	Seedling	8						
Bigtooth Aspen	5		12						
Red Oak	80		10	99					
13	4131 - Aspen, Oak	Sawtimber Well	38.3	34	81-110	N/A	Areas dense to younger aspen poles, otherwise oak log canopy. Spreading dead oak along the south private line from adjacent past harvest. Adjacent private landowner along the south edge clearcut during peak oak wilt season up to the state land border. Significant new mortality and spread along the line is anticipated in the coming years. Oak stocking is dense enough for continuous spread across the entire stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	50		14	99	Red Maple	High		Variable	Variable
Red Pine	1		22		Bigtooth Aspen	Low		Variable	Variable
Red Maple	3	Sapling	5						
Paper Birch	2	Sapling	5						
Bigtooth Aspen	25	Seedling	6	34					
White Pine	1		22						
Quaking Aspen	18	Sapling	6	34					
14	4123 - Red Oak	Sawtimber Well	25.5	99	141-170	N/A	Cut in 2021. Everything except oak was removed leaving a solid canopy of red oak which is still very dense. Aspen regen present in some of the understory will not succeed with current canopy conditions. Stand is absolutely obliterated with aggressive spreading dead oak patches.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	95		13	99	Red Maple	Medium		Variable	Variable
Red Pine	3		18		Bigtooth Aspen	Low		Variable	Variable
White Pine	2		18						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
15	4130 - Aspen	Sapling Well	58.4	5	Immature	N/A	Dense aspen saplings solid to bigtooth. Scattered mixed pine, mature oak found in the south 1/3, and scattered retention patches. Retention patches are all healthy except for the far NW one which has numerous dead oak spreading.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	4		8		Red Maple	Medium		Variable	Variable
Red Maple	4	Log	1		Red Oak	Medium		< 5 feet	< 5 feet
Bigtooth Aspen	81	Log	1	5	White Pine	Low		Variable	Variable
White Pine	3		8						
Red Oak	8		12						
16	4130 - Aspen	Poletimber Well	21.4	36	51-80	N/A	Aspen and maple mix with scattered mature oak and pine within. Aspen is heavy to quaking with more of the bigtooth in the east half. Mix of red maple is good quality, tall and straight but just under merchantable size yet.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	45	Sapling	5	36	Red Maple	High		Variable	Variable
White Pine	3		10		Red Oak	Low		Variable	Variable
Red Oak	5		13	99	White Pine	Low		Variable	Variable
Northern Pin Oak	3		9						
Red Pine	2		10	99					
Red Maple	10	Sapling	6						
Paper Birch	2	Sapling	7						
Bigtooth Aspen	30	Sapling	6	36					
17	4123 - Red Oak	Sawtimber Medium	10.9	99	111-140	N/A	red oak logs. patches of alien pipes that succeeded with gaps. dead oak patchpine seedlings not very dense but healthy and scattered across entire underskirt		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	1		20		Red Pine	Low		< 5 feet	< 5 feet
Red Pine	2		16	99	Red Maple	High		Variable	Variable
Bigtooth Aspen	17	Pole	4	37	Bigtooth Aspen	Low		>20 feet	>20 feet
Red Oak	80		13	99	White Pine	Low		< 5 feet	< 5 feet
18	4130 - Aspen	Sapling Well	14.4	4	Immature	N/A	Cut in 2021. Dense aspen saplings with a couple of interior retention patches.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Oak	10	Log	1						
Quaking Aspen	10	Log	1	4					
Red Maple	5	Log	1						
Bigtooth Aspen	75	Log	1	4					
19	4123 - Red Oak	Sawtimber Well	19.0	99	111-140	N/A	Red oak log canopy with patchy dense areas of aspen. Dense red maple sapling understory across much of the stand. One dead oak patch found in the SW was inspected, it appears to have stopped spreading with a light enough oak canopy and more diverse mix of maturing aspen and maple.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	1		20		White Pine	Low		< 5 feet	< 5 feet
Red Pine	2		16	99	Red Pine	Low		< 5 feet	< 5 feet
Bigtooth Aspen	17	Pole	4	37	Red Maple	High		Variable	Variable
Red Oak	80		13	99	Bigtooth Aspen	Low		>20 feet	>20 feet





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
25	42110 - Planted Red Pine		Poletimber Well	59.0	62	141-170	N/A	Thinned in 2020. Red pine, large pole to small sawlog sized stand. Stocking ranges from very dense to lighter in areas across the stand. Average of 150 BA across entire stand ranging from 80 BA to 200 BA. Oak and red maple saplings are dense in certain areas within the stand. 160 150 200 190 80 120 150 150 160 Average 150 BA.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	Northern Pin Oak	1		10		Northern Pin Oak	Low		Variable	Variable
	Red Pine	94		9	62	Quaking Aspen	Low		Variable	Variable
	Red Oak	2		12		Red Maple	Medium		Variable	Variable
	White Pine	3		12		Red Oak	Medium		Variable	Variable
						White Spruce	Low		Variable	Variable
26	4130 - Aspen		Poletimber Well	29.0	48	111-140	N/A	Nice stand of quaking aspen poles. Averages large pole to small sawlog sized trees although some areas average a slightly smaller diameter. Large pine mixed in patches and scattered across the area. Dense hazel understory in areas.		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
	White Spruce	1		11		Northern Pin Oak	Low		Variable	Variable
	Quaking Aspen	88		9	48	Red Pine	Low		Variable	Variable
	Red Pine	4		14		White Spruce	Low		Variable	Variable
	Paper Birch	1	Seedling	7		White Pine	Low		Variable	Variable
	White Pine	5		15		Black Cherry	Low		Variable	Variable
	Black Cherry	1	Sapling	7						
27	4136 - Aspen, Mixed Conifer		Sapling Well	23.7	24	1-50	N/A	Patches of declining fir with aspen and mixed hardwood saplings filling in. Any salvage of declining fir will damage better regen on site. Unmanaged patch in the far NE corner should be included with future management. Aspen was cut out and other species retained before state acquired parcel.		
	Canopy Species	% Cover	Size Class	DBH	Age					
	Balsam Fir	15	Sapling	7	74					
	Quaking Aspen	60	Log	2	24					
	Red Maple	20		8	74					
	White Pine	5		10						
28	4130 - Aspen		Sapling Well	15.6	6	1-50	N/A	Aspen sapling stand with large seed tree pine left. Some small patches are more sparse but overall fully stocked and should fill in with time.		
	Canopy Species	% Cover	Size Class	DBH	Age					
	Red Maple	5	Log	1						
	Red Pine	3		14	99					
	Quaking Aspen	85	Log	1	6					
	White Pine	7		14	99					
29	4130 - Aspen		Sapling Well	12.1	6	Immature	N/A	Dense aspen saplings with some scattered mature pine. Pine is mainly found in the north half.		
	Canopy Species	% Cover	Size Class	DBH	Age					
	Red Pine	1		20						
	White Pine	5		10						
	Red Maple	7	Log	1						
	Quaking Aspen	87	Log	1	6					



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																				
43	4121 - Oak, Aspen	Sawtimber Well	60.1	99	111-140	N/A	Rolling terrain across stand. Ranges from denser oak log patches to dense aspen pole areas. Aspen is heavy to bigtooth transitioning to quaking on the lower elevations. Aspen on higher elevations has larger diameter. Dead oak clumps scattered in the north and a larger vein containing numerous pockets zigzags across the SW area.																																																																				
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44	6120 - Lowland Cedar	Poletimber Well	16.6	99	141-170	N/A	Very dense cedar across a majority of the stand. Patch in the far east has some more mixed conifer and aspen mixed in. Low, flooded ground.																																																																				
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46	4130 - Aspen	Poletimber Well	25.5	47	111-140	N/A	Good quality aspen stand. Some mature oak mixed in. A low swale runs along the east edge and may have to be excluded from future management.																																																																				
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47	4319 - Mixed Upland Forest	Sawtimber Well	0.6	100	111-140	N/A																																																																					



Stand

Level 4 Cover Type

Size Density

Acres

Stand Age

BA Range

Managed Site

General Comments

49

4123 - Red Oak

Sawtimber Medium

8.3

99

81-110

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	2	Sapling	6	
Red Oak	96		13	99
White Pine	1		16	
Red Pine	1		16	

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	Variable	Variable
Red Maple	High	Variable	Variable
Bigtooth Aspen	Medium	Variable	Variable
Red Oak	Trace	Variable	Variable

Cut in 2009. Dense oak canopy with some open sapling sized patches of mixed aspen and maple. Numerous spreading dead oak patches across the stand south of Paint Pond Road, north of the road is healthy yet and has some larger canopy gaps. Adjacent private landowner along the south edge clearcut during peak oak wilt season up to the state land border. Significant new mortality and spread along the line is anticipated in the coming years. Oak stocking is dense enough for continuous spread across the entire stand.

51

4130 - Aspen

Poletimber Well

125.6

44

111-140

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	7		15	
Sugar Maple	1		9	
Red Maple	10		9	
Paper Birch	1	Seedling	6	
Bigtooth Aspen	12	Seedling	9	
Red Pine	3		14	
Quaking Aspen	65	Seedling	8	44
White Pine	1		14	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Trace	Variable	Variable
Red Maple	Low	Variable	Variable
Red Maple	Medium	Variable	Variable
Paper Birch	Trace	Variable	Variable

Nice aspen poles with good diameter. Stand is heavy to quaking aspen with some bigtooth clones mixed in, mainly on elevation rises. More diverse mix in the NW area with a bit more pine and hardwood mixed in. Unmanaged areas along the south due to slope and BMP's. Half of this stand will be held until next YOE to create aspen age class diversity in the area. Aspen is healthy and will hold up well. Edges of the adjacent red pine stand were avoided for the proposed harvest due to dense saplings along edges from 2021 harvest to allow the edge to become more established.

52

42110 - Planted Red Pine

Poletimber Well

51.4

62

81-110

N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	1		12	
Red Pine	99		8	62

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	Variable	Variable
Quaking Aspen	Full	10 - 20 feet	10 - 20 feet
Red Maple	Low	Variable	Variable

Cut in 2021. Large pole to small sawlog sized red pine stand. A lot of areas have a very light canopy of red pine and dense aspen sapling regeneration from past harvest. A lot of aspen saplings will have enough light to succeed into the future.

53

6128 - Lowland Coniferous, Mixed Deciduous

Poletimber Well

9.8

99

51-80

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20		12	
Black Spruce	35		8	99
Northern White Cedar	35		9	
White Pine	10		14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Variable
Tag Alder	Medium	5 - 10 feet	5 - 10 feet

Spruce/fir is dead and/or declining. Wet flooded ground except a small patch along the W/NW.

54

6117 - Lowland Deciduous, Mixed Coniferous

Poletimber Well

8.7

99

81-110

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10		8	
White Spruce	5		9	99
Black Spruce	10	Sapling	7	
White Pine	3		14	99
Red Maple	15		10	
Black Ash	45	Sapling	7	99
Quaking Aspen	12		12	99

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Variable
Tag Alder	Medium	5 - 10 feet	5 - 10 feet

Floodplain along the Brule River with saturated soil. Dead and dying black ash along the river. Conifer and aspen are falling apart.

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
71	42210 - Natural Red Pine	Sawtimber Well	25.0	99	81-110	N/A	Thinned in 2020. Most merchantable species were removed. Scattered mature oak across the stand. Some mixed understory saplings and areas with good oak seedlings.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		78		12	99	White Pine		Low	Variable	Variable	
Red Maple		5	Sapling	6		Red Pine		Low	Variable	Variable	
Red Oak		7		12		Red Maple		Medium	Variable	Variable	
White Pine		10		12		Bigtooth Aspen		Low	Variable	Variable	
						Red Oak		Medium	Variable	Variable	
						Red Oak		Medium	< 5 feet	< 5 feet	
72	4130 - Aspen	Poletimber Well	15.4	47	111-140	N/A	Nice aspen pole stand with pure quaking aspen. Some pine and oak scattered within. Understory is fairly open.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		2		11		White Pine		Low	Variable	Variable	
Quaking Aspen		90	Seedling	8	47	Black Cherry		Low	Variable	Variable	
Red Oak		2		11	99	White Spruce		Low	Variable	Variable	
Red Maple		1	Sapling	6	47	Balsam Fir		Low	Variable	Variable	
White Pine		5		14							
73	4123 - Red Oak	Sawtimber Medium	7.1	99	81-110	N/A		Cut in 2009. Dense oak canopy with some open sapling sized patches of mixed aspen and maple. Numerous spreading dead oak patches across the stand south of Paint Pond Road, north of the road is healthy yet and has some larger canopy gaps. Adjacent private landowner along the south edge clearcut during peak oak wilt season up to the state land border. Significant new mortality and spread along the line is anticipated in the coming years. Oak stocking is dense enough for continuous spread across the entire stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
Paper Birch		2	Sapling	6		Quaking Aspen	Low		Variable	Variable	
White Pine		1		16		Red Oak	Trace		Variable	Variable	
Red Pine		1		16		Red Maple	High		Variable	Variable	
Red Oak		96		13	99	Bigtooth Aspen	Medium		Variable	Variable	
75	4123 - Red Oak	Sawtimber Well	33.5	99	111-140	N/A	Cut in 2009. This stand was delineated out from the adjacent stand due to the closed, dense oak canopy. Spreading dead oak patches across the entire stand, most abundant in the south half. Adjacent private landowner along the east edge clearcut during peak oak wilt season up to the state land border. Significant new mortality and spread along the line is anticipated in the coming years. Oak stocking is dense enough for continuous spread across the entire stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
White Pine		2		17		Quaking Aspen		Low	Variable	Variable	
Red Oak		96		12	99	Red Maple		Medium	Variable	Variable	
Red Pine		2		15		Bigtooth Aspen		Medium	Variable	Variable	
78	4123 - Red Oak	Sawtimber Well	15.3	99	141-170	N/A		Dense oak log stand. Majority of understory is very dense to red maple saplings. Dead oak patches in the center and north half showing spread.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Oak		95		13	99	Red Maple			High	Variable	Variable
Red Maple		2	Sapling	7		Bigtooth Aspen	Low		Variable	Variable	
Bigtooth Aspen		3	Sapling	6	36						



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
88	4130 - Aspen	Sapling Well	10.9	10	Immature	N/A	Aspen sapling stand.																																																			
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89	4123 - Red Oak	Sawtimber Well	17.2	99	141-170	N/A	Dense canopy heavy to oak. Similar to adjacent oak stands but contains a heavier component of large mature aspen, mainly in the south half. Dead oak patches scattered across entire stand are showing signs of aggressive, continued spread.																																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>72</td><td></td><td>13</td><td>99</td></tr><tr><td>Red Maple</td><td>3</td><td></td><td>8</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>25</td><td></td><td>11</td><td>99</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	72		13	99	Red Maple	3		8		Bigtooth Aspen	25		11	99	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Variable	Red Maple	Low	Variable	Variable																				
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92	4125 - Black, N. Pin Oak	Poletimber Well	7.7	99	111-140	N/A	Mixed oak stand that is heavy to northern pin oak. Red oak and pine are healthy but northern pin oak is older and showing some decline. A fair amount of oak seedlings/saplings are found in the understory.																																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Northern Pin Oak</td><td>75</td><td></td><td>9</td><td>99</td></tr><tr><td>Red Pine</td><td>3</td><td></td><td>12</td><td></td></tr><tr><td>White Pine</td><td>7</td><td></td><td>10</td><td>99</td></tr><tr><td>Red Oak</td><td>15</td><td></td><td>12</td><td>99</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Northern Pin Oak	75		9	99	Red Pine	3		12		White Pine	7		10	99	Red Oak	15		12	99	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Oak</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>White Pine</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>High</td><td>Variable</td><td>Variable</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Oak	Low	< 5 feet	< 5 feet	White Pine	Medium	< 5 feet	< 5 feet	Red Maple	Medium	Variable	Variable	Red Maple	High	Variable	Variable							
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93	6139 - Mixed Lowland Forest	Sapling Medium	3.7	4	Immature	N/A	Cut in 2021. Patchy aspen and mixed hardwood regeneration present. There is a good amount of shorth black spruce regeneration. Thick alder in a lot of areas. This stand is not fully stock but more time should allow conifers to become established.																																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black Spruce</td><td>50</td><td>Log</td><td>1</td><td>4</td></tr><tr><td>Black Cherry</td><td>10</td><td>Log</td><td>1</td><td>4</td></tr><tr><td>Quaking Aspen</td><td>40</td><td>Log</td><td>1</td><td>4</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	50	Log	1	4	Black Cherry	10	Log	1	4	Quaking Aspen	40	Log	1	4	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Black Spruce</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	5 - 10 feet	5 - 10 feet	Black Spruce	Medium	< 5 feet	< 5 feet																				
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94	4123 - Red Oak	Sawtimber Well	12.6	99	111-140	N/A	Mainly denser red oak canopy. Areas of younger dense aspen poles in the center. Spreading dead oak patches in the NW corner and along the east edge.																																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>68</td><td></td><td>14</td><td>99</td></tr><tr><td>Red Pine</td><td>1</td><td></td><td>22</td><td></td></tr><tr><td>Red Maple</td><td>3</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Paper Birch</td><td>2</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>20</td><td>Seedling</td><td>7</td><td>34</td></tr><tr><td>White Pine</td><td>1</td><td></td><td>22</td><td></td></tr><tr><td>Quaking Aspen</td><td>5</td><td>Sapling</td><td>6</td><td>34</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	68		14	99	Red Pine	1		22		Red Maple	3	Sapling	5		Paper Birch	2	Sapling	5		Bigtooth Aspen	20	Seedling	7	34	White Pine	1		22		Quaking Aspen	5	Sapling	6	34	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>High</td><td>Variable</td><td>Variable</td></tr><tr><td>Bigtooth Aspen</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	High	Variable	Variable	Bigtooth Aspen	Low	Variable	Variable
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
97	4130 - Aspen	Poletimber Well	4.8	46	111-140	N/A	Good quality aspen with some oak mixed in. Stand was left from past harvest due to an old trespass case.																																											
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100	4130 - Aspen	Poletimber Well	8.5	36	111-140	N/A	Very good quality aspen pole stand. Heavy to bigtooth with elevation hump across most of the stand. A few scattered mature oak and pine scattered across the stand.																																											
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101	500 - Water	None	9.9	0		No	Brule River																																											
106	500 - Water	None	8.0	0		No	Brule River																																											
400	110 - Low Intensity Urban	None	3.6			No	Power line																																											
401	110 - Low Intensity Urban	None	7.5			No	Power line																																											
402	110 - Low Intensity Urban	None	12.7			No	Power line																																											
404	110 - Low Intensity Urban	None	5.6			No	Power line ROW.																																											