



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12043

Entry Year: 2027

Acreage: 1,946

County: Dickinson

Management Area: Ralph Moraine

Stand Examiner: Deb Goupell

Legal Description:

T43N R29W sections 4, 6 - 11, 14 - 17

Identified Planning Goals:

Manage all forested cover types on a sustainable yield. Develop an age class distribution within aspen cover type as directed by SFMP management plan, prescribing for harvest by age 50. Encourage diversity and conifers where possible.

Soil and topography:

Fine sandy loams, sands, and muck soils. The eastern end of the compartment has a higher incidence of wet soils.

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

Private lands intersperse the compartment, both private individuals and industrial forest. Active forest management has occurred and will continue within and surrounding the compartment.

Unique Natural Features:

None identified

Archeological, Historical, and Cultural Features:

None recorded

Special Management Designations or Considerations:

High priority trout streams

Watershed and Fisheries Considerations:

This compartment contains Two Mile Creek, Turner Creek, and the Main Branch Ford River. Two Mile Creek, Turner Creek, and the Main Branch Ford River are designated Type 1 trout streams less than 50 feet wide with predicted mean July water temperatures that range from 62.8 to 66.4°F (cold streams). A 300-foot buffer is recommended for Two Mile Creek, Turner Creek, and the Main Branch Ford River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100 feet, plus 5 feet per 1% increase in slope, riparian management zone is recommended to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

The abundance of lowland conifer coupled with the interspersions of aspen and hardwoods provides good habitat for ruffed grouse and snowshoe hare. This area is also highly important for black bear due to the black ash stands throughout. The three rivers, the Ford River, Turner Creek and Two Mile Creek comprising the north, south and west boundaries of this compartment provide excellent habitat for many aquatic furbearers such as beaver, otter, mink and muskrat, as well as, several species of turtles, salamanders and frogs.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. No active sand/gravel operations are known to exist in the area. There is some good potential for development of sand & gravel within the compartment on the uplands, but the compartment might be too far from populated areas (commercial markets) for any aggregate resources present to have much value beyond use by the county road commission or DNR for local road maintenance. Some test drilling of an intrusion – mainly under former State mineral leases – for nickel, copper, and platinum group metals occurred in the eastern end of the compartment in 2012. The results of that exploration work are not currently available. Additional past test drilling for iron ore was completed just north of the compartment, and there are active State metallic mineral leases a couple miles northeast. Aside from the intrusion noted above, available geophysical data does not indicate significant potential for future targets of metallic mineral exploration beneath the compartment. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Access is good to fair depending on the area of the compartment. There are several blocks within the compartment that have poor to no access unless through private. Turner Road provides access on south; woods road that goes south off Fire Tower Rd/Two Mile Ck Rd connects to Turner but passes through private that occasionally has gate closed on south end.

Survey Needs:

T43N R29W Sec 4 & 10

Recreational Facilities and Opportunities:

Snowmobile trail runs through compartment

Fire Protection:

Felch protection area

Additional Compartment Information:

The following reports from the Inventory are attached:

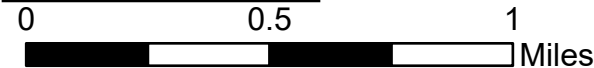
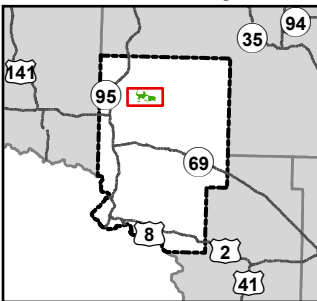
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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: 12043
T43N R29W sections 4, 6 - 11, 14 - 18
County: Dickinson
Unit: Crystal Falls
Mgmt. Area: Ralph Moraine
YOE: 2027
Acres: 1,946 GIS Calculated
Examiner: Deb Goupell
Date Exported: 08/22/2025
Map Phase: Web Post

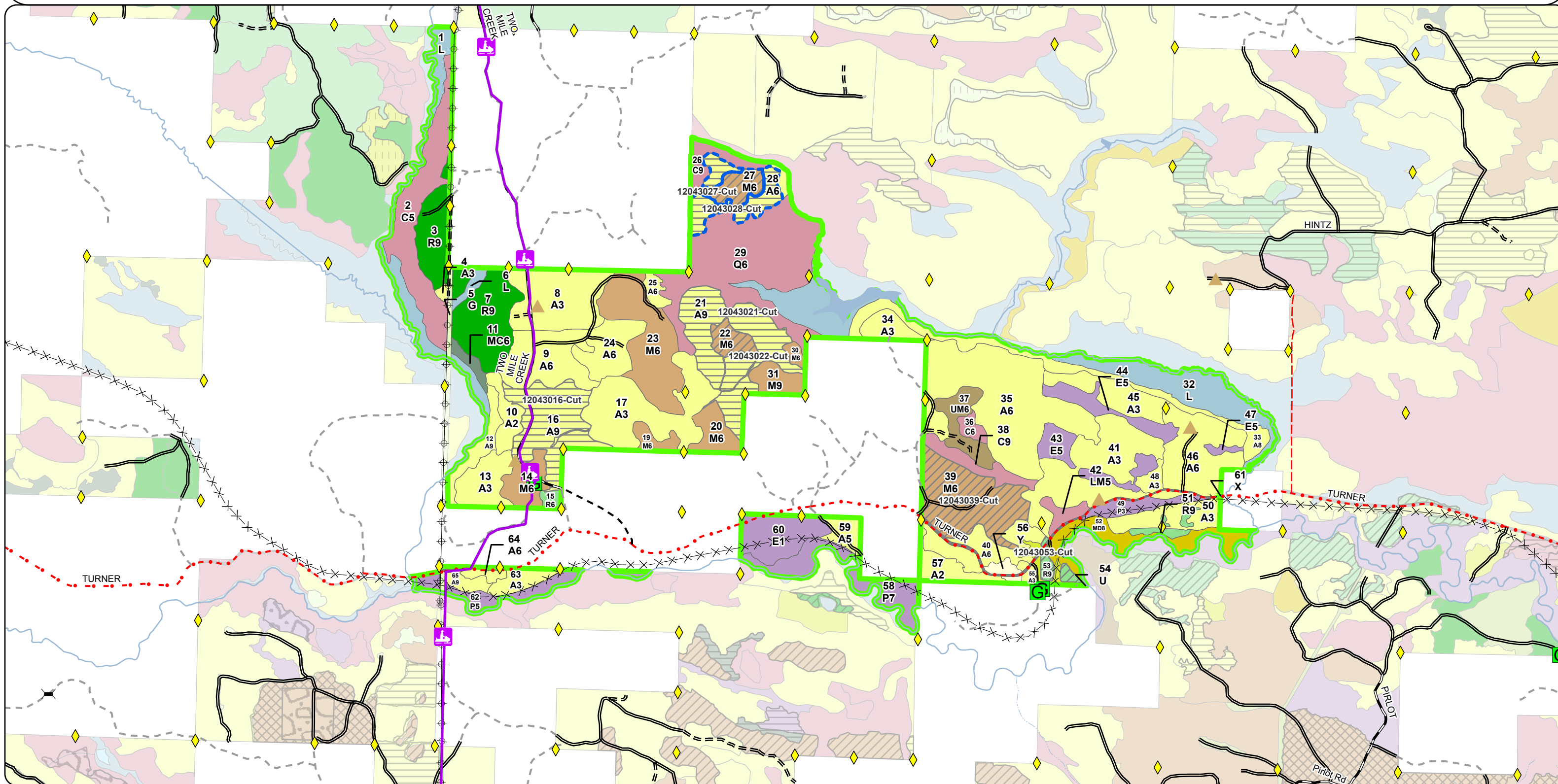


- Survey Grade Corners
- Berms
- Gate
- Bridges
- Designated Snowmobile Trails
- DNR - Primary Forest Road
- DNR - Secondary Forest Road

- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Abandoned Railroads
- Intermittent Stream
- Perennial River

- Powerline
- Lakes and Rivers
- Counties
- Compartment Boundary
- Clearcut
- Thinning
- Treatments with Site Conditions
- 411 - Northern Hardwood

- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 710 - Sand, Soil



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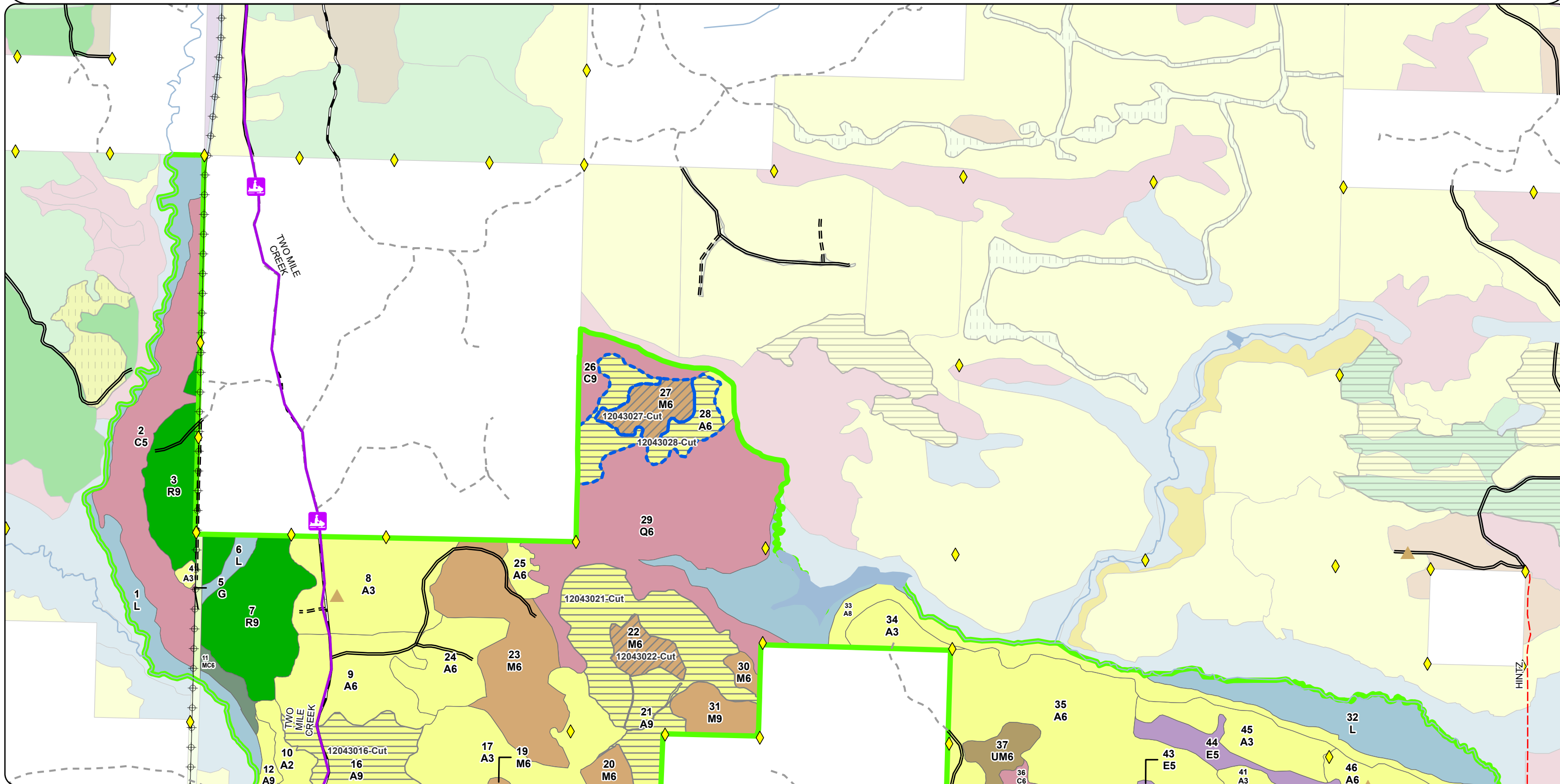
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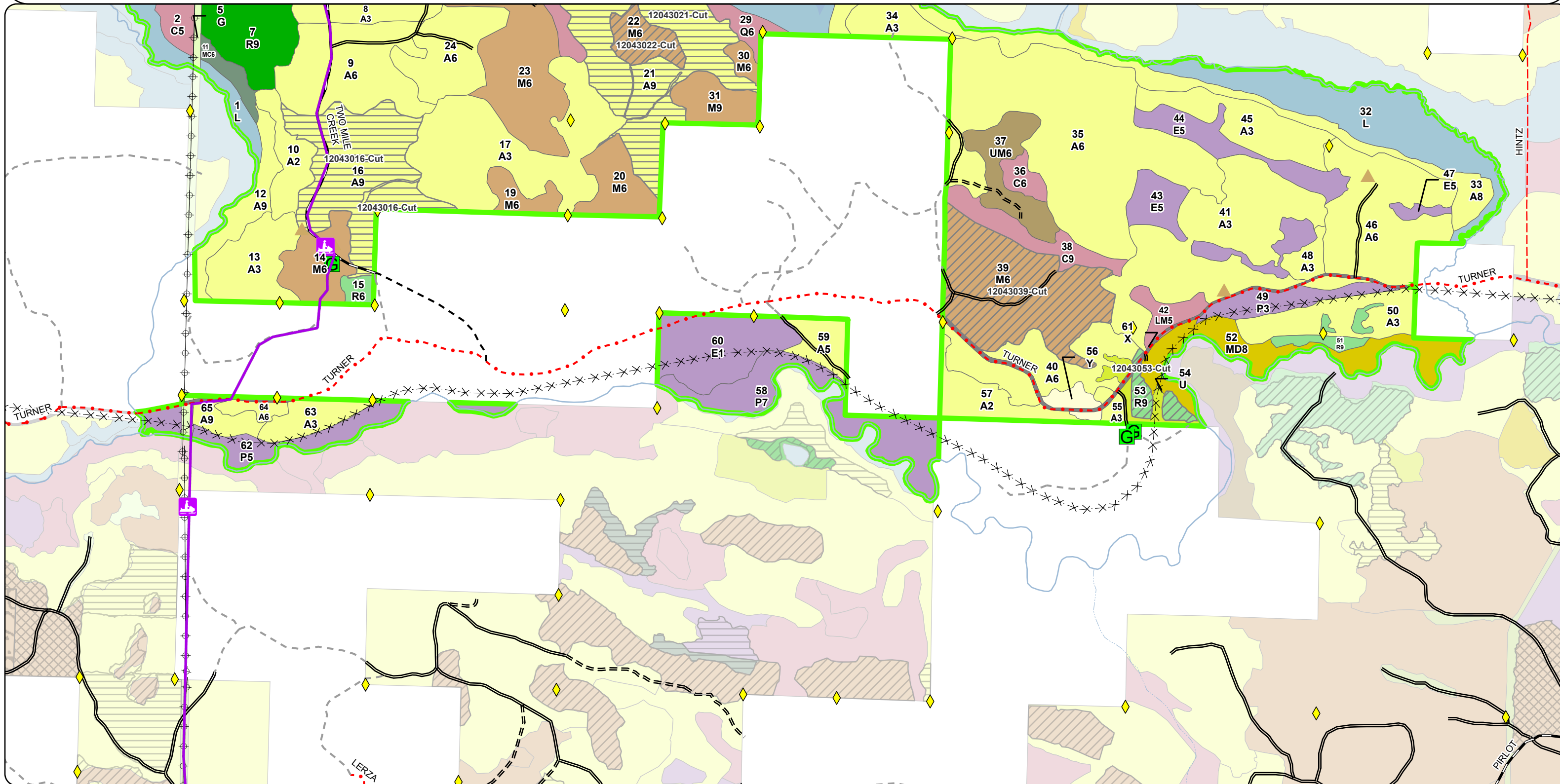
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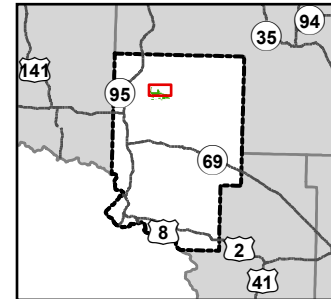
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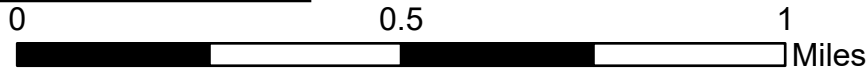
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Stand Boundary Map



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Survey Grade Corners

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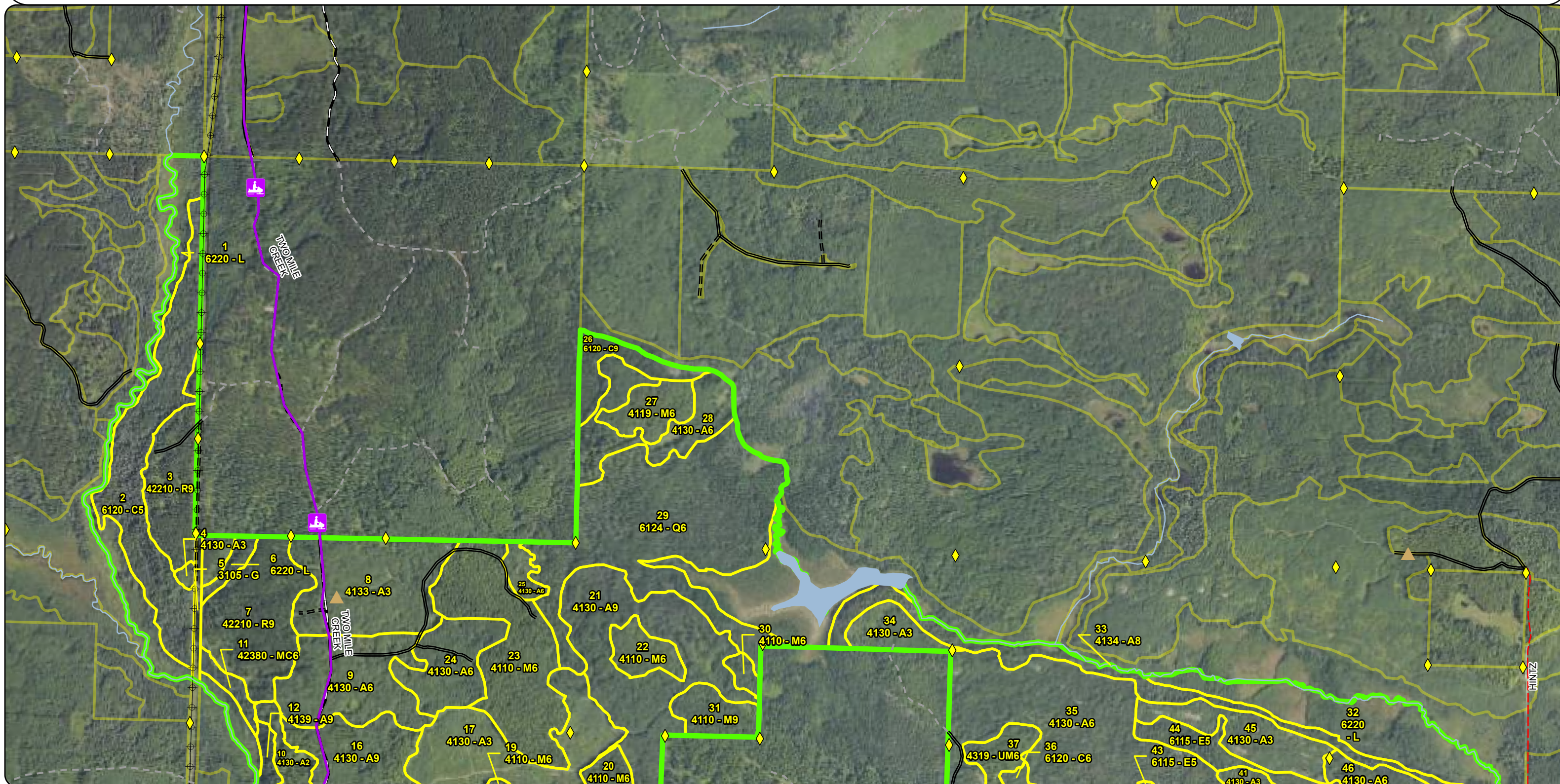
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Special Conservation Areas & Site Conditions Map

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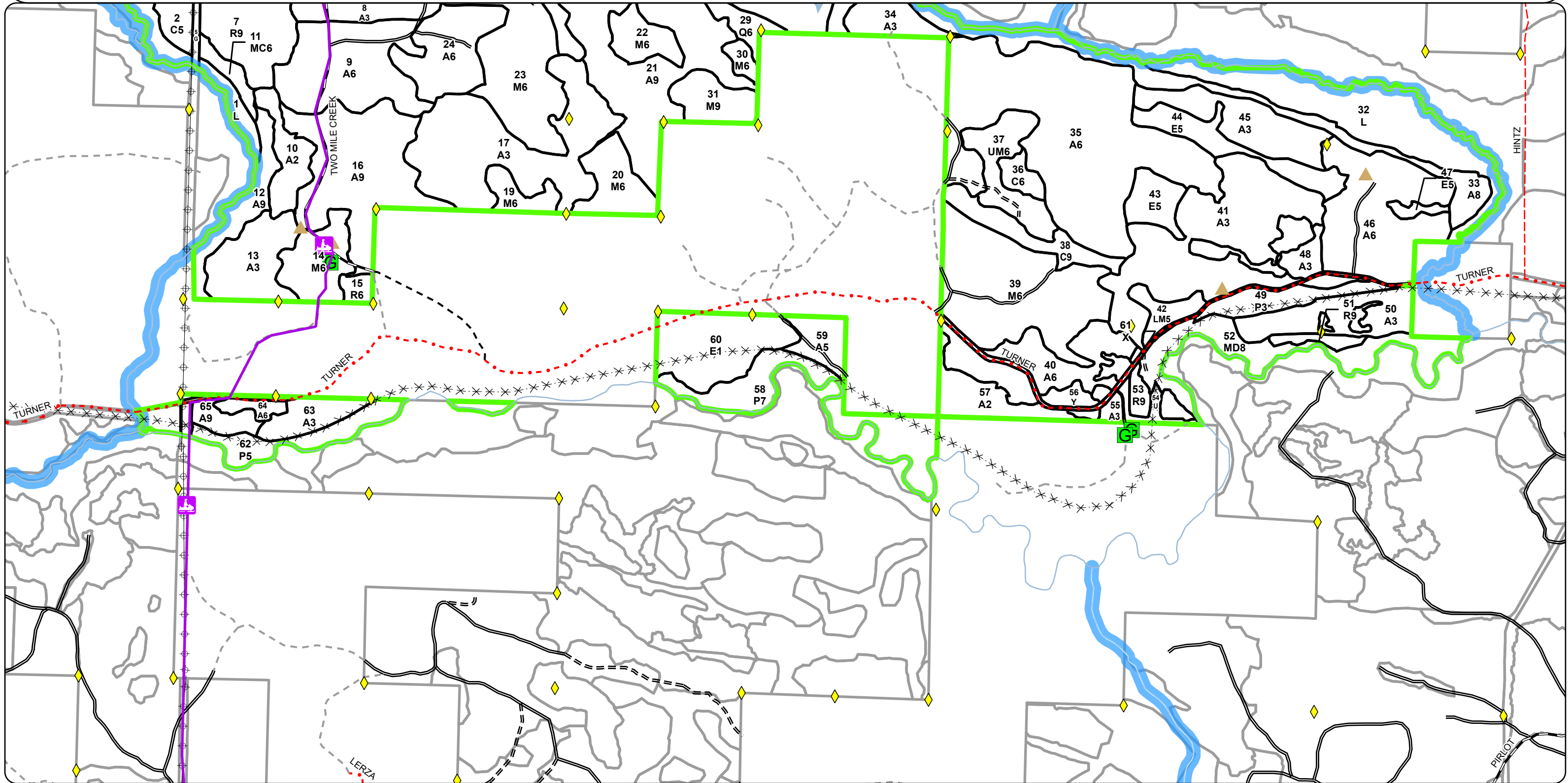
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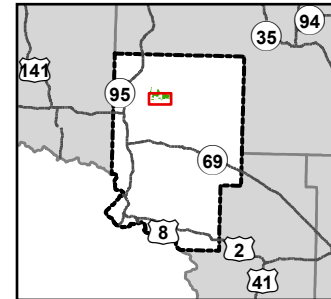
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- Compartment Boundary
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



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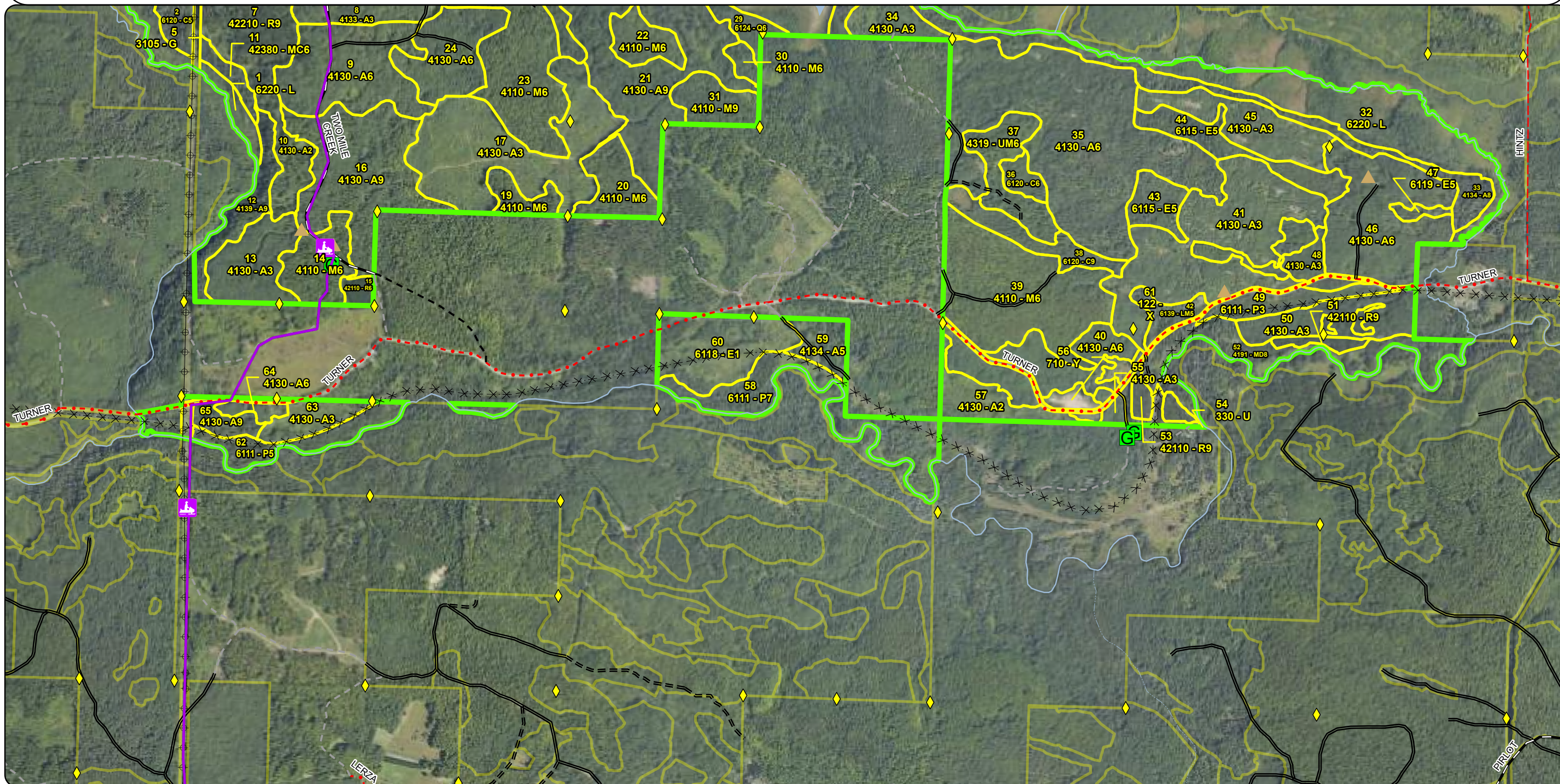
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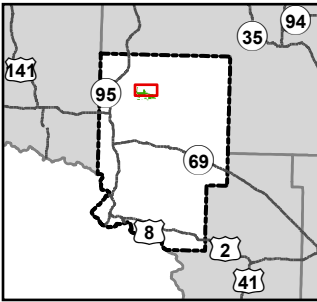
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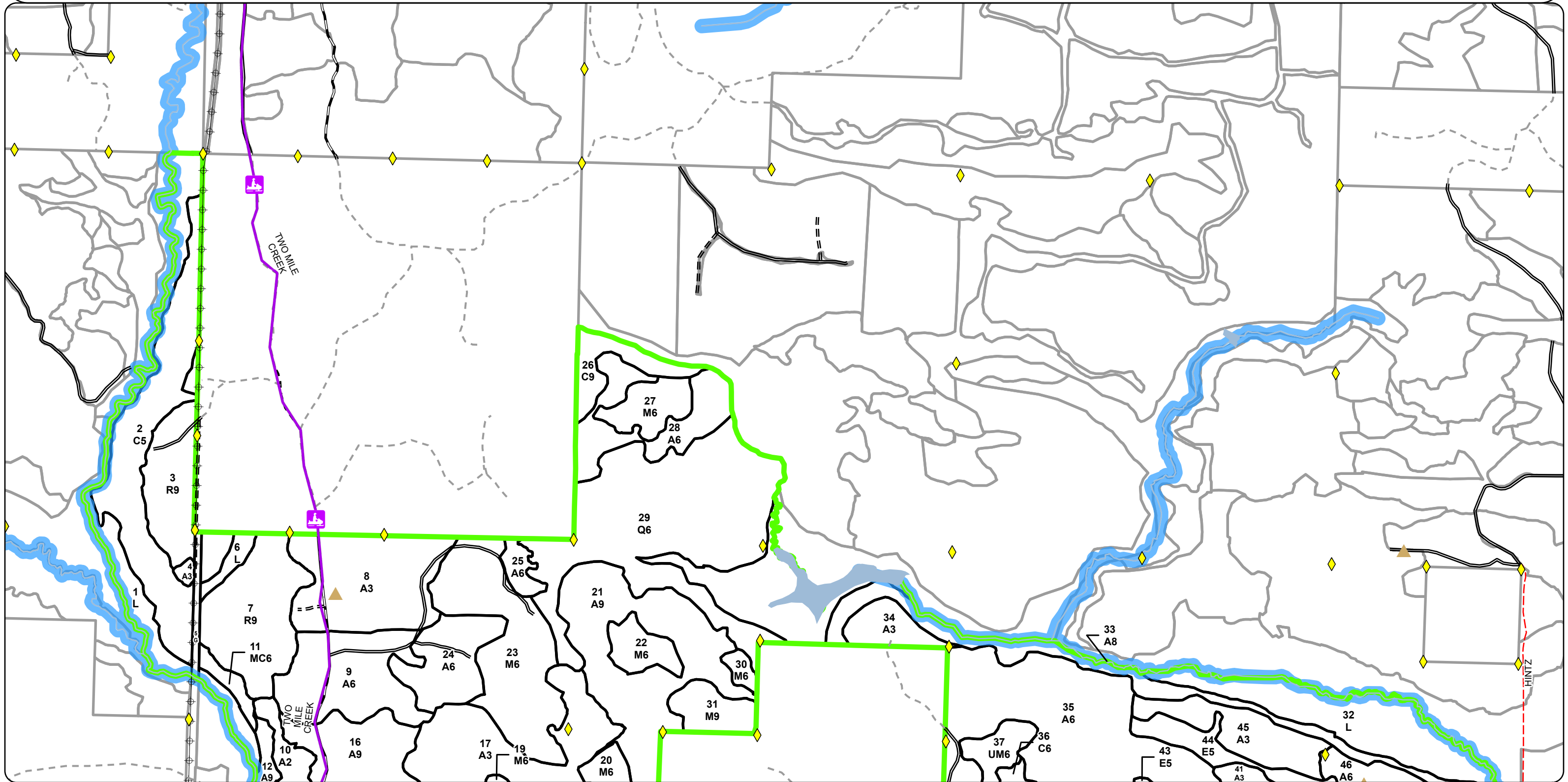


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	119	124	131	280	82	0	153	45	17	0	0	0	0	0	0	0	0	950
Cedar	0	0	0	0	0	0	0	0	0	0	0	104	0	0	0	0	0	6	110
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Aspen/Balsam Poplar	0	0	14	0	0	0	0	0	66	0	0	0	0	0	0	0	0	0	80
Lowland Conifers	0	0	0	0	0	0	0	0	0	134	0	0	0	0	0	0	0	0	134
Lowland Deciduous	0	36	0	0	0	23	22	0	0	0	0	0	0	0	0	0	0	0	81
Lowland Mixed Forest	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Lowland Shrub	149	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	149
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0	36
Northern Hardwood	0	0	0	0	0	0	0	69	92	71	4	0	0	0	0	0	0	0	235
Red Pine	0	0	0	0	0	4	14	38	0	51	0	0	0	0	0	0	0	0	107
Sand, Soil	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Conifers	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	22
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Total	177	155	138	131	280	109	36	274	261	273	4	104	0	0	0	0	0	6	1946



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 43
Total Compartment Acres: 1,946

Commercial Harvest - 379
Harvests with Site Condition - 79
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	175	0	0	0	0	0	0	0	0	175
Northern Hardwood	0	0	0	0	101	0	0	0	0	101
Red Pine	0	0	0	0	7	0	0	0	0	7
Total	175	0	0	0	107	0	0	0	0	282

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	282	0	0	0	0	0	0	0	0	282
Next Step	0	0	0	0	0	175	0	0	0	175
Total	282	0	0	0	0	175	0	0	0	457



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:

16	12043016-Cut	62.1	4130 - Aspen	9	67	Unspec fied	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest 3" and up retaining cedar, white pine, red pine, hemlock, oak if found. Leave representation of overstory trees for diversity, per <u>Specs:</u> WLD. (green tree while cruising). Use snowmobile specs <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, mixed softwood, mixed hardwood <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
21	12043021-Cut	82.2	4130 - Aspen	9	67	Unspec fied	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest 3 " spec leaving white pine, red pine, cedar, hemlock, oak if found. Move retention from west lobe to along swamp edge to retain <u>Specs:</u> more conifer. Mark some overstory trees for representation in vertical structure for diversity (green tree while <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, mixed hardwood, mixed softwood <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
22	12043022-Cut	12.6	4110 - Sugar Maple Association	6	69	111- 140	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No
<u>Prescription</u> Thin to 70 following Compleat Marker guidelines <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
27	12043027-Cut	16.7	4119 - Mixed Northern Hardwoods	6	68	141- 170	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No
<u>Prescription</u> Thin to 80 following Compleat Marker guidelines <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> this stand was marked 20 years ago and may need different color paint vs orange <u>Comment:</u> <u>Site Condition:</u> Denied Access <u>Proposed Start Date:</u> 10/01/2026											



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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28	12043028-Cut	30.7	4130 - Aspen	6	46	Unspecified	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Final harvest 3" and up retaining cedar, white pine, red pine, oak, hemlock if found. Retain some maple overstory trees (green tree while cruising). Use snowmobile spec

Next Step Monitoring, Natural Regen (Re-Inventory)

Acceptable aspen, mixed hardwood, mixed softwood

Other
Comment:

Site Condition: Denied Access

Proposed Start Date: 10/01/2026

39	12043039-Cut	71.2	4110 - Sugar Maple Association	6	84	111-140	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No
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Prescription Thin to 60-80 BA following Compleat Marker. East half of stand was thinned in 2010 and has lower starting BAs. West half was last thinned in 2000 Turner Hawk TS where basswood is not doing well. Concentrate removal on basswood that is unlikely to make nex

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2026

53	12043053-Cut	6.9	42110 - Planted Red Pine	9	54	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Thin to 100 BA favoring crown release of best crop tree in place. Wood turtle guidance indicates no cutting April 1-Nov 1.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2026

Total Treatment 282.4
Acreage Proposed:



Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

2A 2F 2G 3J 3L 5A 5E

872	761	0	110	Aspen	31	5		23			51
110	0	0	110	Cedar				87	22		
1	0	0	1	Herbaceous Openland				1			
7	7	0	0	Low-Density Trees							
77	14	0	63	Lowland Aspen/Balsam Poplar				63			
134	0	0	134	Lowland Conifers				134			
54	0	0	54	Lowland Deciduous			44	2		8	
8	0	0	8	Lowland Mixed Forest			8				
149	149	0	0	Lowland Shrub							
33	0	0	33	Mixed Upland Deciduous				33			
236	219	0	17	Northern Hardwood	17						
101	100	0	1	Red Pine				1			
5	5	0	0	Sand, Soil							
6	0	0	6	Upland Conifers				6			
22	22	0	0	Upland Mixed Forest							
10	10	0	0	Urban							
1,824	1,287		537	Total Forested Acres	47	5	52	350	22	8	51
	71%		29%	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	Unavailable		3J: Water quality/BMPs (stream, river, or lake)	352	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
2	Unavailable		2G: Too wet (sensitive soils, does not include access issues)	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments: very wet b ash swales with drainages								

Report 4 – Site Conditions



3	Unavailable	5E: Long-Term Retention	1	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	2	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	1	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: west half of stand is too steep; the south and south east piece is 300 ft buffer to stream							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2A: Adjacent landowner denied access	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stands were slated for harvest last rotation, but access was denied.							
9	Unavailable	5A: Not able to obtain desirable regeneration	8	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Cedar pockets uncut from Salmagundi TS cut 2020							
12	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



13	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	45	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3L: Other wildlife concerns	22	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
Comments				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
1	6220 - Alder/Willow	None	43.2			No	tag alder/willow adjacent to Two Mile Creek. scattered associated tamarack																																							
2	6120 - Lowland Cedar	Poletimber Medium	70.9	108	Unspecified	N/A	mixed lowland conifer stand. areas heavier to cedar with transitional areas more highly stocked to black spruce with tag alder thickets in between.																																							
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Paper Birch</td><td>5</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Northern White Cedar</td><td>50</td><td></td><td>12</td><td>108</td></tr><tr><td>Black Spruce</td><td>30</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Tamarack</td><td>15</td><td>Sapling</td><td>6</td><td></td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	5	Seedling	6		Northern White Cedar	50		12	108	Black Spruce	30	Seedling	7		Tamarack	15	Sapling	6				<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Black Spruce</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	High	5 - 10 feet	5 - 10 feet	Black Spruce	Low	10 - 20 feet	10 - 20 feet				
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3	42210 - Natural Red Pine	Sawtimber Well	38.0	67	81-110	N/A	Cut in November 2019 under the Salmagundi timber sale (12-026-17) lower BA to North.																																							
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5	3105 - Mixed Upland Herbaceous	None	6.4			No	transmission line																																							
6	6220 - Alder/Willow	None	5.1			No	tag alder/willow																																							
7	42210 - Natural Red Pine	Sawtimber Well	50.8	82	81-110	N/A	Cut in October 2019 as part of the Salmagundi timber sale.																																							
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8	4133 - Aspen, Mixed Pine	Sapling Well	61.0	26	Immature	N/A	Aspen 2-6" dbh. fair component of r pine. Jail TS cut 1999. Most of merchantable spruce 4" and up is concentrated alongside roads. More sugar/red maple in far north in understory																																							
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16	4130 - Aspen	Sawtimber Well	62.8	67	Unspecified	N/A	Aspen is healthy. scattered clumps of fir poletimber and saplings. NE part of stand has lower ground pockets with springy ground 0 some tag alder and balm. in this area also good h maple saplings 10 - 20' tall.																																																	
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22	4110 - Sugar Maple Association	Poletimber Well	12.6	69	111-140	N/A	Much defect (cracked boles, broken upper branches, cankers). Avg BA=130																																																	
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Balsam Fir		10	Log	4					
26	6120 - Lowland Cedar	Sawtimber Well	16.5	108	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		85		12	108	Balsam Fir		Medium	10 - 20 feet
Black Spruce		10	Seedling	7		Tag Alder		Medium	5 - 10 feet
Paper Birch		5	Sapling	6					
27	4119 - Mixed Northern Hardwoods	Poletimber Well	16.7	68	141-170	N/A	Stand previously marked but not cut due to no access.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		15	Seedling	8		White Spruce		Medium	10 - 20 feet
Paper Birch		5		9		Balsam Fir		Medium	10 - 20 feet
Sugar Maple		60	Seedling	7	68	Leatherwood		High	5 - 10 feet
Red Maple		15	Seedling	7					
Quaking Aspen		5		14					
28	4130 - Aspen	Poletimber Well	34.2	46	Unspecified	N/A	about pure aspen 4 - 8" dbh with fir understory 3 - 6". scattered semi open areas. W end transitions to areas of semi open with spruce/fir and scattered larger diameter aspen - notably S of woods road. Due to access issues, cutting now with hardwood.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Seedling	8		Hazelnut (Beaked)		Full	5 - 10 feet
White Spruce		10	Seedling	7		Balsam Fir		High	>20 feet
Quaking Aspen		80	Seedling	6	46	Black Cherry		Medium	10 - 20 feet
Sugar Maple		5	Seedling	8					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
35	4130 - Aspen	Poletimber Well	136.3	35	Unspecified	N/A	Scattered pockets of low ground having tag alder/balm. interspersed small rock outcrop hills; widely scattered w pine.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		80	Sapling	6	35	Balsam Fir	Low	Variable	Variable
Balsam Fir		5	Sapling	5		Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Balsam Poplar		10	Sapling	6		White Spruce	Low	Variable	Variable
White Spruce		5	Sapling	5					
36	6120 - Lowland Cedar	Poletimber Well	6.0	108	Unspecified	N/A	wet throughout.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash		40	Sapling	6	51	Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Northern White Cedar		60		12	108	Balsam Fir	High	10 - 20 feet	10 - 20 feet
37	4319 - Mixed Upland Forest	Poletimber Well	22.1	75	51-80	N/A	Pockets of nice WP and conifer regen. Could release by shelterwood. SE finger has large diameter trees (hemlock, WC, pine) Hemlock seedlings within stand (~1 foot). Thinned 2000.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		5		12		Balsam Fir	High	5 - 10 feet	5 - 10 feet
White Spruce		5	Sapling	7		Black Ash	Low	10 - 20 feet	10 - 20 feet
Hemlock		10		14		Sugar Maple	Low	Variable	Variable
Red Maple		40		14	75	White Pine	Low	5 - 10 feet	5 - 10 feet
White Pine		15		20		Ironwood	Medium	10 - 20 feet	10 - 20 feet
Northern White Cedar		10		14		White Spruce	Low	5 - 10 feet	5 - 10 feet
Balsam Fir		5	Sapling	7					
Sugar Maple		5		9					
Yellow Birch		5		14					
38	6120 - Lowland Cedar	Sawtimber Well	16.4	105	Unspecified	N/A	hemlock is mainly at edges of the stand. NW end is ponded with a leatherleaf bog inclusion.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch		5	Seedling	8		Balsam Fir	High	10 - 20 feet	10 - 20 feet
Black Ash		5	Seedling	6		Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Hemlock		5		16					
Northern White Cedar		85		14	105				
39	4110 - Sugar Maple Association	Poletimber Well	71.2	84	111-140	N/A	west half of stand was cut in 2000 Turner Hawk TS; east half cut 2010 Pile on the Rocks.East half will be a lighter thin but stand should be managed as one. Basswood on west is getting old and deteriorating.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		2		12		Leatherwood	Medium	< 5 feet	< 5 feet
Basswood		55		14	84	Ironwood	Full	10 - 20 feet	10 - 20 feet
White Pine		5		20		White Spruce	Low	5 - 10 feet	5 - 10 feet
Yellow Birch		3		10		Sugar Maple	Low	>20 feet	>20 feet
Sugar Maple		35		12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
40	4130 - Aspen	Poletimber Well	35.6	36	Unspecified	N/A	Big Valley TS cut 1988. Aspen ranges from 5-8" dbh																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>70</td><td>Seedling</td><td>7</td><td>36</td></tr><tr><td>Balsam Fir</td><td>5</td><td>Pole</td><td>4</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>15</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td>Log</td><td>4</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	70	Seedling	7	36	Balsam Fir	5	Pole	4		Bigtooth Aspen	15	Seedling	6		Red Maple	10	Log	4		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Ironwood</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Leatherwood</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	High	10 - 20 feet	10 - 20 feet	Leatherwood	Medium	5 - 10 feet	5 - 10 feet																											
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41	4130 - Aspen	Sapling Well	80.2	15	Immature	N/A	Pile on the Rocks TS cut 2010																																																															
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42	6139 - Mixed Lowland Forest	Poletimber Medium	8.2	66	Unspecified	N/A	low areas with standing water ; some ash is dead																																																															
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43	6115 - Lowland Ash	Poletimber Medium	21.5	52	Unspecified	N/A	very wet stand - standing water with drainage. pockets heavier to tag alder in NW. Some ash is dying or dead																																																															
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44	6115 - Lowland Ash	Poletimber Medium	20.1	45	Unspecified	N/A	E end has more scattered trees with a heavier tag alder component. wet - standing water. Some dead and dying ash																																																															
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45	4130 - Aspen	Sapling Well	29.4	15	Immature	N/A	scattered rock outcrop knobs. stand overall is mainly pure aspen, some low pockets. Pile on the Rocks TS cut 2010																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
52	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	36.1	79	51-80	N/A	This stand is within 300 ft buffer to Ford R and unavailable for harvest. Some areas are marsh grass/floodplain																																														
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>10</td><td></td><td>10</td><td></td></tr><tr><td>Quaking Aspen</td><td>25</td><td></td><td>14</td><td>79</td></tr><tr><td>Balsam Poplar</td><td>40</td><td></td><td>14</td><td>79</td></tr><tr><td>Balsam Fir</td><td>15</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>White Spruce</td><td>10</td><td></td><td>10</td><td></td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10		10		Quaking Aspen	25		14	79	Balsam Poplar	40		14	79	Balsam Fir	15	Seedling	7		White Spruce	10		10				<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Black Cherry</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Hazelnut (Beaked)</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Balsam Fir</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Medium	10 - 20 feet	10 - 20 feet	Hazelnut (Beaked)	Low	< 5 feet	< 5 feet	Balsam Fir	Medium	10 - 20 feet	10 - 20 feet		
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53	42110 - Planted Red Pine	Sawtimber Well	6.9	54	111-140	N/A	Cut in 2019 under the Salmagundi timber sale (12-026-17) . BAs 120, 140, 180																																														
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54	330 - Low-Density Trees	None	7.0			No	scattered small diameter r pine 4 - 6" dbh, aspen clumps north of road. open grown cherry saplings																																														
55	4130 - Aspen	Sapling Well	3.5	25	Immature	N/A	Turner Strut TS cut 2000																																														
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56	710 - Sand, Soil	None	5.3			No	gravel pit north side of road, gravel owned by Keweenaw Land																																														
57	4130 - Aspen	Sapling Medium	17.4	5	Immature	N/A	Salmagundi TS cut 2020. Upland with lowland in far east																																														
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58	6111 - Lowland Balsam Poplar	Sawtimber Poor	40.9	75	Unspecified	N/A	floodplain to Ford River.																																														
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>40</td><td></td><td>11</td><td></td></tr><tr><td>Balsam Poplar</td><td>60</td><td></td><td>12</td><td>75</td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	40		11		Balsam Poplar	60		12	75			<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>Willow spp.</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Hazelnut (Beaked)</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	5 - 10 feet	5 - 10 feet	Willow spp.	Medium	5 - 10 feet	5 - 10 feet	Hazelnut (Beaked)	Medium	5 - 10 feet	5 - 10 feet																	
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59	4134 - Aspen, Spruce/Fir	Poletimber Medium	11.4	40	Unspecified	N/A	Stand on a steep hill sloping toward river. Semi open grown trees.																																														
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Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments		
60	6118 - Lowland Deciduous with Cedar	Sapling Poor			35.8	5		N/A	Cut in 2020 under the Salmagundi timber sale (12-026-17). Retention in pockets, primarily cedar. Black spruce is on site but scattered and not 3 feet yet		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density		Avg. Height	Size
Tamarack		20	Log	1		Black Spruce		Low		< 5 feet	< 5 feet
Northern White Cedar		20		10	111						
Balsam Poplar		60	Log	1	5						
61	122 - Road/Parking Lot	None			9.6			No			
62	6111 - Lowland Balsam Poplar	Poletimber Medium			24.8	73	Unspecified	N/A	wet stand along river floodplain within 300 feet of Ford River		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		45		12		Tag Alder		High	5 - 10 feet	5 - 10 feet	
White Spruce		5	Seedling	7		Balsam Fir		Medium	10 - 20 feet	10 - 20 feet	
Balsam Poplar		50		14	73	Black Ash		Medium	10 - 20 feet	10 - 20 feet	
63	4130 - Aspen	Sapling Well			12.8	5	Immature	N/A	cut 2020 Salmagundi TS; retention along south is 300 ft buffer to Ford R.		
Canopy Species		% Cover	Size Class	DBH	Age						
Quaking Aspen		100	Log	1	5						
64	4130 - Aspen	Poletimber Well			4.7	26	Unspecified	N/A	Jail TS cut 1999		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		100	Seedling	5	26	Hazelnut (Beaked)		Medium	5 - 10 feet	5 - 10 feet	
65	4130 - Aspen	Sawtimber Well			7.5	68	111-140	N/A	Very steep; was prescribed last entry but decided this area was too steep to harvest?		
Canopy Species		% Cover	Size Class	DBH	Age						
White Spruce		5	Seedling	9							
White Pine		5		14							
Paper Birch		10	Seedling	9							
Quaking Aspen		80		12	68						