



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12168

Entry Year 2028

Acreage: 2,276

County: Iron

Management Area: Brule River

Stand Examiner: Eric Brolin

Legal Description:

T42N R31W section 12 and 13

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue to sustainably balance the aspen age class acres. Protect any riparian areas and transition zones during management activity.

Soil and topography:

Very fine sandy loams throughout. There is a very small conifer swamp pocket with muck soils.

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

Industrial forest ownership is on three sides of the compartment. Non industrial private lands are on the east. Active forest management is occurring throughout the area.

Unique Natural Features:

None identified

Archeological, Historical, and Cultural Features:

None recorded

Special Management Designations or Considerations:

The very northern edge of the compartment lies within a deer wintering complex.

Watershed and Fisheries Considerations:

This compartment contains Camp Six Creek, Erickson Lake, Emerson Lake, and two unnamed streams that serve as tributaries to the Michigamme River. Camp Six Creek is a designated Type 1 trout stream less than 50 feet wide and has a predicted mean July water temperature of 63°F (cold stream). For areas susceptible to Aspen regeneration, a 300-foot riparian management zone is recommended for Camp Six Creek. For the unnamed tributaries and for areas not susceptible to Aspen regeneration, a minimum 100-foot riparian management zone is recommended to protect riparian areas in accordance with best management practices. Erickson Lake (35-acres) and Miller Lake (15-acres) are natural inland lakes. A minimum 100-foot riparian management zone is recommended for these waterbodies to protect inland lake resources in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is comprised of aspen of various age classes and is primarily used by featured species including ruffed grouse, American woodcock, deer and bear. This compartment is part of the historic Camp 5 Deer Wintering Complex. This area is currently providing winter cover for deer. Mast, when produced by the scattered oak and cherry, benefits deer, bear, grouse and squirrels. West Camp 5 Hunter Walking Trail will be maintained for deer, bear, and grouse.

Mineral Resource and Development Concerns and/or Restrictions

An active sand & gravel mining operation is adjacent to the compartment, in Sec 1. It is highly likely there is additional sand & gravel within the compartment on the uplands. Considerable exploration for iron ore, diamonds, and perhaps other minerals has occurred in the area within and around the compartment, but no deposits of economic significance were documented. There is no current metallic mineral leasing activity involving State-owned mineral rights in the area. There is no potential for economic oil and gas production in the UP.

Vehicle Access:

Good to fair. The Camp 5 Road runs through the middle of the compartment. Access off of that is somewhat limited with unimproved grass two track roads.

Survey Needs:

N 1/16 sec 11, 12

Recreational Facilities and Opportunities:

None

Fire Protection:

Fuel types consist mainly of aspen. There would be few problems in controlling a fire in this area. Low to moderate intensity ground fire would be expected. Some distance may be required to find a water source.

Additional Compartment Information:

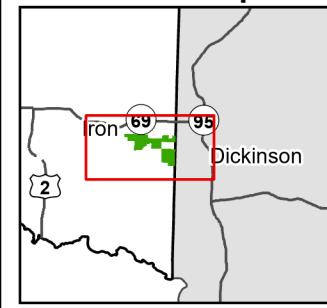
The following reports from the Inventory are attached:

- 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**

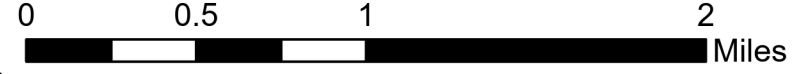
The following information is displayed, where pertinent, on the attached compartment maps:

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

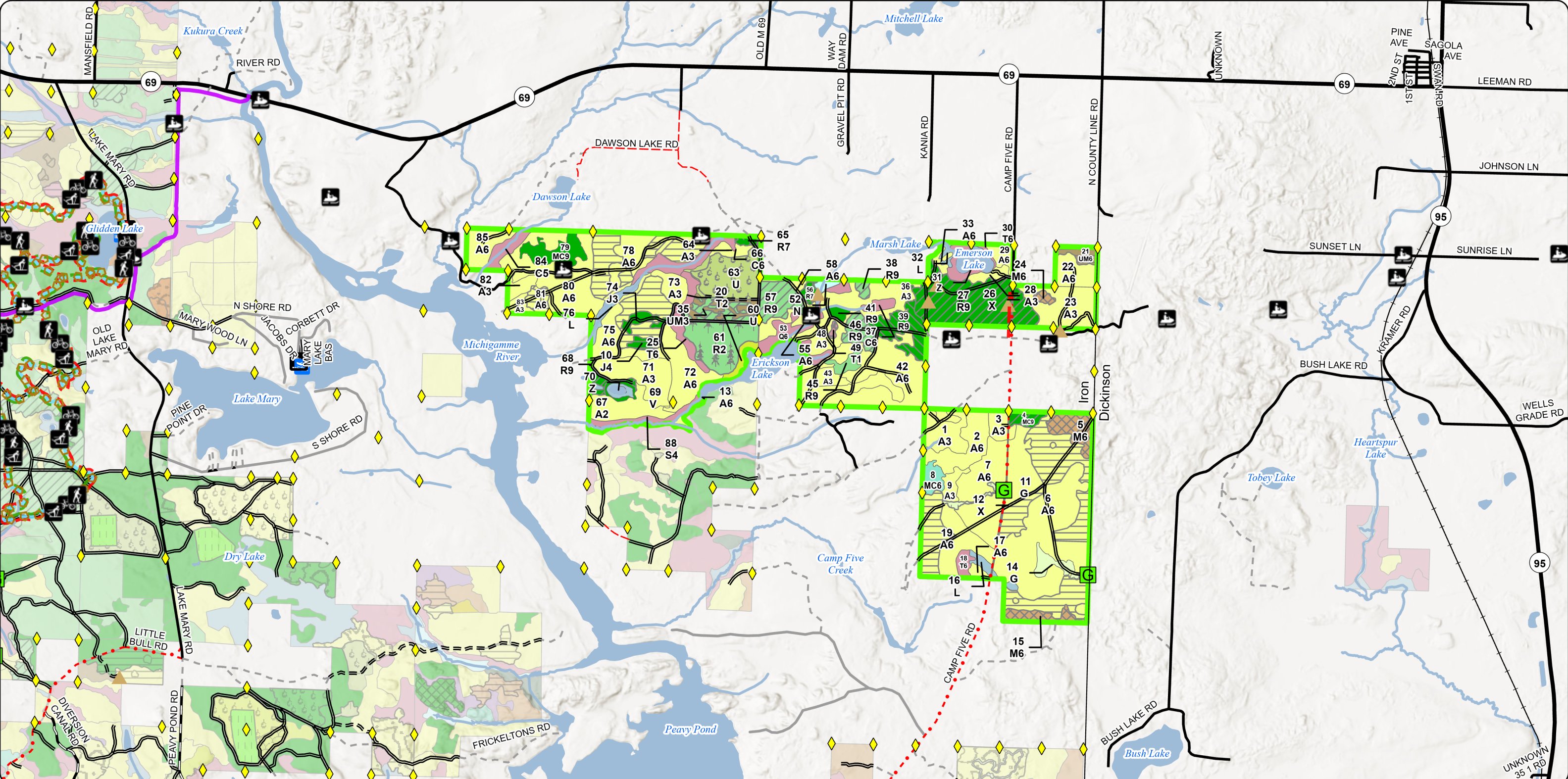
Cover Type & Treatments Map



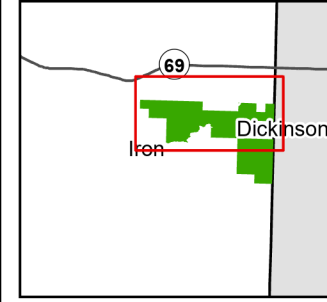
Compartment: 12168
 T42N R31W Sec. 1-4, 10-13
 County: Iron
 Unit: Crystal Falls
 Mgmt. Area: Brule River
 YOE: 2028
 Acres: 2,276 GIS Calculated
 Examiner: Eric Brolin
 Date Exported: 04/24/2026
 Map Phase: Web Post



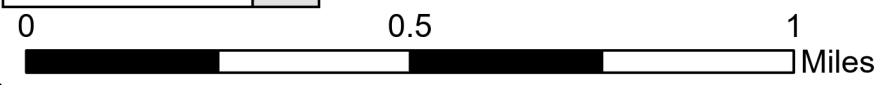
- | | | | | |
|--|--|---|---|---|
| <ul style="list-style-type: none"> Survey Grade Corners Toilet Parking Lot Boating Access Site State Forest Campground Berm Gate Designated Hiking Pathway Designated Bicycle Trails | <ul style="list-style-type: none"> Designated Ski Trails Designated Snowshoe Trails Designated Snowmobile DNR - Primary Forest Road DNR - Secondary Forest Road DNR - Forest Access Route Federal / State Highway Federal / State / County - Paved Road County - Gravel Road County - Dirt Road (Seasonal) | <ul style="list-style-type: none"> Private - Paved Road Private - Dirt / Gravel Road DNR - Management Access Railroads Streams Lakes and Rivers Compartment Boundary Clearcut Selection Seed Tree | <ul style="list-style-type: none"> Thinning Other Harvest - See Comments Planting (tree species) Prescribed Burn Openings Mgmt. Monitoring - Regeneration 411 - Northern Hardwood 413 - Aspen 421 - Planted Pines 422 - Natural Pines | <ul style="list-style-type: none"> 429 - Mixed Upland Conifers 430 - Upland Mixed Forest 500 - Water 612 - Lowland Coniferous Forest 122 - Road/Parking Lot 320 - Upland Shrub 330 - Low Density Trees 622 - Lowland Shrub 623 - Emergent Wetland Herbaceous Openland |
|--|--|---|---|---|



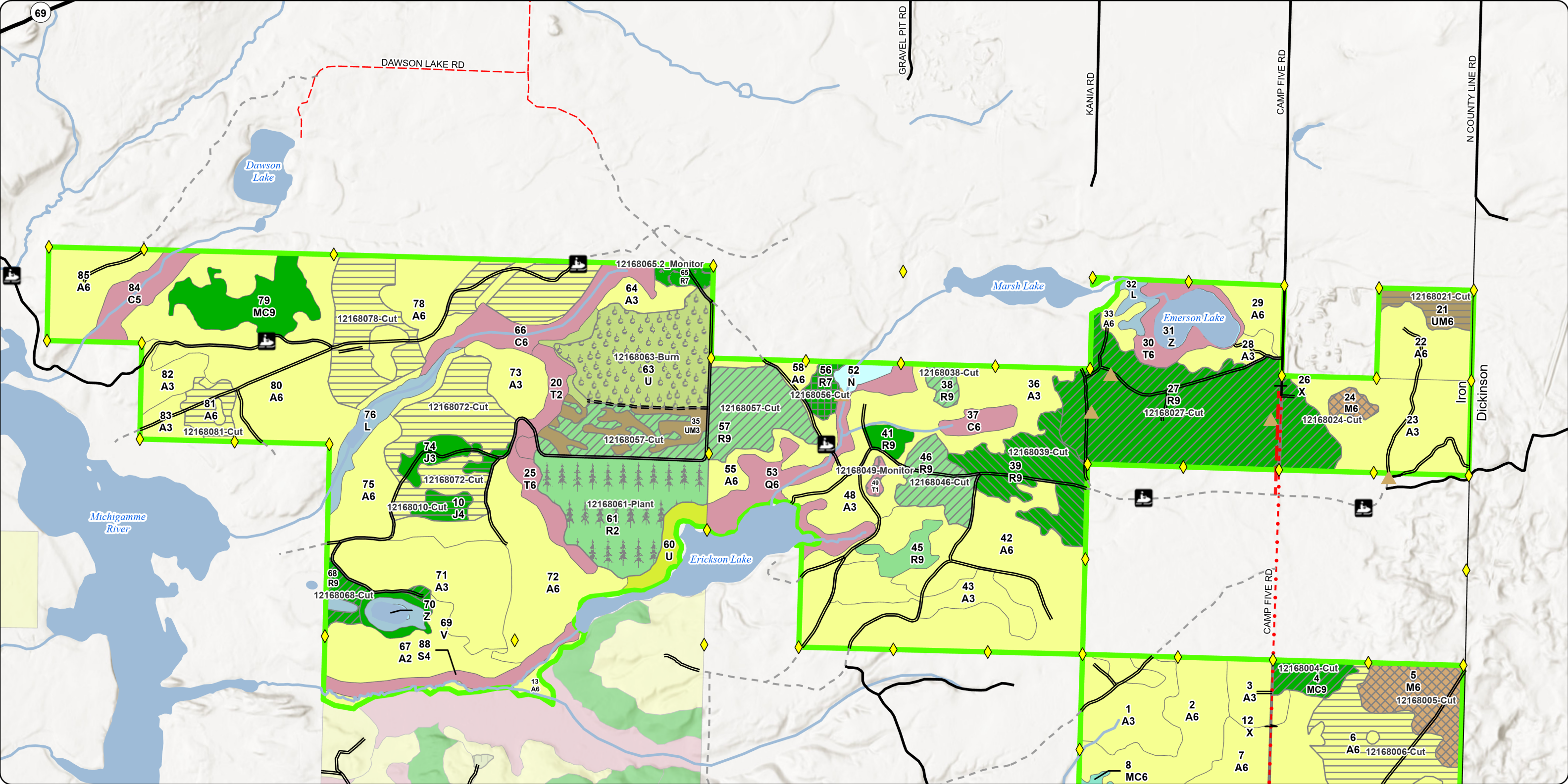
Cover Type & Treatments Map



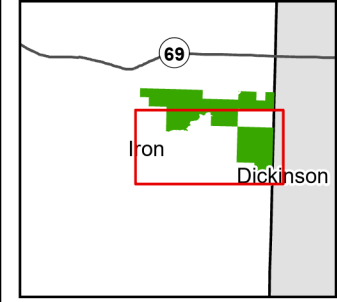
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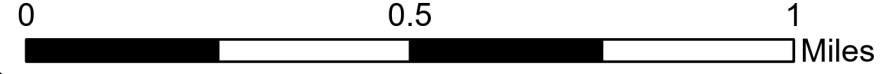
- Survey Grade Corners
- County - Dirt Road (Seasonal)
- Berm
- Private - Dirt / Gravel Road
- Designated Bicycle Trails
- Streams
- Lakes and Rivers
- DNR - Secondary Forest Road
- Lakes and Rivers
- DNR - Forest Access Route
- Compartment Boundary
- Clearcut
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Selection
- Seed Tree
- Thinning
- Other Harvest - See Comments
- Planting (tree species)
- Prescribed Burn
- Monitoring - Regeneration
- 430 - Upland Mixed Forest
- 500 - Water
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- 422 - Natural Pines
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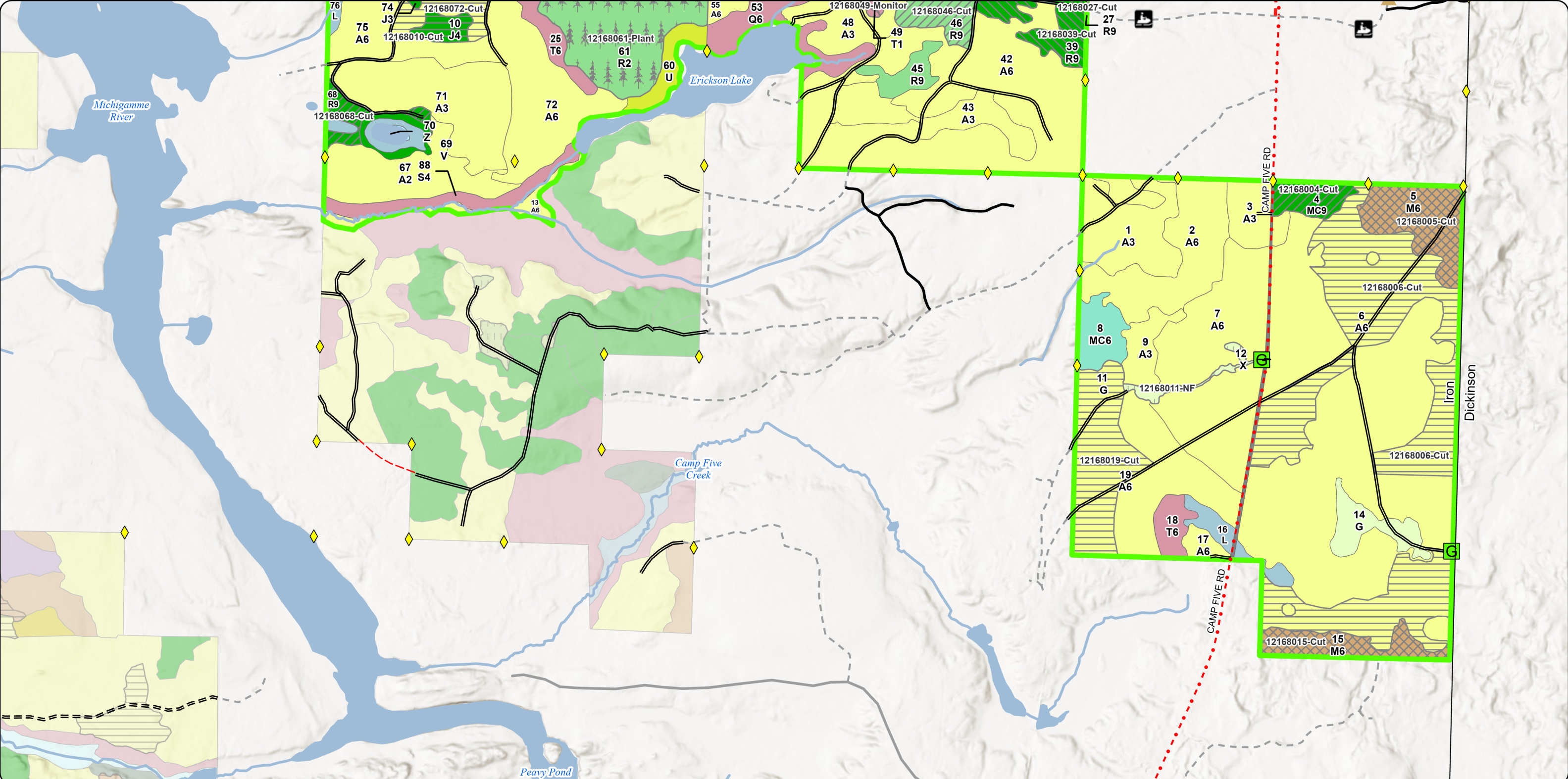
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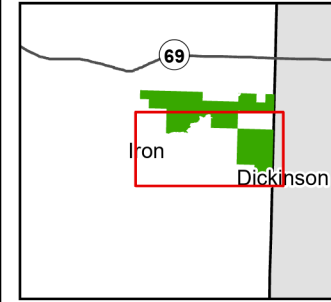
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Stand Boundary Map

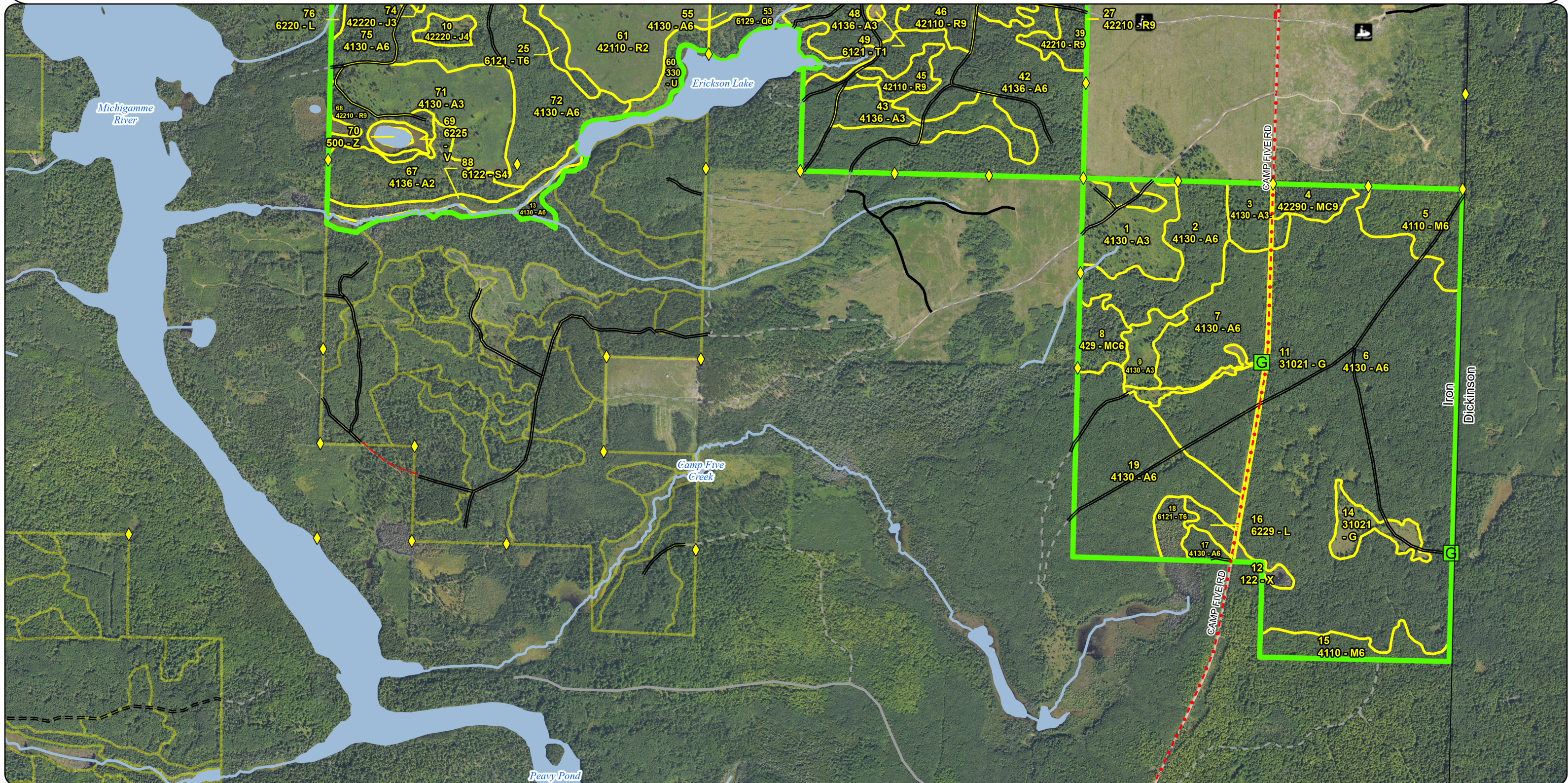
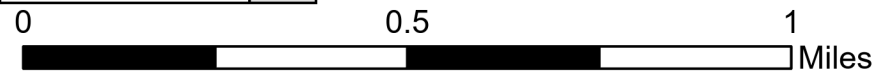


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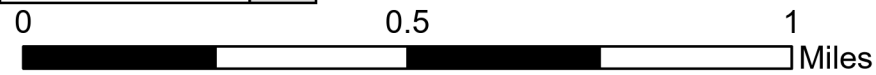
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- Private - Paved Road
- Private - Dirt / Gravel Road
- Streams
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- Compartment Boundary
- Compartment Stand Yellow Outline (PD)
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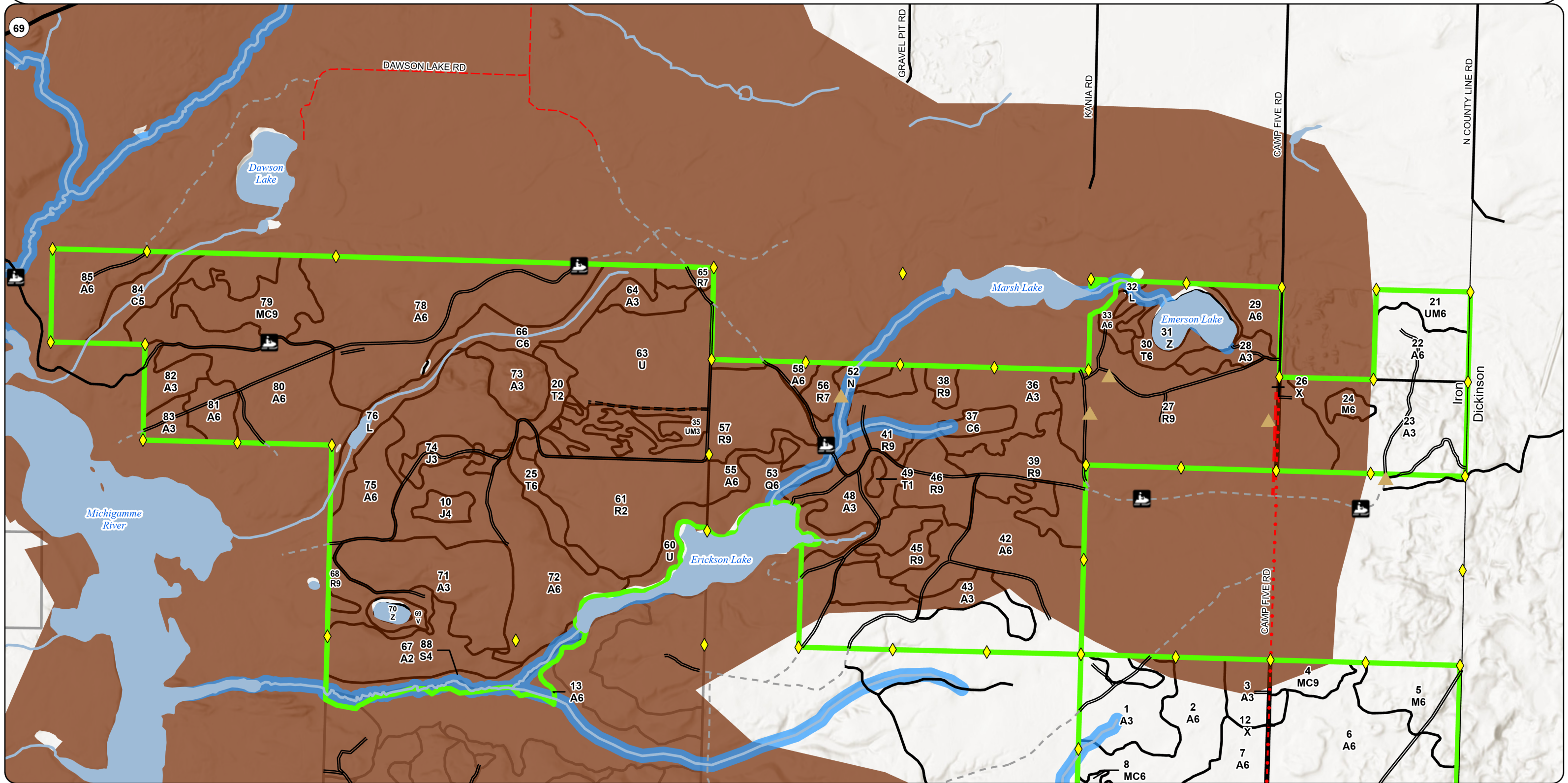


Special Conservation Areas & Site Conditions Map

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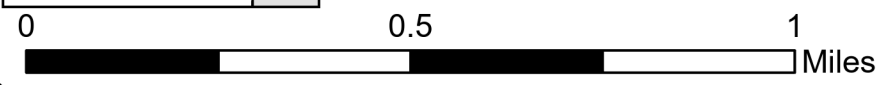
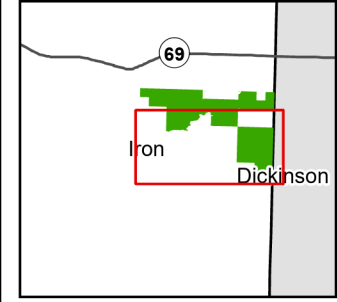


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- Streams
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- Compartment Boundary
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range

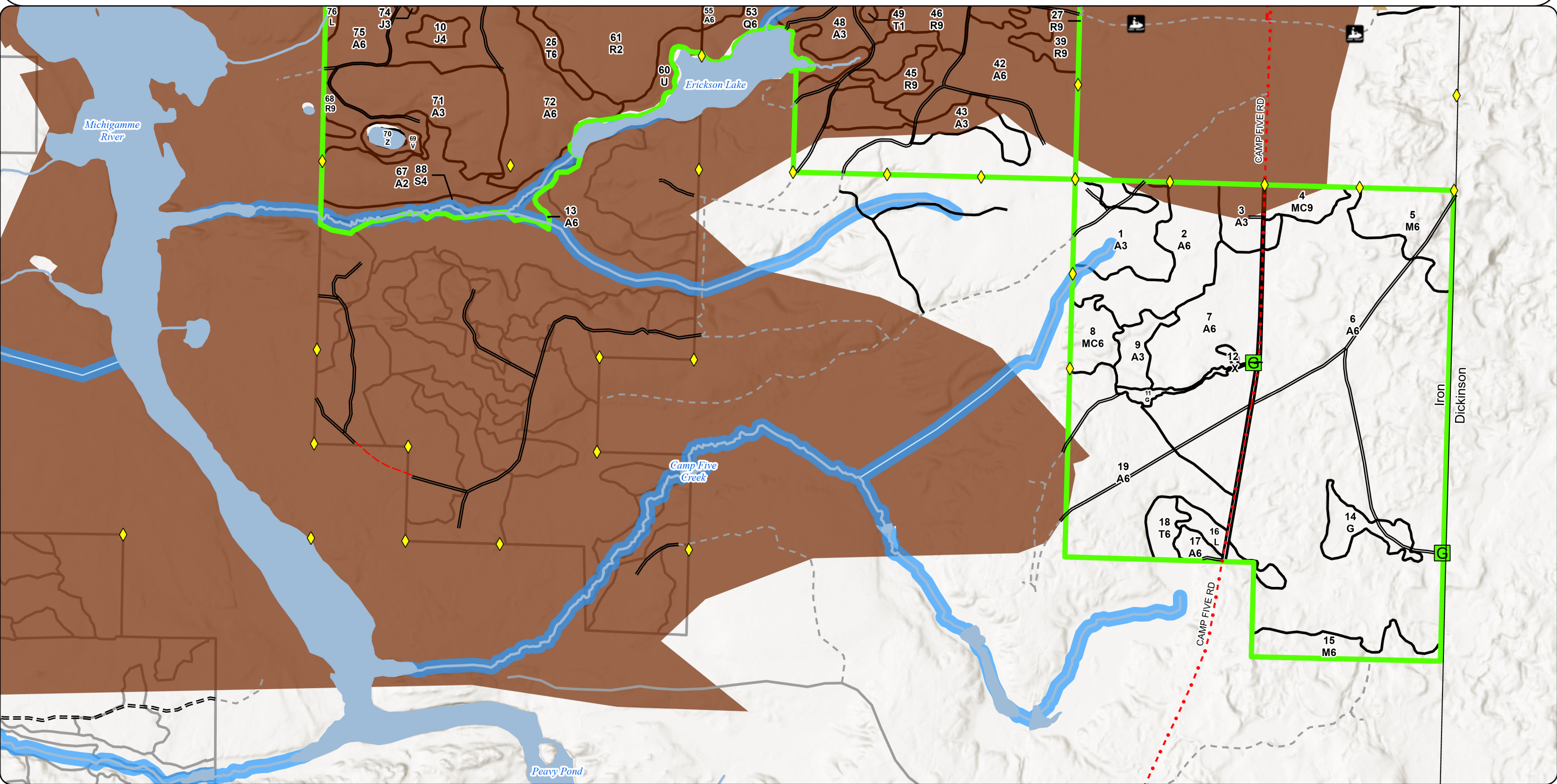


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Report 1 – Total Acres by Cover Type and Age Class



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	96	98	132	407	649	94	0	0	0	0	0	0	0	0	0	0	17	1493
Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Cedar	0	0	0	0	0	0	0	0	0	16	0	33	0	0	0	0	0	0	49
Herbaceous Openland	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Jack Pine	0	0	0	8	0	9	0	0	0	0	0	0	0	0	0	0	0	0	17
Low-Density Trees	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	35
Lowland Shrub	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	15
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Natural Mixed Pines	0	0	0	0	0	0	0	0	11	0	0	29	0	0	0	0	0	0	40
Northern Hardwood	0	0	0	0	0	0	5	0	47	0	0	0	0	0	0	0	0	0	52
Red Pine	0	61	0	0	0	0	0	87	7	162	13	5	0	0	0	0	0	0	335
Tamarack	0	12	0	0	0	0	8	15	0	0	0	12	0	0	0	0	0	0	47
Upland Conifers	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Upland Mixed Forest	0	0	0	17	0	0	12	0	0	0	0	0	0	0	0	0	0	0	29
Upland Shrub	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Total	154	169	98	157	421	658	119	102	65	178	13	129	0	0	0	0	0	17	2279



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 168
Total Compartment Acres: 2,276

Commercial Harvest - 1038
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	313	0	0	0	0	0	0	0	0	313
Natural Mixed Pines	0	0	0	0	0	11	0	0	0	11
Northern Hardwood	0	52	0	0	0	0	0	0	0	52
Red Pine	0	0	0	7	0	205	0	0	0	249
Upland Mixed Forest	12	0	0	0	0	0	0	0	0	12
Total	325	52	0	7	0	215	0	0	0	636

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	636	0	61	0	58	0	7	0	5	766
Next Step	0	16	0	0	58	0	562	0	0	636
Total	636	16	61	0	115	0	570	0	5	1402



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

4	12168004-Cut	10.7	42290 - Natural Mixed Pine	9	79	111-140	Harvest	Thinning	42290 - Natural Mixed Pine	Current	No
<p><u>Prescription</u> Mark pine to average 100 - 120 BA. Focus on creating a healthy/diverse, evenly spaced canopy across the stand while favoring white pine. <u>Specs:</u> Leave all other species unless needed for operability.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027</p>											
5	12168005-Cut	29.0	4110 - Sugar Maple Association	6	76	111-140	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality, releasing crop trees, and creating canopy gaps to create and/or release regeneration. <u>Specs:</u> Leave some large future snag trees for wildlife. Leave all conifer and oak unless needed for operability. Favor spe</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u></p> <p><u>Other</u> Open up around mature oak driplines to encourage oak regeneration. <u>Comment:</u></p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027</p>											
6	12168006-Cut	139.6	4130 - Aspen	6	47	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Harvest all merchantable trees to promote aspen regeneration. Retention should include large diameter forked crown aspen and a diverse mix of species. Leave all conifer and oak unless needed for operability. Green mark while cruising to leave approximatel</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
72 12168010-Cut	9.1	4130 - Aspen	6	46	81-110	Harvest	Clearcut	42221 - Natural Jack Pine, Mixed Deciduous	Planting Record	No
<p><u>Prescription</u> Harvest to a 2" spec to prep site for natural jack pine regeneration. Leave any red pine, white pine, or oak if present. No retention due to smaller size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Scarify site to encourage natural pine regeneration. Winter harvest for deer winter range.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										
11 12168011-NF	4.6	31021 - Cool Season Grass	99			NonForestMgt	Openings Mgmt.	31021 - Cool Season Grass	Previous Inventory	No
<p><u>Prescription</u> maintain trail and small opening for planting for wildlife</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2016</p>										
15 12168015-Cut	18.1	4110 - Sugar Maple Association	6	72	141-170	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality, releasing crop trees, and creating canopy gaps to create and/or release regeneration.</p> <p><u>Specs:</u> Leave some large future snag trees for wildlife. Leave all conifer and oak unless needed for operability. Favor spe</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Open up around mature oak driplines to encourage oak regen.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										
19 12168019-Cut	41.1	4130 - Aspen	6	51	Unspecified	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Harvest all merchantable trees to promote aspen regeneration. Retention should include large diameter forked crown aspen and a diverse mix of species. Leave all conifer and oak. Green mark while cruising to leave approximately one hardwood tree per if ava</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										

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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
21	12168021-Cut	12.0	4319 - Mixed Upland Forest	6	54	111-140	Harvest	Clearcut	4319 - Mixed Upland Forest	Cutting Record	No
<p><u>Prescription</u> Harvest all merchantable trees to promote mixed deciduous and conifer regeneration. Retention should include a diverse mix of species.</p> <p><u>Specs:</u> Leave all pine, black cherry, and oak if present unless needed for operability. Green mark while cruising to leave at le</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Look for long term retention near the opening edge containing dense white pine saplings. Protect non-merchantable white pine saplings as much as possible during operations. Access from the south through company/state land, or from the west through the Cou</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>											
24	12168024-Cut	4.7	4112 - Maple, Beech, Cherry Association	6	58	141-170	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality, releasing crop trees, and increasing diversity. Leave some large future snag trees for wildlife. Leave all conifer and oak unless needed for operability. Favor species diversity while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Open up around oak to encourage regeneration. Dense smaller sized poles, mark enough for operability while keeping quality improvement in mind. Winter harvest for deer winter range.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>											
27	12168027-Cut	118.942210	42210 - Natural Red Pine	9	80	141-170	Harvest	Thinning	42290 - Natural Mixed Pine	Current	No
<p><u>Prescription</u> Mark pine to average 100 - 120 BA. Focus on creating a healthy/diverse, evenly spaced canopy across the stand. Avoid marking in or directly adjacent to established aspen patches. These patches will help promote natural pine regeneration under a deciduous</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter harvest for deer winter range.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>											
38	12168038-Cut	5.0	42110 - Planted Red Pine	9	61	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> Mark pine to average 120 BA. Focus on improving quality. Favor white pine for diversity. Leave all other species unless needed for operability</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter harvest for deer winter range.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
39 12168039-Cut	37.642210	Natural Red Pine	9	81	111-140	Harvest	Other Harvest - See Comments	42290 - Natural Mixed Pine	Current	No
<p><u>Prescription</u> Thin stand to average 70 - 90 BA. Use the variable density thinning (VDT) technique for natural pine stands. It involves varied arrangement of removal/residual trees to increase horizontal and vertical heterogeneity. VDT should also retain scattered trees</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter harvest for deer winter range.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										
46 12168046-Cut	19.5	42110 - Planted Red Pine	9	61	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> Mark pine to average 120 BA. Focus on improving quality. Favor white pine for diversity. Leave all other species unless needed for operability.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter harvest for deer winter range.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										
49 12168049-Monitor	2.1	6121 - Tamarack	1	7	Immature	Monitoring	Monitoring - Regeneration	612 - Lowland Coniferous Forest	Planting Record	No
<p><u>Prescription</u> Stand was harvested in 2020. Sign of regeneration is present. Check next YOE for regeneration success.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current/past overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										
56 12168056-Cut	7.042210	Natural Red Pine	7	73	51-80	Harvest	Seed Tree	42290 - Natural Mixed Pine	Current	No
<p><u>Prescription</u> Mark stand to leave 20 BA of seed producing mixed pine across the stand. Leave the minor component of any other species to increase diversity.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Use extreme caution to protect existing mixed pine regeneration and smaller pole sized pine. Possibly scarify areas that have not regenerated from past harvests if no damage will be done to existing advanced regeneration of mixed pine. Winter harvest for</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
57 12168057-Cut	53.1	42110 - Planted Red Pine	9	61	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> Mark pine to average 120 BA. Focus on improving quality. Thin aspen as needed for operability without removing too much to encourage aspen regeneration. Favor white pine for diversity. Leave all other species unless needed for operability.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Ample opportunity to remove an abundance of low forked, high risk red pine. ONLY take aspen as needed for operability to discourage aspen regeneration. Winter harvest for deer winter range.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										
63 12168063-Burn	57.5	320 - Upland Shrub	99			Burn	Prescribed Burn	310 - Herbaceous Openland	Previous Inventory	No
<p><u>Prescription</u> Rx burn and/or mechanical opening maintenance.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Habitat Monitoring; Burn, Prescribed Fire</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										
68 12168068-Cut	8.0	42210 - Natural Red Pine	9	99	141-170	Harvest	Thinning	42290 - Natural Mixed Pine	Current	No
<p><u>Prescription</u> Mark pine to average 100 - 120 BA. Focus on creating a healthy/diverse, evenly spaced canopy across the stand. Leave all other species unless needed for operability.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Winter harvest for deer winter range.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										
72 12168072-Cut	47.0	4130 - Aspen	6	46	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Harvest all merchantable trees to promote aspen regeneration. Retention should include large diameter forked crown aspen and a diverse mix of species. Leave all conifer and oak if present unless needed for operability. Only remove spruce/fir if needed for</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Use extra caution to avoid damage to well established pine saplings. Buffer flooded lowland stream corridor to the north 100', this will be included as long term retention for the stand. Additional areas in the far north of steep rock outcrops may be excl</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
78 12168078-Cut	65.2	4130 - Aspen	6	46	81-110	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Cutting Record	No
<p><u>Prescription</u> Harvest all merchantable trees to promote aspen regeneration and encourage success of advanced pine regeneration. Retention should include large diameter forked crown aspen and a diverse mix of species. Leave all conifer and oak if present unless needed f</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Use extra caution to avoid damage to well established pine saplings. Buffer lower area across the east end an approximate tree length.</p> <p><u>Comment:</u> Include a 100' buffer along the waterway/stream along the south edge of the treatment area. Include 100' buffer around c</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										
81 12168081-Cut	10.6	4130 - Aspen	6	51	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Harvest all merchantable trees to promote aspen and other shade intolerant species. Leave all cedar and pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the current overstory species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Use caution to protects any pine saplings and/or small pine poles that are established. Winter harvest for deer winter range.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2027</p>										

Approved Treatments:

61 12168061-Plant	60.6	42110 - Planted Red Pine	2	4	Immatu re	Planting	Planting (tree species)	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> 2/3/2026 - Changed start date back - tjs. (rolled over from 2026) (Extra Site) Plant at 150 TPA if extra trees are available</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen; Monitoring, Artificial Regen</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Pine, Aspen, Mixed conifers, Mixed hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u> TCR Date: Unknown (replant 2018YOE)</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2025</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
65 12168065.2_M onitor	5.3	42210 - Natural Red Pine	7	101	1-50	Monitoring	Monitoring - Regeneration	42290 - Natural Mixed Pine	Planting Record	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Pine, Aspen, Mixed conifers, Mixed hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2025</p>										

Total Treatment 766.3
Acreage Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Eric Brolin : Examiner

Compartment: 168

Year of Entry: 2028



Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions		
		With Condition				5C	3J	5E
1126	779	338		10	Aspen	338		10
6	6	0		0	Bog			
49	49	0		0	Cedar			
18	18	0		0	Herbaceous Openland			
17	17	0		0	Jack Pine			
10	10	0		0	Low-Density Trees			
35	35	0		0	Lowland Conifers			
27	27	0		0	Lowland Shrub			
15	15	0		0	Lowland Spruce/Fir			
5	5	0		0	Marsh			
40	40	0		0	Natural Mixed Pines			
52	52	0		0	Northern Hardwood			
326	321	0		5	Red Pine		5	
39	25	12		2	Tamarack	12		2
14	14	0		0	Upland Conifers			
29	29	0		0	Upland Mixed Forest			
63	63	0		0	Upland Shrub			
6	7	0		0	Urban			
18	18	0		0	Water			
1,895	1,529	350		16	Total Forested Acres	350	5	12
	81%	18%		1%	Relative Percent			

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Manage half and hold half of Stand 19 to create more aspen age class diversity on a larger acreage stand. S/SE area of Stand 19 decreases significantly in diameter as elevation lowers towards lowland stands. Hold until next YOE to allow more diameter growth.							

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2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	137	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment until 2038 YOE to create aspen age class diversity in the area.							
3	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for adjacent stands. Approximate tree length buffer to around openings to discourage aspen regeneration into the wildlife openings.							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for Stand 9.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments: EXTENDED ASPEN ROTATION. Delay treatment until 2048 YOE to increase aspen age class diversity in the area. Areas contain natural pine understory component that may become better established with aspen canopy cover and create more future species diversity.							
6	Unavailable	5E: Long-Term Retention	8	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Long term retention for harvest area, Stand 6. Retention includes vernal areas with a 100' buffer, and scattered interior patches dense to conifer and/or large oak with a mix of aspen.							
7	Unavailable	5E: Long-Term Retention	8	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Long term retention for Stand 73. Area is surrounded by steep rock outcrops. Area contains mature aspen and pine.							

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8	Unavailable	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Long term retention for Stand 81. Contains low ground with edges that represent current species overstory.							
9	Unavailable	5E: Long-Term Retention	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Long term retention for Stand 78. Includes a low depression across the stand that contains softer soil and a tamarack patch, no running or standing water areas. Exclude with an approximate tree length buffer to avoid soil damage and/or water quality issues. Also includes strips along the south to act as a 100' buffer for the unnamed waterway/stream.							
10	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for adjacent anticipated harvest area in YOE 2038. Vernal depressions with 100' buffer. These still need to be considered and buffered appropriately for adjacent proposed harvest for YOE 2028.							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Large acreage aspen stand was broken up to create more aspen age class diversity in the area. These areas contain some smaller average diameter than the proposed harvested areas of the stand. They also contain a more dense pine understory. Reevaluate YOE 2038 for management.							
12	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area of extremely dense white pine advanced regeneration, average 2" - 4" diameter. Exclude from management and protects this YOE 2028. Reevaluate next YOE for possible management.							

Report 4 – Site Conditions

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13	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 100' buffer along lowland bog area.							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Half of a large acreage aspen stand. Broken up to create aspen age class diversity in the area. This area contains slightly smaller diameter trees and dense red maple advanced regen in the understory that may become more merchantable next YOE.							
15	Unavailable	5E: Long-Term Retention	3	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Long term retention for Stand 72. 100' buffer along flooded lowland area along the north edge.							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand should hold well until next YOE. I would be best managed with the adjacent aspen to the west in the future for access while avoiding operating in the planted pine to the east.							
17	Unavailable	5E: Long-Term Retention	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Saturated ground excluded from past harvest. Long term retention for Stand 20.							

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	Sapling Well	33.2	6	Immature	N/A	Cut in 2019. Past budworm damage before harvest. Stand has regenerated well to aspen saplings. Some scattered mature pine and conifer saplings within.																																																							
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3	4130 - Aspen	Sapling Well	14.7	19	1-50	N/A	Aspen sapling stand with scattered oak and some mature pine. Harvested in 2008.																																																							
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4	42290 - Natural Mixed Pine	Sawtimber Well	10.7	79	111-140	N/A	Thinned in 2019. Healthy diverse mix of pine. Numerous age classes from small pole to XL log. Some oak saplings established. Some red maple saplings in areas otherwise fairly open understory except for some aspen saplings along the edges. 160 120 140 Average of 140 BA.																																																							
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5	4110 - Sugar Maple Association	Poletimber Well	29.0	76	111-140	N/A	Thinned in 2000. Good quality hardwoods heavy to basswood. Basswood averages log size, sugar maple averages larger pole to small log sugar. Rolling terrain across the stand. Scattered large oak within. Ironwood is heavy in areas with some sugar maple saplings. 120 140 130 140 Average of 130BA.																																																																																		
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6	4130 - Aspen	Poletimber Well	335.3	47	111-140	N/A	Aspen poles ranging from small pole sized to large log sized Aspen, hazel is dominant in most understory, good amount of cherry saplings, oak saplings scattered within, under patches in spots more dense to mixed conifer, wp sapling poles more abundant in south, Aspen site Quaking quality is moderate, vernal exclusions within, more conifer under in the south especially wpsmall scattered pockets with h maple saplings. areas of less vigorous aspen growth, notably towards the S end of stand - stand in this area has more spruce/fir component. scattered vernal ponds throughout.																																																																																		
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7	4130 - Aspen	Poletimber Well	79.8	30	1-50	N/A	Cut in 1997. Aspen stand transitioning to pole sized trees. Better quality patches are reaching merchantable size, otherwise just shy of that yet. Scattered large white spruce, some pine, and oak scattered across the stand. Patch along the west is a bit sparse. Dense mixed conifer found along the Camp 5 road edge.																																																																																		
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8	429 - Mixed Upland Conifers	Poletimber Well	13.5	37	1-50	N/A	Mixed aspen and jack pine with a lower tamarack patch in the SW area.																																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
9	4130 - Aspen	Sapling Well	11.0	8	Immature	N/A	Cut in 2019. Aspen saplings with some scattered conifer.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		93	Sapling	2	8				
White Spruce		5	Sapling/Pole	3					
Black Spruce		1	Sapling	2					
Red Pine		1	Log/Pole	13					
10	42220 - Natural Jack Pine	Poletimber Poor	9.1	46	51-80	N/A	Open areas dominant to patchy, open grown jack pine. Aspen speckled in shows very poor site quality. Jack pine diameter is well above merchantable size being more open grown trees.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		15	Pole	8	46	Jack Pine	Low	Variable	Variable
Black Spruce		3	Pole/Sapling	6		Red Pine	Trace	Variable	Variable
White Pine		2	XLog/Log	18		White Pine	Low	Variable	Variable
Red Pine		2	XLog/Log	18					
Jack Pine		78	Pole/Sapling	7	46				
11	31021 - Cool Season Grass	None	4.6			No	Maintained hunter walking trail, gated at Camp 5 Road.		
12	122 - Road/Parking Lot	None	5.0			No	Camp 5 Road		
13	4130 - Aspen	Poletimber Well	8.8	46	81-110	N/A	Aspen poles, moderate site quality at best. Patches of mature mixed pine in areas. Scattered conifer saplings in the understory.		
14	31021 - Cool Season Grass	None	13.4			No	Opening with scattered conifer and cherry saplings.		
15	4110 - Sugar Maple Association	Poletimber Well	18.1	72	141-170	N/A	Thinned in 2000. Moderate to better quality hardwoods. Sugar maple averages large pole or small log diameter size. Overall stand quality would improve significantly from a thinning. No oak observed within but scattered saplings in the understory and mature oak in adjacent stands. BA is a bit lighter in areas in the east half. 110 150 150 Average of 140 BA.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		65	Log/Pole	10	72	Sugar Maple	Low	Variable	Variable
Red Maple		10	Log/Pole	12		Ironwood	Medium	Variable	Variable
Yellow Birch		6	Log/Pole	12		Leatherwood	Medium	5 - 10 feet	5 - 10 feet
Basswood		18	Log/Pole	13					
Ironwood		1	Pole/Sapling	6					
16	6229 - Mixed Lowland Shrub	None	8.7			No	Flooded alder with scattered lowland conifer		
17	4130 - Aspen	Poletimber Well	4.7	37	81-110	N/A	Pure aspen pole stand with some edge conifers.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		98	Pole	8	37	White Spruce	Trace	Variable	Variable
White Spruce		2	Pole/Sapling	6		Black Spruce	Trace	Variable	Variable



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
18	6121 - Tamarack	Poletimber Well	8.3	52	Unspecified	N/A	Dense lowland conifer mix.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		40	Pole/Sapling	6	52	Tag Alder	
Northern White Cedar		5	Pole	8		Tamarack	
Tamarack		55	Pole/Sapling	6	52	Black Spruce	
						Density	
						Avg. Height	
						Size	
19	4130 - Aspen	Poletimber Well	82.3	51	Unspecified	N/A	This stand is mapped in the past records as being cut in 1986/87 along with adjacent stands 2/8/9. No notes indicate that stand 19 was not cut. This stand is much larger diameter and has cored out to be around 50 years old. Stand age was changed from late 30's to 50. Average large pole sized aspen with larger bigtooth areas within. The far S/SE decreases in size significantly as elevation tapers to lower ground.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		1	Pole	6		White Spruce	
Red Maple		2	Pole/Log	7		Black Cherry	
Red Oak		1	XLog	18		White Pine	
Quaking Aspen		81	Pole	7	51	Hazelnut (Spp.)	
Bigtooth Aspen		10	Pole	8	51	Red Pine	
White Spruce		1	Pole/Sapling	6			
Black Spruce		1	Pole/Sapling	6			
Tamarack		1	Pole	6			
Red Pine		1	Log/Pole	13			
Black Cherry		1	Pole/Sapling	5			
20	6121 - Tamarack	Sapling Medium	9.7	4	Immature	N/A	Lowland patch that is regenerating to tamarack saplings, a bit of black spruce, and aspen along the higher ground edges. Patchy in spots but should fill in with more time. Small corridor in the south was excluded from harvest.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		20	Sapling	1	4	Tag Alder	
Black Spruce		10	Sapling	1			
Tamarack		70	Sapling	1	4		
21	4319 - Mixed Upland Forest	Poletimber Well	12.0	54	111-140	N/A	Evenly scattered mix of white pine, white spruce, and larger diameter aspen. Some of the spruce and aspen are showing a bit of decline. Small opening in the east is growing in with cherry and conifer with the edges being fairly dense with pine saplings.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Pole/Sapling	6		White Pine	
Quaking Aspen		35	Log/Pole	10	54	White Spruce	
Balsam Poplar		2	Pole	7		Black Cherry	
Balsam Fir		5	Pole/Sapling	6		Red Pine	
White Spruce		34	Pole/Log/Sap	8	57		
White Pine		10	Log/Pole/XLog	13	68		
Red Pine		1	Pole/Sapling	7			
Jack Pine		5	Log/Pole	10			
Black Cherry		3	Pole/Log/Sap	8			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																																
22	4130 - Aspen	Poletimber Well	26.0	40	51-80	N/A	Aspen pole stand with a few scattered oak. Dense conifer saplings/poles more dominant in the north half. A grown in road accesses the area from the south.																																																																																																
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23	4130 - Aspen	Sapling Well	57.5	29	51-80	N/A	Aspen stand starting to transition to pole sized trees. Large scattered oak and pine within. Mature pine in more dominant in the SW area. A fair amount of oak and mixed hardwood sapling are found in the understory.																																																																																																
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24	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.7	58	141-170	N/A	Small elevation rise containing pure hardwood species. A majority of red maple is large pole size and very poor quality. There are some better quality red maple within. A fair amount of large sapling / small pole size sugar maple are showing potential for future moderate or better quality. A few scattered mature red oak and large hemlock across the stand.																																																																																																
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25	6121 - Tamarack	Poletimber Well	12.4	104	111-140	N/A	Lowland conifer stand. Ground appears seasonally soft but not flooded with standing/flowing water. Mixed mature conifer, a bit heavier to tamarack.																																																																																																
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26	122 - Road/Parking Lot	None	1.5			No	Camp 5 Rd																																																																		
27	42210 - Natural Red Pine	Sawtimber Well	119.1	80	141-170	N/A	Red pine logs. Stand has a good mix of red/white pine diversity and different size classes. Trees range from larger pole size to log size of 14"-16". White pine is evenly scattered across the stand leaning towards more smaller to larger pole size trees rather than log size. Some larger gaps within have aspen sapling regeneration with the larger, older gaps having near pole size aspen patches. 170 140 130 170 130 Average of 150 BA across the stand.																																																																		
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30	6121 - Tamarack	Poletimber Well	14.7	68	81-110	N/A	Soft ground lowland conifer surrounding a lake.																																																																		
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31	500 - Water	None	15.3			No	Emerson Lake																																																																		
32	6229 - Mixed Lowland Shrub	None	4.9			No	Flooded marsh grass area.																																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
33	4130 - Aspen	Poletimber Well	5.7	33	1-50	N/A	Aspen poles with thick understory of hazel and some conifer.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Pole	7		Hazelnut (Beaked)	
Paper Birch		5	Sapling/Pole	4		Density	
Quaking Aspen		80	Pole/Sapling	5	33	Avg. Height	
White Spruce		5	Sapling	2		Size	
Red Pine		5	Log	14		< 5 feet	
						< 5 feet	
35	4311 - Pine, Aspen Mix	Sapling Well	17.3	27	1-50	N/A	Harvested in 1999. Openings were sprayed and planted with red pine. Ranges from dense aspen, to dense rep pine, to mixed across the area. Diameters range from smaller to near or at pole sized trees depending on canopy access to light. Reevaluate next YOE for possible harvest.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		45	Sapling/Pole	3	27	Red Pine	
Red Pine		55	Sapling/Pole	3	27	Medium	
						Variable	
						Variable	
						Variable	
36	4133 - Aspen, Mixed Pine	Sapling Well	50.6	28	Unspecified	N/A	Aspen stand making transition to pole sized trees. Dense understory in areas with mixed conifer saplings and poles. Mature pine across most areas.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		70	Sapling/Pole	4	28	Red Pine	
White Spruce		5	Pole	8		Medium	
White Pine		10	Log/Pole	12	80	Variable	
Red Pine		10	Log/Pole	13	80	Variable	
Black Cherry		5	Sapling	2		Variable	
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37	6120 - Lowland Cedar	Poletimber Well	7.1	105	Unspecified	N/A	Mostly dense cedar with some open marsh and tamarack.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		5	Pole	6		Tag Alder	
Black Spruce		10	Pole	7		High	
Northern White Cedar		75	Log/Pole	10	105	5 - 10 feet	
Tamarack		10	Pole	9		5 - 10 feet	
38	42110 - Planted Red Pine	Sawtimber Well	5.0	61	141-170	N/A	Thinned in 2020. Red pine logs with scattered conifer saplings in the understory. The north 2/3 has dense stocking of red pine, the south 1/3 has more open canopy and some larger diameter. Average of 165 BA. Planted in 1966.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		2	Log/XLog	14		Balsam Fir	
Red Pine		98	Log/Pole	12	61	Medium	
						Variable	
						Variable	
						Variable	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
39	42210 - Natural Red Pine	Sawtimber Well	37.6	81	111-140	N/A	A bit larger diameter red pine. Patchy openings have larger aspen saplings. Otherwise more denser pine canopy areas have very little understory saplings. Some scattered white spruce saplings and heavy hazel brush in areas. Little to no hardwood regeneration across the understory, just the aspen patches and a few scattered birch, oak, and cherry saplings. BA varies about 100-150+ in patches.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		1	Log/Pole	11		Hazelnut (Beaked)		
Paper Birch		1	Pole/Sapling	5		Quaking Aspen		
Quaking Aspen		3	Sapling/Pole	4		White Spruce		
Bigtooth Aspen		2	Sapling/Pole	4		Paper Birch		
White Spruce		1	Pole/Sapling	6		Red Oak		
White Pine		10	Log/Pole/XLog	12				
Red Pine		82	Log	14	81			
41	42210 - Natural Red Pine	Sawtimber Well	5.0	81	81-110	N/A		Thinned in 2020. Fairly open canopy red pine logs. Mixed aspen saplings filling in gaps. Some mixed conifer saplings in the understory.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Spruce		2	Pole/Sapling	5		Quaking Aspen		
White Pine		10	Log/Pole	13		White Spruce		
Red Pine		88	Log/Pole	13	81	Bigtooth Aspen		
42	4136 - Aspen, Mixed Conifer	Poletimber Well	129.3	37	81-110	N/A	Aspen pole stand. Healthy trees but poorer site index in a lot of areas. Numerous natural red pine patches that have transitioned to small pole sized trees, especially along roads. More bigtooth and better quality and diameter in areas found in the south half.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		1	Log/Pole	13		White Spruce		
Paper Birch		2	Sapling/Pole	3		Hazelnut (Beaked)		
Quaking Aspen		56	Pole/Sapling	6	37	Black Cherry		
Bigtooth Aspen		19	Pole	7		Red Pine		
White Spruce		3	Pole/Sapling	6				
White Pine		5	Log/XLog/Pole	16				
Red Pine		7	Log	14				
Red Pine		7	Pole/Sapling	6				
43	4136 - Aspen, Mixed Conifer	Sapling Well	24.7	19	Immature	N/A	Dense, healthy mixed aspen. Edges are patchy and some open areas in the east but overall average over 75% canopy cover across stand. Open patches filling in with some mixed conifer and a few oak saplings.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		5	Sapling	2		Red Oak		
Red Oak		3	Log	12		White Spruce		
Quaking Aspen		42	Sapling	3	19			
Bigtooth Aspen		30	Sapling/Pole	3	19			
White Spruce		10	Sapling/Pole	3				
Red Pine		5	Log/Pole	12				
Red Pine		5	Sapling	2				
45	42110 - Planted Red Pine	Sawtimber Well	9.0	60	81-110	N/A	Thinned in 2020. Red pine log stand. Patchy openings and crowns with room to grow yet.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		5	Log/Pole	10		Quaking Aspen		
Red Pine		95	Log/Pole	12	60	White Spruce		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
46	42110 - Planted Red Pine	Sawtimber Well	19.5	61	171-200	N/A	A majority of the east was thinned in 2020, a patch in the west was managed prior. Red pine log stand. Small patches with more open canopy scattered across the stand but overall dense red pine stocking. Larger canopy gaps are growing aspen saplings. 150 220 180 Average of 180 BA in the stocked red pine areas. Planted in 1966.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		5	Log	14		Quaking Aspen		Medium	Variable	Variable
Red Pine		95	Log/Pole	12	61	White Spruce		Medium	Variable	Variable
48	4136 - Aspen, Mixed Conifer	Sapling Well	23.6	29	1-50	N/A	Aspen stand transitioning to pole sized trees. Scattered mixed conifer and some soft pockets within.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		70	Pole/Sapling	5	29	Black Cherry		Medium	Variable	Variable
Balsam Fir		5	Pole/Sapling	5		Tamarack		Low	Variable	Variable
White Spruce		10	Pole/Sapling	5		White Spruce		Medium	Variable	Variable
Tamarack		5	Pole/Sapling	6		Red Pine		Low	Variable	Variable
Red Pine		10	Log/Pole	13						
49	6121 - Tamarack	Sapling Poor	2.1	7	Immature	N/A	Stand was cut in 2020. Very sparse regeneration so far but showing sign. Monitor in future for successful regeneration.			
Canopy Species		% Cover	Size Class	DBH	Age					
Black Spruce		40	Sapling	1	7					
Tamarack		60	Sapling	1	7					
52	6233 - Wet Meadow	None	5.0			No	Open march with water.			
53	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	35.3	104	81-110	N/A	Web of low ground. Ranges from dense cedar, lowland conifer, alder patches, and declining aspen/spruce.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		5	Log/Pole	13		Tag Alder		High	5 - 10 feet	5 - 10 feet
Black Spruce		30	Pole	8	85	Black Spruce		Low	Variable	Variable
Northern White Cedar		35	Log/Pole	11	104					
Tamarack		30	Pole	9						
55	4130 - Aspen	Poletimber Well	13.1	40	Unspecified	N/A	Aspen poles with a few scattered conifer and some conifer saplings. Same age but with better quality and diameter than the adjacent aspen stand to the north.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		89	Pole	7	40	Black Cherry		Low	Variable	Variable
White Spruce		3	Pole/Sapling	7		White Pine		Low	Variable	Variable
White Pine		1	Log	14		White Spruce		Medium	Variable	Variable
Red Pine		7	Log/Pole	13						
56	42210 - Natural Red Pine	Sawtimber Poor	7.0	73	51-80	N/A	Past shelterwood performed. Some open patches but a lot of area is upwards around 100 BA. A few small pockets of more dense natural red pine regen. Otherwise just some scattered jack/red/white pine saplings across the stand. Any dense pine regeneration seems to be outside of denser canopy areas.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		5	Pole	9		Red Pine		Low	Variable	Variable
White Pine		10	Log	14		White Spruce		Low	Variable	Variable
Red Pine		85	Log/Pole	13	73					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
57	42110 - Planted Red Pine	Sawtimber Well	53.1	61	171-200	N/A	Area west of the road and east of the road were merged to create one stand for future management, ages were the same with similar stocking. East half had wide rows from past harvest, canopy has grown together well now. BA is around 180 average, possibly higher in the west. Stand has a lot of opportunity to remove poor form and low forked trees this entry. Planted in 1966.																																	
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58	4130 - Aspen	Poletimber Well	9.8	40	51-80	N/A	Low site index aspen. Trees have just reached merchantable size. Some small patchy open areas in the east half.																																	
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60	330 - Low-Density Trees	None	10.3			No	Buffered edge along lake. Very open with some mature pine and saplings.																																	
61	42110 - Planted Red Pine	Sapling Medium	60.6	4	Immature	N/A	Planted pine saplings. Trenched in 2021, sprayed in 2022, planted in 2023. First year count is 627TPA. Third year count is 538 TPA. Replant if trees are available. Poor quality Aspen. Losing volume as trees are dying most likely due to soil characteristics. Likely PARV[w] Kotar habitat type.																																	
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63	320 - Upland Shrub	None	62.6			No	Large opening with some scattered cherry, conifer, and some aspen along edges. WLD: Breakout area in DWC, some of the largest concentrations of deer in the unit. Limited herbaceous openings in this unit and MA. Featured species bear, deer, woodcock all key in on openings providing forbes and soft mast. Critical habitat for open land WLD, blue birds, sandhills, sandpipers, and turkeys. Opening would be coded to opening maintenance and mast tree plantings, but was already coded to conversion to red pine.																																	
64	4130 - Aspen	Sapling Well	9.4	13	Immature	N/A	Patchy open areas across stand otherwise stocked well with aspen. Different ages and stocking within. Aspen ranges from smaller diameter saplings to near pole sized saplings. Some larger diameter patches along the edges. Eastern portion harvested in 2000, while western parts harvested 2013																																	
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65	42210 - Natural Red Pine	Sawtimber Poor	5.3	101	1-50	N/A	Past pine shelter left 30-40 ba of mature mixed pine, heavy to Red. Heavy mat of sedge and fern shows only a few spruce and rp/wp saplings.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
66	6120 - Lowland Cedar	Poletimber Well	25.7	104	111-140	N/A	Mixed lowland conifer heavy to cedar in most areas. Flooded lowland ground with running water seasonally.																																																				
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67	4136 - Aspen, Mixed Conifer	Sapling Medium	36.9	13	Immature	N/A	Very mixed, diverse mess of species and size classes. Overall a younger sapling stand. Dense conifer and hardwood saplings with open patches. Some patches of more mature aspen and conifer. More upland conifer along the south edge was unmanaged.																																																				
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68	42210 - Natural Red Pine	Sawtimber Well	12.7	99	141-170	N/A	Dense red pine logs. Aspen was removed in 2000. areas with white pine regen.																																																				
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69	6225 - Bog	None	6.2			No	Bog area																																																				
70	500 - Water	None	2.5			No	Pond																																																				
71	4130 - Aspen	Sapling Well	51.7	6	Immature	N/A	Fully stocked aspen saplings with some mature mixed pine in areas.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																		
72	4130 - Aspen	Poletimber Well	111.2	46	81-110	N/A	Aspen poles, moderate site quality at best. Patches of mature mixed pine in areas. Scattered conifer saplings in the understory with some patches containing more dense white pine advanced regen. The S/SE area has a very dense understory of well established red maple saplings. A bit larger aspen diameter in the north half of the stand. The far north tip contains some steep rock outcrops that may have to be excluded from future harvest.																																																																		
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73	4136 - Aspen, Mixed Conifer	Sapling Well	16.9	7	Immature	N/A	Dense aspen saplings. Edges or pockets with lower ground have regenerated back to small tamarack saplings that should fill in well with time. The center portion is not included in the canopy info. The center is inaccessible due to steep rock outcrops around the edges that prevent access/operations.																																																																		
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74	42220 - Natural Jack Pine	Sapling Well	7.8	26	81-110	N/A	Harvested 2000. Dense jack pine poles with some aspen along the edges.																																																																		
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75	4130 - Aspen	Poletimber Well	25.1	35	Immature	N/A	Small aspen poles. Mixed conifer scattered across the stand. Some open areas along the west edge and north 1/2 of the stand filling in with conifer and saplings. Harvested 1991.																																																																		
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76	6220 - Alder/Willow	None	13.6			No	Flooded lowland area with standing water.																																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
78	4130 - Aspen	Poletimber Well	144.5	46	81-110	N/A	Eastern 40 acres is 5 years older and shows a bit larger diameter. Aspen diameter ranges across the stand from 6" to 11"+, overall average is about 8" diameter. Some vernal pond areas in the central portion. Some areas have a fairly open understory but overall VERY stocked with white pine saplings in the understory. Some areas are extremely thick with white pine saplings. White pine saplings are well established and average 2" - 4" diameter.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	2	Log/Pole	11		Black Spruce	Low		Variable	Variable
Paper Birch	1	Log/Pole	12		Red Pine	Low		Variable	Variable
Quaking Aspen	88	Pole	8	46	Black Cherry	Low		Variable	Variable
Balsam Fir	1	Pole/Sapling	7		White Pine	High		Variable	Variable
White Spruce	1	Log	12		Balsam Fir	Low		Variable	Variable
Black Spruce	1	Pole/Sapling	6		Red Maple	Low		Variable	Variable
Tamarack	2	Pole/Sapling	7		Hazelnut (Beaked)	Medium		5 - 10 feet	5 - 10 feet
White Pine	1	XLog/Log	18		White Pine	Low		Variable	Variable
Red Pine	3	Log/XLog/Pole	16		Balsam Fir	Low		Variable	Variable
79	42290 - Natural Mixed Pine	Sawtimber Well	29.3	103	141-170	N/A		Natural pine stand with a lot of large diameter trees. Evenly dispersed white pine but overall heavier to red pine. Some small openings in the east half contained fir that is declining/dead and growing in with some pine and aspen saplings. Other small patches and veins across the stand contain some small pole size aspen with a fair amount considered to be merchantable understory trees. Mixed pine saplings are fairly abundant in areas. This stand has noticeably more red pine saplings than any surrounding aspen understories. BA varies quite a bit across the stand, anywhere from 100-120 to 200+ (especially in the NW section).	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Quaking Aspen	5	Pole/Sapling	6		Black Spruce	Low	Variable		Variable
Balsam Fir	5	Pole/Sapling	7		White Pine	Medium	Variable		Variable
White Pine	35	XLog/Log	20		Red Pine	Low	Variable		Variable
Red Pine	55	XLog/Log	18	103	Red Pine	Medium	Variable		Variable
					Red Maple	Medium	Variable		Variable
					Balsam Fir	Low	Variable		Variable
					Hazelnut (Spp.)	Medium	5 - 10 feet		5 - 10 feet
					Quaking Aspen	Low	>20 feet		>20 feet
80	4130 - Aspen	Poletimber Well	55.8	36	1-50	N/A	Aspen transitioned to small pole sized trees. Dense understory of conifer in most areas, heavy to white pine with a lot of black spruce saplings. Patchy openings in the E/NE are growing in with dense conifer and cherry saplings.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	1	Log/Pole	11		White Pine	Medium		Variable	Variable
Quaking Aspen	82	Pole/Sapling	6	36	Black Spruce	Medium		Variable	Variable
Balsam Poplar	3	Pole/Sapling	6		Red Pine	Low		Variable	Variable
White Spruce	5	Pole/Sapling	6		Black Cherry	Medium		Variable	Variable
Black Spruce	5	Pole/Sapling	5		Red Pine	Low		Variable	Variable
White Pine	1	XLog/Log	18		Balsam Fir	Medium		Variable	Variable
Red Pine	3	Log/Pole/XLog	14						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																											
81	4130 - Aspen	Poletimber Well	12.0	51	81-110	N/A	Large diameter aspen dominates most area. A more open patch in the SE has a lot of blowdown and declining fir. Fir is still alive. A wet ground patch in the center contains alder and some cedar.																																																																											
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82	4130 - Aspen	Sapling Well	11.8	13	Immature	N/A	Harvested in 2013. Dense aspen saplings.																																																																											
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84	6120 - Lowland Cedar	Poletimber Medium	15.8	88	81-110	N/A	Mostly flooded lowland. Areas of water and dense cedar.																																																																											
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85	4130 - Aspen	Poletimber Well	28.8	36	51-80	N/A	Aspen pole stand. Very little diversity. Some conifer saplings/poles in the understory.																																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
88	6122 - Black Spruce	Poletimber Poor	14.7	104	1-50	N/A	Flooded lowland edge along stream with alder and areas of conifer.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	60	Pole	8	104	Tag Alder	Low	5 - 10 feet	5 - 10 feet
Tamarack	35	Pole/Log	8		Balsam Fir	Low	Variable	Variable
White Pine	2	Log	14		Tamarack	Low	Variable	Variable
Red Pine	2	Log	14					
Jack Pine	1	Pole	7					