



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12145

Entry Year 2026

Acreage: 2,100

County Iron

Management Area: Way Dam Complex

Stand Examiner: Eric Brolin

Legal Description:

T43N-R31W Sections 13 - 15

Identified Planning Goals:

Our management goals in this compartment are to develop age class distribution in aspen types, maintain health of conifer types and increase acreage where possible, and to develop the quality while maintaining diversity in hardwood types.

Soil and topography:

A mix of Trenary fine sand loam with 6 to 18 percent slopes, stony rolling areas on knolls and back slopes on ground moraines and end moraines and Lupton-Cathro-Humaquepts complex with 0 to 2 percent slopes, depressions on ground moraines and outwash plains.

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

Ownership patterns in this compartment consist mostly of State lands and WE Energies with some small private parcels and hunting camps. Lands in and around this compartment are used mainly for hunting and managed for forest products.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment lies in the center of the Old Mansfield Deer Wintering Complex. Some of the best cedar in east Iron County is found in this compartment. It is critical that travel corridors and transition zones be maintained and enhanced when prescribed stands are treated. Age class diversity in the aspen stands will provide better grouse and woodcock habitat.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of coarse-textured till and medium-textured till. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Hemlock and Michigamme and Randville Formations and Archean Volcanics and Sedimentary Rocks subcrop below the glacial drift. The Randville has been used as a dimension stone and a quarry is located one mile to the south. Abandoned iron mines are located to the west. Part of this compartment was previously leased for metallic exploration. The nearest gravel pit is located two miles to the south, but there should be potential. There is no economic oil and gas production in the UP.

Vehicle Access:

Vehicle access is fairly good. Access is from Way Dam Road and connecting two tracks. Access to far eastern portion of compartment is through private.

Survey Needs:

Possible survey needs will be addressed for timber management.

Recreational Facilities and Opportunities:

None

Fire Protection:

Additional Compartment Information:

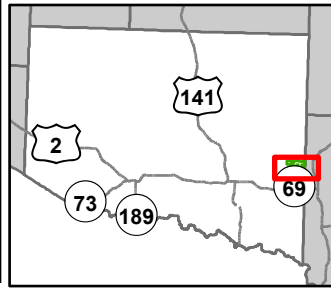
The following reports from the Inventory are attached:

- 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**

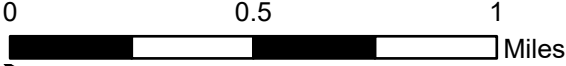
The following information is displayed, where pertinent, on the attached compartment maps:

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

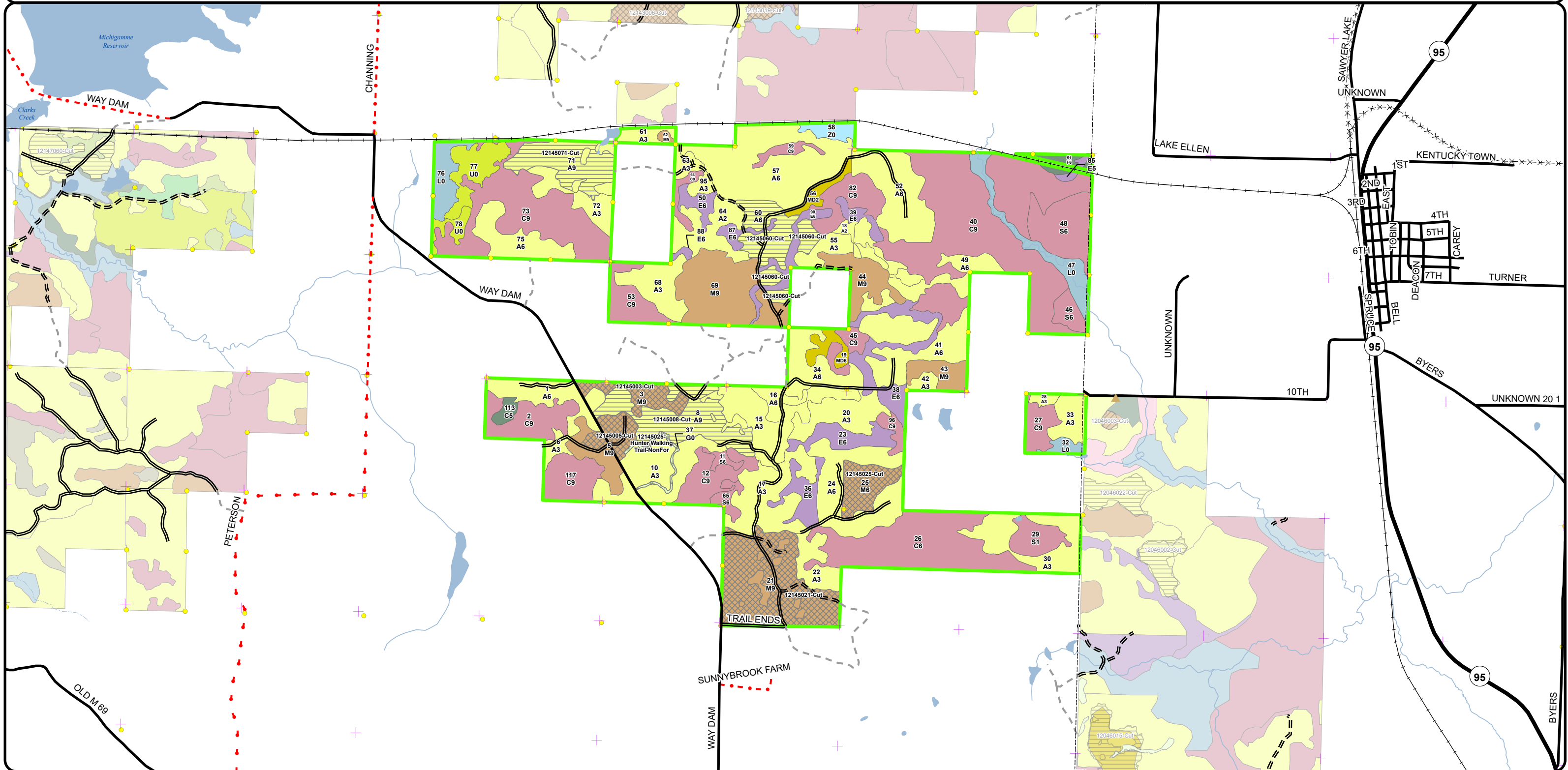
Cover Type & Treatments Map



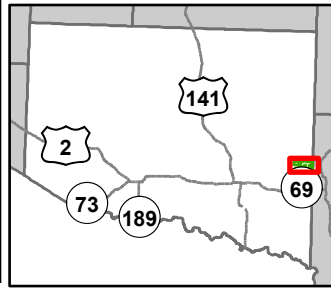
Compartment: 12145
 T43N, R31W, Sec: 13, 14, 15
 County: Iron
 Unit: Crystal Falls
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 YOE: 2026
 Acres: 2099.5 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 04/15/2024
 Map Phase: Web Post



- | | | | |
|---|----------------------------------|----------------------------------|-----------------------------------|
| ▲ Berms | --- Private - Dirt / Gravel Road | ▭ Compartment Boundary | ■ 423 - Other Upland Conifers |
| ● Survey Grade Corners | —+— Active Railroads | ▭ Counties | ■ 611 - Lowland Deciduous Forest |
| ⊕ Remonumented Section Corners | *** Abandoned Railroads | ▭ Other Treatment - See Comments | ■ 612 - Lowland Coniferous Forest |
| == DNR - Secondary Forest Road | — Intermittent Stream | ▭ Selection (Group, Single Tree) | ■ 310 - Herbaceous Openland |
| === DNR - Forest Access Route | — Lake/Pond | ▭ Clearcut (w/Reserves) | ■ 330 - Low Density Trees |
| — Federal / State Highway | — Perennial River | ■ 411 - Northern Hardwood | ■ 500 - Water |
| — Federal / State / County - Paved Road | — Swamp | ■ 413 - Aspen Types | ■ 622 - Lowland Shrub |
| - - - County - Gravel Road | ■ Lakes and Rivers | ■ 419 - Mixed Upland Deciduous | |



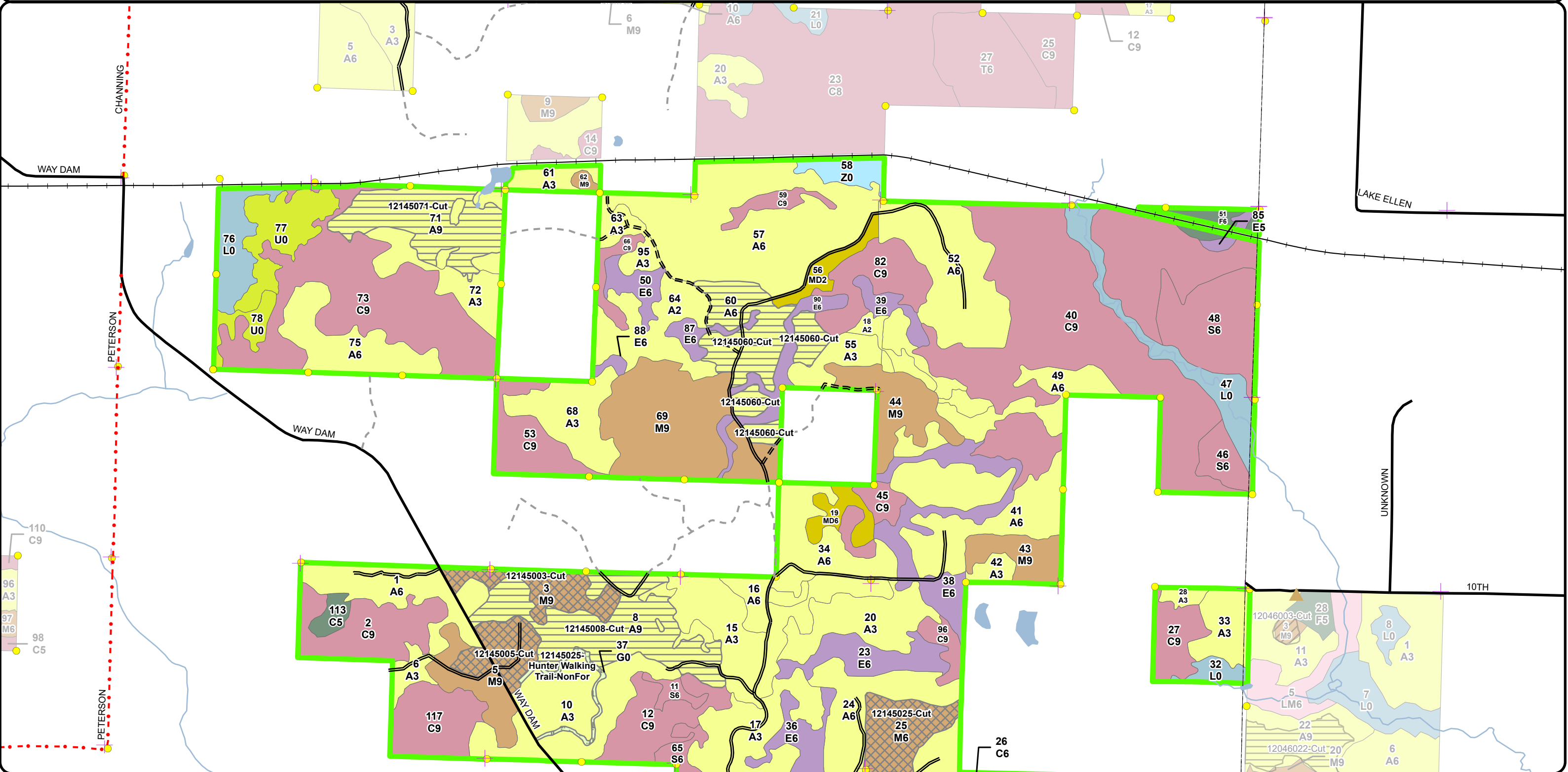
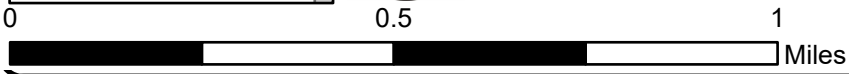
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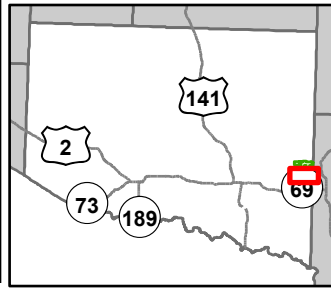
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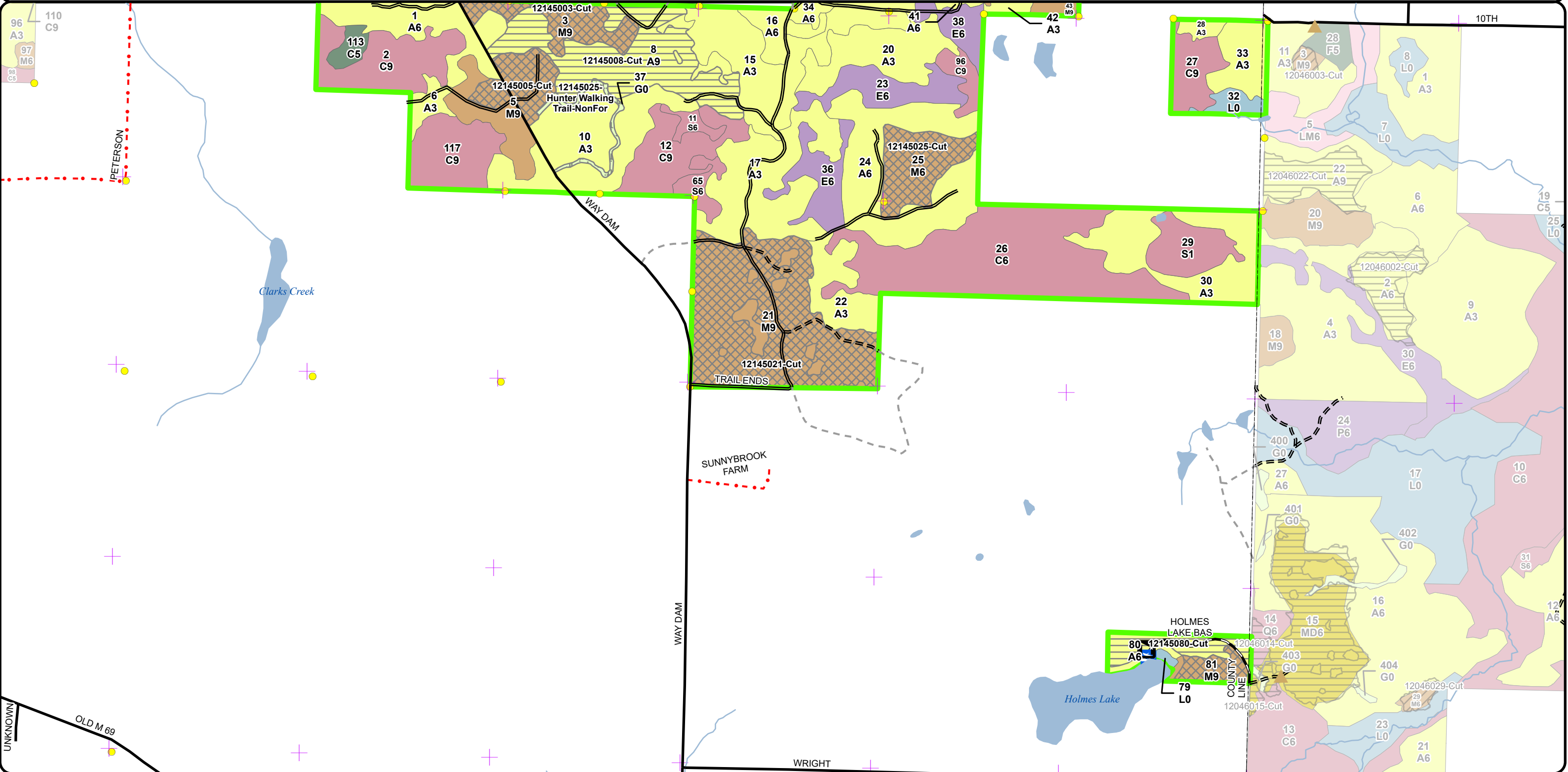
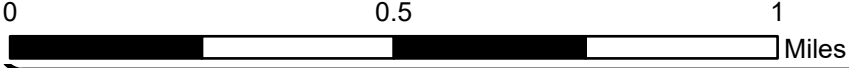
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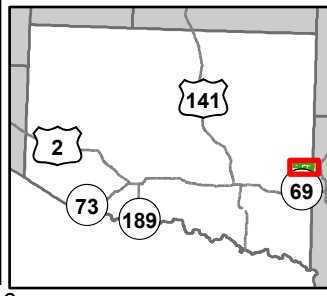
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Stand Boundary Map

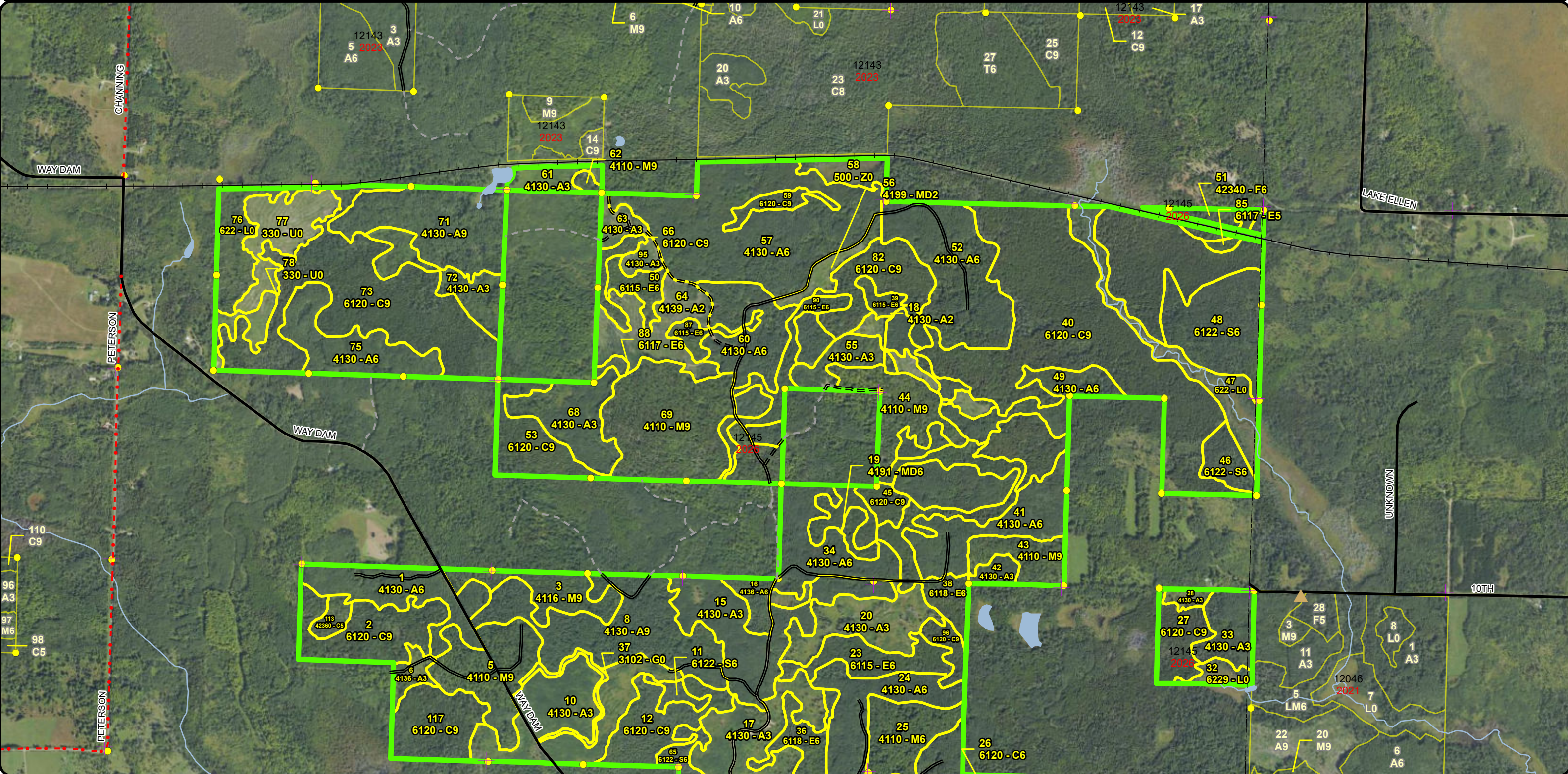
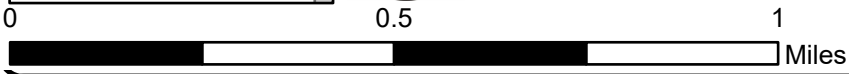


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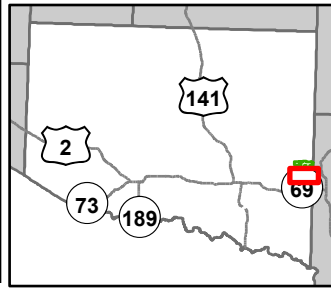
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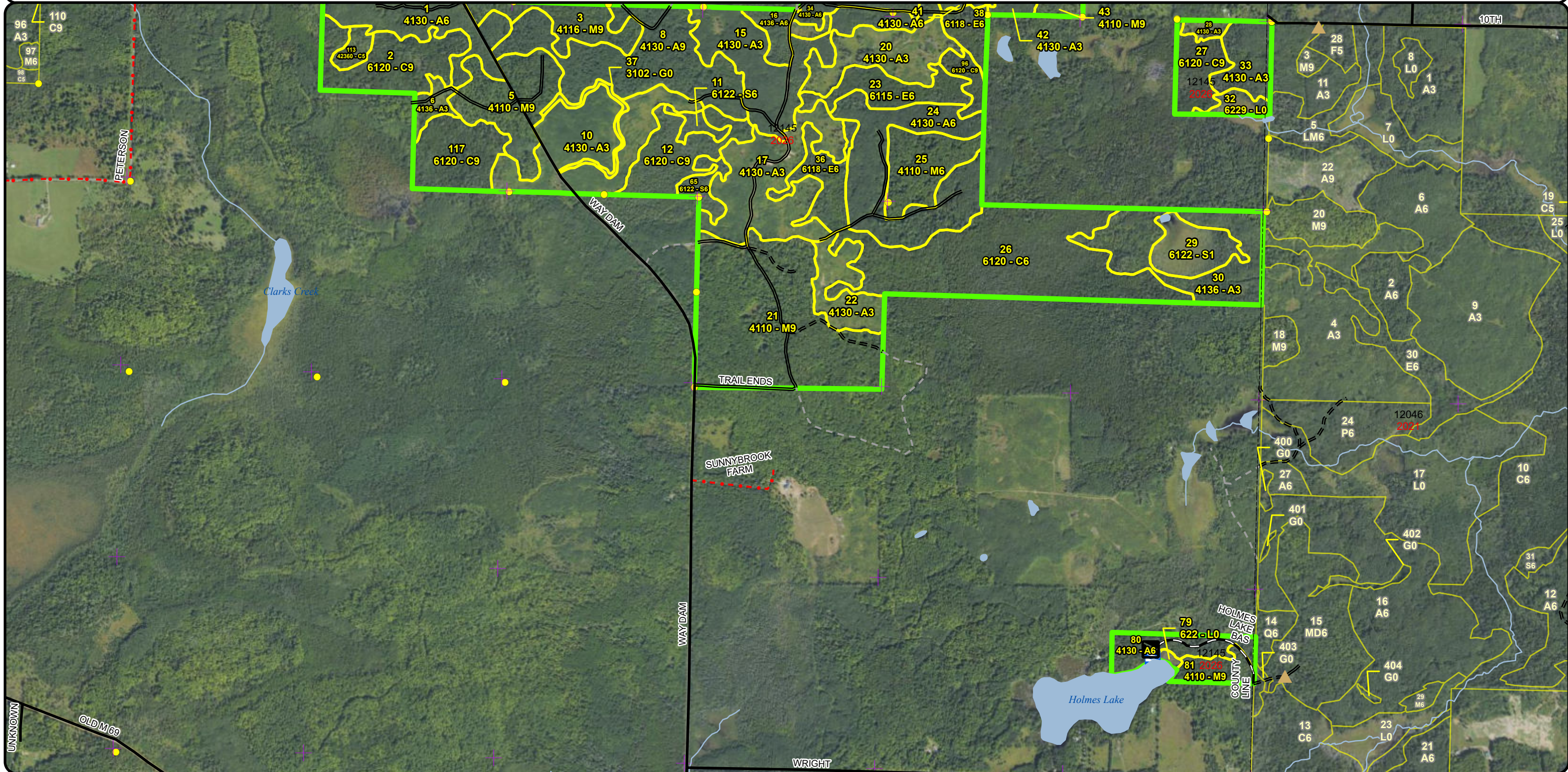
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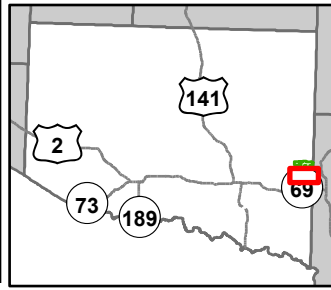
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Special Conservation Areas & Site Conditions Map

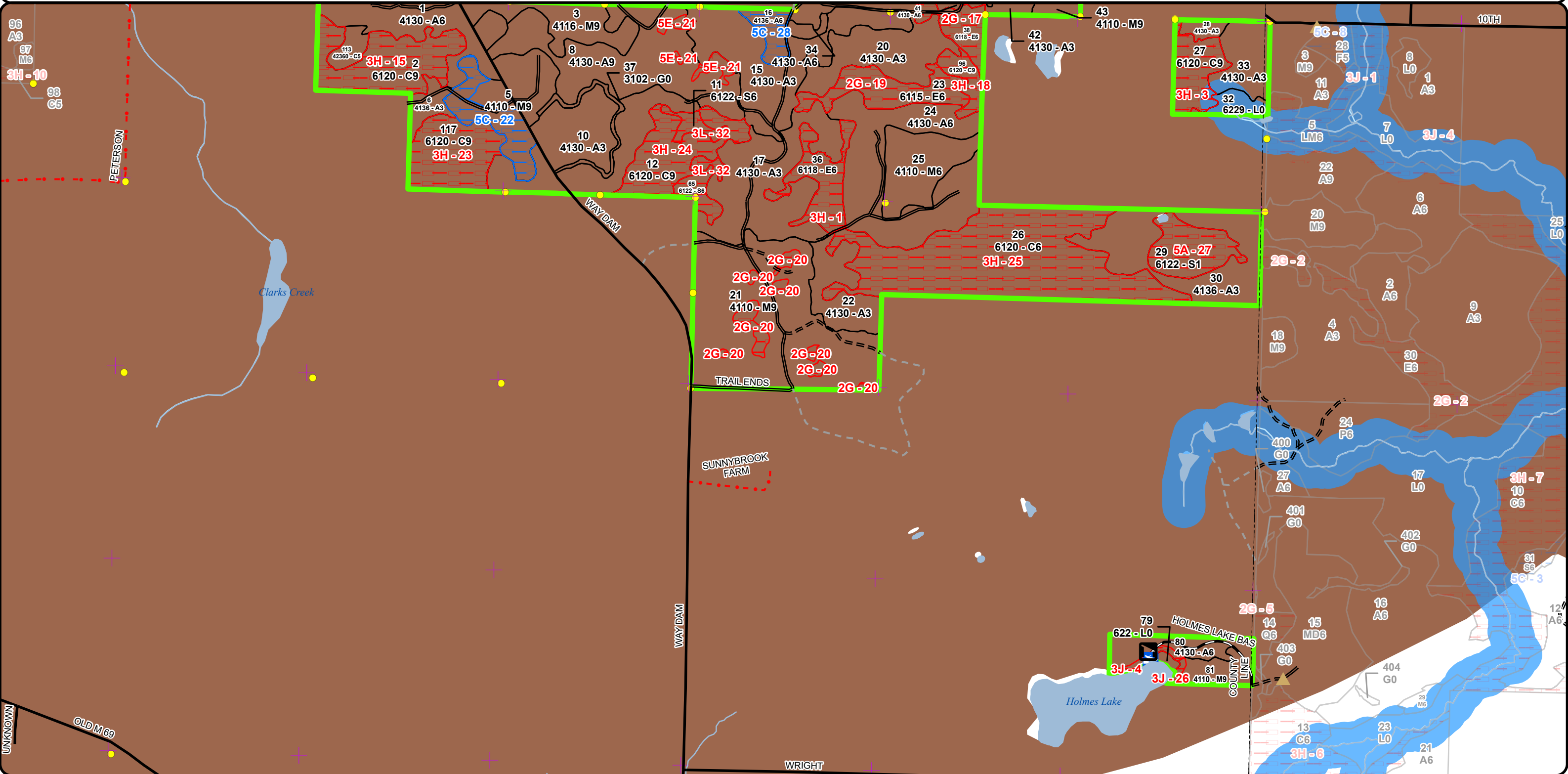
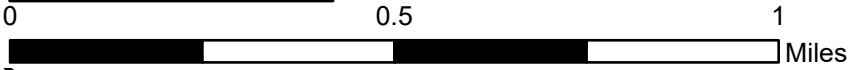


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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality

- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



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+	Unnever-Aged	Total
Aspen	0	218	109	181	256	0	173	0	0	0	0	0	0	0	0	0	0	0	937
Cedar	0	0	0	0	0	0	0	0	0	0	25	97	438	0	0	0	0	0	560
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Low-Density Trees	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	108	0	0	0	0	0	0	108
Lowland Shrub	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	78	0	0	0	0	0	0	0	78
Mixed Upland Deciduous	0	9	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	19
Northern Hardwood	0	0	0	0	0	0	0	0	9	0	141	145	0	0	0	0	0	0	295
Upland Spruce/Fir	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	8
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Total	96	227	109	181	256	0	191	0	9	0	244	350	438	0	0	0	0	0	2101



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 145
Total Compartment Acres: 2,100

Commercial Harvest - 311
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	152	0	0	0	0	0	0	0	0	152
Northern Hardwood	0	159	0	0	0	0	0	0	0	159
Total	152	159	0	0	0	0	0	0	0	311

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	311	0	0	0	0	0	0	4	0	315
Next Step	0	0	0	0	0	0	311	0	0	311
Total	311	0	0	0	0	0	311	4	0	627



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

Proposed Treatments:

3	12145003-Cut	19.4	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 80 - 100 BA. Focus on improving quality, releasing northern hardwood crop trees, and removing a majority of the aspen component while leaving enough canopy cover to discourage aspen regeneration success. Leave some large future snag trees for wildlife.</p> <p><u>Specs:</u> Leave all conifer and oak. Leave most birch and black cherry while marking unless needed for operability. Favor species diversity while marking.</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 original stands overstory species prior to harvest.</p> <p><u>Regen:</u></p> <p><u>Other</u> Important to maintain target BA with consistent canopy cover across stand. Do not create large gaps. Goal is to discourage aspen regeneration to move this stand to a more pure northern hardwood mix. Winter cutting spec for deer wintering area.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
5	12145005-Cut	17.3	4110 - Sugar Maple Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality, releasing crop trees, and re-open or create canopy gaps to encourage northern hardwood regeneration. Leave some large future snag trees for wildlife. Leave all conifer and oak. Leave most birch and black cherry while marking 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 original stands overstory species prior to harvest.</p> <p><u>Regen:</u></p> <p><u>Other</u> Do not push lines where lower targeted BA from past harvest was met at approximately 80 BA. Winter cutting spec for deer wintering area.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
8	12145008-Cut	56.1	4130 - Aspen	Sawtimber Well	58	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest merchantable trees to promote aspen and conifer regeneration. Retention should include a diverse mix of species and large diameter, forked crown aspen. Leave all conifer, oak, birch and black cherry if present.</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 original stands overstory species prior to harvest.</p> <p><u>Regen:</u></p> <p><u>Other</u> Exclude and/or appropriately buffer to keep tops out of any low depressions within the stand, approximate areas have been excluded from this treatment. These exclusions will fit criteria towards long term retention, create additional patch retention within stand if needed to meet guidelines. Winter cutting spec for deer wintering area.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /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
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21	12145021-Cut	90.1	4110 - Sugar Maple Association	Sawtimber Well	94	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality, releasing crop trees, and re-open or create canopy gaps to encourage northern hardwood regeneration. Leave some large future snag trees for wildlife. Leave all cedar, hemlock, pine, and oak. Leave spruce/fir, birch, and black cherry while marking 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 Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u> Exclude and/or appropriately buffer to keep tops out of any low depressions within the stand, approximate areas have been excluded from this treatment. Use caution to not damage established maple saplings during harvest operations. Winter cutting spec for deer wintering area.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

25	12145025-Cut	23.9	4110 - Sugar Maple Association	Poletimber Well	94	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality, releasing crop trees, and re-open or create canopy gaps to encourage northern hardwood regeneration. Leave some large future snag trees for wildlife. Leave cedar, hemlock, pine, and oak if present. Leave most spruce/fir, birch, and black cherry while marking 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 Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u> Access from the SW will require freezing in road, and/or temporary mats/bridge/culvert. Winter cutting spec for deer wintering area.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

60	12145060-Cut	43.7	4130 - Aspen	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest merchantable trees to promote aspen and conifer regeneration. Retention should include a diverse mix of species and large diameter, forked crown aspen. Exclude any vernal pond areas if found within. Leave cedar, pine, oak, and yellow birch. Mark to leave approximately one paper birch or black cherry per acre if present.</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 Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u> Stand retention will be determined during field prep and could include vernal ponds, buffers, and/or difficult terrain areas. Winter cutting spec for deer wintering area.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /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
71 12145071-Cut	39.0	4130 - Aspen	Sawtimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest merchantable trees to promote aspen and conifer regeneration. Retention should include a diverse mix of species and large diameter, forked crown aspen. Leave all conifer, oak, and yellow birch if present. Mark to leave at least one black cherry or paper birch per acre if present.</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 Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u> Approximate retention areas are mapped (15% retention). This includes low ground, conifer, and a good representation of the original stand. Do not push lines into adjacent cedar stand. Winter cutting spec for deer wintering area.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
80 12145080-Cut	13.5	4130 - Aspen	Poletimber Well	54	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest merchantable trees to promote aspen and conifer regeneration. Create 100' buffer along the lake. Retention will be included in the lake buffer and contains a diverse mix of mature species. Leave cedar, pine, white spruce, oak, and yellow birch if present. Mark to leave approximately one black cherry or paper birch per acre if present.</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 Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u> Winter cutting spec for deer wintering area.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
81 12145081-Cut	8.3	4110 - Sugar Maple Association	Sawtimber Well	78	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality. Maintain and/or create canopy gaps to encourage established saplings and create new regeneration. Remove all merchantable balsam fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, pine, white spruce, and oak if present. Leave most yellow birch unless needed for operability while marking. 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 Regen:</u> Any combination of the original stands overstory species prior to harvest.</p> <p><u>Other Comment:</u> Winter cutting spec for deer wintering area.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Approved Treatments:

37 12145025-Hunter Walking Trail-NonFor	4.0	3102 - Grass	Nonstocked	0		NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening Maintenance</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Other Mowing/discing/seeding

Comment:

Site Condition

Proposed Start Date: 10/1 /2016

Total Treatment Acreage Proposed: 315.3

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Eric Brolin : Examiner

Compartment: 145

Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions									
		With Condition				5C	2G	2H	2J	3H	3J	3L	5A	5E	
937	915	8		14	Aspen	8					3				12
561	27	0		533	Cedar					533					
4	4	0		0	Herbaceous Openland										
32	32	0		0	Low-Density Trees										
108	5	0		103	Lowland Deciduous		86			18					
51	51	0		0	Lowland Shrub										
77	0	0		77	Lowland Spruce/Fir			49				11	18		
18	18	0		0	Mixed Upland Deciduous										
295	269	17		9	Northern Hardwood	17	8				1				
8	0	0		8	Upland Spruce/Fir				8						
9	9	0		0	Water										
2,100	1,331	24		745	Total Forested Acres	24	94	49	8	551	3	11	18	12	
	63%	1%		35%	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	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	17	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Dense cedar patches in deer wintering area. Very saturated ground with water drainages.							
2	Unavailable	5E: Long-Term Retention	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Lower pockets containing a mix of mature aspen and conifers. Long term retention for stand 71.							

Report 4 – Site Conditions

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3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense cedar in deer wintering area.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: 100' lake buffer and long term retention for Stand 80.							
5	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	91	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense cedar, deer wintering area.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Mostly flooded, black ash ground.							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 64. Lower, wet patch with some conifer and mix of species.							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Mostly flooded, black ash ground.							

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9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Mostly flooded, black ash ground.							
10	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense cedar, deer wintering area.							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense cedar, deer wintering area.							
12	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense cedar, deer wintering area.							
13	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	196	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense cedar, deer wintering area.							

Report 4 – Site Conditions

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14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lowland black ash holding winter water in areas. Very wet ground.							
15	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	31	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Dense cedar, deer wintering area. Patches with sparser cedar stocking are dominated by black ash have have flooded, wet ground that can not be managed.							
16	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense cedar in deer wintering area.							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very saturated ground dominated by black ash.							
18	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense cedar in deer wintering area.							

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19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very wet ground with webs of flowing waterways across the area. Heavy to black ash.							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Low depressions of black ash / vernal pond areas within stand.							
21	Unavailable	5E: Long-Term Retention	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Areas of lower ground and vernal ponds to be buffered/excluded appropriately. Contains a diverse mix of species and will be used for long term retention for Stand 8.							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Target BA met in this area of stand, does not need to be thinned at this time.							
23	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense cedar in deer wintering area.							

Report 4 – Site Conditions

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24	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dense cedar in deer wintering area.							
25	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	94	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Dense cedar in deer wintering area. Black ash patch is flooded and inoperable.							
26	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 100' lake buffer.							
27	Unavailable	5A: Not able to obtain desirable regeneration	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stunted spruce bog.							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Aspen will hold well and more time will allow lowland conifer species to become more merchantable. Manage entire stand next YOY, upland/lowland.							
29	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	3J: Water quality / BMPs (stream, river, or lake)	2E: Road needed	Unspecified	Unspecified
Comments: No access, blocked by river and dense cedar. Would require new road across private.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Eric Brolin : Examiner

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30	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	39	3J: Water quality / BMPs (stream, river, or lake)	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments: Blocked by river and dense cedar. New road needed across private lowland.							
31	Unavailable	2J: Blocked by Railroad	8	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Blocked by railroad and/or private.							
32	Unavailable	3L: Other wildlife concerns	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Leave for deer wintering cover.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
1	4130 - Aspen	Poletimber Well	31.5	33	51-80	N/A	Dense aspen stand transitioning to pole sized trees. Minor components of other species mixed in. Some softer ground, especially around the adjacent lowland conifer edges.																																																												
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2	6120 - Lowland Cedar	Sawtimber Well	31.4	110	141-170	N/A	Mostly dense cedar with veins and patches of black ash with some aspen speckled in areas. Aspen areas are either dominated by black ash or have dense cedar component in the understory and can not be damaged without causing significant cedar damage. Black ash area have very saturated ground.																																																												
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3	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	19.4	90	111-140	N/A	Stand was originally merged with adjacent A9, broken out due to dominant hardwood canopy. Approximately 1/3 of canopy stocking is mixed aspen, otherwise dominated by northern hardwood species. Aspen is found in small patches, narrow veins, or speckled in across the stand. Well established sugar maple saplings are abundant in the understory across most areas ranging from 2"-5"+. Dominant hardwood range from these large sapling sized trees, to poles, to large saw log sized trees. Average of 120+ BA.																																																												
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5	4110 - Sugar Maple Association	Sawtimber Well	34.0	100	111-140	N/A	Good quality northern hardwood stand that was recently thinned. Wide area along the west edge is stocked 70 - 90 BA. Most area of the rest is stocked very dense averaging 130 BA. Dense area should be managed again now with adjacent operations. A small swath of aspen poles in the south finger may be managed next entry with hardwood. 110 150 160 100 110 140 130 Average of 130 BA within dense hardwood area of stand. WD 40 t-sale.																																																												
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6	4136 - Aspen, Mixed Conifer	Sapling Well	6.2	6	Immature	N/A	Some patchy sapling stocking but overall average closer to 75% stocking of aspen and red maple saplings. Interior cedar can be dense in small patches but still seeing good regeneration beneath. WD 40 t-sale.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
8	4130 - Aspen	Sawtimber Well	60.0	58	111-140	N/A	Large diameter mature aspen, dense to quaking with clones of bigtooth mixed in. Some areas, especially in the east half, have dense conifer pole sized understory in good shape yet. Scattered lowland depressions found in the NE and east 1/3 area of this stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		12	Log/Pole	12		Balsam Fir		
Red Maple		2	Log/Pole	10		White Spruce		
Balsam Fir		3	Pole	8		Sugar Maple		
Paper Birch		1	Pole	8				
White Spruce		3	Pole/Log	9				
Sugar Maple		5	Pole/Log	9				
Black Cherry		1	Pole	8				
Basswood		2	Log/Pole	12				
Quaking Aspen		71	Log/Pole	10	58			
10	4130 - Aspen	Sapling Well	50.4	6	Immature	N/A		Densely stocked aspen saplings across most of the stand. Areas along the east have some spots with sparser stocking and lower ground growing some lowland sedges/cattails which may grow in with more time. WD 40 t-sale.
Canopy Species		% Cover	Size Class	DBH	Age			
Black Cherry		10	Sapling	1				
Balsam Poplar		5	Sapling	1				
Quaking Aspen		80	Sapling	1	6			
Balsam Fir		5	Sapling	2				
11	6122 - Black Spruce	Poletimber Well	3.9	94	81-110	N/A	Dense black spruce poles showing some decline with age. Fairly open understory with some scattered cedar poles and mixed saplings.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		5	Pole	8		Black Spruce		
Balsam Fir		3	Pole/Sapling	6		Balsam Fir		
Black Spruce		87	Pole	7	94	Northern White Cedar		
Northern White Cedar		5	Pole/Log	8		Red Maple		
12	6120 - Lowland Cedar	Sawtimber Well	25.4	95	111-140	N/A	Mostly dense area of cedar or dense cedar topped with black spruce poles. Black ash tops dense cedar pole understory in areas. West edge is dominated by flooded black ash. Center has sparser stocking and lowland brush with scattered lowland conifer.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		2	Pole/Log	9		Balsam Fir		
Balsam Poplar		5	Log/Pole	10		Northern White Cedar		
Black Spruce		13	Pole	7		Black Spruce		
Northern White Cedar		70	Log/Pole	11	95			
Black Ash		10	Pole/Log	8				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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15	4130 - Aspen	Sapling Well	45.6	16	1-50	N/A	Dense aspen sapling stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Sapling	2	
Quaking Aspen	87	Sapling/Pole	4	16
Northern White Cedar	1	Pole	8	
Paper Birch	4	Sapling	3	
Black Cherry	4	Sapling	3	
Black Ash	2	Sapling	2	16

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Pole
Black Cherry	Medium	Variable	Sapling
Sugar Maple	Medium	Variable	Sapling
Red Maple	Low	Variable	Sapling

16	4136 - Aspen, Mixed Conifer	Poletimber Well	7.5	52	51-80	N/A	Dense aspen poles, diameter increased to the north. Lowland conifer patches within. Dense fir understory.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	55	Pole	8	52
Balsam Fir	5	Pole/Sapling	6	
Tamarack	20	Pole/Log	8	
Bigtooth Aspen	5	Log/Pole	11	
Black Spruce	10	Pole	6	52
Paper Birch	5	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Balsam Fir	High	Variable	Pole
Black Spruce	Low	Variable	Pole
White Spruce	Low	Variable	Pole

17	4130 - Aspen	Sapling Well	49.4	6	Immature	N/A	Dense aspen sapling stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Sapling	2	
Black Cherry	10	Sapling	2	
White Pine	1	Log	14	
Red Maple	5	Sapling	2	
Quaking Aspen	79	Sapling	2	6

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	< 5 feet	Sapling
Balsam Fir	Low	Variable	Sapling

18	4130 - Aspen	Sapling Medium	9.3	3	Immature	N/A	Mix of fully stocked saplings and some patchy areas. Closer to 75% stocking average across the stand. Heavy raspberry brush not affecting the regen. Cut 2021 Butler Lake Mix 58-19
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	27	Sapling	1	3
Quaking Aspen	60	Sapling	1	3
White Spruce	3	Sapling	2	
Black Cherry	10	Sapling	1	3



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 9.5 52 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Pole/Sapling	7	
Paper Birch	30	Pole	8	
Red Maple	30	Pole/Log/Sap	9	52
White Spruce	10	Pole/Log	9	
Balsam Poplar	10	Pole/Log	9	
Northern White Cedar	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling

20 4130 - Aspen Sapling Well 31.2 6 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling	1	6
Northern White Cedar	5	Log/Pole	10	
Quaking Aspen	70	Sapling	1	6
Paper Birch	5	Sapling	1	
Black Cherry	5	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub
White Spruce	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling

Some patchy areas where large landings were otherwise average closer to 75% stocking across the stand. Scattered exclusions across the stand with cedar/black ash.

21 4110 - Sugar Maple Association Sawtimber Well 98.0 94 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	2	Pole/Sapling	7	
Red Maple	3	Log/Pole	11	
Paper Birch	2	Pole	8	
Basswood	14	Log	12	
Sugar Maple	74	Log/Pole	11	94
Red Oak	1	XLog	20	
Yellow Birch	4	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Medium	10 - 20 feet	Sapling
Leatherwood	Medium	< 5 feet	Tall Shrub
Ironwood	Medium	Variable	Sapling
Sugar Maple	Low	>20 feet	Sapling
Balsam Fir	Low	Variable	Pole

Good quality hardwood, small sawlog sized stand. South half has open understory. Areas in the north have spots with sparser canopy stocking and more aspen/ironwood/conifer sapling understory as hardwood quality decreases a bit. Gently rolling terrain with numerous black ash/vernal depressions across the stand. 110 120 140 110 140 130 110 Average of 125 BA.

22 4130 - Aspen Sapling Well 19.1 5 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	10	Sapling	1	5
Red Maple	15	Sapling	1	5
Quaking Aspen	73	Sapling	1	5
Northern White Cedar	2	Log/Pole	10	95

Stocking is patchy in some areas but overall fully stocked, closer to 75% stocking. Areas should grow in better with more time. Lowland ground areas within contain some cedar and cattail patches.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
23	6115 - Lowland Ash	Poletimber Well	19.0	102	81-110	N/A	Lowland black ash with saturated ground and webs of flowing water across the whole area. Heavy to black ash with diverse size range of other mixed lowland hardwood and conifers.																																																								
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24	4130 - Aspen	Poletimber Well	55.4	35	1-50	N/A	Aspen pole stand with a fairly open understory. Clones of bigtooth within otherwise dominated by quaking aspen. Balsam poplar along edges and lower elevation dips. Small unharvested upland patch found in the NE corner can be managed in the future. Sparser aspen stocking under canopies of scattered large diameter white pine along the south edge.																																																								
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25	4110 - Sugar Maple Association	Poletimber Well	23.9	94	111-140	N/A	Good quality hardwood stand heavy to sugar maple, larger pole to small sawlog sized trees. Patchy old gaps are growing in, otherwise dense packed canopy. Only regen present is ironwood and white spruce saplings across most of the stand. 160 110 120 140 140 Average of 135 BA.																																																								
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26	6120 - Lowland Cedar	Poletimber Well	93.8	110	141-170	N/A	Very dense stand dominated by lowland conifer. Dense areas of solid cedar around most edges with a small black ash area in the west. Central portion of stand has a dominant black spruce canopy but very dense cedar underneath. Harvest operations could not occur without significant damage to cedar resource.																																																								
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29	6122 - Black Spruce	Sapling Poor	17.5	94	1-50	N/A	Stunted lowland conifer bog.																																																													
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30	4136 - Aspen, Mixed Conifer	Sapling Well	40.0	25	1-50	N/A	Aspen stand transitioning to pole sized trees. Larger area in the south half is growing in well with some larger black spruce and tamarack saplings. Some softer flat ground across the stand could be saturated. Access to west half may require frozen conditions with future management. Access from the east/north out of Sagola will require a temporary stream crossing and dry/frozen conditions to access.																																																													
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32	6229 - Mixed lowland shrub	Nonstocked	5.5	0		No																																																														
33	4130 - Aspen	Sapling Well	16.0	25	1-50	N/A	Aspen stand transitioning to pole sized trees. Flat ground appears it could be soft and saturated in areas.																																																													
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34	4130 - Aspen	Poletimber Well	30.2	24	Immature	N/A	Dense Aspen, small pull to large sapling size. Canopy with dense understory and most areas of maple																																																													
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36	6118 - Lowland Deciduous with Cedar	Poletimber Well	16.5	102	81-110	N/A	Lowland black ash with saturated ground and flowing water drainages exiting the stand. Dense cedar patches scattered across the stand.																																																								
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37	3102 - Grass	Nonstocked	4.0	0		Managed Opening	Hunter walking trail.
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38	6118 - Lowland Deciduous with Cedar	Poletimber Well	31.7	102	51-80	N/A	Low wet ground with some sparser areas. Heavy to black ash with diverse size range of other mixed lowland hardwood and conifers.																																																			
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39	6115 - Lowland Ash	Poletimber Well	7.0	102	51-80	N/A	Lowland black ash stand with saturated ground.																															
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40	6120 - Lowland Cedar	Sawtimber Well	195.8	111	141-170	N/A	Very densely stocked stand of cedar. A few small scattered patches of lowland shrub and conifer mix found across the stand.																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
41	4130 - Aspen	Poletimber Well	52.3	37	51-80	N/A	Densely stocked mixed aspen poles. Understory in most areas is stocked heavy to maple saplings. The secluded patch surrounded by E6 can be best accessed from the south by freezing in roads or mats across a couple of lowland drainageways.																																																			
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42	4130 - Aspen	Sapling Well	4.8	13	Immature	N/A	Densely stocked aspen sapling stand.																																																			
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43	4110 - Sugar Maple Association	Sawtimber Well	15.2	102	81-110	N/A	Good quality hardwood stand heavy to larger pole sized sugar maple. Aspen sapling regen in most areas will probably not succeed with a bit tighter canopy cover. 90 90 100 Average of 95 BA.																																																			
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44	4110 - Sugar Maple Association	Sawtimber Well	25.6	102	81-110	N/A	Using quality Maple stand large pool of small saltlad sized trees. some areas have higher stocking.Thanks But all trees are still free to grow. Stand was very dense before recent fitting. Allow crop trees to respond to thinning re evaluate next year eventually for another thinning No gaps created just crop tree release60 70 110 120																																																			
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45	6120 - Lowland Cedar	Sawtimber Well	10.4	111	141-170	N/A	Lowland conifer with wet ground. Mainly dominated by dense cedar. Areas have mixed lowland hardwood canopy with a cedar understory too dense to operate in for management without causing damage to cedar.																																																			
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46	6122 - Black Spruce	Poletimber Well	10.3	91	111-140	N/A	Can not access black spruce area.																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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47 622 - Lowland Shrub Nonstocked 25.7 Unspecified No TAG ALDER AND HEADWATERS OF THE FORD RIVER

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	Tall Shrub

48 6122 - Black Spruce Poletimber Well 38.6 94 81-110 N/A

49 4130 - Aspen Poletimber Well 34.4 37 51-80 N/A Dense aspen poles with some confer in the understory.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	2	Log/Pole	12	
Balsam Poplar	10	Pole/Sapling	5	37
White Spruce	3	Pole/Sapling	6	
Balsam Fir	5	Pole/Sapling	6	
Quaking Aspen	70	Pole/Sapling	6	37
Red Maple	5	Pole/Sapling	6	
Sugar Maple	5	Pole/Sapling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Pole

50 6115 - Lowland Ash Poletimber Well 8.7 102 51-80 N/A Dense to black ash with very wet, flooded ground. A few small patches of dense cedar along the SE area.

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	65	Pole/Sap/Log	8	102
Red Maple	5	Log/Pole/Sap	10	
Black Spruce	5	Pole	8	102
Paper Birch	3	Log/Pole	10	102
Balsam Fir	2	Pole/Sap/Log	8	
Northern White Cedar	10	Log/Pole	10	
Balsam Poplar	10	Pole/Sap/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	Tall Shrub

51 42340 - Upland Spruce/Fir Poletimber Well 7.5 57 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	50	Pole/Sap/Log	8	57
Quaking Aspen	30	Pole/Log/Sap	8	
Red Maple	10	Log/Pole/Sap	12	
White Spruce	10	Pole/Sap/Log	8	57

Sub-Canopy Species	Density	Avg. Height	Size
Hazelnut (American)	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
52	4130 - Aspen	Poletimber Well	51.8	38	81-110	N/A	Good quality, densely stocked aspen poles. A blanket of red maple seedlings 1'-4' tall cover the understory. The old road is grown in tight with thick spruce/fir saplings. A drainage cuts across the center, E/W direction, of the stand that may have running water seasonally, evaluate and buffer from future management. Patches of mixed hardwood along the SW/E edges should be managed with future timber sale. A few vernal pond areas scattered across the north half.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		2	Pole	8		White Spruce		
Balsam Poplar		5	Pole/Sapling	7	38	Red Maple		
Balsam Fir		3	Pole/Sapling	6		Balsam Fir		
White Pine		1	Sapling/Pole	4				
Red Pine		1	Pole/Sapling	6				
Quaking Aspen		81	Pole	8	38			
Sugar Maple		2	Log/Pole	11				
White Spruce		2	Pole/Sapling	6				
Red Maple		3	Pole/Sapling	5				
53	6120 - Lowland Cedar	Sawtimber Well	22.5	111	141-170	N/A		Very densely stocked stand of cedar. A few small scattered patches of lowland shrub and conifer mix and black ash veins found across the stand. A very small patch of upland hardwoods in the SW corner.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		86	Log/Pole	12	111	Northern White Cedar		
Black Ash		5	Pole/Log	8				
Paper Birch		3	Pole/Log	8				
Balsam Poplar		3	Log/Pole/Sap	10				
Black Spruce		3	Log/Pole/Sap	10				
55	4130 - Aspen	Sapling Well	12.1	13	Immature	N/A	Dense aspen saplings with a good amount of paper birch saplings established.	
Canopy Species		% Cover	Size Class	DBH	Age			
Balsam Fir		5	Sapling/Pole	4				
Quaking Aspen		75	Sapling	2	13			
Red Maple		5	Sapling	1				
Paper Birch		15	Sapling	2				
56	4199 - Other Mixed Upland Deciduous	Sapling Medium	8.6	2	Immature	N/A	The south 1/3 is stocked denser to aspen saplings. The middle is patchy with scattered aspen saplings but more dense to red maple regen. The far north finger was cut in the recent past but merged with this stand. It contains a good stocking of black spruce and red maple saplings. Any patchy areas should transition to reflect this cover type with more time.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		55	Sapling	1	2			
Black Spruce		15	Sapling	2				
Quaking Aspen		30	Sapling	1	2			

Cut 2021 Butler Lake Mix 58-19



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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57	4130 - Aspen	Poletimber Well	94.9	27	51-80	N/A	Dense aspen pole stand with a pretty diverse mix of species. A few small patches of sparser hardwood within. Numerous drainage ways and possibly vernal ponds, more in the south half of this stand. These will probably have to be excluded/buffered from future management and will be determined during field prep.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Ash		5	Sapling	4		Sugar Maple		Low	Variable	Sapling
Black Spruce		2	Pole/Sapling	5		Black Cherry		Low	Variable	Sapling
Paper Birch		5	Pole/Sapling	6		Balsam Fir		Low	Variable	Sapling
Yellow Birch		1	Pole/Log	9		Black Spruce		Low	Variable	Sapling
Red Maple		6	Sapling	3		Red Maple		Medium	>20 feet	Sapling
Balsam Fir		3	Pole/Sapling	7						
Black Cherry		2	Sapling	4						
Northern White Cedar		2	Log/Pole	10						
Balsam Poplar		3	Sapling/Pole	4						
Quaking Aspen		68	Pole/Sapling	6	27					
Sugar Maple		3	Log/Pole	10						

58	500 - Water	Nonstocked	8.9	0		No	Flooded area.
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59	6120 - Lowland Cedar	Sawtimber Well	6.4	102	81-110	N/A	Most area is dense to cedar with patches heavier to black ash and lowland hardwood species. Soft ground with saturated soils.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		10	Pole/Sapling	6		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Black Ash		30	Pole/Sapling	7		Balsam Poplar		Medium	10 - 20 feet	Sapling
Northern White Cedar		60	Log/Pole	11	102					

60	4130 - Aspen	Poletimber Well	43.7	51	81-110	N/A	Dense stocking of larger pole sized aspen. Most of the understory if dense with merchantable spruce/fir and suppressed hardwood saplings. Numerous saturated black ash drainage ways were delineated out of this stand, breaking it into separate patches.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Ash		2	Pole	7		White Spruce		Medium	Variable	Pole
Quaking Aspen		81	Pole/Log	9	51	Red Maple		Medium	>20 feet	Sapling
Black Cherry		1	Pole	8		Balsam Fir		High	Variable	Pole
Balsam Fir		5	Pole	8						
Bigtooth Aspen		2	Log/Pole	12						
Red Maple		3	Pole/Log	9						
White Spruce		3	Pole	8						
Paper Birch		2	Pole	6						
White Pine		1	XLog	18						

61	4130 - Aspen	Sapling Well	8.2	3	Immature	N/A	Aspen sapling stand. Dense to aspen with a lot of red maple mixed in. Cut 2021 Butler Lake Mix 58-19			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		30	Sapling	1	3					
Quaking Aspen		70	Sapling	1	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
62	4110 - Sugar Maple Association	Sawtimber Well	1.9	102	81-110	N/A	Smaller hardwood patch thinned in 2021.																																													
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63	4130 - Aspen	Sapling Well	6.7	2	Immature	N/A	Fully stocked aspen sapling stand. The north finger has a little sparser patch where more hardwood was which should grow in. Cut 2021 Butler Lake Mix 58-19																																													
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64	4139 - Aspen, Mixed Deciduous	Sapling Medium	29.4	2	Immature	N/A	Patchy stocking of thick red maple stump sprouts and aspen saplings across the stand. This stand was heavier to mixed hardwood in a lot of areas and should grow in more dense with time. Aspen stocking becomes more consistent in the S/W areas. Cut 2021 Butler Lake Mix 58-19																																													
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65	6122 - Black Spruce	Poletimber Well	7.2	94	81-110	N/A	Dense black spruce poles showing some decline with age. Fairly open understory with some scattered cedar poles and mixed saplings.																																													
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68	4130 - Aspen	Sapling Well	26.5	13	Immature	N/A	Dense aspen sapling stand. West portion is sparser with more patchy aspen clones, conifer, and scattered saplings growing in.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
69	4110 - Sugar Maple Association	Sawtimber Well	67.9	102	81-110	N/A	Good quality hardwood stand thinned recently. Where more aspen was removed there are areas with denser aspen regen that may not have canopy openings to succeed with time in most areas. More open patches have 5'-10' tall aspen that may survive. Ironwood saplings are also heavy in some areas. Gentle rolling terrain across the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		75	Log/Pole	11	102	Ironwood		
Bigtooth Aspen		1	Log/Pole	10		Quaking Aspen		
Ironwood		1	Pole/Sapling	6		White Spruce		
Basswood		15	Log/Pole	12	102			
Red Maple		3	Log/Pole	12	102			
Yellow Birch		5	Log/Pole	12	102			
71	4130 - Aspen	Sawtimber Well	45.7	50	81-110	N/A	Large, mature aspen. Most trees around small sawlog size. Scattered larger spruce/fir with some merchantable conifer in the understory, otherwise fairly open. Most of the larger spruce/fir has died out, dead standing/blowdown.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		3	Log/Pole	11		Balsam Fir		
Balsam Poplar		2	Log/Pole	11		White Spruce		
Quaking Aspen		84	Log/Pole	10	50			
Red Maple		3	Log/Pole	11				
White Spruce		3	Log/Pole	10				
Balsam Fir		5	Pole	8				
72	4130 - Aspen	Sapling Well	19.6	13	Immature	N/A	Most areas have well stocked aspen saplings. Some patchy or very sparse areas within, stocking averages closer to 75% across stand. Small patch of hardwood located along the east edge.	
Canopy Species		% Cover	Size Class	DBH	Age			
Balsam Fir		5	Pole/Sapling	7				
Balsam Poplar		25	Sapling	2	13			
Quaking Aspen		60	Sapling	2	13			
Sugar Maple		3	Log/Pole	11				
Red Maple		2	Log/Pole	11				
Black Cherry		5	Sapling	2				
73	6120 - Lowland Cedar	Sawtimber Well	90.9	101	141-170	N/A	Dense cedar covers a majority of this stand. Some areas along the edges have a sparser stocking of cedar with some other species mixed in.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		85	Log/Pole	10	101	Tag Alder		
Balsam Poplar		5	Log/Pole/Sap	10				
Tamarack		5	Log/Pole	10				
Black Spruce		5	Log/Pole/Sap	10				
75	4130 - Aspen	Poletimber Well	30.7	38	51-80	N/A	Could not access this YOE. Dense aspen poles.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		5	Pole/Sapling	6		Hazelnut (American)		
Quaking Aspen		85	Pole/Sapling	6	38			
White Spruce		5	Pole/Sapling	6				
Red Maple		5	Pole/Sapling	6				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
76	622 - Lowland Shrub	Nonstocked	18.5	0	Unspecified	No	
77	330 - Low-Density Trees	Nonstocked	24.5	0	Unspecified	612 - Lowland Coniferous Forest	Could not access this YOE. Evaluate for regen next time. Cut 2022 Butler Lake Mix 58-19
78	330 - Low-Density Trees	Nonstocked	7.6	0	Unspecified	413 - Aspen	Could not access this YOE. Evaluate for regen next time. Cut 2022 Butler Lake Mix 58-19
79	622 - Lowland Shrub	Nonstocked	1.2		Unspecified	No	

80 4130 - Aspen Poletimber Well 16.1 54 111-140 N/A Mature aspen pole stand with some larger diameters speckled in. A good component of merchantable fir is found in the understory. The NE corner has a patch of black spruce.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	1	Log	13		Cherry (spp.)	Trace	Variable	Sapling
Sugar Maple	2	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	1	Pole	9		Balsam Fir	Medium	Variable	Pole
Red Maple	1	Log/Pole	10		Paper Birch	Low	Variable	Sapling
Yellow Birch	1	Pole	8					
Paper Birch	8	Pole/Log	8					
Bigtooth Aspen	4	Log/Pole	11	54				
Balsam Poplar	2	Pole/Log	8					
Black Spruce	5	Pole	8					
Quaking Aspen	72	Pole/Log	9	54				
White Pine	1	Log	16					
White Spruce	2	Log/Pole	12					

81 4110 - Sugar Maple Association Sawtimber Well 9.2 78 111-140 N/A Poor to moderate quality, small sawlog sized, hardwood stand. A lot of old canopy gaps across the stand have some well established sugar maple saplings. Paper birch is declining and will not hold on much longer. Understory is more dense to fir in the far east 1/4 of the stand. Patchy stocking can range from very dense to light. 140 160 120 80 Average of 125 BA.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Log/Pole	11		Balsam Fir	Medium	Variable	Sapling
Basswood	10	Log	12		Sugar Maple	Medium	Variable	Sapling
Balsam Fir	2	Pole	8		Balsam Fir	Medium	Variable	Pole
Sugar Maple	74	Log/Pole	10	78				
Red Maple	2	Log/Pole	10					
Quaking Aspen	2	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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82	6120 - Lowland Cedar	Sawtimber Well	25.2	111	141-170	N/A	North and south areas are very dense to cedar. Central portion has a bit lighter cedar canopy topped with more black ash and mixed lowland hardwoods. Very wet ground, especially in lowland hardwood areas.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Ash		15	Log/Pole	10		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Black Spruce		3	Log/Pole/Sap	10		Northern White Cedar		Medium	Variable	Pole
Northern White Cedar		73	Log/Pole	11	111					
Paper Birch		3	Pole/Log	8						
Balsam Poplar		6	Log/Pole/Sap	10						

85	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	2.8	102	1-50	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Log/Pole/Sap	10		Tag Alder		High	5 - 10 feet	Tall Shrub
Black Ash		40	Pole/Sap/Log	8	102					
Balsam Fir		5	Pole/Sap/Log	8						
Paper Birch		5	Log/Pole	10	102					
Northern White Cedar		15	Log/Pole	10						
Balsam Poplar		15	Pole/Sap/Log	8						
Black Spruce		10	Pole/Sap/Log	8	102					

87	6115 - Lowland Ash	Poletimber Well	6.0	102	51-80	N/A	Water holding area with drainage all dense to black ash poles. Very saturated ground.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		1	Log	14		Tag Alder		High	5 - 10 feet	Tall Shrub
Balsam Fir		5	Pole/Sap/Log	8						
Northern White Cedar		5	Log/Pole	10						
Paper Birch		3	Log/Pole	10	102					
Black Spruce		3	Pole/Sap/Log	8	102					
Red Maple		8	Log/Pole/Sap	10						
Balsam Poplar		5	Pole/Log	9						
Black Ash		70	Pole/Sap/Log	8	102					

88	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	1.8	102	81-110	N/A	Low mixed patch with pretty wet ground.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Poplar		15	Pole/Sap/Log	8		Tag Alder		High	5 - 10 feet	Tall Shrub
Paper Birch		5	Log/Pole	10	102					
Black Spruce		10	Pole	8	102					
Yellow Birch		5	Log/Pole	11						
Northern White Cedar		5	Log/Pole	10						
Balsam Fir		5	Pole/Sap/Log	8						
Black Ash		25	Pole	8	102					
Tamarack		5	Log/Pole	10						
Red Maple		25	Log/Pole	10	102					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
90	6115 - Lowland Ash	Poletimber Well	14.5	100	81-110	N/A	Lowland ash swale spanning across multiple stands. Very saturated ground with water in areas during frozen winter.																																																			
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95	4130 - Aspen	Sapling Well	4.6	2	Immature	N/A	Some areas are a bit patchy but overall fully stocked at least 75% with mainly aspen and some scattered red maple. This stand should grow in well with time. Cut 2021 Butler Lake Mix 58-19																																																			
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96	6120 - Lowland Cedar	Sawtimber Well	6.7	111	141-170	N/A	Lowland conifer with wet ground. Mainly dominated by dense cedar. Areas have mixed lowland hardwood canopy with a cedar understory too dense to operate in for management without causing damage to cedar.																																																			
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113	42360 - Upland Cedar	Poletimber Medium	5.0	110	1-50	N/A	Fairly evenly distributed canopy of cedar can range from a bit sparser to a bit more dense. Overall about 50%+ of canopy cover is dominated by cedar. Aspen is growing in well even with cedar canopy cover. Red maple and black ash saplings are also found. Re-evaluate well next YOE to monitor hardwood and aspen success. WD 40 t-sale.																																																			
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117	6120 - Lowland Cedar	Sawtimber Well	25.9	110	111-140	N/A	Dense cedar stand with saturated ground. A couple of areas are topped with black ash or aspen. Small patch in SW corner appears that could be managed for aspen but can not be efficiently accessed at this time. Evaluate for access with adjacent future harvests.																																																			
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