



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12091

Entry Year 2023

Acreage: 2,250

County Dickinson

Management Area: Cassidy Creek

Revision Date: 2021-08-16

Stand Examiner:

Legal Description:

T40N R28W Sections 5, 7, 8, 9, 16, 17, 20, 21, 27, 28

Identified Planning Goals:

Optimize sustainable timber production while maintaining species diversity, recreational opportunities, and protecting wildlife habitat.

Soil and topography:

Soils range from wet Cathro muck to dry Emmet fine sandy loams. Topography also differs from flat lowlands to hardwood ridges and rock outcroppings.

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

Compartment 91 is located roughly 0.5 miles to 1.0 miles west of Foster City Road. Running parallel to Foster City Rd with private land boarding to the east and Blomgren's Marsh/South Branch of Breen Creek boarding the west. Deer hunting is evident in and around this compartment. The snowmobile trail #115 is operating in several sections of this compartment offering additional outdoor recreation activities.

Unique Natural Features:

Blomgren Marsh

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

None known

Watershed and Fisheries Considerations:

Two unnamed streams run through the compartment that are designated Type 1 trout streams less than 50' in width. A 300' buffer is recommended in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope. Blomgren March and South Branch Breen Creek are also within or border this compartment and should have a 100 ft. buffer.

Wildlife Habitat Considerations:

Upland conifer types, particularly white pine and hemlock have declined substantially. Upland and lowland conifer components should be restored, and maintained where present and enhanced whenever possible. This area has the tendency to regenerate to red and white pine, naturally. All species of wildlife need to be considered and a full range of habitat conditions should be provided. Conditions from early-successional to old growth must be provided to meet these needs. Lowland hardwood types and drainages are sensitive areas that provide excellent wildlife habitat in this intensively managed area. Riparian and transition zones were set aside in prior years of entry to provide some of these habitat requirements. This will be particularly important around the flooding so that species using this riparian area are provided appropriate habitat. Eagles, ospreys, herons, loons and various waterfowl use this impoundment and will be taken into consideration when management is proposed. Openings will be treated as logistics allow.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of outwash sand and gravel and postglacial alluvium and thin to discontinuous glacial till over bedrock. There is insufficient data to determine the glacial drift thickness. The Cambrian Munising Group and the Precambrian Michigamme Formation and Archean granite/gneiss outcrops beneath the glacial drift. There is not a current economic use for these rocks. The Hancock iron mine is located approximately three miles to the northeast. State land in the area of this compartment was previously leased for metallic exploration and potential may still exist. A gravel pit is located one-half mile to the east and another one is located two

miles to the north. There appears to be some gravel potential in the compartment. There is no economic oil and gas production in the UP. No known potential exists for commercial oil & gas production in this part of the state. The State-owned Cassidy Creek Road Pit is less than one mile to the southwest. The pit has never been leased since the DNR switched from single-use permits to long-term leases around 2002. There appears to be some good potential for sand & gravel within the compartment on the uplands. There has been limited metallic mineral exploration in this area, and potential for metallic minerals beneath the compartment is considered low at this time. There is some history of leasing of State-owned mineral rights in the area, but there has been no metallic mineral lease activity in recent years. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Access is good with the Foster City Rd providing the main entry point into this compartment. Many state forest two tracks are constructed within the boundary of Compartment 91.

Survey Needs:

Survey may be needed.

Recreational Facilities and Opportunities:

Hunting, camping, fishing, trapping, hiking, canoeing, snowmobiling.

Fire Protection:

Crystal Falls FMU protection area. Access to most upland stands is fair. Access to swamp types would be difficult.

Additional Compartment Information:

The following reports from the Inventory are attached:

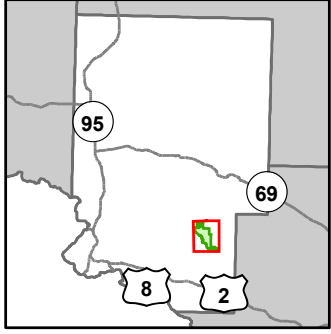
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

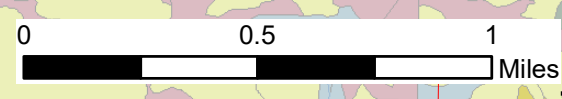
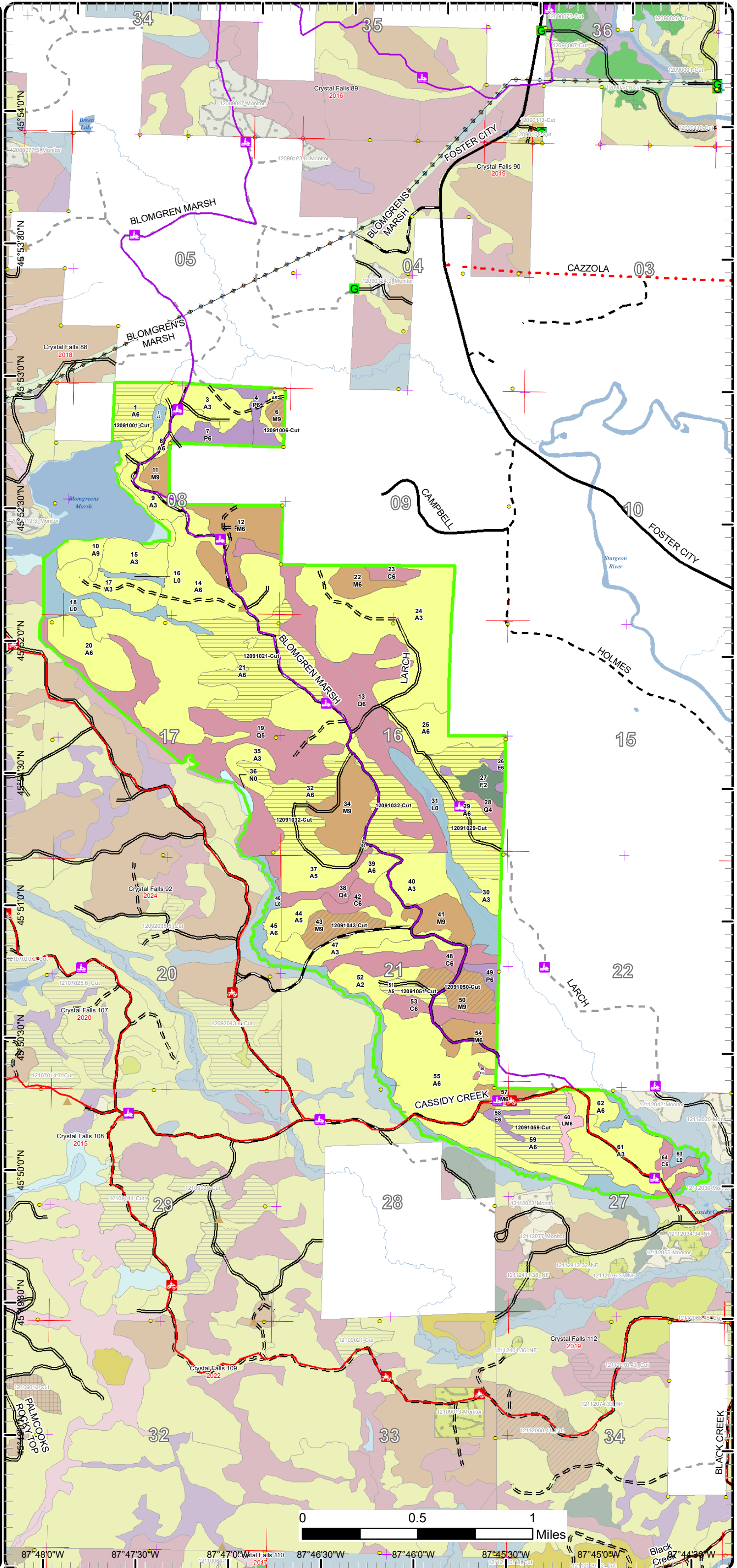
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 91
 T40N, R28W, Sec. 7-9, 16-18, 20, 21, 27, 28
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Cassidy Creek
 YOE: 2023
 Acres: 2250.3 GIS Calculated
 Examiner: Rich Goupell
 Map Revised: 12/28/2021
 Map Phase: Post-Review



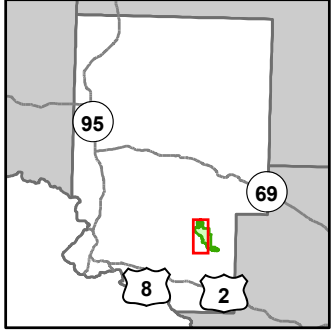
- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- - - Private - Dirt / Gravel Road
- ORV Trails
- Snowmobile Trails
- Designated ATV
- Designated Snowmobile Trails
- Intermittent Stream
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- Perennial River
- Lakes and Rivers
- ▲ Berms
- ⊗ Bridges
- ⚡ Powerline
- ▭ Compartment Boundary
- ▭ Clearcut (w/Reserves)
- ▨ Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland



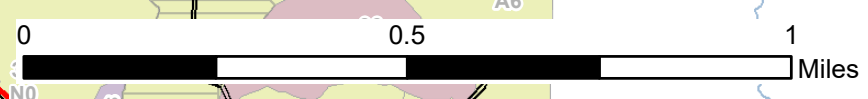
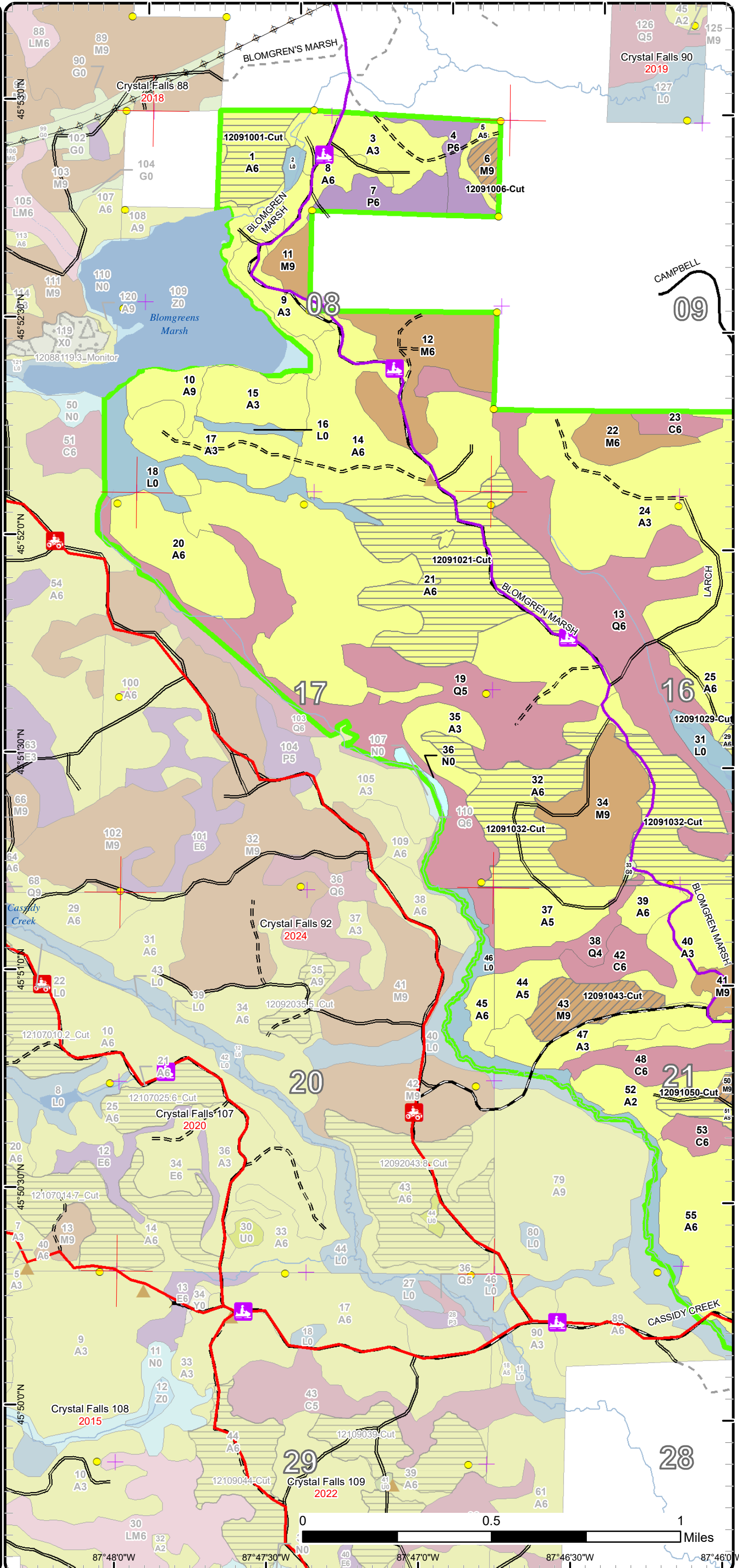
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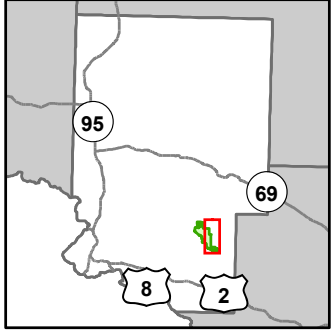
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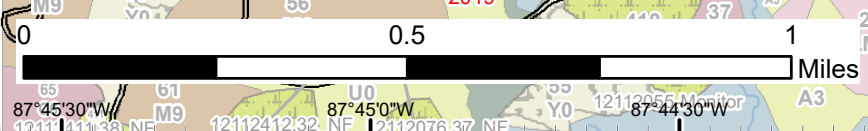
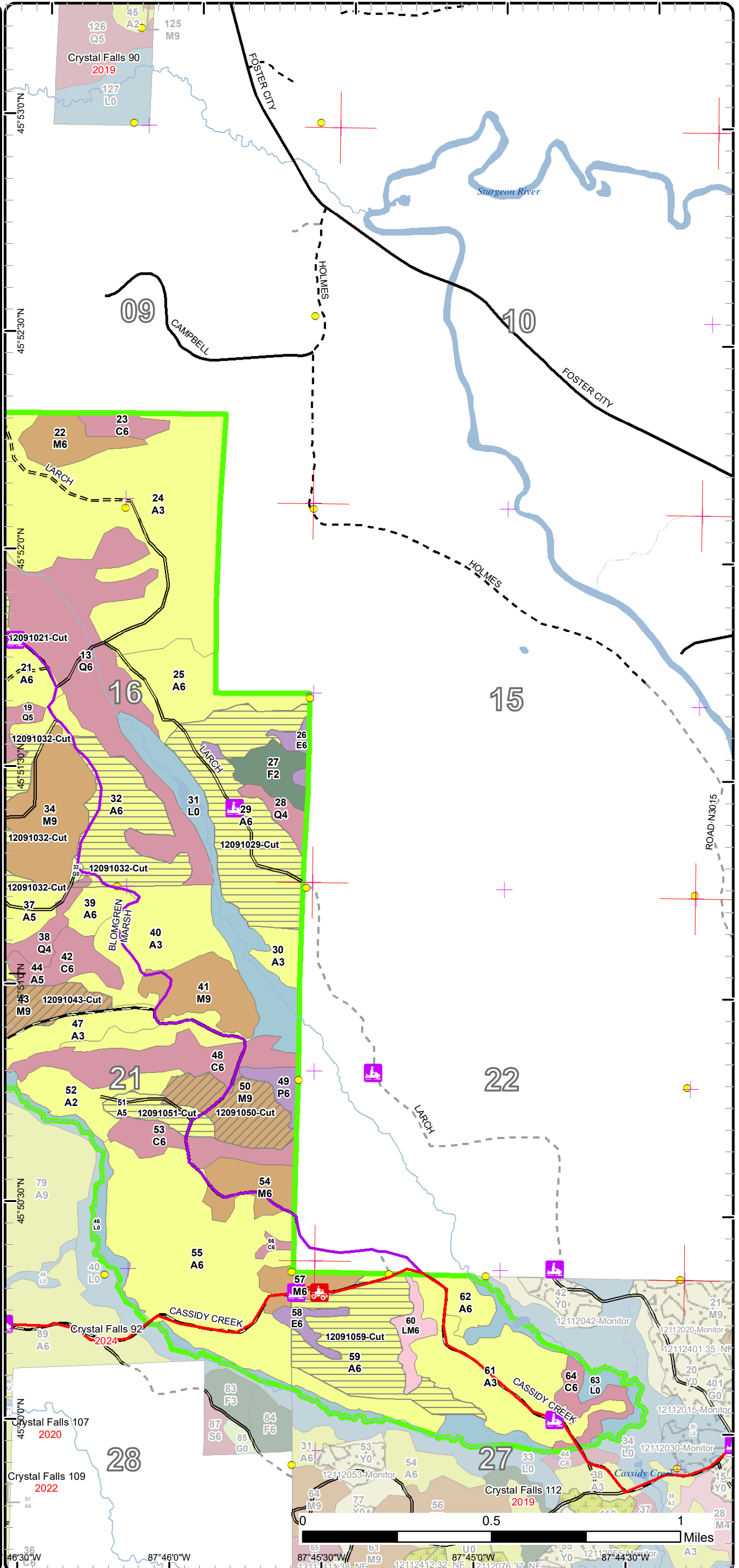
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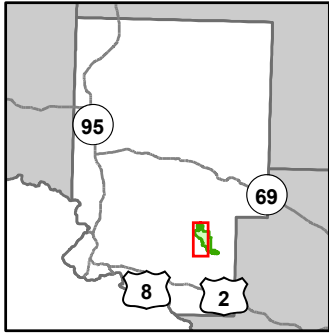


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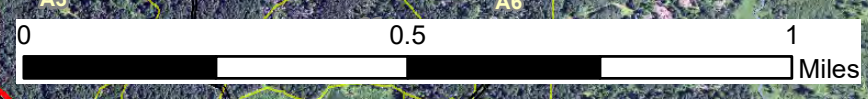
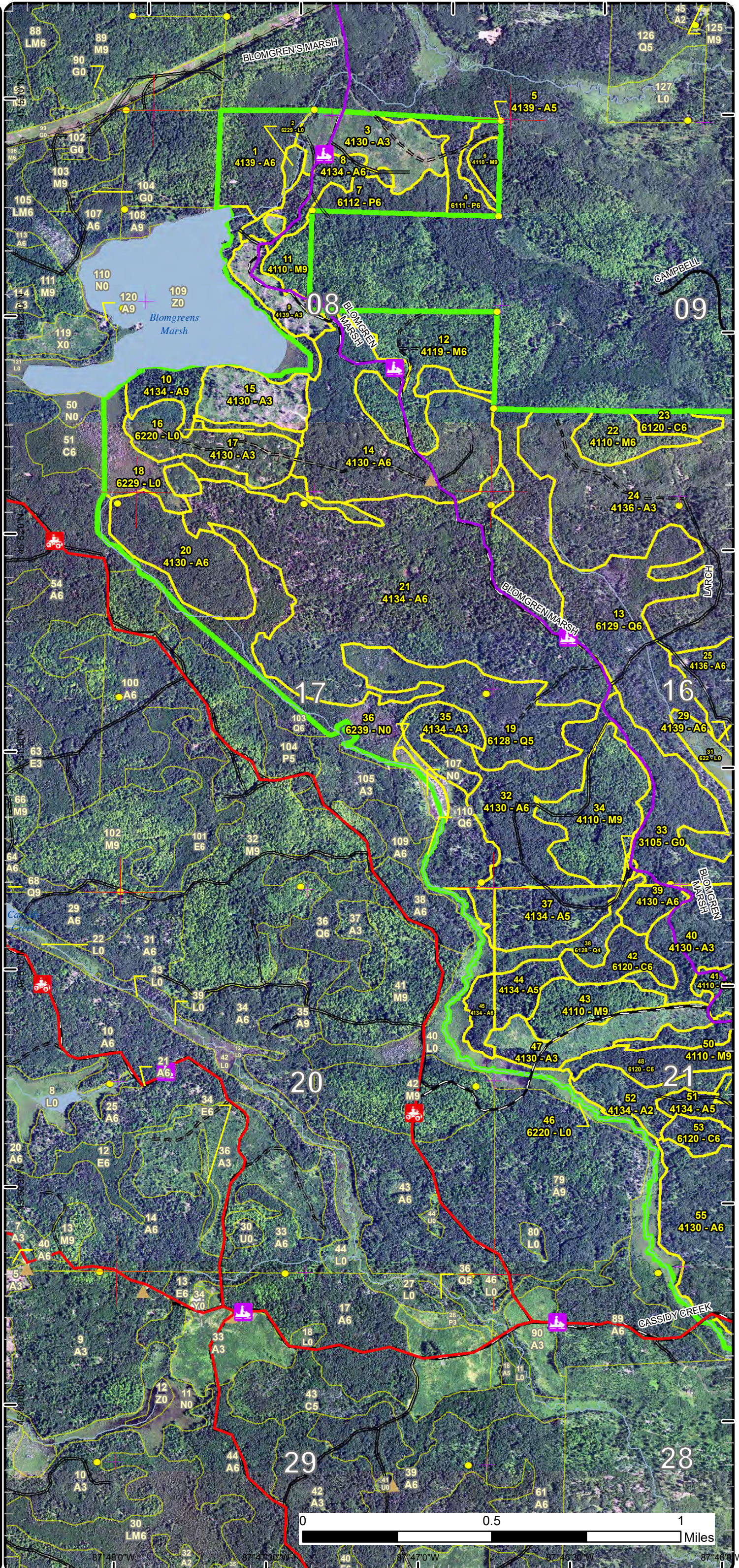


Stand Boundary Map

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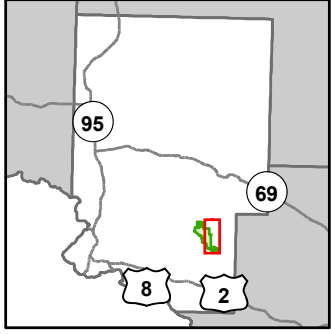
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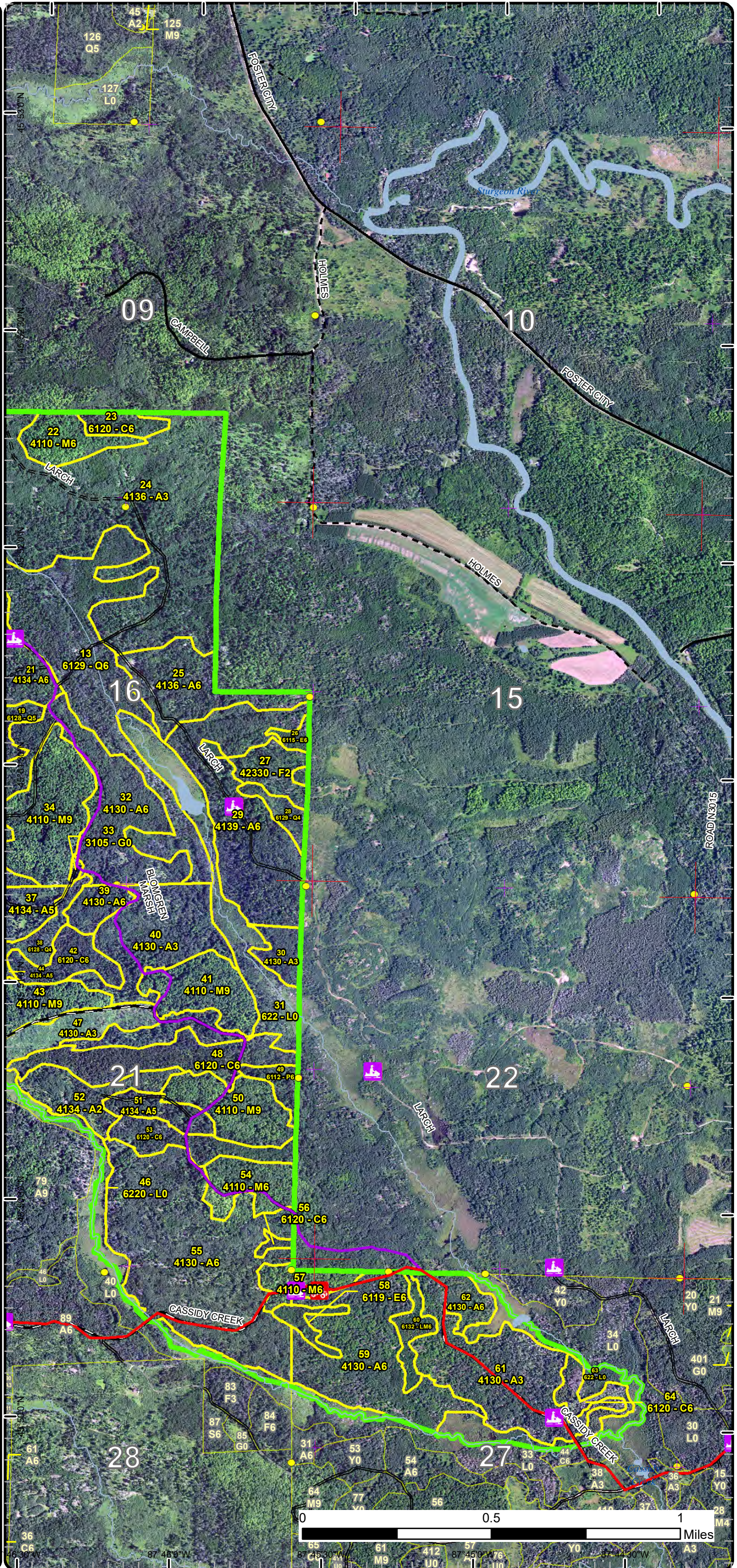
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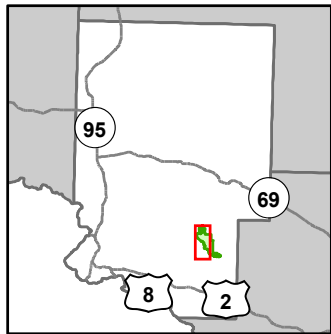


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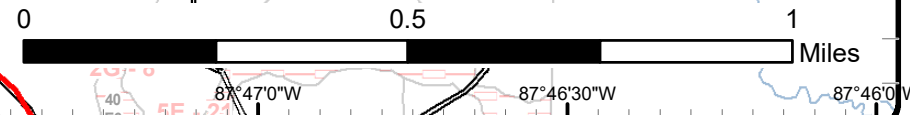
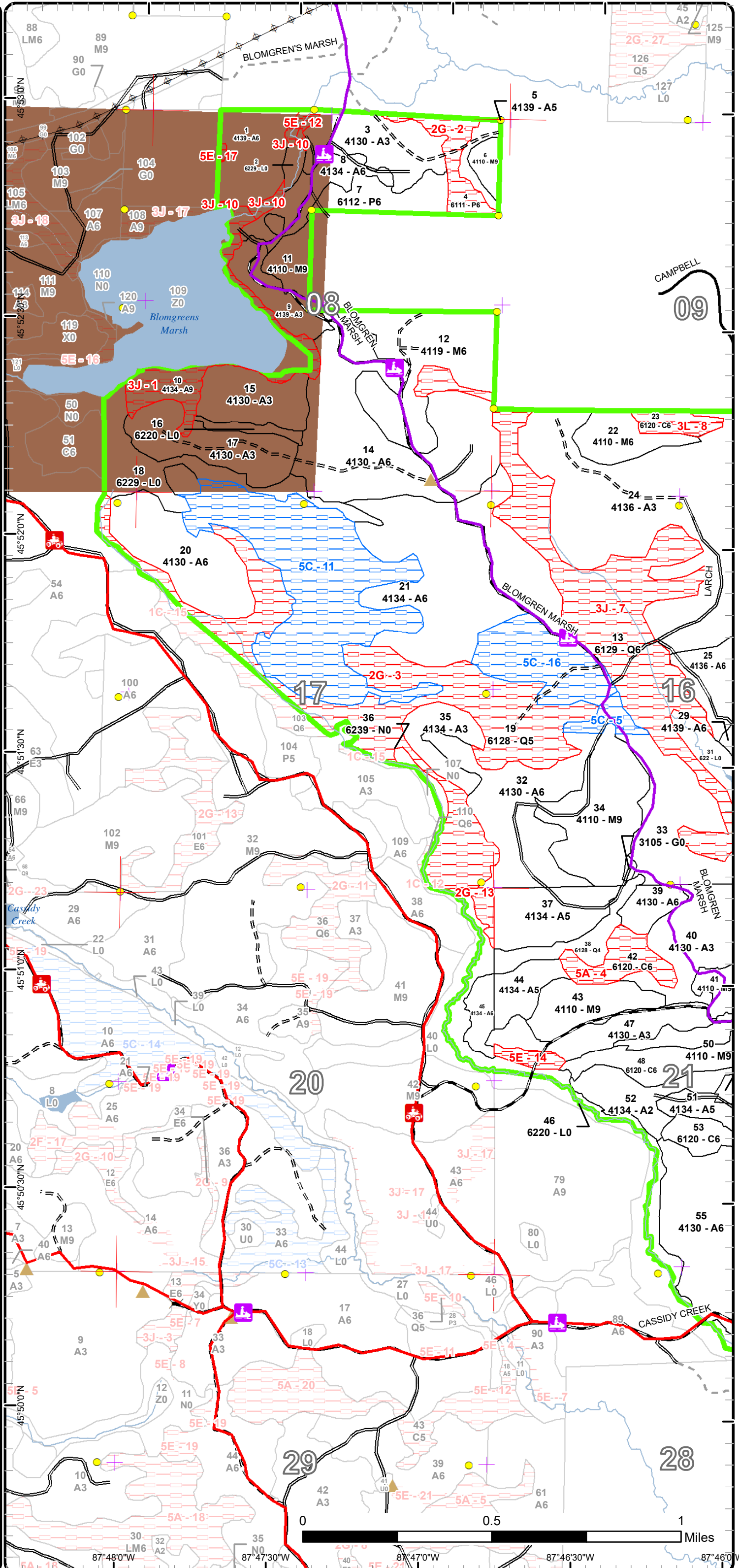


Special Conservation Areas

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



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	167	37	230	343	361	251	0	26	0	0	0	0	0	0	0	0	13	1427
Cedar	0	0	0	0	0	0	0	0	0	12	8	71	0	0	0	0	0	2	93
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Aspen/Balsam Poplar	0	0	0	18	7	0	0	0	0	0	0	0	0	0	0	0	0	14	39
Lowland Conifers	0	0	0	0	0	0	0	0	14	0	126	0	0	0	0	0	0	132	272
Lowland Deciduous	0	0	0	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	12
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	9
Lowland Shrub	142	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	142
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Northern Hardwood	0	0	0	0	0	0	0	0	0	11	122	95	0	0	0	0	0	12	239
Upland Spruce/Fir	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Total	146	167	37	262	350	361	251	0	40	29	256	175	6	0	0	0	0	173	2251



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2023

Compartment 91
Total Compartment Acres: 2,250

Acres of Harvest

Commercial Harvest - 418
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	362	0	0	0	0	0	0	0	0	362
Northern Hardwood	0	0	0	0	56	0	0	0	0	56
Total	362	0	0	0	56	0	0	0	0	418

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	418	0	0	0	0	0	0	0	0	418
Next Step	0	0	0	0	0	415	0	0	0	415
Total	418	0	0	0	0	415	0	0	0	833



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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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Approved Treatments:

1	12091001-Cut	26.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	49	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater. Leave sub-merch spruce and fir. Buffer creek and marsh 100 feet. Red line out small hardwood patch on west line.</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> aspen, spruce, mixed deciduous</p> <p><u>Regen:</u></p> <p><u>Other</u> Recommend winter harvest or mandate winter harvest; Will be choice of sale prep forester.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
6	12091006-Cut	6.0	4110 - Sugar Maple Association	Sawtimber Well	97	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to 80 BA. Do not cut cedar and hemlock.</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> 10/1 /2022</p>											
21	12091021-Cut	103.4	4134 - Aspen, Spruce/Fir	Poletimber Well	48	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater. Do not cut cedar, hemlock, beech, red and white pine. Red line out black ash pockets. Winter cut.</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> aspen, bam, northern hardwood associates, spruce, fir and pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Exclusions/ long-term retention will likely push treatment below 100 acres.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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29	12091029-Cut	70.6	4139 - Aspen, Mixed Deciduous	Poletimber Well	59	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec leaving Cedar, Hemlock, Pine, White Birch and Oak if present. Exclude creek running through center of stand. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, Hardwoods, Spruce/Balsam, Pine <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

32	12091032-Cut	97.2	4130 - Aspen	Poletimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec leaving Cedar, Hemlock, Pine and Oak if present. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, Hardwoods, Spruce/Balsam, Pine. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

43	12091043-Cut	22.1	4110 - Sugar Maple Association	Sawtimber Well	101	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Mark to 70 top 90 BA. Leave Conifers <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Northern Hardwoods, Softwoods <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

50	12091050-Cut	27.6	4110 - Sugar Maple Association	Sawtimber Well	104	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Mark to 70 to 90 BA. leave conifers. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Northern Hardwoods, Spruce/Fir <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
51 12091051-Cut	11.7	4134 - Aspen, Spruce/Fir	Poletimber Medium	58	Unspec ified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut 2" spec leaving Pine, Cedar, Oak, and Hemlock if present. No retention due to small acreage. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Aspen, Northern Hardwoods, Spruce/Fir, Pine <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
59 12091059-Cut	52.8	4130 - Aspen	Poletimber Well	52	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2"spec. Leaving Pine, Cedar, Hemlock and Oak if present. Also Leave cherry. Mark out Cedar drainage. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Aspen, Hardwoods, Spruce/Fir, Pine <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 418.1

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 91

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
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Dominant Site Conditions

Availability for Management				Dominant Site Conditions							
Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	4A	5C	2G	3J	3L	5A	5E	
1426	1223	152	51	Aspen	0	152	0	37	0	0	14
93	57	0	36	Cedar			0	8	28		
1	1	0	0	Herbaceous Openland							
39	25	0	14	Lowland Aspen/Balsam Poplar			14				
272	14	7	251	Lowland Conifers	7	0	132	119			
12	0	0	12	Lowland Deciduous			12				
9	0	0	9	Lowland Mixed Forest			9				
142	142	0	0	Lowland Shrub			0				
3	3	0	0	Marsh							
239	239	0	0	Northern Hardwood			0	0	0		
14	14	0	0	Upland Spruce/Fir	0		0				
2,250	1,719	159	373	Total Forested Acres	7	152	167	156	8	28	14
	76%	7%	17%	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	3J: Water quality / BMPs (stream, river, or lake)	26	3B: Threatened, endangered, and special concern species	5E: Long-Term Retention	Unspecified	Unspecified
Comments: Buffer to Marsh, OFS point buffered, Retention							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	128	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5A: Not able to obtain desirable regeneration	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	4A: No Markets Available for these Forest Products	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	119	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3L: Other wildlife concerns	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

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Compartment: 91

Year of Entry: 2023

9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	110	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer along creek for retention							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 91

Year of Entry: 2023

15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments: When the time comes, this area should be treated with the north section of Stand 32 that was retained. This will help to break up stand 21 and stand 32.							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: 300' buffer							
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Rich Goupell : Examiner

Compartment: 91

Year of Entry: 2023

21	Unavailable	5E: Long-Term Retention	7	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: 300' buffer							
22	Unavailable	5A: Not able to obtain desirable regeneration	12	3J: Water quality / BMPs (stream, river, or lake)	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	4139 - Aspen, Mixed Deciduous	Poletimber Well	31.8	49	51-80	N/A	South end wetter than north.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	8		Balsam Poplar	Low	5 - 10 feet	Sapling
Quaking Aspen	45	Pole	7	49	Balsam Fir	Low	< 5 feet	Sapling
Balsam Poplar	25	Pole	8		White Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole	6		Black Ash	High	< 5 feet	Sapling
White Spruce	10	Log/Pole	10		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Black Ash	5	Pole	6					
Sugar Maple	5	Log/Pole	11					

2	6229 - Mixed lowland shrub	Nonstocked	3.3		Unspecified	No	
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3	4130 - Aspen	Sapling Well	32.8	5	Immature	N/A	Harvested 2016. Trace amounts of balsam poplar, ironwood and white pine in canopy. Trace amount of super canopy white pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	75	Sapling	1	5	Tag Alder	Trace	5 - 10 feet	Tall Shrub
White Spruce	5	Sapling	1					
Balsam Fir	5	Sapling	1					
Red Maple	5	Sapling	1					
Black Cherry	5	Sapling	1					
Paper Birch	5	Sapling	1					

4	6111 - Lowland Balsam Poplar	Poletimber Well	14.3	67	51-80	N/A	Stream runs through stand. Spruce falling out. Variable ages of ash and Bam filling in. Very wet. Trace elm.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	6		Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce	10	Pole	6	98	Tag Alder	High	5 - 10 feet	Tall Shrub
Tamarack	5	Pole	6					
Balsam Poplar	45	Pole/Log	9	67				
Black Ash	25	Log/Pole	10					
Northern White Cedar	10	Log/Pole	10					

5	4139 - Aspen, Mixed Deciduous	Poletimber Medium	5.5	27	Immature	N/A	Some super canopy spruce scattered throughout. Large Spruce falling out. Mostly an upland site with lowland areas. Trace amounts of hemlock and sugar maple and spruce.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Pole/Sapling	5	27	Balsam Fir	Medium	Variable	Sapling
Balsam Poplar	40	Pole/Sapling	5	27	Cherry (spp.)	Low	5 - 10 feet	Sapling
Balsam Fir	10	Pole	6	27	White Spruce	Low	Variable	Sapling
					Ironwood	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	4110 - Sugar Maple Association	Sawtimber Well	6.0	97	111-140	N/A	Trace hemlock																																						
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7	6112 - Lowland Aspen	Poletimber Well	18.2	27	Immature	N/A	Wet																																							
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8	4134 - Aspen, Spruce/Fir	Poletimber Well	18.1	27	Immature	N/A	Good amount of mixed conifer coming back with the aspen. Trace amount of maple, oak, black spruce and pine																																																	
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9	4139 - Aspen, Mixed Deciduous	Sapling Well	18.1	5	Immature	N/A	Harvested 2016. Trace amount of super canopy cedar. Some low pockets throughout stand.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10	4134 - Aspen, Spruce/Fir	Sawtimber Well	25.9	76	51-80	N/A	Aspen falling apart. Some Aspen over 20 inches. Low BAs due to dying Aspen. Trace amounts of Ironwood and Beech in understory. Terrain is rocky with a mix of highland with lowland tag alder pockets and drainages throughout. OFS found on SW side of stand. Retention for adjacent harvest.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	2	Pole	8	
Red Maple	5	Pole	8	
Paper Birch	5	Pole	6	
Quaking Aspen	45	Log	16	76
Balsam Poplar	3	Log/Pole	12	
Balsam Fir	20	Pole	6	
White Spruce	10	Pole/Sapling	6	
White Pine	5	Log/Pole	10	
Black Ash	5	Pole	6	

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

11	4110 - Sugar Maple Association	Sawtimber Well	10.5	81	81-110	N/A	mostly even-aged. Some small wet pockets. BA around 110.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	77	Pole	9	81
Yellow Birch	2	Log/Pole	13	
Basswood	5	Log	13	
Paper Birch	5	Log/Pole	11	
Red Oak	1	Log	12	
White Ash	10	Log/Pole	10	

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

12	4119 - Mixed Northern Hardwoods	Poletimber Well	53.8	96	81-110	N/A	North half thinned in 2005. Some drainages present. BA around 90-100. This stand could be held and thinned next entry.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	58	Pole	9	96
Yellow Birch	3	Pole	8	
Basswood	10	Log	12	
Paper Birch	5	Log/Pole	10	
Hemlock	3	Log	14	
White Ash	1	Log/Pole	12	
Black Ash	15	Pole/Log	8	
Quaking Aspen	2	Log	14	
Balsam Poplar	1	Log/Pole	12	
Red Maple	2	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	Sapling
Ironwood	Low	Variable	Pole
Ironwood	High	5 - 10 feet	Sapling
Black Ash	Medium	Variable	Sapling
White Ash	Low	Variable	Sapling
Sugar Maple	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13 6129 - Mixed Coniferous Lowland Forest Poletimber Well 119.1 90 81-110 N/A Most of this stand is under water due to beaver activity.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	8		Balsam Fir	Medium	10 - 20 feet	Sapling
Black Spruce	25	Pole	8		Tamarack	Medium	10 - 20 feet	Sapling
Northern White Cedar	45	Pole	8	90	Tag Alder	Low	5 - 10 feet	Tall Shrub
Tamarack	25	Pole	8					

14 4130 - Aspen Poletimber Well 96.5 37 Unspecified N/A Trace amount of sugar maple, elm, basswood and red maple in canopy. Super canopy white pine present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	51	Pole	6	37	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	2	Pole	5		White Ash	Medium	Variable	Sapling
White Spruce	2	Pole	5		Sugar Maple	Low	Variable	Sapling
Balsam Poplar	15	Pole	7		Red Maple	Low	Variable	Sapling
White Pine	5	Log	14		White Pine	Trace	Variable	Sapling
Bigtooth Aspen	25	Pole	7		Cherry (spp.)	Trace	Variable	Sapling
					Tag Alder	Low	5 - 10 feet	Tall Shrub
					White Spruce	Low	Variable	Sapling
					White Pine	Low	Variable	Pole

15 4130 - Aspen Sapling Well 25.3 5 Immature N/A Harvested 2016. Super canopy white pine present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	60	Sapling	1	5	Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	3	Log	14		Balsam Fir	Low	Variable	Sapling
Balsam Poplar	10	Sapling	1		White Spruce	Low	Variable	Sapling
White Spruce	1	Sapling	1					
Paper Birch	5	Sapling	1					
Black Cherry	5	Sapling	1					
Red Maple	9	Sapling	1					
White Ash	5	Sapling	2					
Black Ash	2	Sapling	1					

16 6220 - Alder/willow Nonstocked 4.4 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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17 4130 - Aspen Sapling Well 36.5 16 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	58	Sapling	3	16	White Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	15	Sapling	3		Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch	2	Sapling	2		Balsam Fir	Low	5 - 10 feet	Sapling
White Ash	3	Sapling	3		White Spruce	Low	5 - 10 feet	Sapling
Black Cherry	2	Sapling	3					
Balsam Poplar	15	Sapling	3					
White Spruce	5	Pole/Sapling	6					

18 6229 - Mixed lowland shrub Nonstocked 31.0 Immature No

19 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 131.9 93 81-110 N/A Collection of drainages. Several beaver dams. Variety of ages present.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	3	Pole	8		Balsam Fir	Low	Variable	Sapling
Balsam Fir	10	Pole	8		Black Ash	Medium	Variable	Sapling
Black Spruce	10	Pole	8		Tag Alder	High	5 - 10 feet	Tall Shrub
Northern White Cedar	30	Log/Pole	11	93	Black Spruce	Low	Variable	Sapling
Tamarack	20	Pole	8					
Black Ash	20	Pole	7					
Balsam Poplar	5	Pole/Log	8					
Quaking Aspen	2	Log/Pole	10	70				

20 4130 - Aspen Poletimber Well 43.2 46 51-80 N/A Aspen stand with some fir in understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	3	Pole	6		Balsam Fir	Low	Variable	Sapling
Paper Birch	2	Pole	6		White Spruce	Low	Variable	Sapling
Quaking Aspen	60	Pole	6	46	Ironwood	Low	Variable	Sapling
Bigtooth Aspen	30	Pole	7		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Balsam Poplar	5	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21 4134 - Aspen, Spruce/Fir Poletimber Well 249.9 48 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Pole	6	
Red Maple	10	Pole	7	
Quaking Aspen	32	Pole	7	48
Balsam Fir	15	Pole	6	
White Spruce	10	Pole	6	
White Pine	3	Log	10	
Black Ash	5	Pole	6	
Black Spruce	2	Pole	5	
Bigtooth Aspen	10	Pole/Log	9	
Basswood	2	Log/Pole	12	
Hemlock	1	Log	14	
Yellow Birch	2	Pole	7	
Balsam Poplar	3	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
White Spruce	Low	Variable	Sapling
Black Ash	Low	Variable	Sapling
Ironwood	Low	Variable	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Beech	Trace	Variable	Sapling
White Pine	Low	Variable	Sapling
Balsam Poplar	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling

OJ: Highly variable stand. Rock and water. Looks like 2 aged aspen about 35 and 70 years old. Fir mortality high.
 AC: Rocky mostly Aspen stand with drainages, swamp hardwoods, and fir pockets mixed throughout. Wait to harvest.
 JS: Trace beech, cedar, red oak and red pine. Variable in BA and size; due to variability in soil and old aspen falling out. Canopy closure varies with an average of about 75% for the entire stand. West side of stand has less canopy closure. Marbled with multiple ages with 48 years being the most dominant age. The west side of the stand seems to have more patches of younger aspen. Other ages present range from saplings, to 40, and 70 years old. Spruce budworm damage also present. No bed and banks observed.

22 4110 - Sugar Maple Association Poletimber Well 16.6 98 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	90	Pole/Log	8	98
Basswood	5	Log	12	
Paper Birch	5	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	5 - 10 feet	Sapling

23 6120 - Lowland Cedar Poletimber Well 8.1 97 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	6	
Balsam Fir	15	Pole/Sapling	6	
White Spruce	5	Log/Pole	10	
Northern White Cedar	50	Log/Pole	12	97
Black Ash	25	Pole	6	

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

24 4136 - Aspen, Mixed Conifer Sapling Well 168.0 27 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	65	Sapling	3	27
Balsam Fir	10	Sapling	2	
White Spruce	5	Sapling	2	
White Pine	5	Log	14	
White Pine	10	Sapling	3	
Red Pine	5	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
White Spruce	Low	5 - 10 feet	Sapling
Tamarack	Low	5 - 10 feet	Sapling
White Pine	Medium	5 - 10 feet	Sapling

AC: Swamp Hardwood pockets mixed throughout. Especially in SE part of stand.. Cut in 1994 part of Karnaval Aspen.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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25	4136 - Aspen, Mixed Conifer	Poletimber Well	34.4	37	81-110	N/A	Several drainages throughout. Just starting to become merchantable. About one acre of Red Pine along road.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	5	
Quaking Aspen	65	Pole	5	37
Balsam Fir	10	Pole	5	
White Spruce	5	Pole	5	
Red Pine	5	Log	12	
Black Ash	5	Pole	6	
Paper Birch	5	Pole	6	

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

26	6115 - Lowland Ash	Poletimber Well	5.7	83	51-80	N/A	Wet Black Ash stand
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	3	Pole	8	
Balsam Fir	2	Pole	6	
Northern White Cedar	5	Pole	8	
Black Ash	90	Pole	6	83

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

27	42330 - Upland Fir	Sapling Medium	13.9	27	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	8	Sapling	2	
Balsam Fir	80	Sapling	2	27
White Spruce	5	Sapling	2	
White Pine	5	Sapling	2	
Ironwood	2	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub

28	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	7.0	99	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	2	Pole/Sapling	6	
Black Spruce	40	Pole/Sap/Log	9	99
Northern White Cedar	18	Pole	8	
Tamarack	35	Pole/Log	9	
Black Ash	5	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Tamarack	Medium	5 - 10 feet	Sapling
Tag Alder	High	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																												
29	4139 - Aspen, Mixed Deciduous	Poletimber Well	70.6	59	81-110	N/A	Terrain is rock and swails. Scattered supercanopy White Pines.																																																																												
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31	622 - Lowland Shrub	Nonstocked	42.3		Unspecified	No																																																																													
32	4130 - Aspen	Poletimber Well	103.2	56	81-110	N/A	Aspen ages vary greatly. 20-50 years old. Density and quality is patchy. Scattered rocks mixed throughout. White Birch is declining. Many conks on Aspen. A few scattered supercanopy White Pines.																																																																												
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33	3105 - Mixed Upland Herbaceous	Nonstocked	1.0		Unspecified	No																																																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
34	4110 - Sugar Maple Association	Sawtimber Well	45.4	95	81-110	N/A	Few scattered conifers mixed throughout.																																																
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35	4134 - Aspen, Spruce/Fir	Sapling Well	16.6	27	Immature	N/A	Some older super canopy trees present. Beaver damage. Trace maple. Rocky.																																																
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36	6239 - Mixed Emergent Wetland	Nonstocked	3.4		Unspecified	No																																																	
37	4134 - Aspen, Spruce/Fir	Poletimber Medium	28.1	41	Unspecified	N/A	Past cut in aspen regenerating poorly. Looks like a poor site. Scattered low vigor stand. Most of the bigger balsam has been hit by spruce bud worm. Pocket of tag alder in NE part of stand.																																																
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38	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	14.0	75	1-50	N/A																																																	
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39	4130 - Aspen	Poletimber Well	9.6	30	Immature	N/A	north part h 8 inch black ash break out																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
40	4130 - Aspen	Sapling Well	60.1	30	Immature	N/A	Scattered larger aspen throught out stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole	6		Red Maple	
Quaking Aspen		80	Sapling/Pole	4	30	Balsam Fir	
Balsam Fir		5	Sapling	3		White Spruce	
Northern White Cedar		3	Pole	6		Ironwood	
White Pine		2	Log/XLog	13		Hazelnut (Beaked)	
						Density	Avg. Height
							Size
41	4110 - Sugar Maple Association	Sawtimber Well	26.2	104	81-110	N/A	Stand Thinned 2015
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		60	Log/Pole	10	104	Ironwood	
Basswood		40	Log	12		Leatherwood	
						Balsam Fir	
						Density	Avg. Height
							Size
42	6120 - Lowland Cedar	Poletimber Well	15.7	101	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		10	Pole	9		Quaking Aspen	
White Spruce		10	Log/Pole	11		Northern White Cedar	
Northern White Cedar		50	Log/Pole	10	101	Tamarack	
Tamarack		25	Pole/Log	9		Tag Alder	
White Pine		5	Log	14			
						Density	Avg. Height
							Size
43	4110 - Sugar Maple Association	Sawtimber Well	22.1	101	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		75	Log/Pole	10	101	Balsam Fir	
Basswood		15	Log	12		Ironwood	
Paper Birch		3	Pole	8			
White Ash		7	Log/Pole	12			
						Density	Avg. Height
							Size
44	4134 - Aspen, Spruce/Fir	Poletimber Medium	12.9	30	Immature	N/A	Spotty spruce fir with some aspen. Poor stocking, poor site.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		10	Pole/Log	8		Balsam Fir	
Quaking Aspen		60	Pole/Sapling	5	30	White Spruce	
White Spruce		30	Pole/Sapling	5		Tag Alder	
						Density	Avg. Height
							Size
45	4134 - Aspen, Spruce/Fir	Poletimber Well	8.4	43	81-110	N/A	OPIC - FMD: OI Stand Year Origin was 1978
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		80	Pole	6	43		
Balsam Fir		20	Pole/Sapling	5			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
46	6220 - Alder/willow	Nonstocked	44.3	0	Unspecified	No	Lowland alder drainage.																																																						
47	4130 - Aspen	Sapling Well	29.5	6	Immature	N/A	Harvested 2015																																																						
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Quaking Aspen	100	Sapling	1	6																																																									
48	6120 - Lowland Cedar	Poletimber Well	36.2	104	Unspecified	N/A	Stand is very dense on West side and sparse on the East side.																																																						
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49	6112 - Lowland Aspen	Poletimber Well	6.8	30	Immature	N/A	Pockets of larger aspen in stand																																																						
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50	4110 - Sugar Maple Association	Sawtimber Well	27.6	104	111-140	N/A																																																							
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51	4134 - Aspen, Spruce/Fir	Poletimber Medium	11.7	58	Unspecified	N/A	Fair to poorly stocked aspen.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
52	4134 - Aspen, Spruce/Fir	Sapling Medium	21.1	29	Immature	N/A	Poor open grown regeneration.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	3	Pole/Sapling	5				
Quaking Aspen	72	Sapling	3	29			
Balsam Fir	10	Sapling	3				
White Spruce	10	Sapling	3				
Black Cherry	5	Sapling	3				
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	Low	5 - 10 feet	Sapling				
Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub				
53	6120 - Lowland Cedar	Poletimber Well	18.8	104	Unspecified	N/A	patches of Tag alder within the stand.
Canopy Species	% Cover	Size Class	DBH	Age			
Northern White Cedar	70	Log/Pole	11	104			
Black Ash	5	Pole/Log	8				
Yellow Birch	5	Pole	7				
Balsam Poplar	10	Pole	8				
Balsam Fir	10	Pole/Sapling	7				
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	Medium	10 - 20 feet	Sapling				
White Spruce	Low	10 - 20 feet	Sapling				
Tag Alder	Medium	5 - 10 feet	Tall Shrub				
54	4110 - Sugar Maple Association	Poletimber Well	18.9	104	81-110	N/A	
Canopy Species	% Cover	Size Class	DBH	Age			
Sugar Maple	83	Pole/Log	8	104			
White Ash	2	Log/Pole	10				
Basswood	15	Log	12				
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	Low	5 - 10 feet	Sapling				
White Spruce	Low	5 - 10 feet	Sapling				
Ironwood	Medium	Variable	Sapling				
55	4130 - Aspen	Poletimber Well	123.2	30	Immature	N/A	
Canopy Species	% Cover	Size Class	DBH	Age			
Quaking Aspen	85	Pole/Sapling	5	30			
Balsam Fir	10	Sapling	3				
Red Maple	5	Sapling	3				
Sub-Canopy Species	Density	Avg. Height	Size				
White Pine	Low	>20 feet	Sapling				
White Spruce	Low	>20 feet	Sapling				
Cherry (spp.)	Low	>20 feet	Sapling				
56	6120 - Lowland Cedar	Poletimber Well	1.9	104	Unspecified	N/A	
Canopy Species	% Cover	Size Class	DBH	Age			
Balsam Fir	25	Pole	8				
White Spruce	15	Log/Pole	11				
Northern White Cedar	60	Pole	8	104			
Sub-Canopy Species	Density	Avg. Height	Size				
Balsam Fir	Medium	Variable	Sapling				
White Spruce	Low	Variable	Sapling				
Tag Alder	Low	5 - 10 feet	Tall Shrub				
57	4110 - Sugar Maple Association	Poletimber Well	12.2	86	81-110	N/A	Hardwood pole stand with few poorer quality logs. BA averaged 100 crowns still have room to grow. Survey corner present. Scattered aspen.
Canopy Species	% Cover	Size Class	DBH	Age			
Red Maple	5	Pole/Log	9				
Paper Birch	5	Pole/Log	8				
Basswood	20	Log/Pole	12				
Sugar Maple	70	Pole/Log	9	86			
Sub-Canopy Species	Density	Avg. Height	Size				
Ironwood	Medium	Variable	Sapling				
Leatherwood	Medium	< 5 feet	Tall Shrub				
Balsam Fir	Low	Variable	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
58	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	6.3	110	81-110	N/A	Lowland fingers. Cedar in the west transitions to black ash.																																						
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59	4130 - Aspen	Poletimber Well	65.1	52	111-140	N/A	Healthy aspen stand. Abundant fir under story. Cedar drainage E/W across north end of stand, an old raised skid trail does cross it for access from the north to the southern portion of stand if not in frozen conditions. Fairly gentle terrain does have some small rock ledges. Aspen more dense in south. Cedar and black ash found within stand. Exclude dense cedar and black ash pockets.																																						
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60	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	9.0	108	81-110	N/A	Lowland with cedar, spruce, black ash, and areas of alder. Very saturated ground. Bam and black ash is falling apart. Cedar is larger and may be older than dominant age of stand.																																						
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61	4130 - Aspen	Sapling Well	61.1	2	Immature	N/A	Stand cut in Fall 2019 part of Redo Timber Sale.																																						
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62	4130 - Aspen	Poletimber Well	9.5	30	Immature	N/A	Aspen sapling stand. West half of stand is low density balsam/spruce (10-20' tall) with some cherry. this part of stand is within 300 ft buffer of Little Cassidy Ck.																																						
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63	622 - Lowland Shrub	Nonstocked	16.4		Unspecified	No	Alder drainage along stream.																																						
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64	6120 - Lowland Cedar	Poletimber Well	12.1	86	81-110	N/A	Lowland drainage mostly cedar with tamarack mixed in. Very dense under story of fir and alder. Inoperable due to saturated soil and stream buffer.																																						
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