



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12065

Entry Year 2024

Acreage: 1,748

County Dickinson

Management Area: Ralph Ground Moraine

Stand Examiner: Andrew Church

Legal Description:

T42N R27W Sections 7, 16-19, 21

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Protect the riparian areas and transition zones during management activity.

Soil and topography:

Soils range from very poorly drained Cathro mucks to well drained Emmet fine sandy loams. The topography is mostly rolling hills.

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

Blocks of private ownership are scattered within and around this compartment. Active forest management has occurred and will continue within and surrounding the compartment. Hunting is the main recreational use pattern.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Deer Wintering Complex designation.

Watershed and Fisheries Considerations:

Protect water quality for all bodies of water, particularly, the East Branch of the Skunk Creek. Promote long lived conifer species along water bodies and use adequate buffer protection. East Branch of Skunk Creek runs through the center of this compartment and is a designated Type 1 trout stream. 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.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The nearest active sand/gravel pit is just over two miles southwest, and there appears to be some potential for sand and maybe gravel within the compartment. Bedrock sandstone is near the surface within the compartment. Some past iron ore exploration has occurred just west of the compartment. Some evidence of iron ore was documented in a core just to the west, but it was at significant depth and did not appear to be substantial. The nearest past iron ore production is four miles to the southwest. Potential for other metallic and critical minerals beneath the compartment is unknown but is considered low at this time. No current state mineral leasing activity exists in the compartment or the surrounding area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Excellent road systems are in place throughout entire compartment. Many State forest poor dirt roads are also present.

Survey Needs:

Corners are needed.

Recreational Facilities and Opportunities:

Hunting, fishing, trapping, and walking trails within compartment.

Fire Protection:

Felch Protection Area. Access for fire suppression in the more fire prone forest types is fairly good.

Additional Compartment Information:

The following reports from the Inventory are attached:

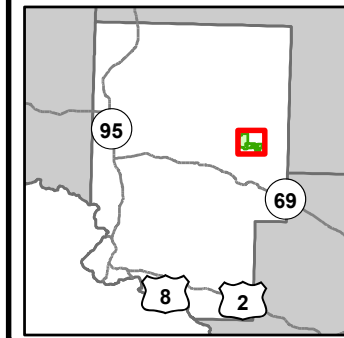
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

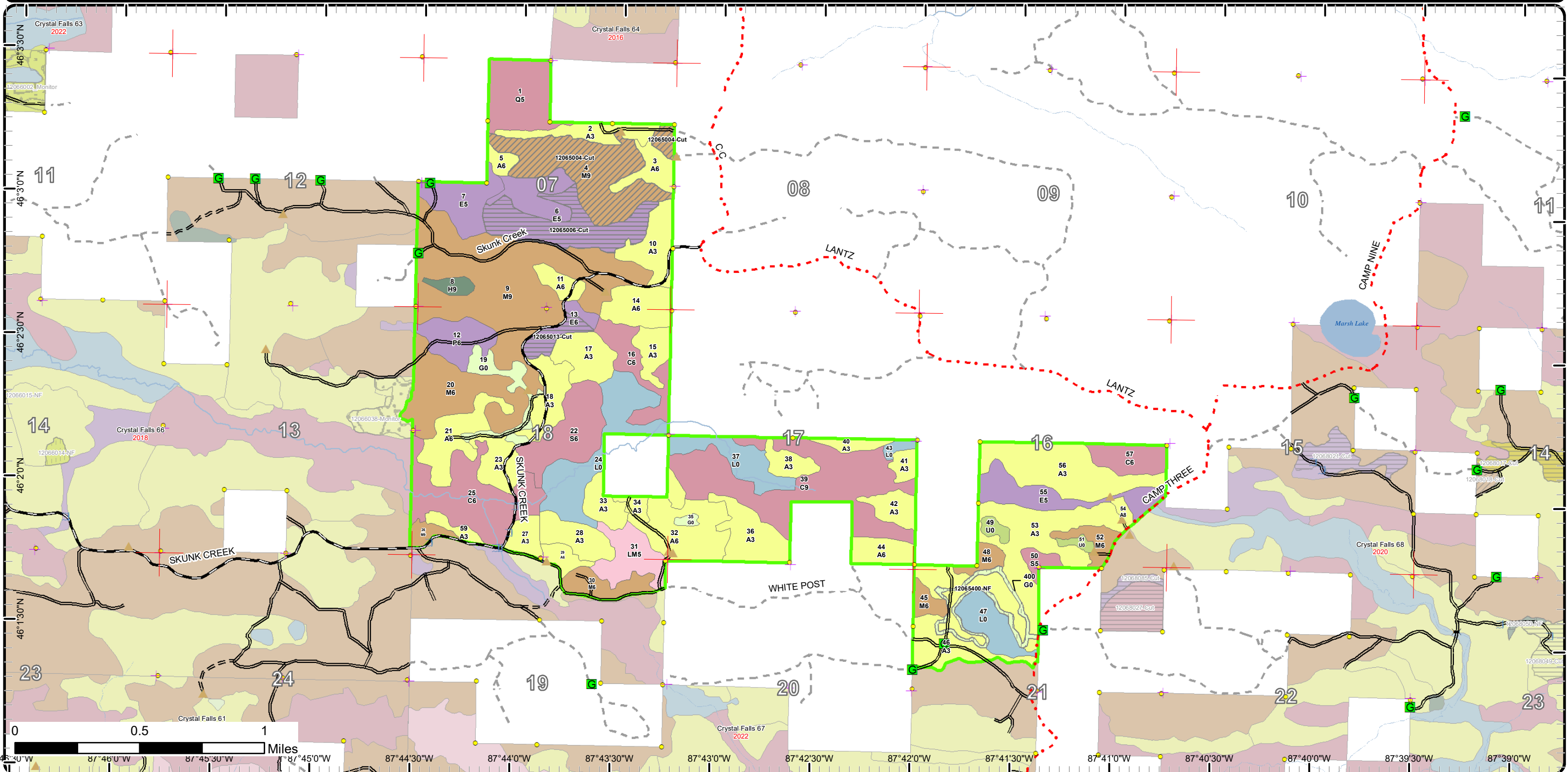
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 65
 T42N, R27W, Sec. 7, 16-19, 21
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2024
 Acres: 1748 GIS Calculated
 Examiner: Andrew Church
 Map Revised: 11/18/2022
 Map Phase: Post-Review

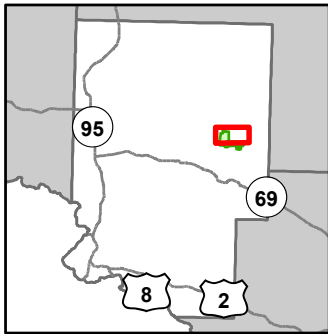


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- ▲ Berms
- G Gate
- C Culvert
- Intermittent Stream
- Perennial River
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub

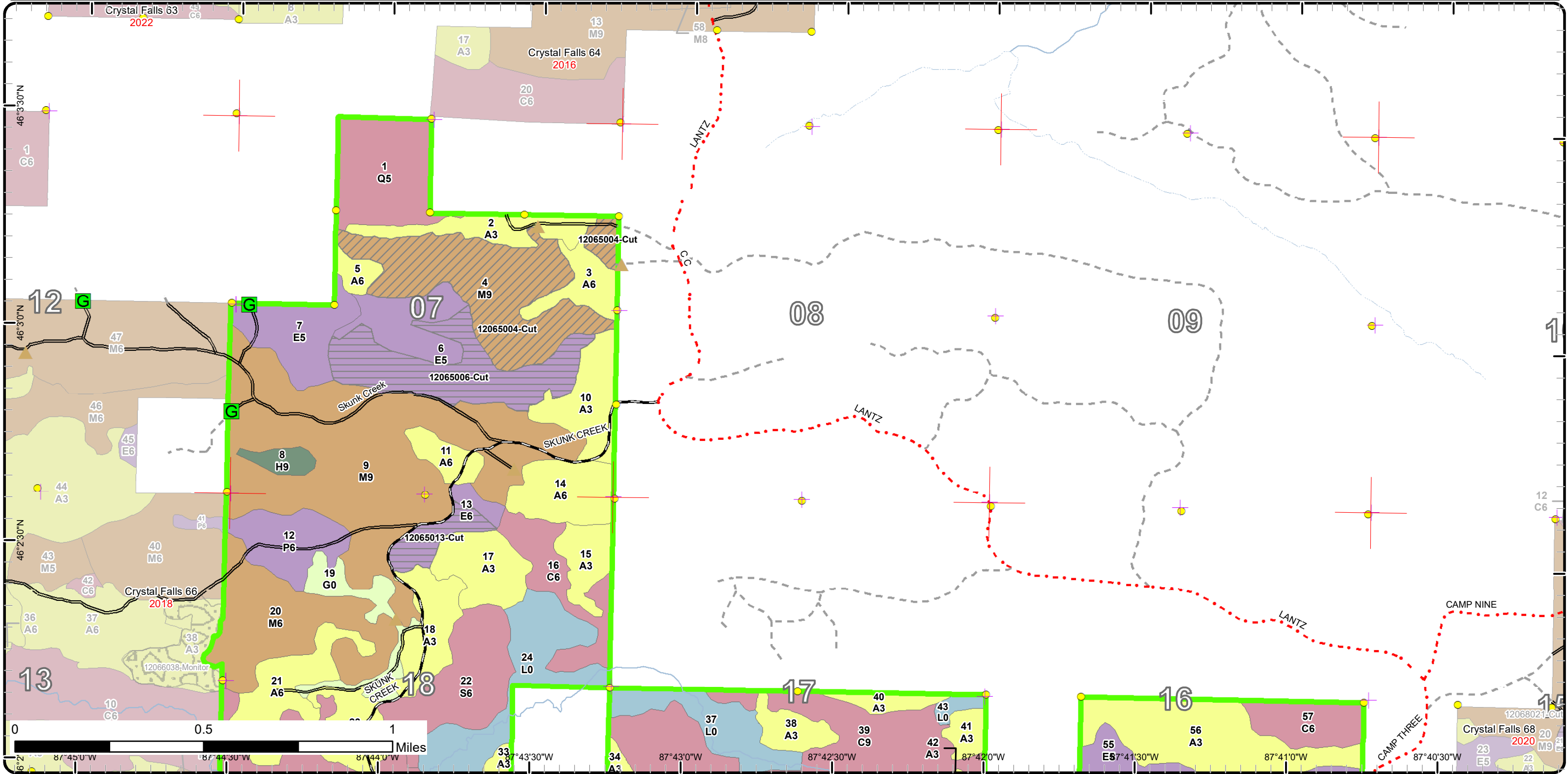


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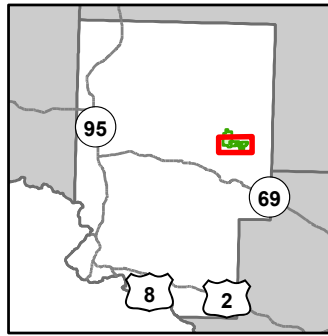


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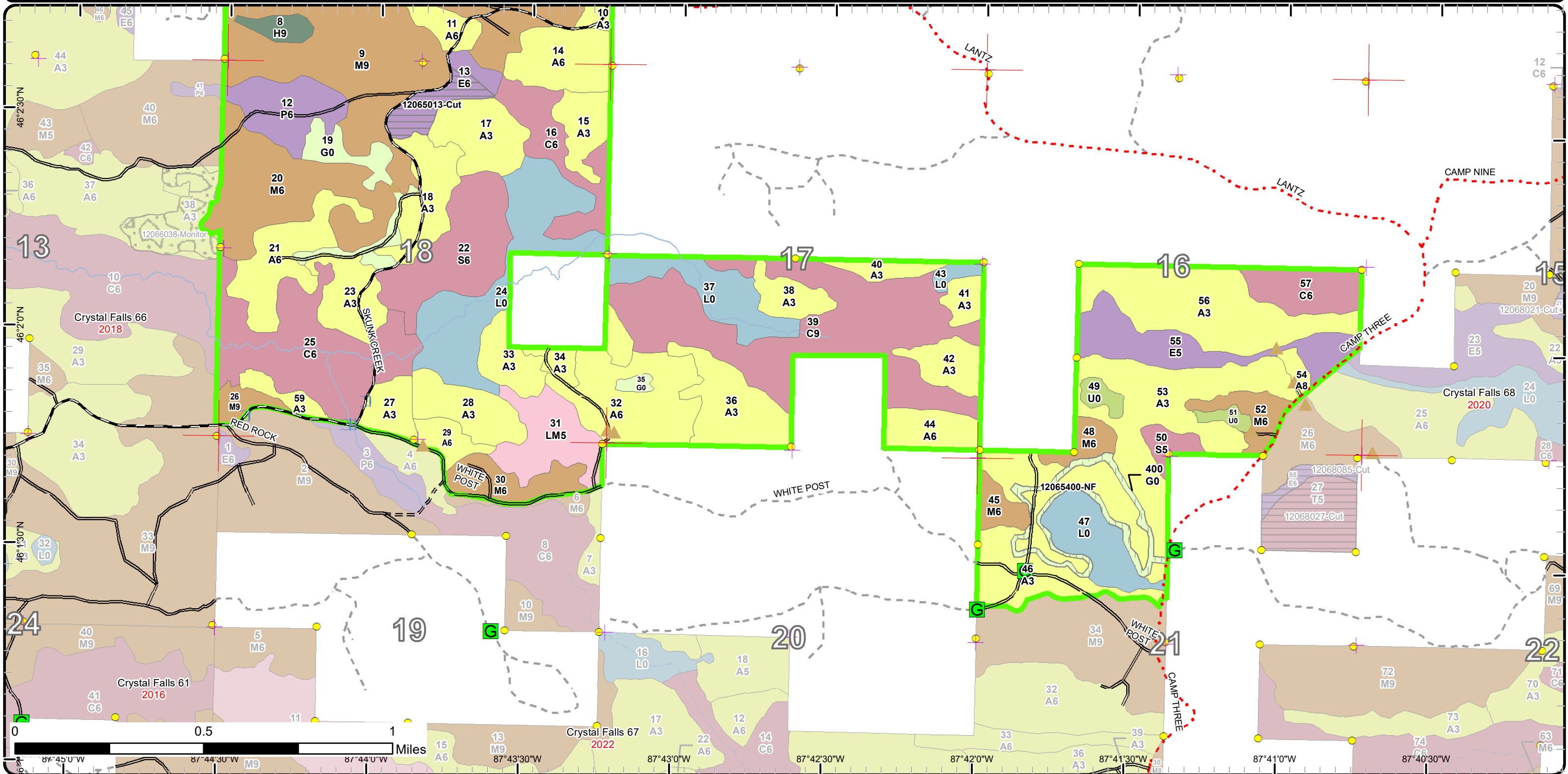


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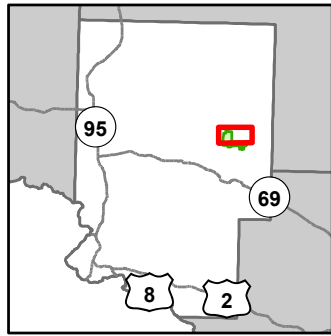


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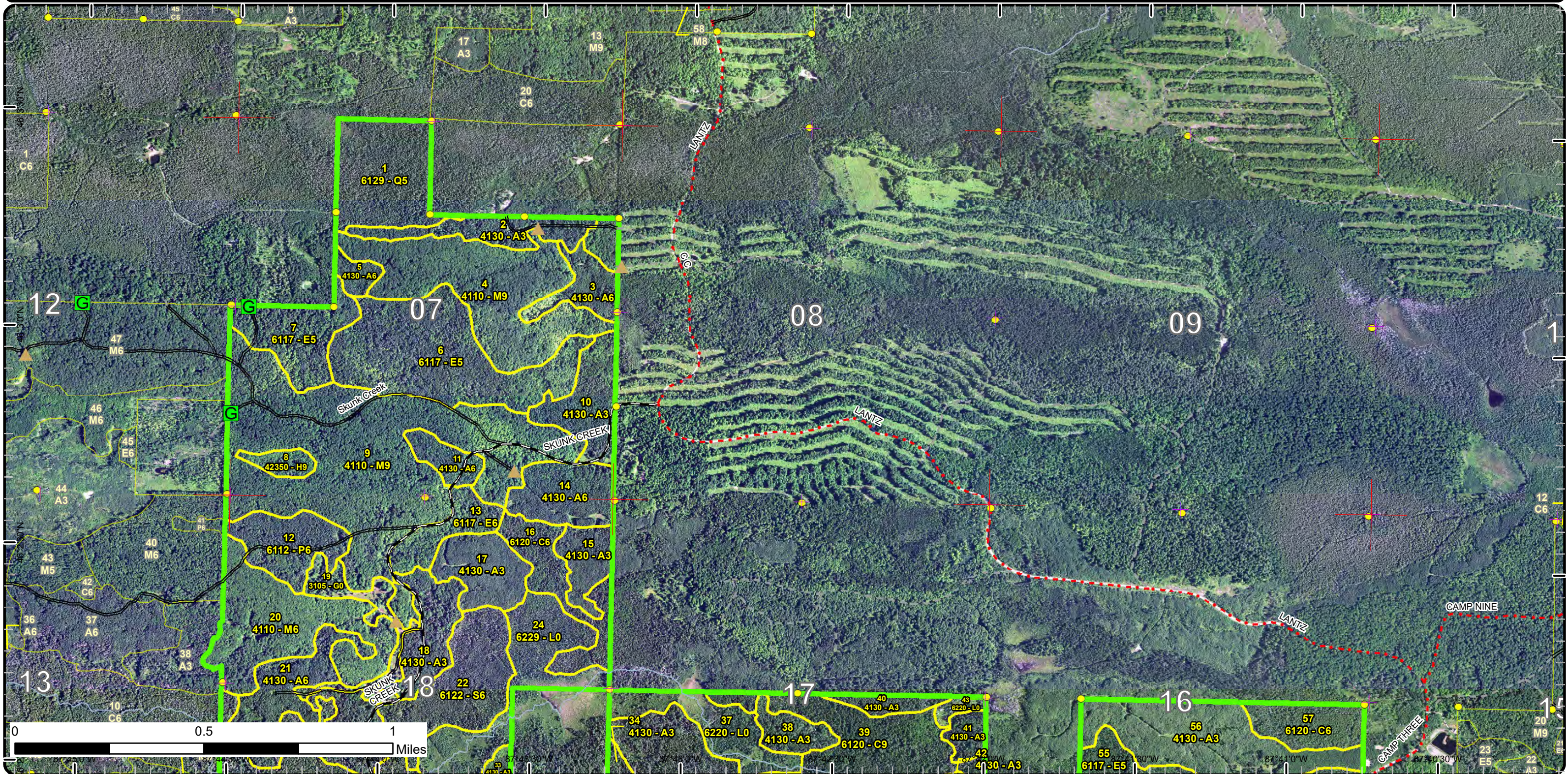


Stand Boundary Map

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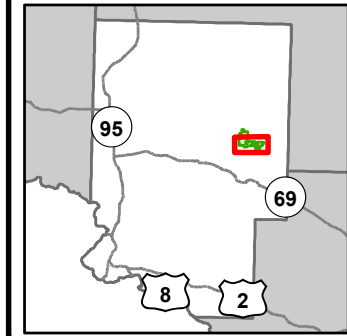


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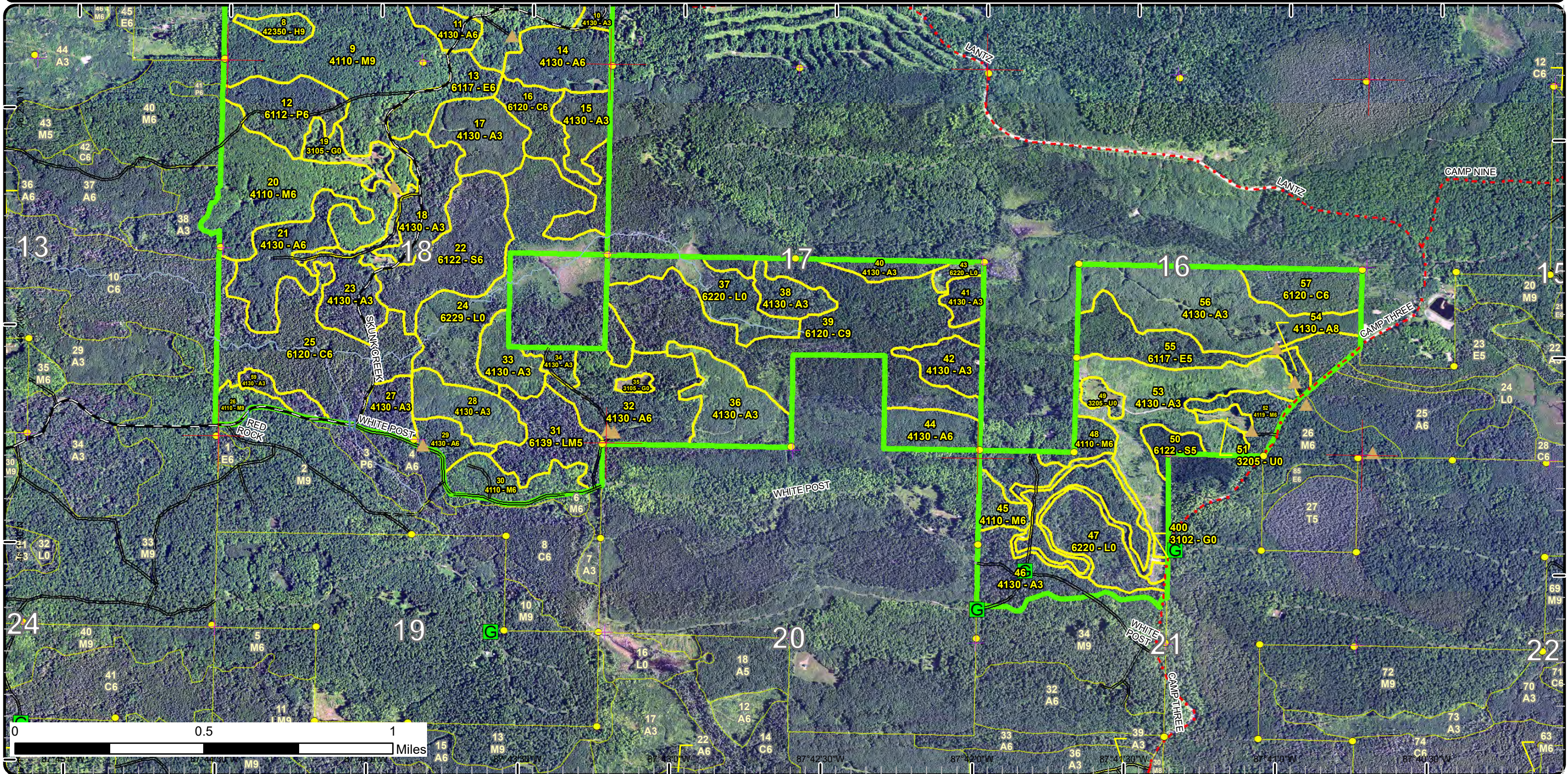


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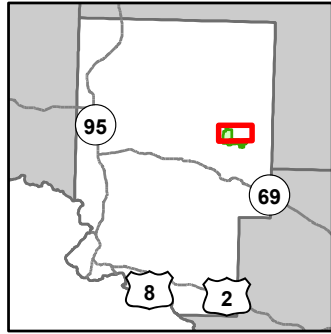


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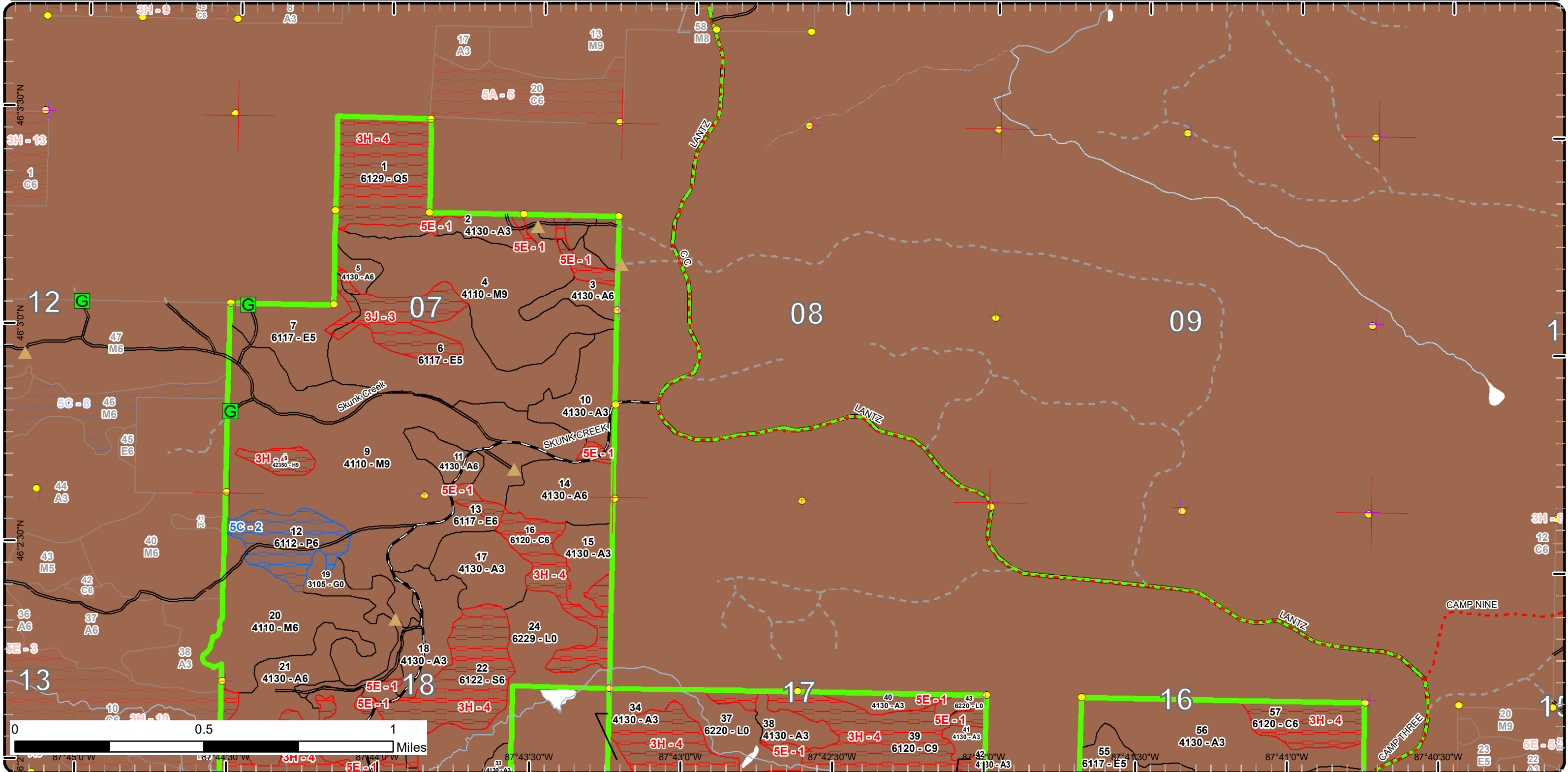


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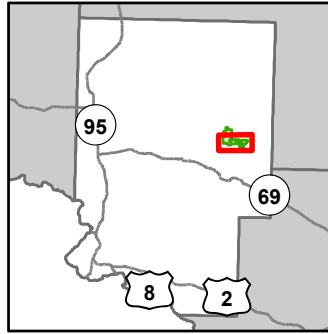


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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Beauty Roads
- Cold Water Streams
- Deer Winter Range

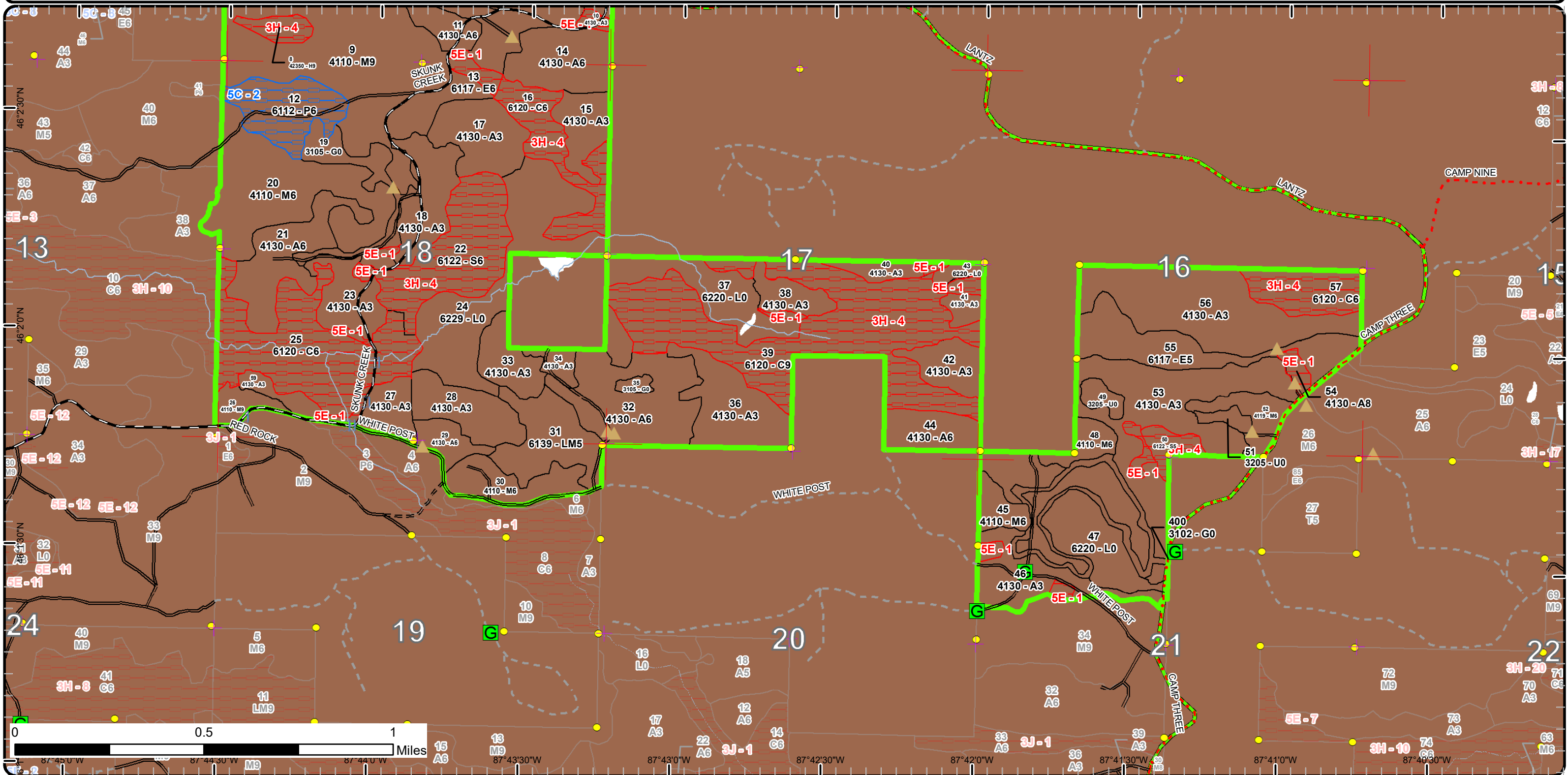


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	292	69	120	68	78	0	0	0	4	0	0	0	0	0	0	0	0	631
Cedar	0	0	0	0	0	0	0	0	0	0	0	239	0	0	0	0	0	0	239
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	7
Herbaceous Openland	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Lowland Aspen/Balsam Poplar	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	27
Lowland Conifers	0	0	0	0	0	0	0	0	0	46	0	0	0	0	0	0	0	0	46
Lowland Deciduous	0	0	0	0	0	0	37	81	31	0	18	0	0	0	0	0	0	0	167
Lowland Mixed Forest	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	0	0	0	30
Lowland Shrub	117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	46	7	0	0	0	0	0	0	0	0	53
Northern Hardwood	0	0	0	0	0	0	0	0	0	64	323	0	0	0	0	0	0	0	386
Upland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	162	292	69	120	68	105	37	81	107	121	341	239	0	7	0	0	0	0	1746



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 65
Total Compartment Acres: 1,748

Commercial Harvest - 156
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
Lowland Deciduous	69	0	0	0	0	0	0	0	0	69
Northern Hardwood	0	0	0	0	87	0	0	0	0	87
Total	69	0	0	0	87	0	0	0	0	156

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	156	0	0	0	0	0	0	15	0	170
Next Step	0	0	0	0	0	69	0	0	0	69
Total	156	0	0	0	0	69	0	15	0	239



Stand Name	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:

4	12065004-Cut	87.0	4110 - Sugar Maple Association	Sawtimber Well	96	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Thin targeting 80 residual BA. Leave Pine, Cedar, Hemlock. Release pockets of advanced Sugar Maple regeneration.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

6	12065006-Cut	55.9	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	63	Unspecified	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Final harvest using 4" spec. Leave Cedar, Hemlock, Pine, and Yellow Birch. Buffer streams 100 feet.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Conifers, Mixed Hardwoods

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

13	12065013-Cut	12.9	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	92	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Final Harvest using 4" spec. Leave Cedar, Pine, Hemlock, and Yellow Birch. Also, mark reserve trees adjacent to Hemlock and Cedar for wind throw protection. Buffer stream 100 feet.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Mixed Conifers, Mixed Hardwoods

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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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400	12065400-NF	14.6	3102 - Grass	Nonstocked	0	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	2113 - Forage Crops	No
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Prescription Hunter walking trail opening maintenance- Partner with Ruffed Grouse Society

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 6 /3 /2022

**Total Treatment
Acreage Proposed: 170.4**

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Andrew Church : Examiner

Compartment: 65
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	3H	3J	5E
		With Condition	Not Available					
632	604	0	28	Aspen			1	27
201	0	0	201	Cedar		199		2
7	0	0	7	Hemlock		7		
36	36	0	0	Herbaceous Openland				0
27	0	27	0	Lowland Aspen/Balsam Poplar	27			
46	0	0	46	Lowland Conifers		46		
167	134	0	33	Lowland Deciduous			28	5
30	30	0	0	Lowland Mixed Forest				
116	116	0	0	Lowland Shrub				0
53	0	0	53	Lowland Spruce/Fir		53		0
386	386	0	0	Northern Hardwood				0
9	9	0	0	Upland Shrub				
1,710	1,314	27	368	Total Forested Acres	27	305	29	34
	77%	2%	22%	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	5E: Long-Term Retention	34	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Many areas of retention are located in stream buffers.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treat when entering surrounding stand. Currently, Aspen is healthy and is not in decline.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Andrew Church : Examiner

Compartment: 65
Year of Entry: 2024

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	29	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Stream buffers.							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	343	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Obligate Deer Winter Range. Some stands have Skunk Creek and unnamed creeks.							

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	Visual Management Area	An area of general social appreciation that is managed to recognize and preserve a particular visual value. Examples of these areas include scenic vistas, scenic or natural beauty roads, and lakeshore areas.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
1	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	46.2	85	1-50	N/A																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>35</td> <td>Pole/Sapling</td> <td>8</td> <td>85</td> </tr> <tr> <td>Northern White Cedar</td> <td>25</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>25</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>15</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Tamarack	35	Pole/Sapling	8	85	Northern White Cedar	25	Pole	8		Black Spruce	25	Pole/Sapling	5		Balsam Fir	15	Pole/Sapling	5		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Tamarack</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Medium	Variable	Sapling	Balsam Fir	Low	Variable	Sapling	Tag Alder	Medium	5 - 10 feet	Tall Shrub	Tamarack	Medium	Variable	Sapling			
Canopy Species	% Cover	Size Class	DBH	Age																																															
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2	4130 - Aspen	Sapling Well	21.7	4	Immature	N/A	Stand was salvaged in 2018 as part of Hats Off Salvage.																																												
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5	4130 - Aspen	Poletimber Well	6.2	41	Unspecified	N/A	Great Sugar Maple recruitment. Stream on West and South side.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	81.3	63	Unspecified	N/A	Much Cedar to North. Many drainages and streams within stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	15	Pole	5		Tamarack	Medium	10 - 20 feet	Sapling
Black Spruce	5	Pole/Sapling	5		Black Ash	Medium	< 5 feet	Sapling
Tamarack	5	Pole/Sapling	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch	10	Pole	8		Balsam Fir	Medium	10 - 20 feet	Sapling
Sugar Maple	10	Pole/Log	9					
Black Ash	10	Pole/Sapling	6					
Balsam Poplar	10	Pole	10					
Balsam Fir	5	Pole/Sapling	5					
Quaking Aspen	20	Log/Pole	12	63				
Red Maple	10	Pole/Log	9					

7	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	31.1	77	51-80	N/A	Cut in 1984, but left much unharvested. Majority is lowland with small upland inclusions.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole/Sapling	6	38	Red Maple	Medium	Variable	Sapling
Balsam Fir	30	Pole/Sapling	6		Black Ash	Medium	< 5 feet	Sapling
Hemlock	5	Log	12		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	5	Pole	6					
Red Maple	40	Pole/Log	8	77				
Sugar Maple	5	Pole/Sapling	5					
Yellow Birch	5	Pole/Log	9					

8	42350 - Upland Hemlock	Sawtimber Well	6.7	120	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Pole	6		Red Maple	Low	>20 feet	Sapling
Hemlock	55	Log/Pole	16	120	Hemlock	Low	Variable	Pole
Yellow Birch	20	Log	12		Balsam Fir	Low	< 5 feet	Sapling
Northern White Cedar	5	Log	12					
Red Maple	15	Pole/Sapling	6					

9	4110 - Sugar Maple Association	Sawtimber Well	178.6	97	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	20	Log	12		Balsam Fir	Low	Variable	Sapling
Sugar Maple	80	Pole/Log	10	97	Ironwood	Low	5 - 10 feet	Sapling
					Leatherwood	Medium	< 5 feet	Tall Shrub
					Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10	4130 - Aspen	Sapling Well	27.0	4	Immature	N/A	Stand received much damage from windstorm. As a result, stand was cut in January 2018 to salvage trees in Hats Off Salvage TS.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	100	Sapling	1	4

11	4130 - Aspen	Poletimber Well	10.6	41	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	5	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar	2	Log	12		Ironwood	Low	10 - 20 feet	Sapling
Hemlock	3	XLog	18		Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	90	Pole	8	41	Sugar Maple	Low	5 - 10 feet	Sapling

12	6112 - Lowland Aspen	Poletimber Well	26.9	48	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	75	Pole	6	48	Red Maple	Low	Variable	Sapling
Balsam Fir	5	Pole	6		Balsam Fir	Low	Variable	Sapling
Sugar Maple	15	Pole/Sapling	6		Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
Red Maple	5	Pole/Sapling	6		Sugar Maple	Low	Variable	Sapling
					Ironwood	Low	Variable	Sapling

13	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	17.7	92	81-110	N/A	Small upland inclusion along the road. Intermittent stream to the North.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	5	Log/Pole	10		Ironwood	Low	5 - 10 feet	Sapling
Red Maple	30	Pole/Log	9	92	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Yellow Birch	5	Pole/Log/Sap	8		Leatherwood	Medium	< 5 feet	Tall Shrub
Black Ash	10	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
Hemlock	10	Log/XLog	14					
Balsam Fir	5	Pole/Sapling	6					
Sugar Maple	20	Pole/Log	9					
White Spruce	5	Pole/Log	8					
Northern White Cedar	10	Pole/Log	9					

14	4130 - Aspen	Poletimber Well	26.8	37	Unspecified	N/A	Some Hemlock and Cedar in overstory.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	100	Pole	5	37	Balsam Fir	Low	< 5 feet	Sapling
					Ironwood	Low	< 5 feet	Sapling
					Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
15	4130 - Aspen	Sapling Well	15.4	26	Unspecified	N/A	Scattered White Pine, Hemlock, and Cedar in overstory. Some lowland pockets.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	4	26	Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
						Balsam Fir	Low	5 - 10 feet	Sapling
16	6120 - Lowland Cedar	Poletimber Well	28.3	104	Unspecified	N/A	Higher stocking in Northern Finger. Farther South is lower stocking and smaller diameter trees. Drainages throughout.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		10	Pole/Sapling	6		Tamarack	Medium	Variable	Sapling
Northern White Cedar		70	Pole/Log	10	104	Tag Alder	High	5 - 10 feet	Tall Shrub
Tamarack		15	Pole/Sapling	8		Black Spruce	Medium	Variable	Sapling
Black Ash		3	Pole	6					
Hemlock		2	Pole/Log	10					
17	4130 - Aspen	Sapling Well	25.2	26	Unspecified	N/A	Scattered Pine, Cedar, and Hemlock in overstory. Some lowland pockets.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	4	26	Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
						Black Ash	Medium	Variable	Sapling
						Balsam Fir	Low	< 5 feet	Sapling
18	4130 - Aspen	Sapling Well	25.4	6	Immature	N/A	Harvested 2016 with The Storied Spruce #12-014-15.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		95	Sapling	1	6	Bracken Fern	Medium	Unspecified	Non-Wood
Red Maple		5	Sapling	1					
19	3105 - Mixed Upland Herbaceous	Nonstocked	19.0		Unspecified	No			
20	4110 - Sugar Maple Association	Poletimber Well	63.6	84	81-110	N/A	Thinned 2017, The Storied Spruce 12-014-15		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		10	Log	12		Balsam Fir	Low	Variable	Sapling
Paper Birch		3	Pole	8		Leatherwood	Medium	< 5 feet	Tall Shrub
Red Maple		15	Pole	8		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Sugar Maple		70	Pole/Log	9	84				
Ironwood		2	Pole	6					
21	4130 - Aspen	Poletimber Well	32.0	34	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Pole/Sapling	5	34	Ironwood	Low	< 5 feet	Sapling
						Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
						Balsam Fir	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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22	6122 - Black Spruce	Poletimber Well	46.0	75	Unspecified	N/A	Dense Black Spruce stand with Tag Alder in pockets. Tamarack and Cedar on edges, with scattered Aspen and Birch throughout.
Canopy Species	% Cover	Size Class	DBH	Age			
Black Spruce	80	Pole/Sapling	5	75			
Quaking Aspen	5	Pole	7				
Northern White Cedar	5	Log	12				
Tamarack	5	Pole	8				
Paper Birch	5	Pole	6				
Sub-Canopy Species	Density	Avg. Height	Size				
Dogwood (spp.)	Medium	< 5 feet	Tall Shrub				
Tag Alder	Medium	5 - 10 feet	Tall Shrub				
Black Spruce	Medium	>20 feet	Pole				

23	4130 - Aspen	Sapling Well	20.3	6	Immature	N/A	Cut with The Storied Spruce #12-014-15.
Canopy Species	% Cover	Size Class	DBH	Age			
Quaking Aspen	80	Sapling	1	6			
Balsam Poplar	5	Sapling	1				
Balsam Fir	5	Pole/Log/Sap	8				
White Spruce	5	Pole/Sapling	6				
Red Maple	5	Sapling	1				

24	6229 - Mixed lowland shrub	Nonstocked	58.8		Unspecified	No	
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25	6120 - Lowland Cedar	Poletimber Well	72.5	107	Unspecified	N/A	Understory is heavy to Fir.
Canopy Species	% Cover	Size Class	DBH	Age			
Black Spruce	5	Pole/Sapling	6				
Tamarack	5	Log/Pole	12				
Northern White Cedar	85	Pole/Log	10	107			
Balsam Fir	5	Pole/Sapling	6				
Sub-Canopy Species	Density	Avg. Height	Size				
Tag Alder	Medium	5 - 10 feet	Tall Shrub				
Balsam Fir	High	Variable	Sapling				

26	4110 - Sugar Maple Association	Sawtimber Well	7.6	93	81-110	N/A	Thinned 2016
Canopy Species	% Cover	Size Class	DBH	Age			
Yellow Birch	5	Pole	8				
Basswood	15	Log/Pole	12				
Sugar Maple	80	Log/Pole	10	93			
Sub-Canopy Species	Density	Avg. Height	Size				
Sugar Maple	Low	10 - 20 feet	Sapling				
Ironwood	Low	10 - 20 feet	Sapling				
Leatherwood	Low	< 5 feet	Tall Shrub				

27	4130 - Aspen	Sapling Well	12.2	6	Immature	N/A	Cut 2016 with The Storied Spruce #12-014-15
Canopy Species	% Cover	Size Class	DBH	Age			
Balsam Poplar	30	Sapling	1				
Balsam Fir	5	Pole/Sapling	6				
White Spruce	5	Pole/Sapling	6				
Quaking Aspen	60	Sapling	1	6			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
28	4130 - Aspen	Sapling Well	22.4	16	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	2	16	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
						Balsam Fir	Low	< 5 feet	Sapling
29	4130 - Aspen	Poletimber Well	9.4	39	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		5	Pole/Sapling	5		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Quaking Aspen		95	Pole	6	39	Balsam Fir	Low	Variable	Pole
30	4110 - Sugar Maple Association	Poletimber Well	19.5	91	81-110	N/A	Thinned 2016		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		5	Log	14		Leatherwood	Medium	< 5 feet	Tall Shrub
Basswood		20	Pole/Log	10		Ironwood	Low	5 - 10 feet	Sapling
Red Maple		5	Pole	8					
Sugar Maple		70	Pole	7	91				
31	6139 - Mixed Lowland Forest	Poletimber Medium	29.5	75	Unspecified	N/A	Good WB regen. Wet pockets mixed throughout. Large Tag drainage through middle. Low stocking.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		25	Pole	6		Balsam Fir	Medium	Variable	Pole
Quaking Aspen		25	Pole	8		Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce		31	Pole	7	75	Dogwood (spp.)	Medium	< 5 feet	Tall Shrub
Paper Birch		19	Pole/Sapling	5		Paper Birch	Medium	Variable	Pole
32	4130 - Aspen	Poletimber Well	45.8	47	Unspecified	N/A	Site is more suited for Red Pine (Kotar).		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		45	Pole	6	47	Ironwood	Low	5 - 10 feet	Sapling
Bigtooth Aspen		40	Pole	6		Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
Balsam Fir		5	Pole	6		Balsam Fir	Low	>20 feet	Sapling
Basswood		5	Log	12					
Sugar Maple		5	Pole	8					
33	4130 - Aspen	Sapling Well	15.1	16	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	2	16	Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
34	4130 - Aspen	Sapling Well	10.8	5	Immature	N/A	Salvaged area due to windthrow in 2017.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	1	5	Blackberry/Raspberry	Low	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
35	3105 - Mixed Upland Herbaceous	Nonstocked	2.3		Unspecified	No																													
36	4130 - Aspen	Sapling Well	31.5	16	Unspecified	N/A																													
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Blackberry/Raspberry	Low	< 5 feet	Tall Shrub																																
37	6220 - Alder/willow	Nonstocked	28.8		Unspecified	No																													
38	4130 - Aspen	Sapling Well	12.1	6	Immature	N/A	Harvested 2016.																												
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39	6120 - Lowland Cedar	Sawtimber Well	117.1	108	Unspecified	N/A	Thick Cedar swamp. Fir and Tag Alder in open pockets.																												
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45	4110 - Sugar Maple Association	Poletimber Well	8.6	94	81-110	N/A	Thinned 2015 with Calico Camp sale. UPDATE: Stand received much storm damage in July 2017. Storm damaged trees were salvaged in fall 2017 with White Post Pileup TS.																																					
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46	4130 - Aspen	Sapling Well	59.0	5	Immature	N/A	WLD hunter walking trail throughout stand. Harvested July 2017 due to a windstorm.																																					
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48	4110 - Sugar Maple Association	Poletimber Well	8.6	94	81-110	N/A	Thinned 2015 with Calico Camp sale. Stand received much storm damage in July 2017. As a result of the windstorm, damaged or tipped over trees were salvaged as part of White Post Pileup TS in fall of 2017.																																					
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49	3205 - Mixed Upland Shrub	Nonstocked	4.9		Unspecified	No																																						
50	6122 - Black Spruce	Poletimber Medium	7.3	85	Unspecified	N/A																																						
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51	3205 - Mixed Upland Shrub	Nonstocked	3.6		Unspecified	No																																						
52	4119 - Mixed Northern Hardwoods	Poletimber Well	12.6	91	81-110	N/A	Thinned 2015 with Calico camp sale. Stand received much storm damage in July 2017. As a result of windstorm, damaged trees were salvaged in fall of 2017 as part of White Post Pileup TS.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
53	4130 - Aspen	Sapling Well	67.2	7	Immature	N/A	Harvested 2015 with Calico Camp sale		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	1	7	Bracken Fern	High	Unspecified	Non-Wood
54	4130 - Aspen	Sawtimber Medium	3.8	88	Unspecified	N/A	Retention pocket for adjacent sale.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Log	16	88	Balsam Fir	High	Variable	Pole
55	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	36.8	57	51-80	N/A	Extremely wet.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		20	Pole/Sapling	6		Tag Alder	High	5 - 10 feet	Tall Shrub
Quaking Aspen		25	Pole/Sapling	6	57	Dogwood (spp.)	Medium	< 5 feet	Tall Shrub
Balsam Fir		10	Pole/Sapling	5		Black Ash	High	< 5 feet	Sapling
White Spruce		10	Pole/Sapling	6					
Black Ash		10	Pole/Sapling	5					
Northern White Cedar		15	Pole	6					
Balsam Poplar		10	Pole/Sapling	6					
56	4130 - Aspen	Sapling Well	63.5	23	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	3	23	Tag Alder	Low	5 - 10 feet	Tall Shrub
						Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
						White Spruce	Low	< 5 feet	Sapling
57	6120 - Lowland Cedar	Poletimber Well	21.4	104	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		20	Pole/Log	12		Black Spruce	Medium	Variable	Sapling
Northern White Cedar		50	Log/Pole	12	104	Tamarack	Medium	10 - 20 feet	Sapling
Black Spruce		20	Pole/Log/Sap	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir		10	Pole	6		Dogwood (spp.)	Low	< 5 feet	Tall Shrub
59	4130 - Aspen	Sapling Well	6.9	6	Immature	N/A	Cut 2016 with The Storied Spruce #12-014-15		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		60	Sapling	1	6				
Balsam Poplar		30	Sapling	1					
White Spruce		5	Pole/Sapling	6					
Balsam Fir		5	Pole/Sapling	6					
400	3102 - Grass	Nonstocked	14.6	0	Unspecified	Managed Opening	Hunter Walking Trail		