



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12067

Entry Year 2022

Acreage: 1,622

County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 2020-05-01

Stand Examiner: Andrew Church

Legal Description:

T42N R27W Sections 18-21, 28-30.

Identified Planning Goals:

Conserve, protect, manage, use and enjoy the State's natural and cultural resources for current and future generations.

Soil and topography:

The uplands are dominated by Emmet fine sandy loam, a well drained soil found on level to rolling hills. Lowland soils are poorly drained Carbondale and Cathro mucks found on low flats and depressions.

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

Private ownership is scattered through this compartment. The land is used heavily by hunters, fishermen, campers, and trappers.

Unique Natural Features:

Hardwood Reservoir Flooding.

Archeological, Historical, and Cultural Features:

none

Special Management Designations or Considerations:

Hardwood Reservoir Flooding State Wildlife Management Area, Obligate Deer Wintering Complex

Watershed and Fisheries Considerations:

This compartment contains the East Branch of the Sturgeon River, Hardwood Impoundment and unnamed small streams. A 100' buffer is recommended for these areas; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Vehicle Access:

Access is utilizing the Camp 3 county road. Fair and poor two-tracks cross most of the compartment on state land.

Survey Needs:

none

Recreational Facilities and Opportunities:

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

Fire Protection:

Felch protection area.

Additional Compartment Information:

The following reports from the Inventory are attached:

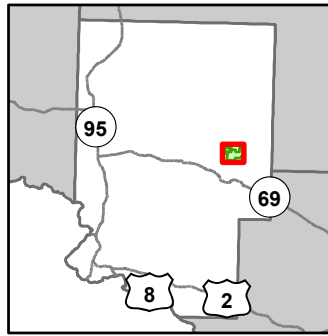
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

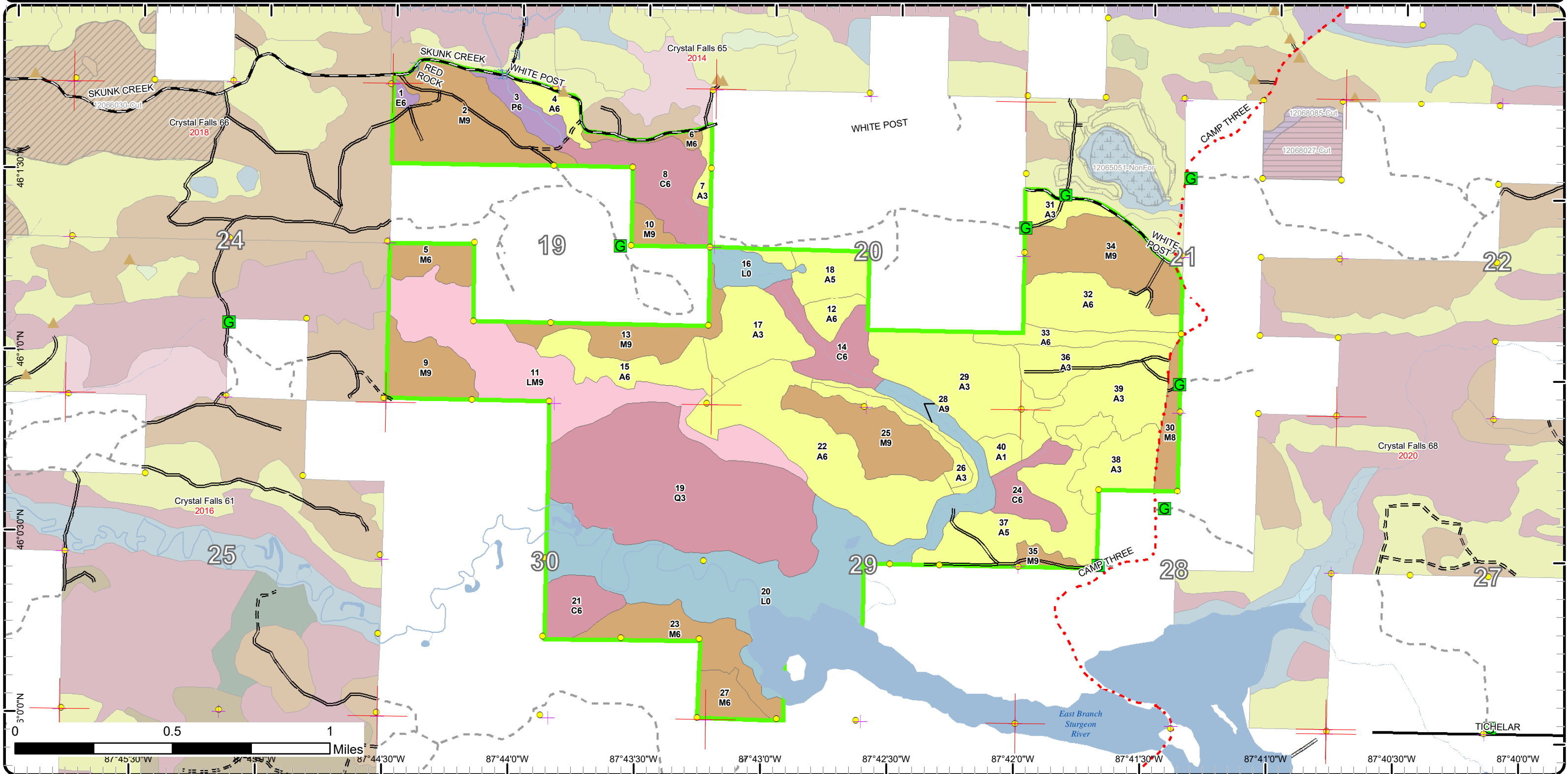
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 67
 T42N, R27W, Sec. 18-21, 28-30
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2022
 Acres: 1621.6 GIS Calculated
 Examiner: Andrew Church
 Map Revised: 1/22/2021
 Map Phase: Post-Review

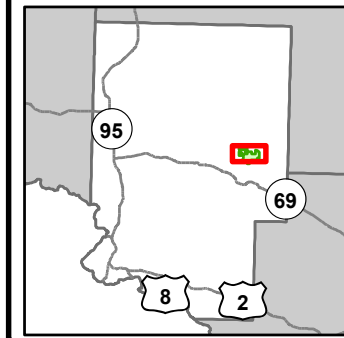


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- ▲ Berms
- G Gate
- C Culvert
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- 411 - Northern Hardwood
- 413 - Aspen
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 622 - Lowland Shrub

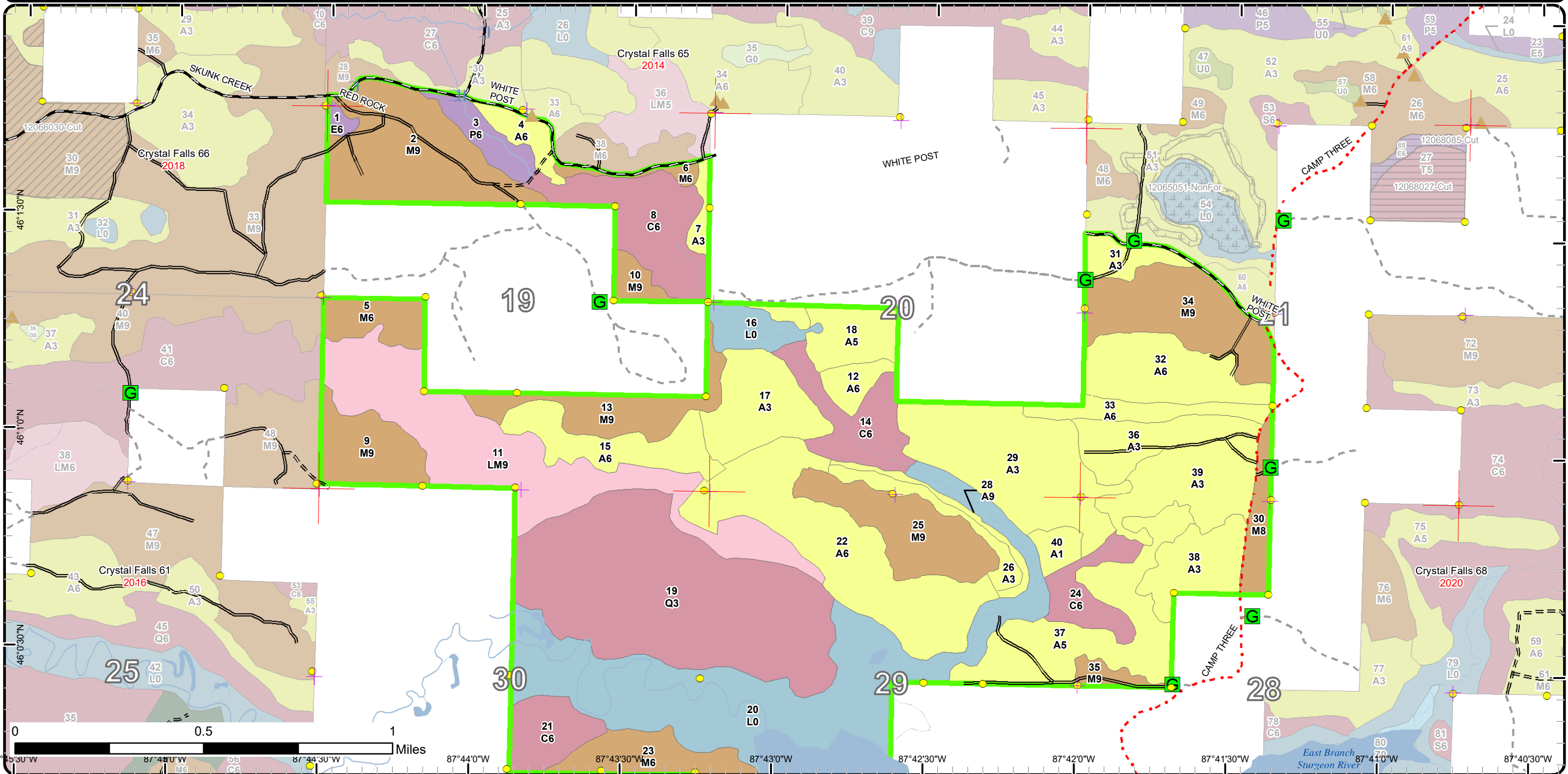


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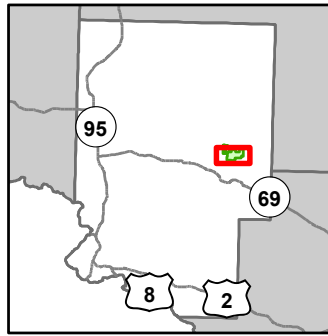


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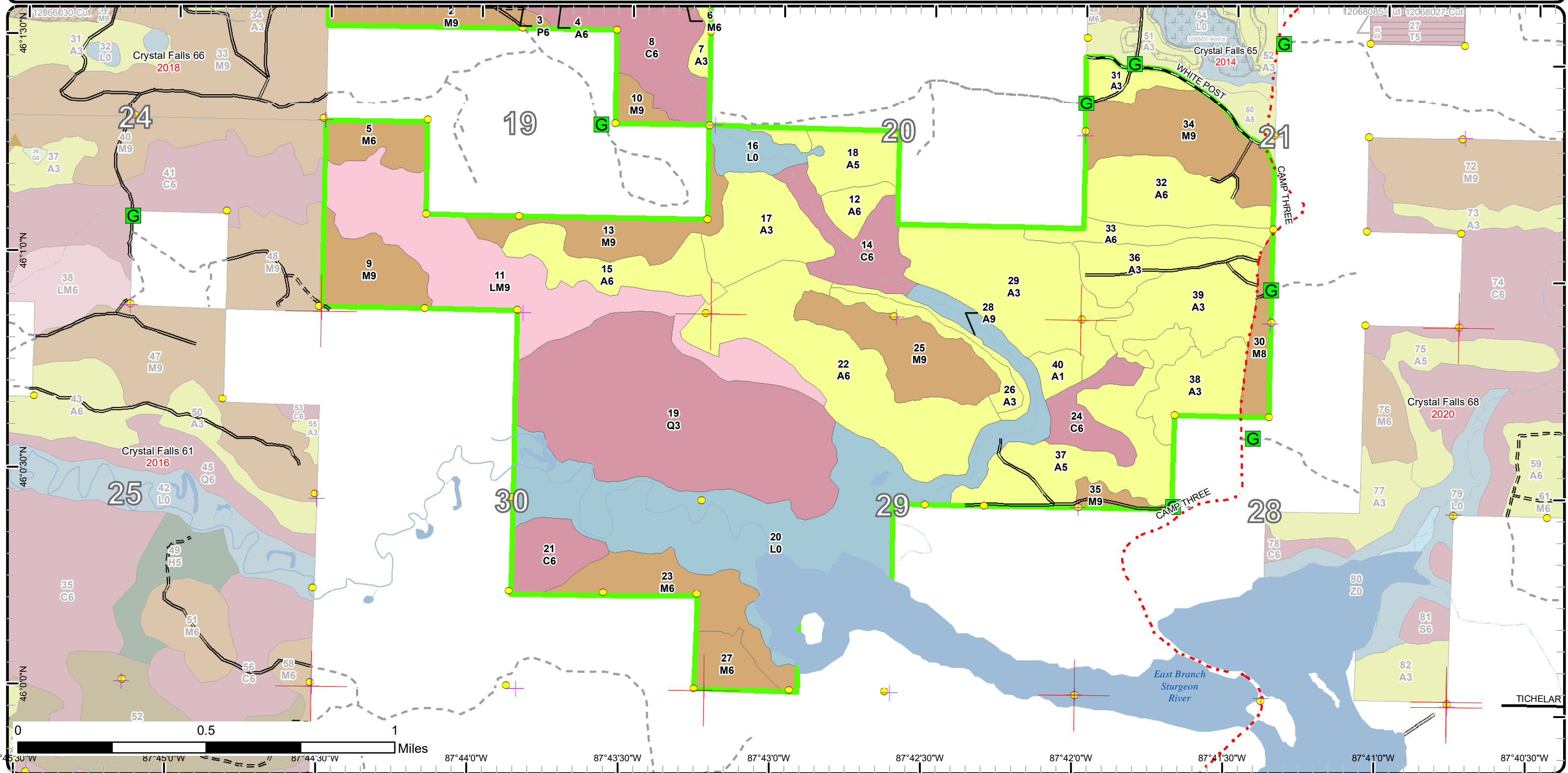


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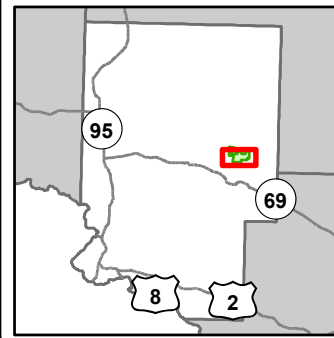


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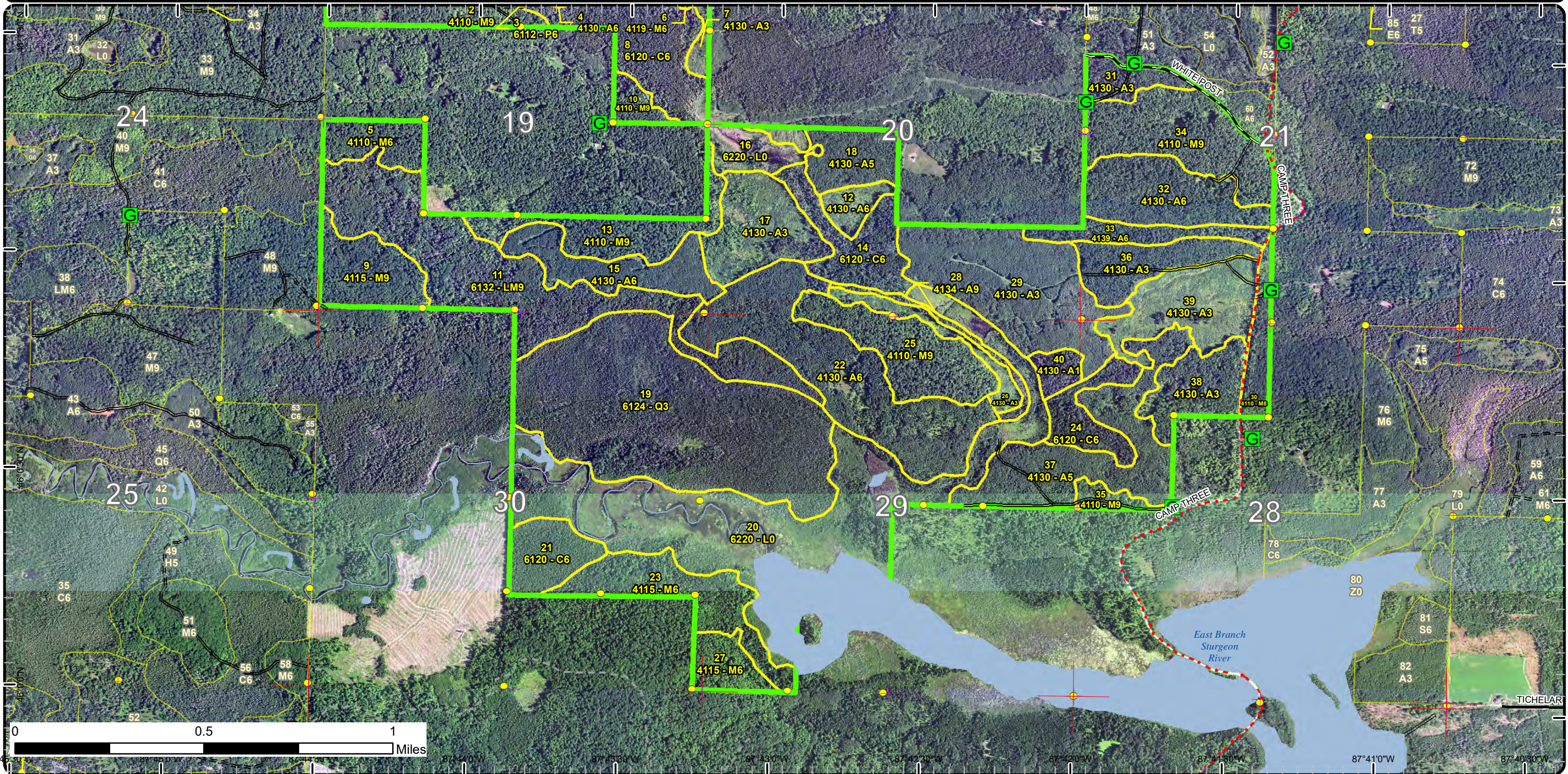


Stand Boundary Map

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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	186	0	118	263	0	0	18	8	0	0	0	0	0	0	0	0	0	593
Cedar	0	0	0	0	0	0	0	0	0	0	0	102	24	0	0	0	0	0	126
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	16
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	184	0	0	0	0	0	0	0	184
Lowland Deciduous	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	120
Lowland Shrub	220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	220
Northern Hardwood	0	0	0	0	0	0	0	0	0	43	319	0	0	0	0	0	0	0	362
Total	220	186	0	118	263	0	0	18	27	43	503	102	24	0	0	0	0	120	1624



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2022

Compartment 67
Total Compartment Acres: 1,622

Acres of Harvest

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

Mgt. Unit

Report 3 -- Treatments

Compartment:

Year of Entry:



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a
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d

Treatment
Name

Acres

Stand
CoverType

Size
Density

Stand
Age

BA
Range

Treatment
Type

Treatment
Method

Cover Type
Objective

Age
Structure

Habitat
Cut

Total Treatment
Acreage Proposed: 0

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Andrew Church : Examiner

Compartment: 67
Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	3H	3J	5E
		With Condition	Not Available				
592	565	0	27	Aspen		18	9
126	0	0	126	Cedar	24	102	
16	0	0	16	Lowland Aspen/Balsam Poplar		16	
184	0	0	184	Lowland Conifers	184		
3	0	0	3	Lowland Deciduous		3	
120	0	0	120	Lowland Mixed Forest	120		
220	220	0	0	Lowland Shrub			
361	361	0	0	Northern Hardwood			
1,622	1,146		475	Total Forested Acres	327	139	9
	71%		29%	Relative Percent			

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

Site No.	Dominant Site Cond 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)	139	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Stream within stands. Also, located in Obligate Deer Wintering complex							
2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	327	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							



Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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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
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1	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	3.2	77	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	35	Log/Pole	10	77	White Spruce	High	Variable	Sapling
Balsam Poplar	10	Log	12					
Balsam Fir	10	Pole	8					
White Spruce	10	Log/Pole	10					
Northern White Cedar	5	Log/Pole	9					
Black Ash	30	Pole	7					

2	4110 - Sugar Maple Association	Sawtimber Well	76.6	93	81-110	N/A	Thinned 2015 with C67 Contract
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	83	Log/XLog	16	93	Sugar Maple	Low	10 - 20 feet	Sapling
Basswood	15	Log/XLog	16		Ironwood	Medium	< 5 feet	Sapling
Hemlock	2	XLog/Log	18					

3	6112 - Lowland Aspen	Poletimber Well	15.6	76	81-110	N/A	Stream within stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole/Log	10		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	10	Log	12		White Spruce	Low	Variable	Sapling
Balsam Poplar	35	Log/Pole	12	76	Tag Alder	Low	< 5 feet	Tall Shrub
Balsam Fir	15	Pole/Sapling	6					
White Spruce	20	Pole/Log/Sap	8					
Black Ash	10	Pole	8					

4	4130 - Aspen	Poletimber Well	12.1	38	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Pole/Sapling	6	38	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	10	Sapling/Pole	4					

5	4110 - Sugar Maple Association	Poletimber Well	19.4	93	81-110	N/A	Thinned 2015 with C67 Contract sale
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log/Pole	10	93	Sugar Maple	Low	10 - 20 feet	Sapling
Basswood	30	Log/Pole	12		Ironwood	Low	10 - 20 feet	Sapling
Quaking Aspen	8	Log	12					
Balsam Poplar	2	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	4119 - Mixed Northern Hardwoods	Poletimber Well	5.8	93	81-110	N/A	Thinned 2015 with C67 Contract sale
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	45	Pole/Log	9	93
Basswood	30	Log/Pole	11	
Quaking Aspen	15	Log	12	
Northern White Cedar	5	Pole	9	
Hemlock	5	Log/Pole	10	

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

7	4130 - Aspen	Sapling Well	6.0	8	Unspecified	N/A	Harvested 2013 with Compartment 67 Sale #12-019-09-01
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	
Quaking Aspen	80	Sapling	1	8
Balsam Fir	5	Sapling/Pole	1	
White Spruce	5	Sapling/Pole	1	

Sub-Canopy Species	Density	Avg. Height	Size
Bracken Fern	Medium	Unspecified	Non-Wood

8	6120 - Lowland Cedar	Poletimber Well	49.1	107	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	8	
Yellow Birch	5	Log/Pole	10	
Paper Birch	5	Pole/Log	9	
Balsam Poplar	5	Log	14	
Balsam Fir	15	Pole	8	
White Spruce	5	Log/Pole	10	
Northern White Cedar	50	Pole/Log	9	107
Tamarack	10	Pole/Log	9	

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

9	4115 - Y.Birch, Hemlock NH	Sawtimber Well	31.6	93	81-110	N/A	Thinned 2015. Thin lowland depression in middle of stand running NW-SE.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	45	Log/Pole	10	93
Yellow Birch	20	Log/Pole	12	
Basswood	30	Log/Pole	12	
Northern White Cedar	3	Log/Pole	10	
Black Ash	2	Pole/Sapling	8	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	Variable	Sapling

10	4110 - Sugar Maple Association	Sawtimber Well	8.5	91	81-110	N/A	Thinned 2012
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	65	Pole/Log	10	91
Yellow Birch	3	Pole/Log	10	
Basswood	32	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
11	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	119.6	107	Unspecified	N/A	There are several upland maple/aspen ridges within this stand. An intermittent drainage flows between/within this stand and maple stand to south. Cedar was aged.																																																															
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16	6220 - Alder/willow	Nonstocked	15.7		Unspecified	No																																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
17	4130 - Aspen	Sapling Well	40.7	8	Unspecified	N/A	Harvested 2013 with Compartment 67 Sale																																															
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18	4130 - Aspen	Poletimber Medium	22.9	39	Unspecified	N/A	Not fully stocked due to windstorm in 2017.																																															
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19	6124 - Lowland Spruce-Fir	Sapling Well	183.7	91	Unspecified	N/A	About half of this stand was cut prior to 1939 and has regenerated but not to size class as would be expected. The southeast portion of the stand is more to cedar and was not harvested.																																															
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20	6220 - Alder/willow	Nonstocked	204.6		Unspecified	No																																																
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22	4130 - Aspen	Poletimber Well	100.5	34	Immature	N/A	Dick's Hill TS closed 1987																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23	4115 - Y.Birch, Hemlock NH	Poletimber Well	43.1	85	51-80	N/A	Red maple & balsam fir mixed in along the fringe of the stand; red maple on north and west side. Aspen removed 1996.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	15	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Red Maple	30	Pole/Log	9	85				
Yellow Birch	15	Log	10					
Basswood	15	Pole/Log	9					
Hemlock	10	Log	12					
Quaking Aspen	15	Sapling/Pole	4	25				

24	6120 - Lowland Cedar	Poletimber Well	20.6	107	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Log	12		Tag Alder	Medium	< 5 feet	Tall Shrub
Balsam Poplar	20	Log	12					
Balsam Fir	5	Pole/Sapling	7					
White Spruce	5	Log/Pole	10					
Northern White Cedar	60	Log/Pole	10	107				
Black Ash	5	Pole	6					

25	4110 - Sugar Maple Association	Sawtimber Well	46.0	93	51-80	N/A	Thinned 2015 with C67 Contract sale. UPDATE: Stand received much storm damage in July 2017; harvested wind damaged trees in fall 2017.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Log/Pole	12	93	Sugar Maple	Low	10 - 20 feet	Sapling
Basswood	30	Log/Pole	12		Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen	20	Log	14		Ironwood	Low	10 - 20 feet	Sapling

26	4130 - Aspen	Sapling Well	13.6	6	Unspecified	N/A	Harvested 2015
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	100	Sapling	1	6	Balsam Fir	Low	Variable	Sapling

27	4115 - Y.Birch, Hemlock NH	Poletimber Well	16.0	93	81-110	N/A	Thinned 2013
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	30	Log/Pole	10	93	Balsam Fir	Low	Variable	Sapling
Red Maple	30	Pole/Log	9					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
28	4134 - Aspen, Spruce/Fir	Sawtimber Well	7.7	75	Unspecified	N/A	Retention/BMP																																																											
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30	4110 - Sugar Maple Association	Sawtimber Medium	15.7	95	51-80	N/A	Due to windstorm, trees salvaged in 2017. Lowland drain in middle of stand.																																																											
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31	4130 - Aspen	Sapling Well	13.5	4	Immature	N/A	Stand was cut in fall 2017-winter 2018 due to wind storm damage July 17, part of White Post Pileup TS.																																																											
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32	4130 - Aspen	Poletimber Well	44.8	37	Unspecified	N/A	Harvested 1984																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
33	4139 - Aspen, Mixed Deciduous	Poletimber Well	17.9	61	Unspecified	N/A																																						
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34	4110 - Sugar Maple Association	Sawtimber Well	56.8	93	81-110	N/A	Thinned 2015. The west half of this stand had wind damaged trees from a storm in July 2017 that were salvaged in fall 2017.																																					
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35	4110 - Sugar Maple Association	Sawtimber Well	7.0	93	81-110	N/A	Damaged trees salvaged from storm damage in July 2017																																					
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36	4130 - Aspen	Sapling Well	29.0	4	Immature	N/A	Salvaged in 2017 due to severe windstorm damage.																																					
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37	4130 - Aspen	Poletimber Medium	68.4	36	Unspecified	N/A	Harvested 1985. Stand was partially harvested, removing damaged trees only in 2017. Resulting stand is not fully stocked.																																					
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40	4130 - Aspen	Sapling Poor	8.1	4	Immature	N/A	Stand was severely damaged in 2017 windstorm.																																					