



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12174

Entry Year 2024

Acreage: 1,143

County Iron

Management Area: Peavy Moraine

Stand Examiner: Scott Sebero

Legal Description:

T41N, R31W, Sections: 9, 14, 15, 16, 22, 23, 24, 25.

Identified Planning Goals:

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

Soil and topography:

Land is nearly level to hilly with a mix of Sarona soils that are excessively drained to well-drained, loamy and sandy soils on ground moraines and end moraines and Cathro soils that are irregular depressions within these moraines that are poorly drained black muck.

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

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

Unique Natural Features:

Menominee River is the southern border of this compartment. Green Acres Creek and First Creek.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Waterbodies include the Menominee River and multiple unnamed tributaries and First Creek. First Creek and one of the unnamed tributaries are designated Type 1 trout streams and 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. Any non-designated trout water body should have a 100 foot buffer.

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 two miles to the southeast. Bedrock is at or very near the surface in places across the compartment. Potential for sand & gravel is good on uplands where glacial deposits overlie bedrock. The surficial geology has not been mapped in detail here. No known ground-based mineral exploration has occurred within the compartment or nearby vicinity, and no known potential for iron ore exists beneath the compartment. 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. The nearest active state leases are just over two miles northeast. 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:

Access for the compartment is blocked by private property. An easement for access has been obtained from WE Energies. This access needs to be developed and is planned to be done as part of a timber sale for the 2024 entry year. Access will be from Lower Dam Road. Access for the far east part of the compartment is through private property off Peterson Road in SW Dickinson County.

Survey Needs:

Recreational Facilities and Opportunities:

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

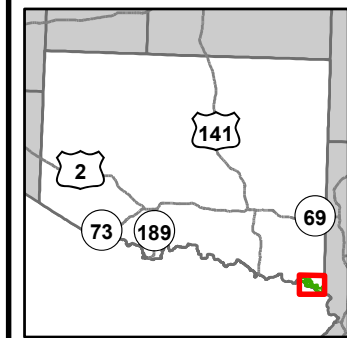
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

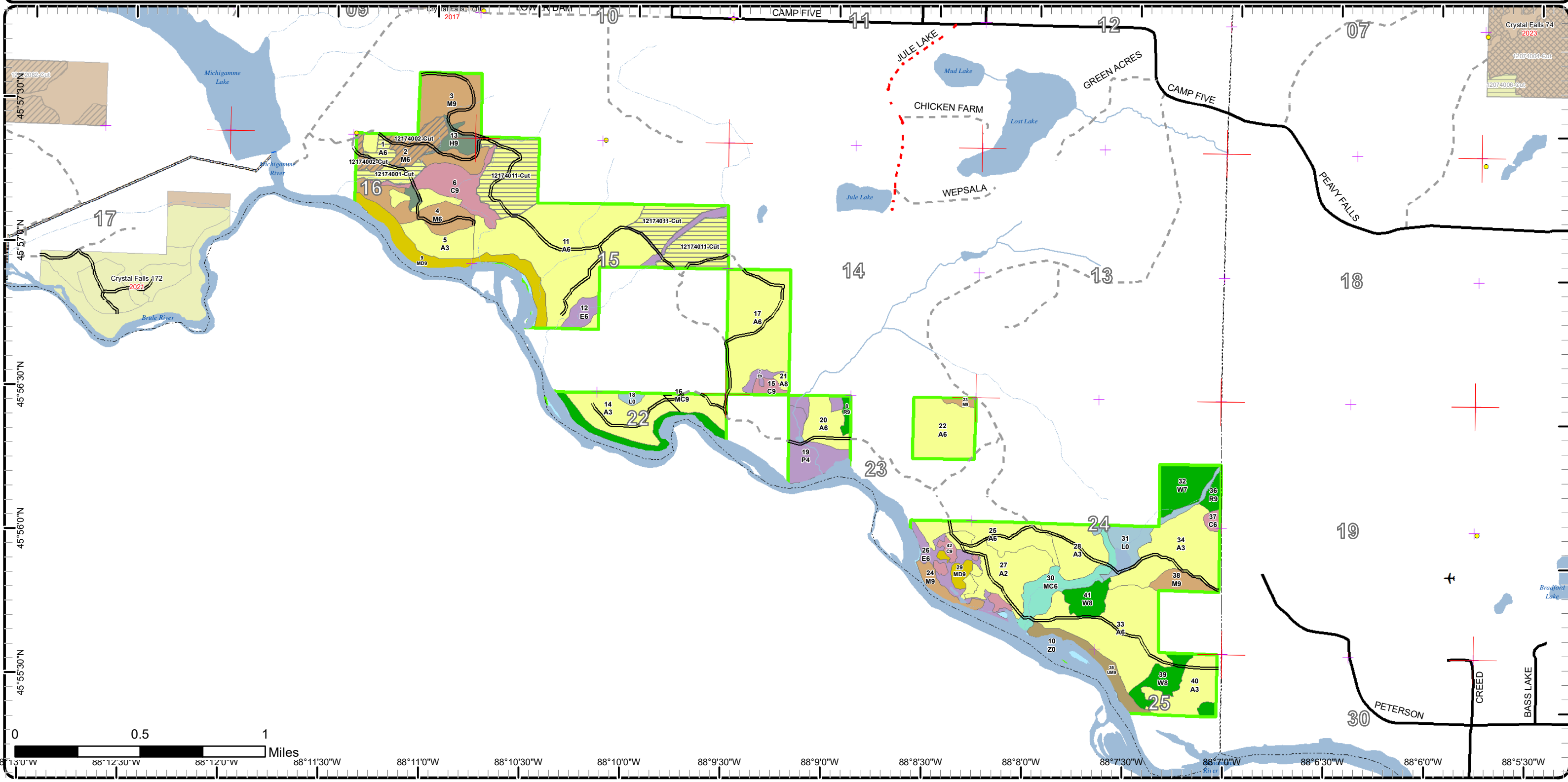
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 174
 T41N, R31W, Sec. 9, 14-16, 22-25
 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Peavy Moraine
 YOE: 2024
 Acres: 1142.6 GIS Calculated
 Examiner: Scott Sebero
 Map Revised: 11/18/2022
 Map Phase: Post-Review

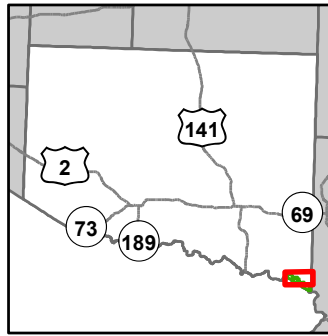


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub

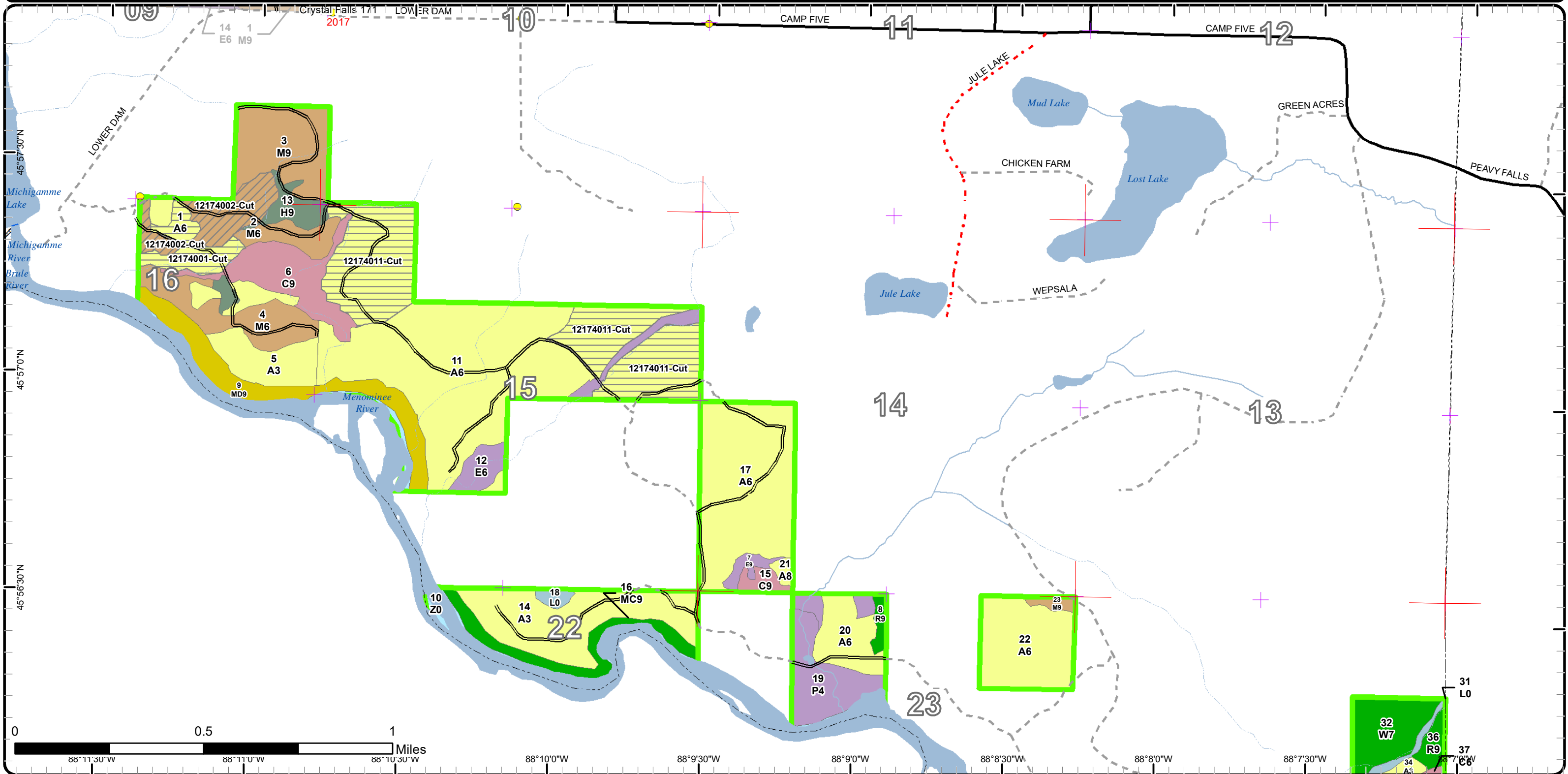


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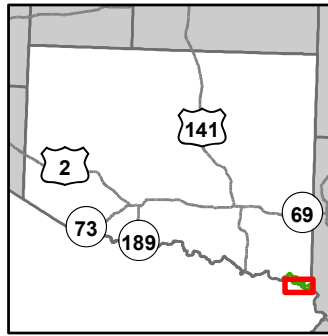


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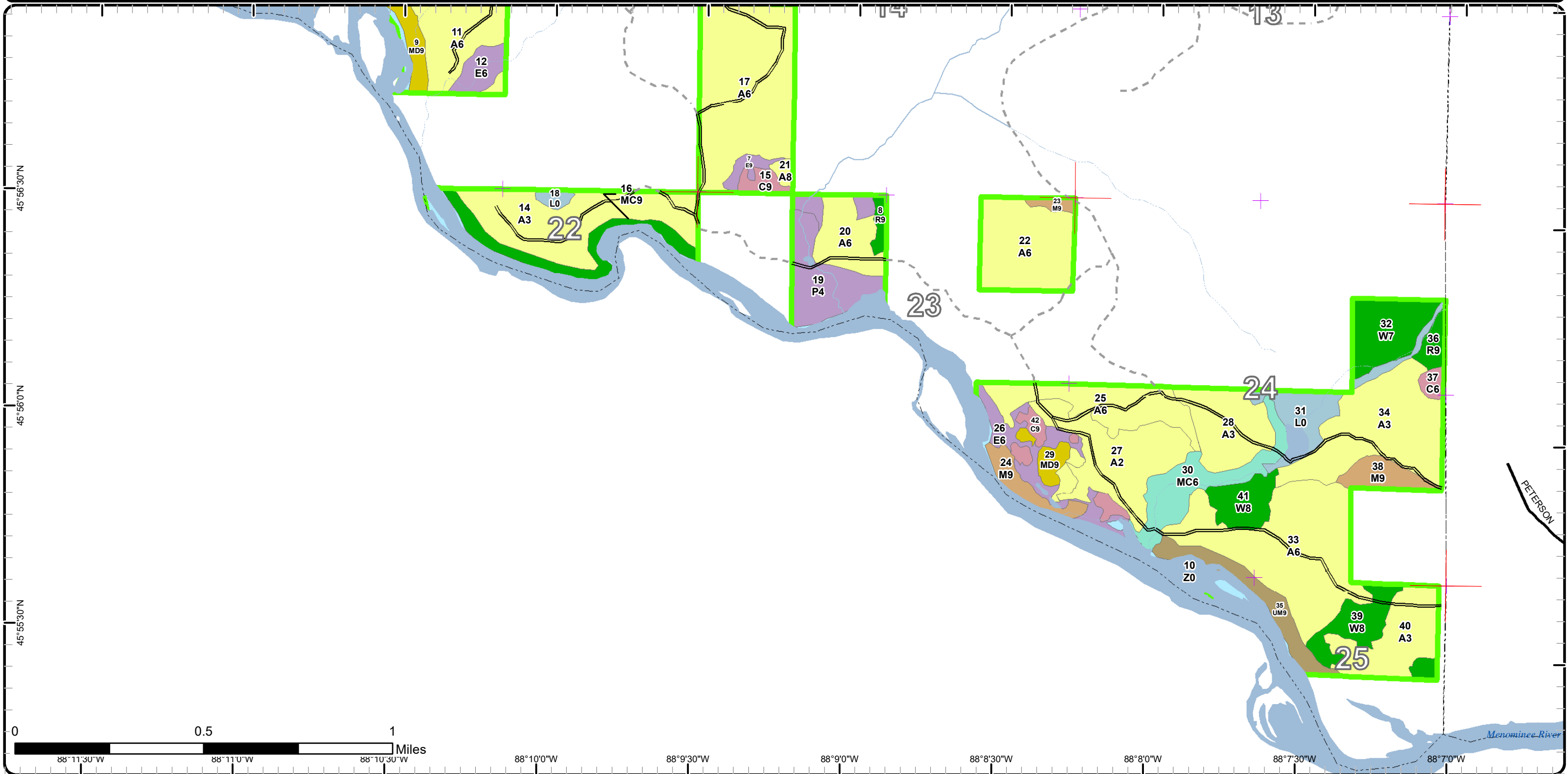


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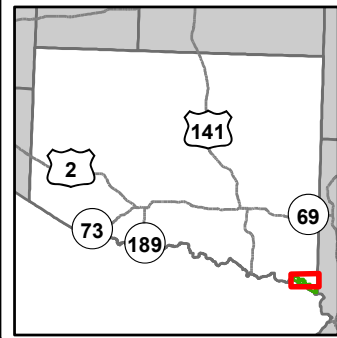


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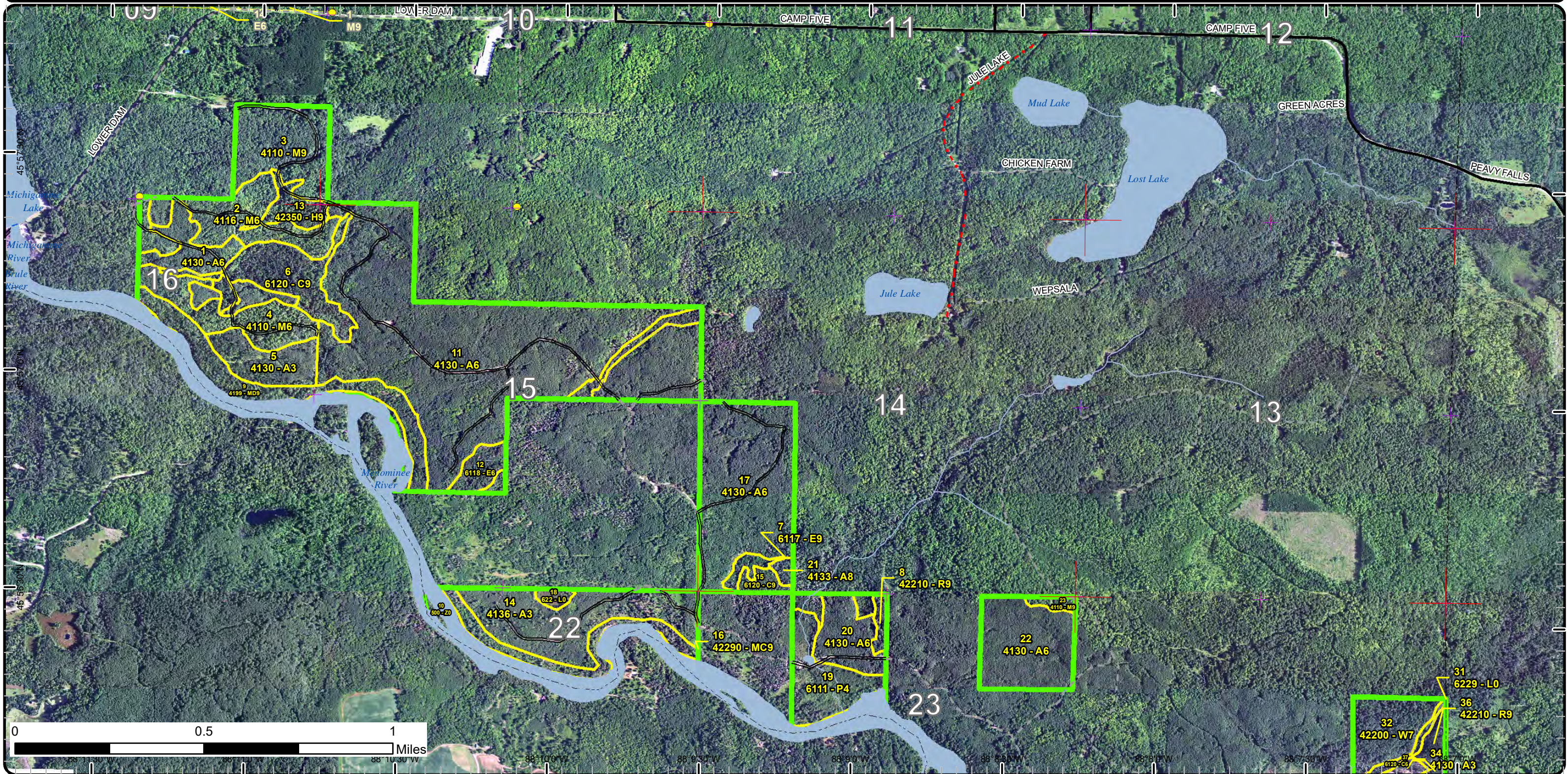


Stand Boundary Map

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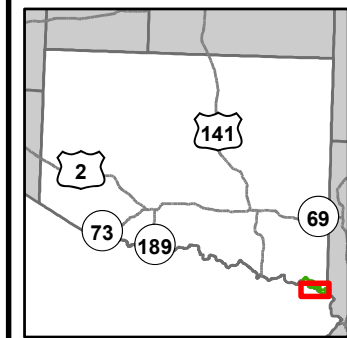


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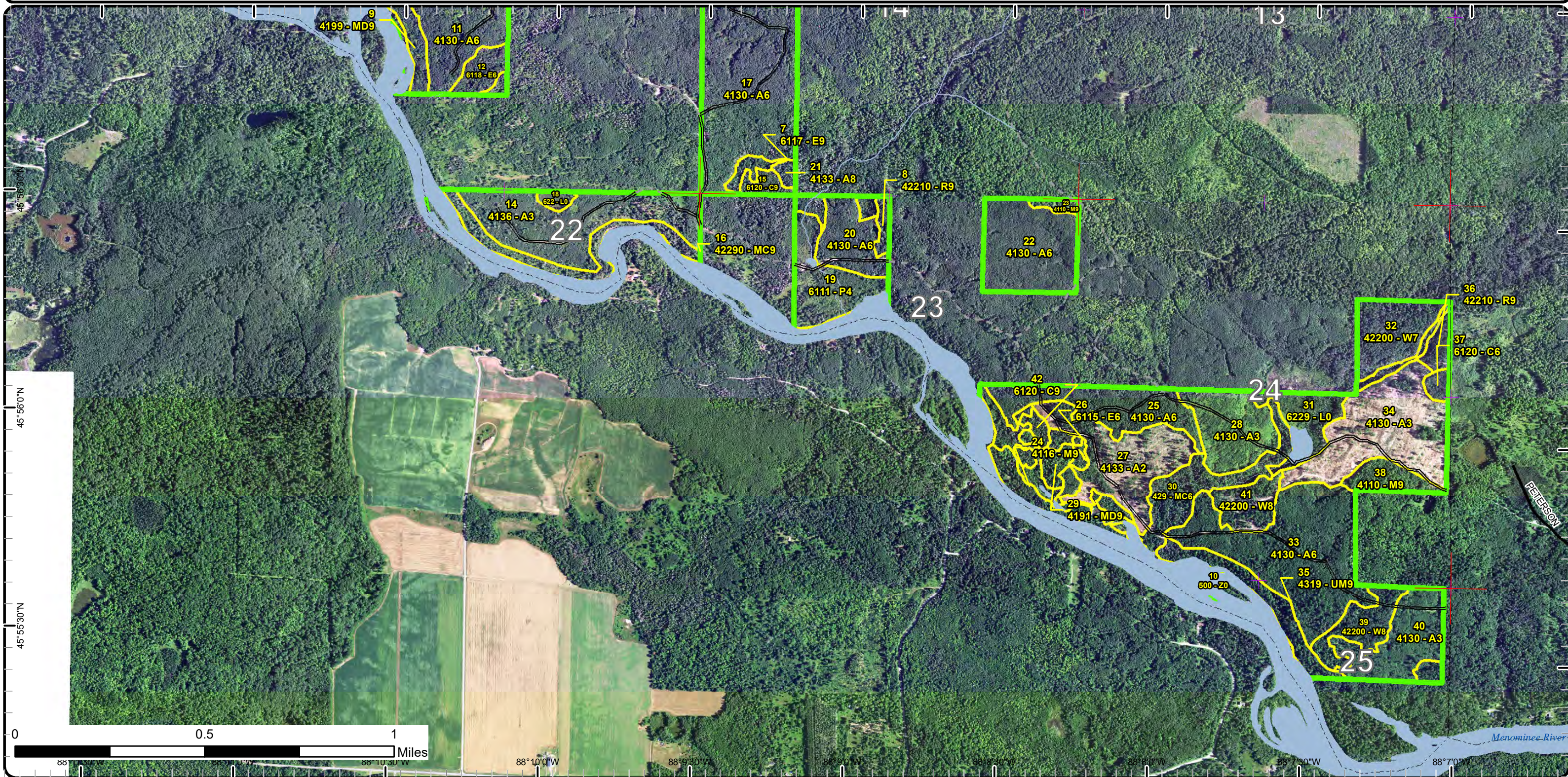


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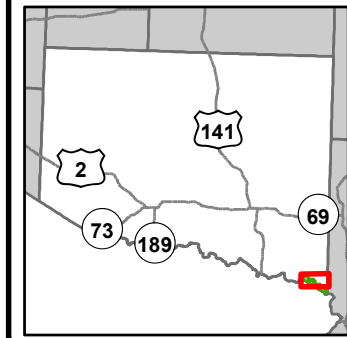


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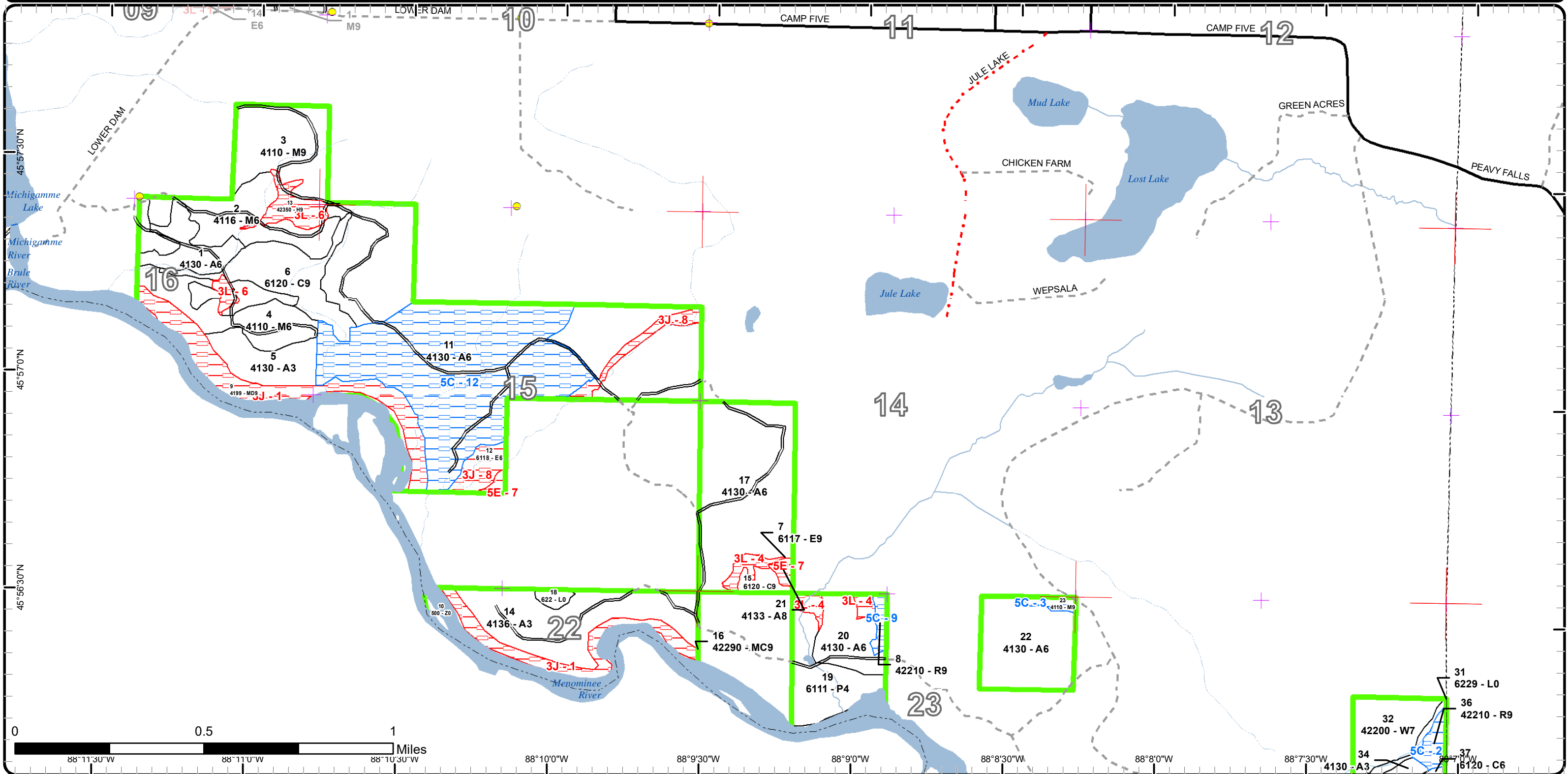


Special Conservation Areas

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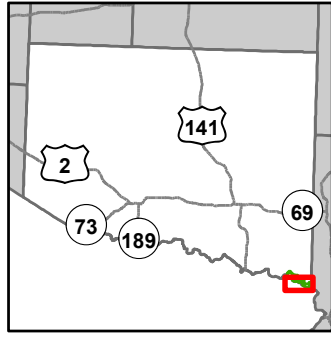


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- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes

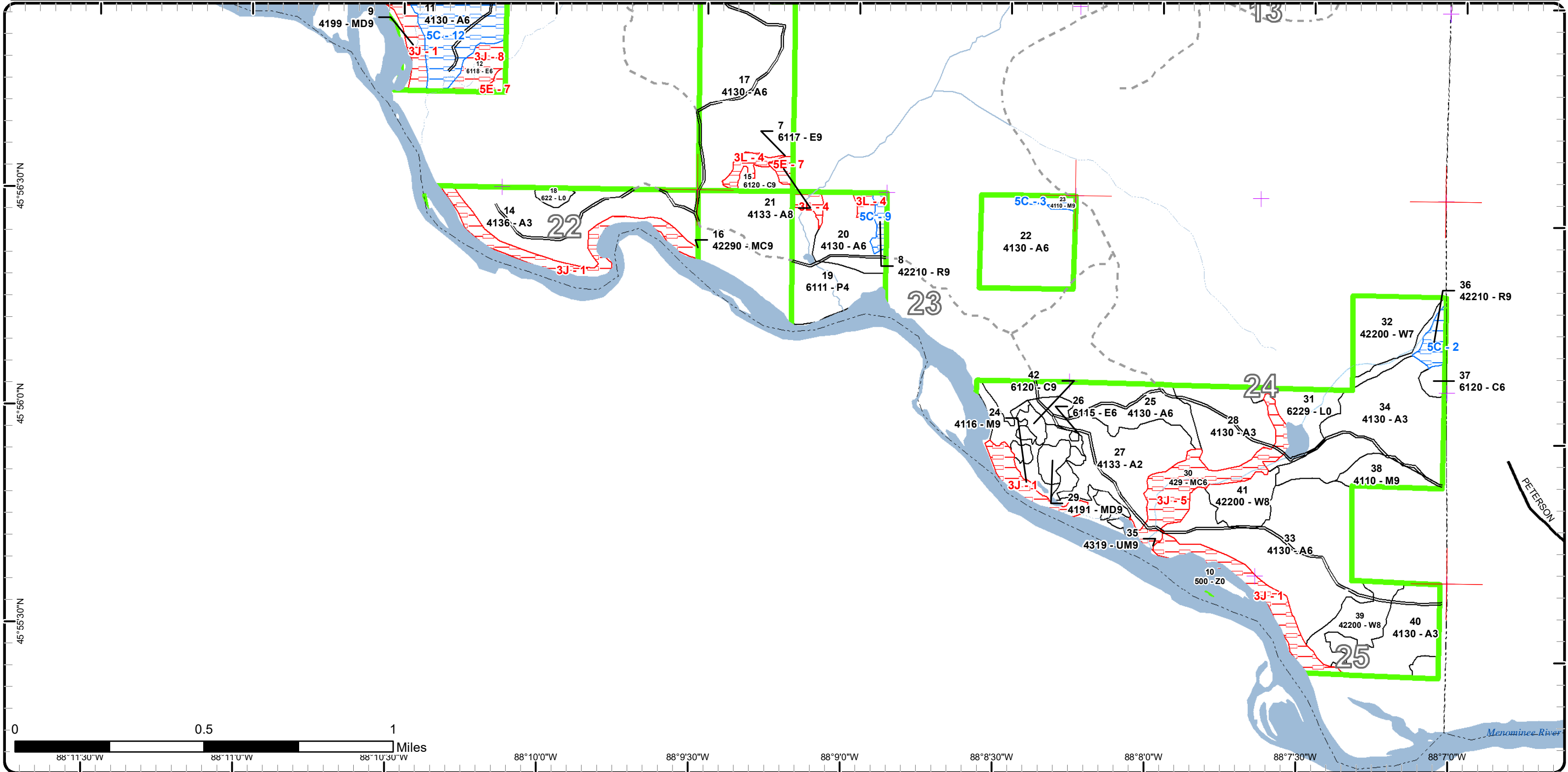


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Report 1 – Total Acres by Cover Type and Age Class



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	88	130	0	226	210	14	0	0	0	4	0	0	0	0	0	0	0	672
Cedar	0	0	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	41
Hemlock	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	11
Lowland Aspen/Balsam Poplar	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Deciduous	0	0	0	0	0	0	0	0	30	0	8	0	0	0	0	0	0	0	38
Lowland Shrub	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	37
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	17
Northern Hardwood	0	0	0	0	0	0	32	0	0	0	81	0	0	0	0	0	0	0	113
Red Pine	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	8
Upland Conifers	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	24
Upland Mixed Forest	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	16
Water	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
White Pine	0	0	0	0	0	0	0	0	0	0	51	0	0	0	0	0	0	0	51
Total	89	88	130	0	226	234	46	0	46	0	282	0	0	0	0	0	0	0	1141



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2024

Compartment 174
Total Compartment Acres: 1,143

Acres of Harvest

Commercial Harvest - 125
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	104	0	0	0	0	0	0	0	0	104
Northern Hardwood	0	0	0	0	21	0	0	0	0	21
Total	104	0	0	0	21	0	0	0	0	125

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	125	0	0	0	0	0	0	0	0	125
Next Step	0	0	0	0	0	104	0	0	0	104
Total	125	0	0	0	0	104	0	0	0	229



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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Approved Treatments:

1	12174001-Cut	14.4	4130 - Aspen	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and mixed hardwood 2" DBH or greater, except oak. Cut all spruce and balsam with two or more pulpwood sticks. No cedar, hemlock, oak or pine will be 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> Mix of aspen, spruce, balsam, hardwood and pine.</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 /2023</p>											
2	12174002-Cut	21.4	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	50	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Mark to 70 BA, marking aspen first. No cedar, hemlock, oak or pine will be marked.</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 /2023</p>											
11	12174011-Cut	89.3	4130 - Aspen	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and mixed hardwood 2" DBH or greater, except oak. Cut all spruce and balsam with two or more pulpwood sticks. No cedar, hemlock, oak or pine will be cut. Buffer streams 100 foot.</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> Mix of aspen, hardwood, spruce, balsam and pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> 100 foot buffer on streams in each of the blocks being harvested.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											

Total Treatment 125.1
Acreage Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 174

Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	3J	3L	5E
		With Condition	Not Available					
673	549	121	4	Aspen	121			4
41	41	0	0	Cedar				
11	0	0	11	Hemlock			11	
24	24	0	0	Lowland Aspen/Balsam Poplar				
39	16	0	23	Lowland Deciduous		15	8	
22	22	0	0	Lowland Shrub				
37	5	0	32	Mixed Upland Deciduous		32		
17	0	0	17	Natural Mixed Pines		17		
112	101	3	9	Northern Hardwood	3	9		
8	0	8	0	Red Pine	8			
24	0	0	24	Upland Conifers		24		
16	0	0	16	Upland Mixed Forest		16		
67	67	0	0	Water				
51	51	0	0	White Pine				
1,143	876	132	135	Total Forested Acres	132	112	19	4
	77%	12%	12%	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)	74	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for Menominee River.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Thinned last entry. Small acreage. Will look at in future when cutting stand 33.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 174

Year of Entry: 2024

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Will thin at next entry or when adjacent aspen stand is cut. Small acreage, low BA.							
4	Unavailable	3L: Other wildlife concerns	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Bear.							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for First Creek.							
6	Unavailable	3L: Other wildlife concerns	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer.							
7	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for Green Acres Creek.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Compartment: 174

Scott Sebero : Examiner

Year of Entry: 2024

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Small acreage. Will cut when adjacent aspen stand is cut.</p>							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	121	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Break up large stand. Add age class diversity.</p>							

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 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		
1	4130 - Aspen	Poletimber Well	14.4	50	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		30	Pole/Log/Sap	8	50	White Spruce	Low	Variable	Sapling
Quaking Aspen		60	Pole/Log/Sap	8	50				
Sugar Maple		10	Pole/Sapling	6					
2	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	31.5	50	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		70	Pole/Log/Sap	8	50	White Spruce	Low	Variable	Sapling
Quaking Aspen		20	Pole/Log/Sap	8	50				
Bigtooth Aspen		10	Pole/Log/Sap	8	50				
3	4110 - Sugar Maple Association	Sawtimber Well	34.3	90	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		25	Log/Pole	12	90	White Spruce	Low	Variable	Sapling
Yellow Birch		5	Log/Pole	12	90				
Sugar Maple		70	Log/Pole/Sap	12	90				
4	4110 - Sugar Maple Association	Poletimber Well	25.3	90	81-110	N/A	Rocky hill top.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		75	Log/Pole/Sap	10	90	White Spruce	Low	Variable	Sapling
White Spruce		5	Pole/Log/Sap	10					
Basswood		10	Log/Pole	12	90				
Yellow Birch		5	Log/Pole	10	90				
Quaking Aspen		5	Log/Pole/Sap	10					
5	4130 - Aspen	Sapling Well	28.9	15	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		90	Sapling	2	15	White Spruce	Low	Variable	Sapling
White Spruce		5	Sapling	1	15				
Sugar Maple		5	Pole/Sapling	6					
6	6120 - Lowland Cedar	Sawtimber Well	26.9	90	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		75	Log/Pole	12	90	Black Spruce	Low	Variable	Sapling
Quaking Aspen		5	Log/Pole/Sap	10					
White Spruce		5	Log/Pole/Sap	12					
Red Maple		5	Log/Pole	12					
Black Spruce		10	Log/Pole/Sap	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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7	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	8.3	90	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	20	Log/Pole/Sap	10	
Northern White Cedar	10	Log/Pole	12	
Black Ash	50	Log/Pole/Sap	10	90
Black Spruce	20	Pole/Log/Sap	8	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	Variable	Sapling

8	42210 - Natural Red Pine	Sawtimber Well	3.2	90	141-170	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	5	Pole/Log/Sap	6	
Red Pine	65	Log/Pole/Sap	14	90
White Pine	30	Log/Pole/Sap	16	90

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	Variable	Sapling

9	4199 - Other Mixed Upland Deciduous	Sawtimber Well	31.7	90	81-110	N/A	Buffer strip along Menominee River.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	5	Log/Pole/Sap	12	90
Red Maple	10	Log/Pole/Sap	10	
White Oak	50	Log/Pole/Sap	10	90
Quaking Aspen	10	Log/Pole/Sap	12	
White Spruce	5	Log/Pole/Sap	10	
White Pine	10	Log/Pole/Sap	16	
Basswood	10	Log/Pole	12	90

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	Variable	Sapling
Willow spp.	Low	Variable	Sapling

10	500 - Water	Nonstocked	66.9		Unspecified	No	Menominee River
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11	4130 - Aspen	Poletimber Well	210.2	44	81-110	N/A	Menominee River Block. #7-75A
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log/Pole/Sap	14	
Sugar Maple	5	Pole/Sapling	8	
Bigtooth Aspen	30	Pole/Sapling	8	44
Balsam Poplar	5	Pole	8	44
White Spruce	5	Pole/Sapling	6	
Quaking Aspen	50	Pole/Log/Sap	8	44

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	Variable	Sapling

12	6118 - Lowland Deciduous with Cedar	Poletimber Well	14.5	70	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	60	Pole/Log/Sap	8	70
Black Spruce	10	Log/Pole/Sap	10	
Northern White Cedar	30	Log/Pole	10	

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
13	42350 - Upland Hemlock	Sawtimber Well	11.1	90	111-140	N/A																																											
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14	4136 - Aspen, Mixed Conifer	Sapling Well	48.5	15	Immature	N/A																																											
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15	6120 - Lowland Cedar	Sawtimber Well	4.3	90	141-170	N/A																																											
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16	42290 - Natural Mixed Pine	Sawtimber Well	17.2	90	81-110	N/A	Buffer along Menominee River.																																										
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17	4130 - Aspen	Poletimber Well	70.4	37	51-80	N/A	Jule Lake Sale. 4-84 SWSW corner of stand cut in 1976. #24-76																																										
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Sub-Canopy Species	Density	Avg. Height	Size																																														
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18	622 - Lowland Shrub	Nonstocked	2.6	0	Unspecified	No																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19	6111 - Lowland Balsam Poplar	Poletimber Poor	23.8	40	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		20	Pole/Sapling	6	40	Dogwood (spp.)	Low	5 - 10 feet	Tall Shrub
Balsam Poplar		70	Pole/Sapling	6	40	Willow spp.	Medium	5 - 10 feet	Tall Shrub
Black Ash		10	Pole/Sapling	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub

20	4130 - Aspen	Poletimber Well	17.9	35	51-80	N/A	Green Acres Creek Sale. 37-84		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		5	Pole/Sapling	5	35	White Spruce	Low	Variable	Sapling
White Spruce		10	Pole/Sapling	5	35				
Bigtooth Aspen		25	Pole/Sapling	6	35				
Quaking Aspen		60	Pole/Sapling	6	35				

21	4133 - Aspen, Mixed Pine	Sawtimber Medium	3.6	90	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce		5	Log/Pole/Sap	10		Balsam Fir	Low	Variable	Sapling
Red Maple		10	Log/Pole/Sap	10	90				
Paper Birch		10	Log/Pole	10	90				
Quaking Aspen		55	Log/Pole/Sap	12	90				
White Pine		20	Log/Pole/Sap	16					

22	4130 - Aspen	Poletimber Well	36.5	35	51-80	N/A	Sale # 2-84		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		10	Pole/Sapling	5	35	Balsam Fir	Low	Variable	Sapling
White Spruce		5	Pole/Sapling	5	35				
Quaking Aspen		40	Pole/Sapling	6	35				
Bigtooth Aspen		45	Pole/Sapling	6	35				

23	4110 - Sugar Maple Association	Sawtimber Well	2.6	90	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		5	Log/Pole	16		Leatherwood	Low	5 - 10 feet	Tall Shrub
Sugar Maple		90	Log/Pole/Sap	14	90				
Yellow Birch		5	Log/Pole	16					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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24 4116 - Mixed N. Hardwood - Aspen Sawtimber Well 8.7 90 81-110 N/A Buffer for Menominee River.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Log/Pole/Sap	10		White Spruce	Low	Variable	Sapling
White Spruce	10	Log/Pole/Sap	10					
Basswood	30	Log/Pole	12	90				
White Pine	5	Log/Pole/Sap	16					
Paper Birch	5	Log/Pole	10					
Red Maple	30	Log/Pole/Sap	10	90				

25 4130 - Aspen Poletimber Well 32.6 35 51-80 N/A First Creek North Sale 39-84

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10	Pole/Sapling	5	35	White Spruce	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	5	35				
Bigtooth Aspen	35	Pole/Sapling	6	35				
Quaking Aspen	50	Pole/Sapling	6	35				

26 6115 - Lowland Ash Poletimber Well 15.9 70 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log/Pole/Sap	12		Black Spruce	Low	Variable	Sapling
Quaking Aspen	5	Log/Pole/Sap	10					
Black Spruce	10	Log/Pole/Sap	10					
Northern White Cedar	10	Log/Pole	10					
Black Ash	70	Pole/Log/Sap	8	70				

27 4133 - Aspen, Mixed Pine Sapling Medium 38.4 6 Immature N/A Sheep Wire t-sale. Pockets of shrubs with few saplings. White pine log trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Log/Pole/Sap	14		Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub
White Spruce	10	Sapling	1	6				
Quaking Aspen	70	Sapling	1	6				

28 4130 - Aspen Sapling Well 25.7 15 Immature N/A Spiny Aspen t-sale. 52-04

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Sapling	2	15	Balsam Fir	Low	Variable	Sapling
White Spruce	10	Sapling	2	15	Blackberry/Raspberry	Low	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 5.3 90 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	20	Log/Pole/Sap	12	90	White Spruce	Low	Variable	Sapling
Basswood	10	Log/Pole	12	90				
Red Maple	30	Log/Pole/Sap	12	90				
Paper Birch	5	Log/Pole	10	90				
Sugar Maple	10	Pole/Log/Sap	8					
White Spruce	5	Log/Pole/Sap	12					
White Pine	20	Log/Pole/Sap	16					

30 429 - Mixed Upland Conifers Poletimber Well 23.5 90 81-110 N/A Steep hill down to creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	25	Log/Pole/Sap	10	90	White Spruce	Low	Variable	Sapling
Balsam Fir	10	Pole/Sap/Log	8					
White Spruce	30	Log/Pole/Sap	10	90				
Red Maple	5	Log/Pole/Sap	10	90				
White Pine	25	Log/Pole/Sap	12	90				
Red Pine	5	Log/Pole/Sap	12	90				

31 6229 - Mixed lowland shrub Nonstocked 19.7 Unspecified No Lowland associated with First Creek.

32 42200 - Natural White Pine Sawtimber Poor 21.3 90 1-50 N/A Sheep Wire t-sale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	70	Log/Pole/Sap	16	90	White Spruce	Medium	Variable	Sapling
Red Pine	30	Log/Pole/Sap	14	90	Quaking Aspen	Medium	5 - 10 feet	Sapling

33 4130 - Aspen Poletimber Well 68.8 34 51-80 N/A First Creek South Sale. 39-84

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Pole/Sapling	5	34	Red Pine	Low	Variable	Sapling
White Pine	10	Log/Pole/Sap	14		White Pine	Low	Variable	Sapling
Bigtooth Aspen	20	Pole/Sapling	6	34				
Quaking Aspen	65	Pole/Sapling	5	34				

34 4130 - Aspen Sapling Well 50.4 6 Immature N/A Sheep Wire t-sale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	65	Sapling	1	6	White Spruce	Low	Variable	Sapling
Bigtooth Aspen	30	Sapling	1	6	Red Pine	Low	5 - 10 feet	Sapling
Red Pine	5	Log/Pole/Sap	16					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
35	4319 - Mixed Upland Forest	Sawtimber Well	16.4	70	81-110	N/A	Steep hill down to river.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		5	Log/Pole/Sap	10	70	White Spruce	
Red Pine		20	Log/Pole/Sap	14	90	Low	
White Pine		25	Log/Pole/Sap	16	90	Variable	
Basswood		10	Log/Pole	12	70	Sapling	
Quaking Aspen		5	Log/Pole/Sap	10	70		
Red Oak		10	Log/Pole	12	70		
Sugar Maple		25	Log/Pole	10	70		
36	42210 - Natural Red Pine	Sawtimber Well	5.1	90	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		95	Log/Pole/Sap	14	90	Balsam Fir	
White Pine		5	Log/Pole/Sap	16	90	Low	
						10 - 20 feet	
						Sapling	
						Variable	
						Sapling	
						Low	
						Variable	
						Sapling	
						Low	
						Variable	
						Sapling	
37	6120 - Lowland Cedar	Poletimber Well	3.0	90	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		60	Log/Pole	10	90	Tag Alder	
White Pine		10	Log/Pole/Sap	12		Low	
Tamarack		10	Log/Pole/Sap	10		5 - 10 feet	
Black Spruce		20	Pole/Log/Sap	8		Tall Shrub	
38	4110 - Sugar Maple Association	Sawtimber Well	9.8	90	81-110	N/A	Sheep Wire t-sale.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		70	Log/Pole/Sap	10	90	Leatherwood	
Basswood		20	Log/Pole	12	90	Medium	
Red Maple		10	Log/Pole/Sap	10		< 5 feet	
						Tall Shrub	
						Bigtooth Aspen	
						Medium	
						5 - 10 feet	
						Sapling	
39	42200 - Natural White Pine	Sawtimber Medium	17.5	90	51-80	N/A	Sheep Wire t-sale.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		40	Log/Pole/Sap	12	90	White Spruce	
White Pine		60	Log/Pole/Sap	16	90	Medium	
						Variable	
						Sapling	
40	4130 - Aspen	Sapling Well	26.7	15	Immature	N/A	Grandpa J t-sale. 51-04
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		40	Sapling	2	15	Blackberry/Raspberry	
Bigtooth Aspen		50	Sapling	2	15	Low	
White Pine		5	Log/Pole/Sap	14		< 5 feet	
White Spruce		5	Sapling	2		Tall Shrub	
						White Pine	
						Low	
						Variable	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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41	42200 - Natural White Pine	Sawtimber Medium	12.6	90	51-80	N/A	Sheep Wire t-sale.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		95	Log/Pole/Sap	12	90	White Spruce	Sapling
Red Pine		5	Log/Pole/Sap	12		Quaking Aspen	Sapling
						Density	Avg. Height
						Low	Variable
						Medium	5 - 10 feet

42	6120 - Lowland Cedar	Sawtimber Well	6.8	90	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		20	Log/Pole/Sap	10		Black Spruce	Sapling
Northern White Cedar		60	Log/Pole	10	90		
Black Ash		10	Pole/Log/Sap	8			
Quaking Aspen		10	Log/Pole/Sap	10			