



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12194

Entry Year 2021

Acreage: 2,031

County Iron

Management Area: Michigamme Reservoir

Revision Date: 2019-07-31

Stand Examiner: Ed Rice

Legal Description:

Dickinson County T44N R30W section 8. Iron County T44N R31W sections 1, 2, 12. T45N R31W sections 34, 35

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue to sustainably balance the aspen age class acres. Get the hardwood stands on a 20 year alternating cutting cycle towards regulation. Protect the riparian areas and transition zones during management activity.

Soil and topography:

The far majority of the compartment is underlaid by sandy loams. Small areas of lowlands have muck soils. Topography is flat to rolling hills.

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

The compartment is contiguous in two blocks, separated by private lands. Large blocks of private ownership border the compartment. Active forest management has occurred and will continue within and surrounding the compartment.

Unique Natural Features:

None identified

Archeological, Historical, and Cultural Features:

None identified

Special Management Designations or Considerations:

None identified

Watershed and Fisheries Considerations:

A short stretch of the Fence River flows along the West side of the compartment. Any aspen management nearby to the Fence should apply the 300 foot minimum stream buffer. Several small ponds are associated, BMPs should be followed. This compartment contains a portion of the Fence River, a type 1 trout stream. For areas <50' in width, 300' buffers area recommended. For areas >50' in width and/or are not susceptible to Aspen regeneration, 100' buffer plus 5' per 1% increase in slope. Threemile Creek is a cold water tributary to the Fence and a type 1 trout stream. 300' buffers are recommended for these waterbodies susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope. Crescent Pond and the outlet (cold transitional stream), Cassagrande Lake and unnamed ponds/wetland areas are also in this compartment. 100' plus 5' per 1% increase in slope buffer.

Wildlife Habitat Considerations:

The compartment is heavily used by wintering deer and considered winter deer range. The portion of the compartment in Dickinson County is heavily used by wintering deer but not within the mapped winter deer range boundary. The mixed conifer and other lowland areas provide critical cover for wintering deer.

Mineral Resource and Development Concerns and/or Restrictions

There appears to be some potential for sand & gravel within the compartment, but there are many wetlands and the water table generally appears to be shallow in this area, which, among other factors, could limit sand & gravel production. Part of the compartment was previously leased for metallic mineral exploration, but no known exploration has occurred in this area. The state does not own all mineral rights within the compartment.

Vehicle Access:

Access is good,

Survey Needs:

Several survey corners are required.

Recreational Facilities and Opportunities:

None

Fire Protection:

The chance for problematic fires in this compartment is fairly low due to the abundance of aspen and hardwood fuel types. Potential equipment access is quite good.

Additional Compartment Information:

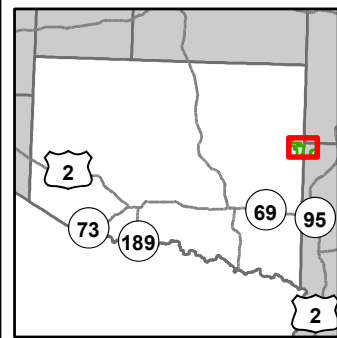
The following reports from the Inventory are attached:

- 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:

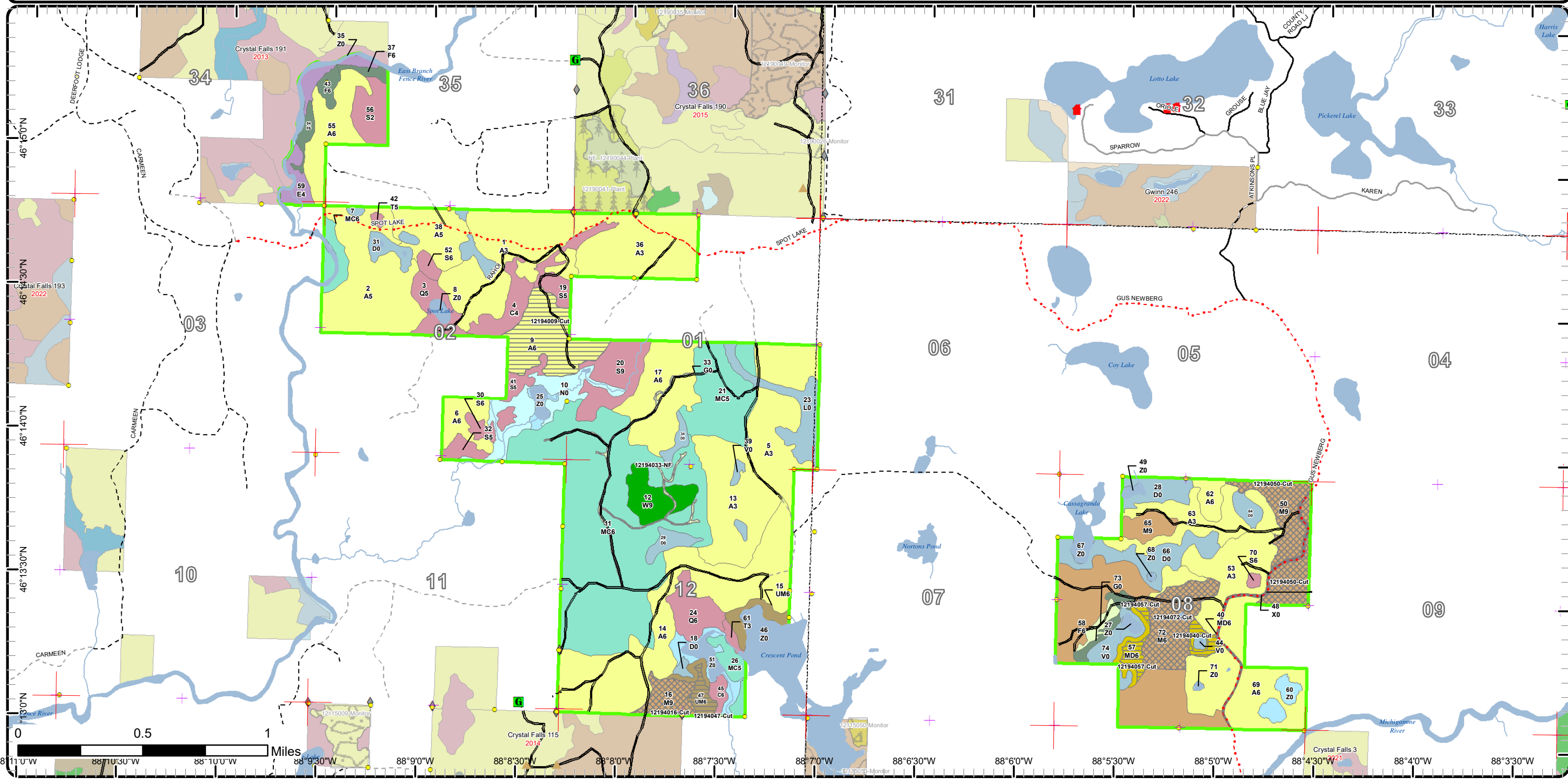
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



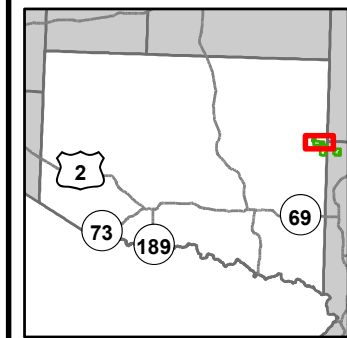
Compartment: 194
 T45N, R31W, Sec. 34, 35
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 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Michigamme
 Reservoir
 YOE: 2021
 Acres: 2,031 GIS Calculated
 Examiner: Ed Rice
 Map Revised: 1/27/2020
 Map Phase: Post-Review

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> — Miris Corners — Remonumented Section Corners ● Survey Grade Corners ◆ Field Grade Corners - - - Counties — DNR - Primary Forest Road — DNR - Secondary Forest Road — Federal / State / County - Paved Road - - - Federal / State - Dirt / Gravel Road - . . . County - Gravel Road - - - County - Dirt Road (Seasonal) — Private - Paved Road - - - Private - Dirt / Gravel Road 🏠 Cabin | <ul style="list-style-type: none"> ▲ Berms Ⓜ Gate — Island in Lake or River — Lake/Pond — Perennial River — Lakes and Rivers ▭ Compartment Boundary ▨ Other Treatment - See Comments ▨ Selection (Group, Single Tree) ▨ Clearcut (w/Reserves) ■ 411 - Northern Hardwood ■ 413 - Aspen ■ 419 - Mixed Upland Deciduous ■ 422 - Natural Pines ■ 423 - Other Upland Conifers | <ul style="list-style-type: none"> ■ 429 - Mixed Upland Conifers ■ 430 - Upland Mixed Forest ■ 611 - Lowland Deciduous Forest ■ 612 - Lowland Coniferous Forest ■ 122 - Roads/Parking Lot ■ 310 - Herbaceous Openland ■ 500 - Water ■ 622 - Lowland Shrub ■ 623 - Emergent Wetland |
|---|---|---|

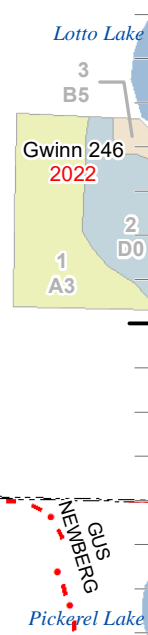
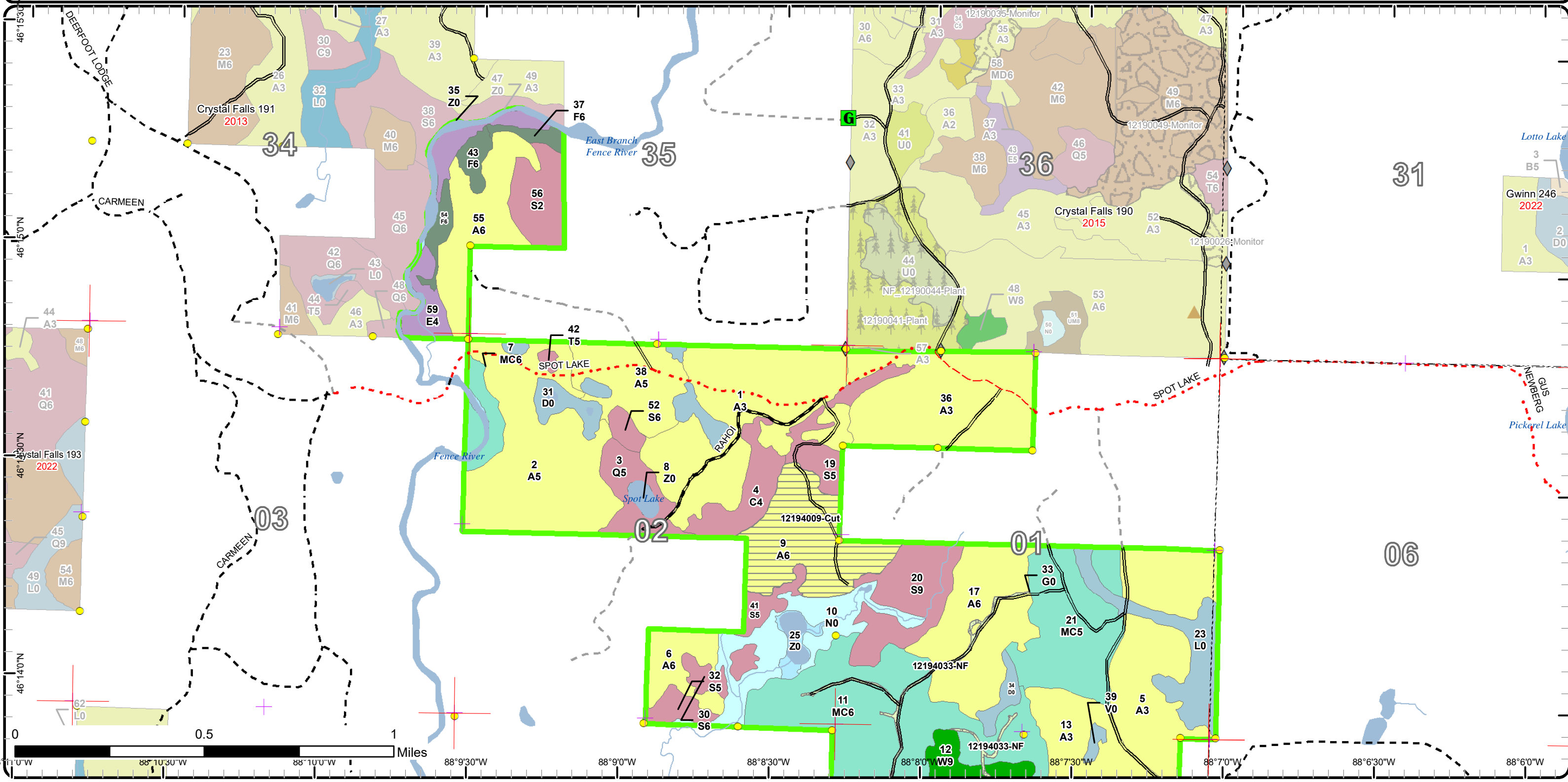


Cover Type & Treatments Map

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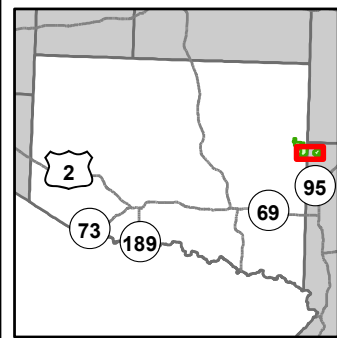


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ▲ Berms
- G Gate
- Lake/Pond
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- Compartment Boundary
- Other Treatment - See Comments
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- 413 - Aspen
- 422 - Natural Pines
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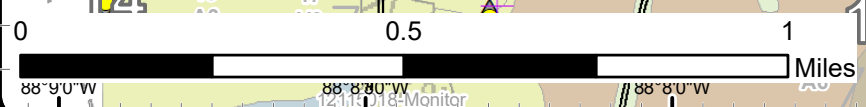
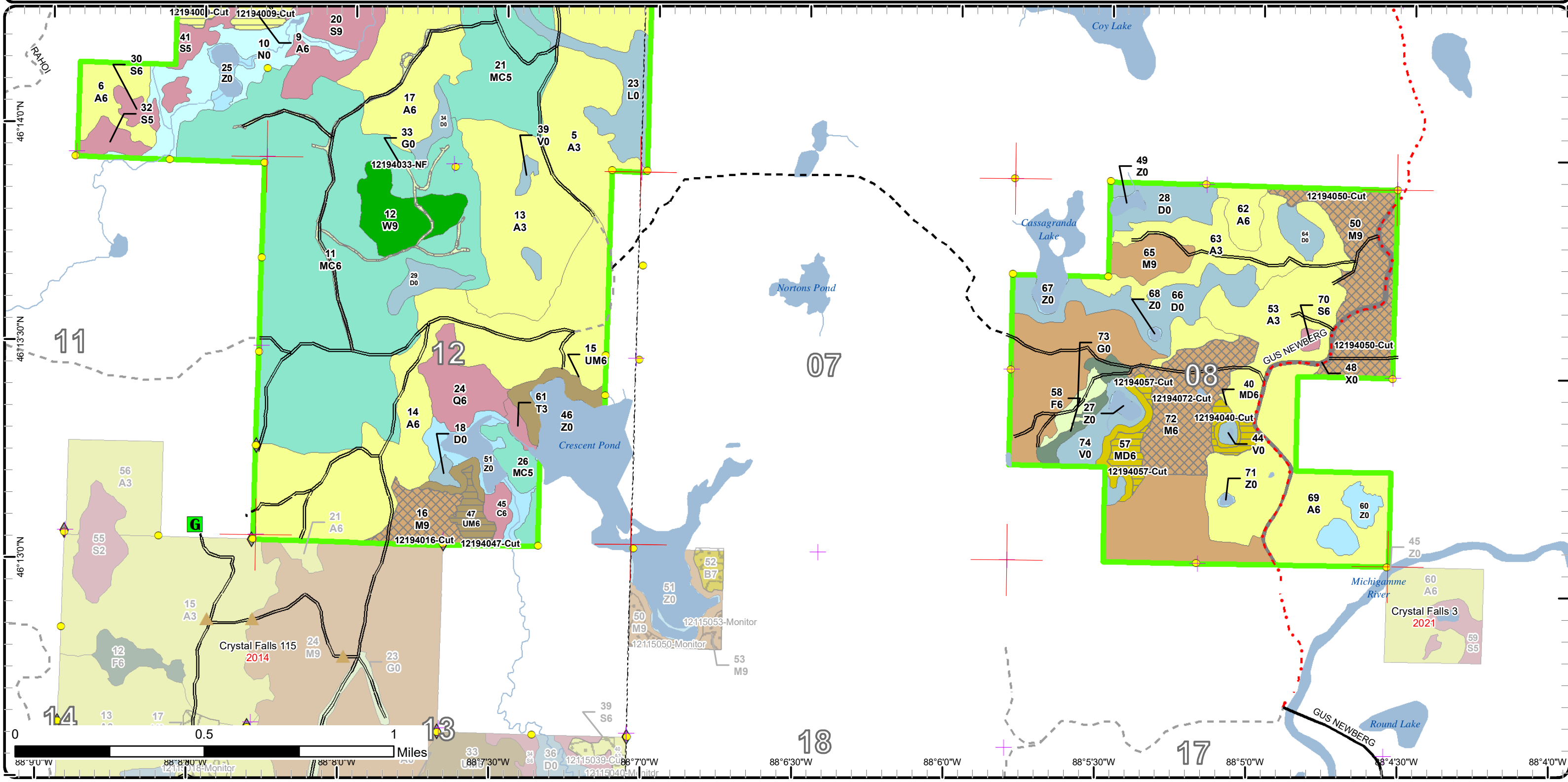


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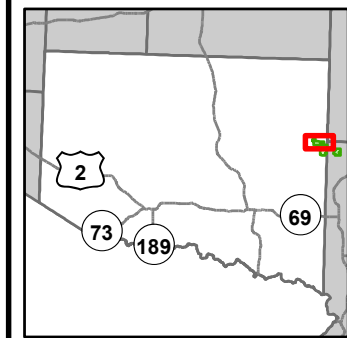
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|---|-----------------------------------|-----------------------------|
| — Miris Corners | — Perennial River | ■ 310 - Herbaceous Openland |
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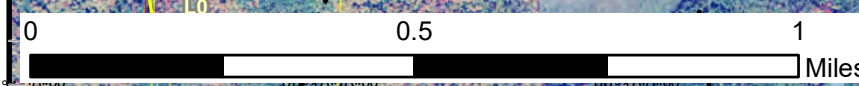
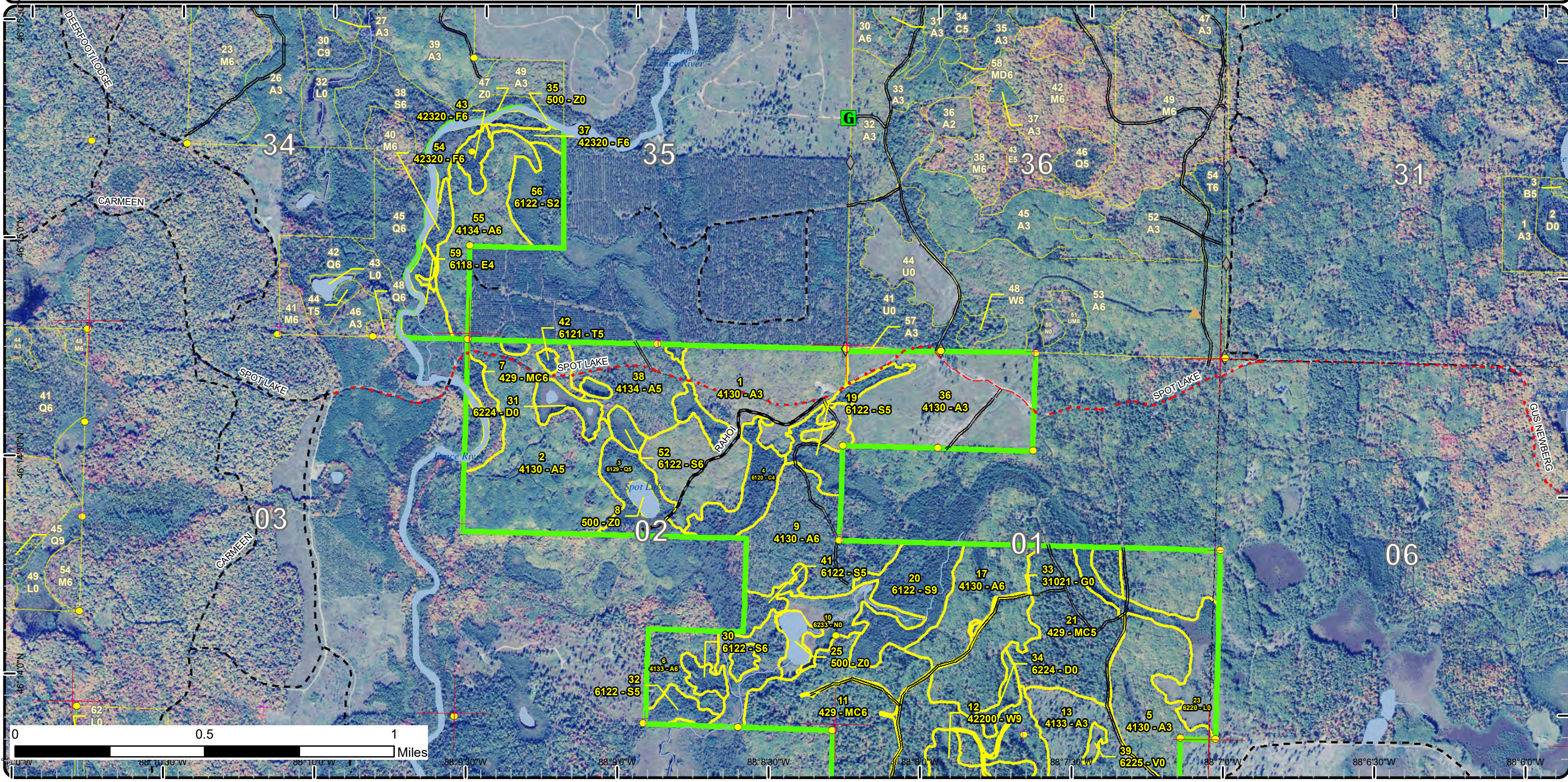
88°9'0"W 88°8'30"W 88°8'0"W 88°7'30"W 88°7'0"W 88°6'30"W 88°6'0"W 88°5'30"W 88°5'0"W 88°4'30"W 88°4'0"W

Stand Boundary Map

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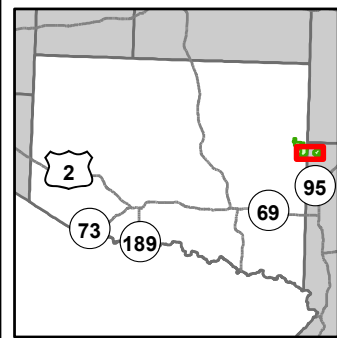


<ul style="list-style-type: none"> — Miris Corners + Remonumented Section Corners ● Survey Grade Corners ◆ Field Grade Corners --- Counties == DNR - Secondary Forest Road - - - Federal / State - Dirt / Gravel Road - . - . County - Gravel Road - - - County - Dirt Road (Seasonal) - - - Private - Dirt / Gravel Road ▲ Berms G Gate — Lake/Pond — Perennial River 	<ul style="list-style-type: none"> Lakes and Rivers Compartment Boundary Stand Boundaries 	<h3>Natural Color RGB</h3> <ul style="list-style-type: none"> Red: Band_1 Green: Band_2 Blue: Band_3
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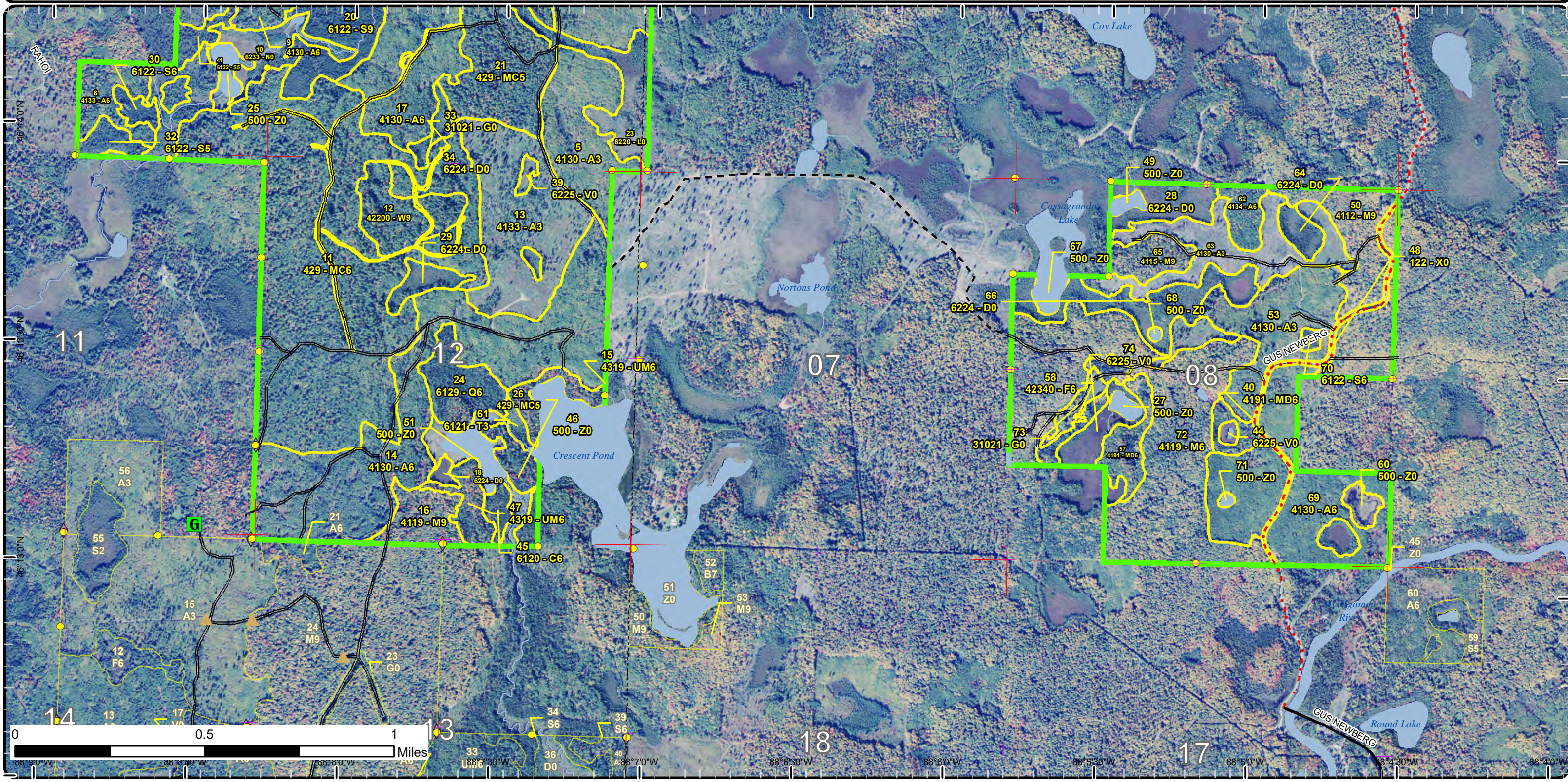


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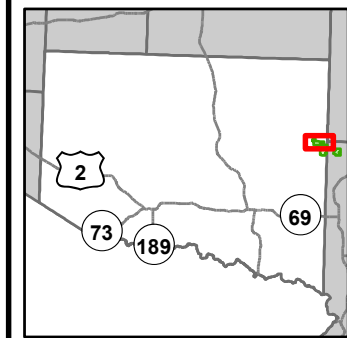


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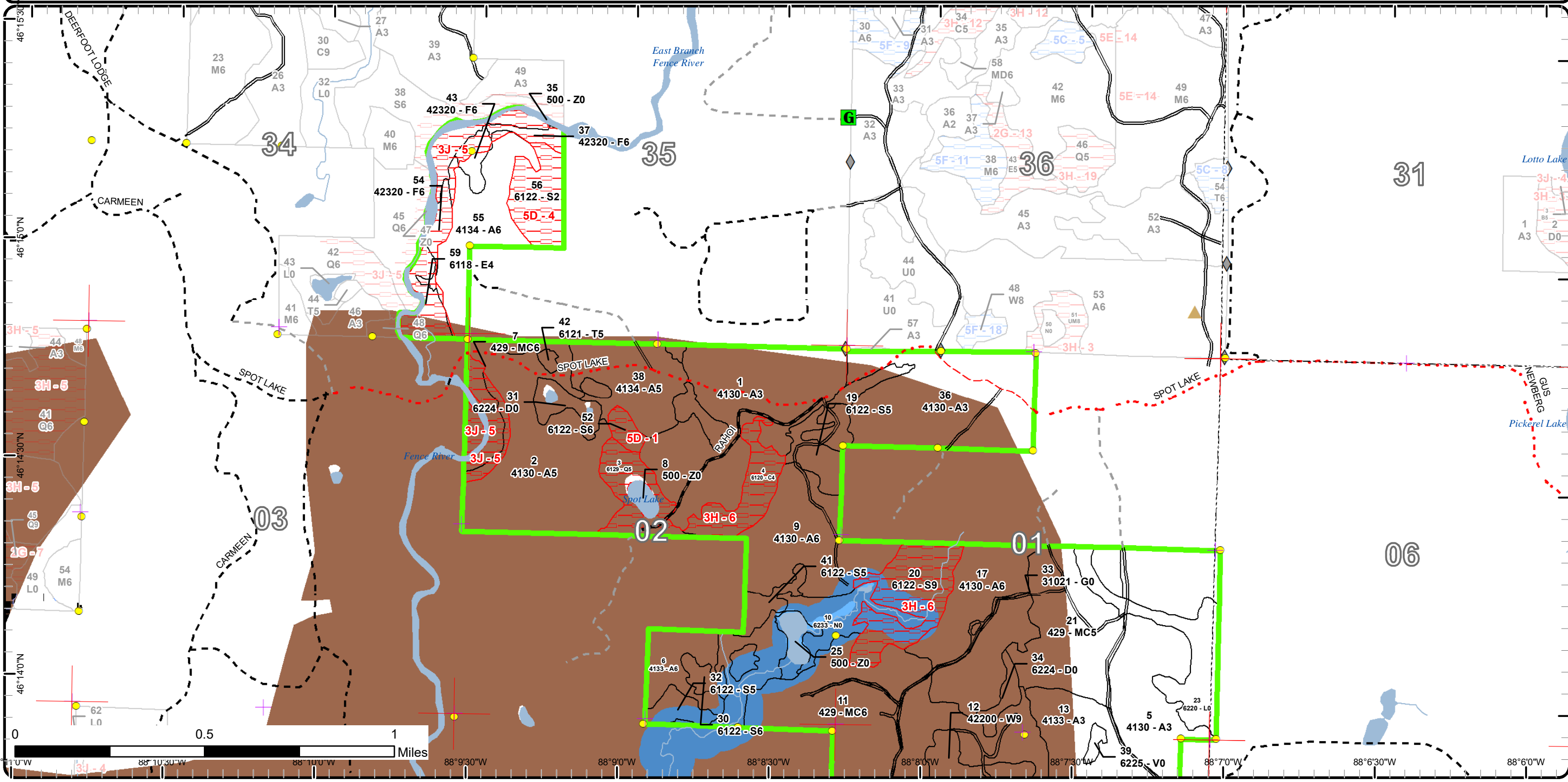


Special Conservation Areas & Site Conditions Map

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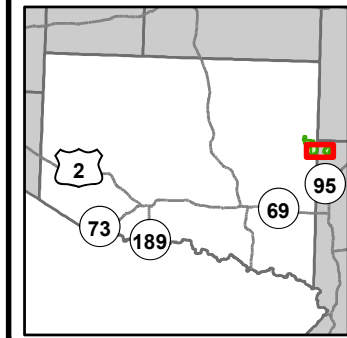


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- Lakes and Rivers
- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range

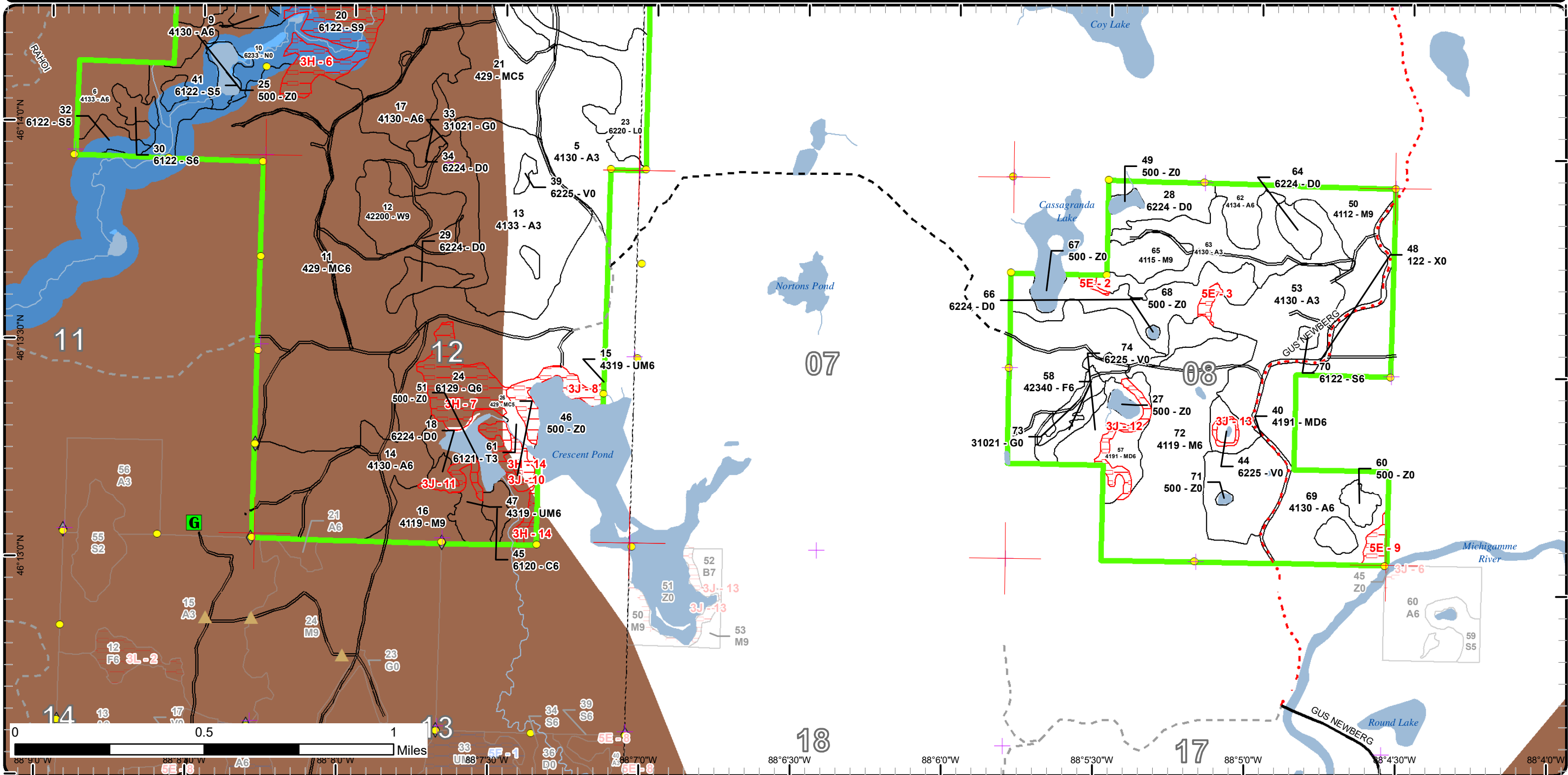


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- G Gate
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	198	222	153	244	113	0	0	0	0	0	0	0	0	0	0	0	0	930
Bog	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Cedar	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	24
Herbaceous Openland	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Conifers	0	0	0	0	0	18	22	0	0	0	0	0	0	0	0	0	0	0	40
Lowland Deciduous	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Shrub	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Lowland Spruce/Fir	0	0	0	0	0	39	56	5	0	0	0	0	0	0	0	0	0	0	99
Marsh	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Mixed Upland Deciduous	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	20
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	219	219
Tamarack	0	0	0	3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	5
Treed Bog	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
Upland Conifers	0	0	0	0	0	12	0	0	0	0	318	0	0	0	0	0	0	0	330
Upland Mixed Forest	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	22
Upland Spruce/Fir	0	0	0	0	0	9	16	0	0	0	0	0	0	0	0	0	0	0	25
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74
White Pine	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	24
Total	270	198	222	156	244	191	136	27	0	0	343	24	0	0	0	0	0	219	2028



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 194
Total Compartment Acres: 2,031

Commercial Harvest - 182
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	52	0	0	0	0	0	0	0	0	52
Mixed Upland Deciduous	13	0	0	0	0	0	0	0	0	13
Northern Hardwood	0	110	0	0	0	0	0	0	0	110
Upland Mixed Forest	8	0	0	0	0	0	0	0	0	8
Total	72	110	0	0	0	0	0	0	0	182

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	182	0	0	0	0	0	0	0	9	191
Next Step	0	0	0	0	0	0	182	0	0	182
Total	182	0	0	0	0	0	182	0	9	373



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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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Proposed Treatments:

9	12194009-Cut	51.7	4130 - Aspen	Poletimber Well	42	Unspecified	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription cut merchantable (1 stick and larger) aspen, w birch, maple, spruce, and fir. where available leave one w birch and/or maple per cruise
Specs: point. leave w pine, r pine.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable aspen, spruce, fir
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

16	12194016-Cut	17.5	4119 - Mixed Northern Hardwoods	Sawtimber Well	73	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription thin to 70 BA. manage for best tree in place. remove in order of priority: trees that likely would not survive or decrease in value within the
Specs: next cutting cycle (20 years) and if needed to reach BA target, thin from below. keep all current species represented in residual stand. buffer any vernal areas. cut no hemlock, cedar, w pine or oak. buffer any vernal areas found.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable N hardwoods
Regen:

Other w birch mainly in N end transitional area. components of b cherry, upland cedar and w spruce
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

33	12194033-NF	9.2	31021 - Cool Season Grass	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription Hunter walking trail opening maintenance
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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
40 12194040-Cut	5.1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	53	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> cut merchantable (1 stick and larger) w birch, aspen, r maple, spruce, and fir. where available leave 1-2 w birch per cruise point. leave w pine, hemlock, oak, cedar. buffer adjacent lowland</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, maple, birch</p> <p><u>Regen:</u></p> <p><u>Other</u> much of stand adjacent to bog. as stand transitions to low ground b spruce component becomes more prevalent</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
47 12194047-Cut	7.7	4319 - Mixed Upland Forest	Poletimber Well	64	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> cut merchantable (1 stick and larger) r maple, spruce, fir, aspen, w birch. where available leave 1 w birch per cruise point. cut no hemlock, cedar, w pine, r pine, oak</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> r maple, birch, spruce/fir, 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 /2020</p>										
50 12194050-Cut	49.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	73	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> thin to 70 BA. manage for best tree in place. remove in order of priority: trees that likely would not survive or decrease in value within the next cutting cycle (20 years) and if needed to reach BA target, thin from below. keep all current species represented in residual stand. cut no hemlock, cedar, w pine, and oak. buffer any vernal areas.</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> n hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u> good quality h maple with component of larger diameter maple 20 - 24" dbh. small inclusion of upland cedar/w pine 24" dbh in S 1/2 of stand. higher stocking of w birch poletimber in E portion. scattered hemlock 18" dbh throughout. NE corner of stand has small inclusion of w spruce/aspen/maple.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
57 12194057-Cut	7.5	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	53	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> cut merchantable (1 stick and larger) spruce, fir, aspen, w birch, r maple and cherry. where available leave 1 w birch and/or cherry per cruise point. leave w pine, h maple, hemlock, cedar, oak. buffer adjacent lowlands following BMP guidelines.</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, fir, birch</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 /2020</p>										
72 12194072-Cut	42.5	4119 - Mixed Northern Hardwoods	Poletimber Well	73	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> thin to 70 BA. manage for best tree in place. remove in order of priority: trees that likely would not survive or decrease in value within the next cutting cycle (20 years) and if needed to reach BA target, thin from below. keep all current species represented in residual stand. cut no hemlock, cedar, w pine, and oak. buffer any vernal areas.</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> n hardwoods</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> 7 /1 /2019</p>										

Total Treatment 191
Acreage Proposed:



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		3H	3J	5D	5E
931	917	0	14	Aspen	0	7		7
17	17	0	0	Bog				
24	5	0	19	Cedar	19			
15	15	0	0	Herbaceous Openland				
40	0	0	40	Lowland Conifers	40			
20	0	0	20	Lowland Deciduous		20		
28	28	0	0	Lowland Shrub				
100	41	0	60	Lowland Spruce/Fir	34		25	
35	35	0	0	Marsh				
20	13	0	8	Mixed Upland Deciduous		8		
219	219	0	0	Northern Hardwood				
5	5	0	0	Tamarack				
93	93	0	0	Treed Bog				
331	306	0	24	Upland Conifers	4	20		
22	8	0	15	Upland Mixed Forest		15		
24	12	0	13	Upland Spruce/Fir		13		
8	8	0	0	Urban				
74	74	0	0	Water				
25	25	0	0	White Pine				
2,031	1,820		212	Total Forested Acres	98	81	25	7
	90%		10%	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	5D: Unproductive Forest Land	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5D: Unproductive Forest Land	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: stunted bog spruce							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	72	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Ed Rice : Examiner

Compartment: 194
Year of Entry: 2021



8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: vernal area, flood plain							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Report 4 – Site Conditions

Compartment: 194

Year of Entry: 2021



14	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	4	Unspecified	Unspecified	Unspecified	Unspecified
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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 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.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	4130 - Aspen	Sapling Well	91.6	17	Immature	N/A	very scattered r pine, w pine		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		90	Sapling	2	17	White Spruce	Low	5 - 10 feet	Sapling
2	4130 - Aspen	Poletimber Medium	87.3	27	Immature	N/A	small groves of w pine. rolling hills		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		85	Pole/Sapling	5	27	White Spruce	Low	5 - 10 feet	Sapling
Red Maple		10	Sapling	3		Hazelnut (Beaked)	Medium	5 - 10 feet	Tall Shrub
3	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	18.3	45	51-80	N/A	NW end of stand, off of Spot Lake, b spruce is stunted to sapling size. strip of cedar along N edge.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		35	Pole/Sapling	5		Black Spruce	High	5 - 10 feet	Sapling
Tamarack		40	Sapling/Pole	4	45				
heavy winter deer use in cedar									
4	6120 - Lowland Cedar	Poletimber Poor	19.3	102	1-50	N/A	fairly large open areas heavy to tag alder. NW arm of stand higher stocked to b spruce/tamarack.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		60	Log	12	102	Tag Alder	Full	5 - 10 feet	Tall Shrub
Black Spruce		20	Pole	6					
Tamarack		20	Pole	7					
heavy winter deer use									
5	4130 - Aspen	Sapling Well	70.5	18	Immature	N/A	widely scattered 1 stick tall aspen. trace amount of r pine sawtimber. w birch mainly found along roads		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		80	Sapling	2	18	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
						White Spruce	Medium	5 - 10 feet	Sapling
6	4133 - Aspen, Mixed Pine	Poletimber Well	18.6	41	51-80	N/A	NE end of stand, adjacent to creek/marsh beaver had cut off aspen in the past - r maple/fir/spruce saplings. areas of dense r maple saplings (M3). Along N line of stand, very narrow strip of associated low quality r maple 14 - 18" dbh. NW of stand has higher stocking of large diameter w pine, SE has higher stocking of spruce/fir		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		60	Pole	7	41	Red Maple	Medium	10 - 20 feet	Sapling
Black Spruce		10	Pole/Sapling	5		White Pine	Medium	10 - 20 feet	Sapling
White Pine		20	XLog	22		White Spruce	Medium	10 - 20 feet	Sapling
Red Maple		10	Log	12		Balsam Fir	Medium	10 - 20 feet	Sapling
winter deer use									
7	429 - Mixed Upland Conifers	Poletimber Well	11.9	91	51-80	N/A	BMP buffer along the Fence River. N 1/2 heavier stocked to r pine.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		20	Log/Pole	11		Balsam Fir	High	5 - 10 feet	Sapling
White Spruce		25	Pole	7					
White Pine		20	XLog	24					
Red Pine		30	XLog	20	91				
8	500 - Water	Nonstocked	3.2		Unspecified	No	Spot Lake		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
9	4130 - Aspen	Poletimber Well	51.7	42	Unspecified	N/A	pockets of scattered aspen 9 - 12" dbh. overall 3 - 4 stick aspen with scattered trees 5 - 6 stick. very scattered w birch 4 - 7" dbh																																
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10	6233 - Wet Meadow	Nonstocked	34.8	0	Unspecified	No	small spring fed creek - feeder to Fence River, old beaver flowages. tag alder/swamp grass with scattered tamarack/b spruce																																
11	429 - Mixed Upland Conifers	Poletimber Well	250.4	91	51-80	N/A	areas of stand are predominately w pine sawtimber sized trees 20 -26" dbh. heavy r maple sapling understory. scattered r pine sawtimber 18 - 24" dbh																																
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12	42200 - Natural White Pine	Sawtimber Well	24.5	91	81-110	N/A	very dense r maple 1 -2" and hazel understory w pine/r pine 10 - 11 sticks tall																																
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16	4119 - Mixed Northern Hardwoods	Sawtimber Well	17.5	73	81-110	N/A	Thinned in 2004. w birch mainly in N end transitional area. components of b cherry, upland cedar and w spruce																																
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19	6122 - Black Spruce	Poletimber Medium	15.8	59	1-50	N/A	areas of low to no stocking with heavy tag alder																																
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20	6122 - Black Spruce	Sawtimber Well	34.3	48	81-110	N/A	E edge has heavier stocking to cedar. runs/strips of cedar throughout stand. heavy winter deer use																																
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21	429 - Mixed Upland Conifers	Poletimber Medium	56.0	91	81-110	N/A	scattered 12" dbh aspen with pockets of 5 - 7" dbh aspen throughout - majority of aspen appears to have been cut out of stand approx. 30 yrs ago. slight r pine component 16" dbh. heavy winter deer use																																
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23	6220 - Alder/willow	Nonstocked	27.7		Unspecified	No	tag alder, scattered b ash, dead snags. scattered tamarack, b spruce. seasonally ponded																																
24	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	22.1	59	Unspecified	N/A	areas that are higher stocked to cedar/winter deer use																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
25	500 - Water	Nonstocked	7.4		Unspecified	No	small unnamed pond/lake. 3 Mile Creek runs into and out of																																						
26	429 - Mixed Upland Conifers	Poletimber Medium	12.4	46	Unspecified	N/A	small pockets of fir regeneration 3 - 5' tall. sawtimber sized spruce is for most part dead.heavy winter deer use																																						
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27	500 - Water	Nonstocked	2.3		Unspecified	No	small bog pond																																						
28	6224 - Treed Bog	Nonstocked	16.3		Unspecified	No	leatherleaf bog with associated b spruce/tamarack																																						
29	6224 - Treed Bog	Nonstocked	10.0	0	Unspecified	No	leatherleaf bog with small b spruce, tamarack																																						
30	6122 - Black Spruce	Poletimber Well	5.0	45	81-110	N/A	winter deer connective cover use. slight component of w pine																																						
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31	6224 - Treed Bog	Nonstocked	19.1	0	Unspecified	No	leatherleaf bog with small spruce, tamarack. scattered small associated bog ponds																																						
32	6122 - Black Spruce	Poletimber Medium	7.3	59	51-80	N/A	narrow strips of well stocked b spruce/tamarack. very low stocked trees between those strips very heavy to tag alder																																						
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33	31021 - Cool Season Grass	Nonstocked	9.2	0	Unspecified	No	old hunter walking trail - edges heavily grown into w pine and r pine seedlings/saplings																																						
34	6224 - Treed Bog	Nonstocked	5.6	0	Unspecified	No	leatherleaf bog - stunted b spruce/tamarack saplings/small poletimber.																																						
35	500 - Water	Nonstocked	7.5		Unspecified	No	Fence River																																						



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36	4130 - Aspen	Sapling Well	76.2	7	Immature	N/A																																		
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37	42320 - Upland Spruce	Poletimber Well	4.3	59	Unspecified	N/A	widely scattered large w pine																																	
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38	4134 - Aspen, Spruce/Fir	Poletimber Medium	33.0	41	Unspecified	N/A	r pine component in NW end of stand. very minor w pine sawtimber component.																																	
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39	6225 - Bog	Nonstocked	2.1		Unspecified	No	small bog opening - water																																	
40	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	6.3	53	111-140	N/A	much of stand adjacent to bog. as stand transitions to low ground b spruce component becomes more prevalent																																	
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41	6122 - Black Spruce	Poletimber Medium	10.5	59	51-80	N/A	areas of lower stocked trees with heavy tag alder, fir and r maple saplings. winter deer connective use																																	
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42	6121 - Tamarack	Poletimber Medium	1.5	58	Unspecified	N/A	small b spruce/tamarack swamp pothole																																	
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43	42320 - Upland Spruce	Poletimber Well	5.8	52	111-140	N/A	scattered larger spruce 10 - 12" dbh. small inclusion of 52 yr old aspen with associated b cherry																																										
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44	6225 - Bog	Nonstocked	1.7		Unspecified	No	leatherleaf bog with small pond																																										
45	6120 - Lowland Cedar	Poletimber Well	5.0	102	81-110	N/A	winter deer use																																										
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46	500 - Water	Nonstocked	16.5		Unspecified	No	Crescent Pond																																										
47	4319 - Mixed Upland Forest	Poletimber Well	11.9	64	111-140	N/A	R pine sawtimber inclusion along N edge of stand, immediately adjacent to open marsh/bog																																										
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48	122 - Road/Parking Lot	Nonstocked	8.4	0	Unspecified	No	Newberg Road																																										
49	500 - Water	Nonstocked	2.3		Unspecified	No	small bog pond																																										
50	4112 - Maple, Beech, Cherry Association	Sawtimber Well	49.8	73	81-110	N/A	good quality h maple with component of larger diameter maple 20 - 24" dbh. small inclusion of upland cedar/w pine 24" dbh in S 1/2 of stand. higher stocking of w birch poletimber in E portion. scattered hemlock 18" dbh throughout. NE corner of stand has small inclusion of w spruce/aspen/maple.																																										
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51	500 - Water	Nonstocked	19.2		Unspecified	No	receding small pond/flowage with associated tag alder/swamp grass																																										
52	6122 - Black Spruce	Poletimber Well	4.5	66	51-80	N/A	b spruce better formed at transitional edges - tree quality quickly becomes poor from edges to interior as site index lowers. interior of stand is low to moderately stocked b spruce with heavy b spruce sapling understory. widely scattered tamarack component.																																										
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53	4130 - Aspen	Sapling Well	60.1	15	Immature	N/A																																						
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54	42320 - Upland Spruce	Poletimber Well	5.7	59	Unspecified	N/A	windthrow throughout. widely scattered large w pine																																					
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55	4134 - Aspen, Spruce/Fir	Poletimber Well	39.0	32	Immature	N/A	aspen with areas of higher stocked fir saplings A3 F3. N end of stand has heavier fir component.																																					
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56	6122 - Black Spruce	Sapling Medium	20.7	57	Unspecified	N/A	low quality site - b spruce 50 yrs old 3" dbh - bog spruce. small acreage of high ground island with large w pine. heavy leatherleaf																																					
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57	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	13.9	53	81-110	N/A	w spruce is widely dispersed																																					
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58	42340 - Upland Spruce/Fir	Poletimber Well	8.7	42	81-110	N/A	stand lies along edge of bog - wet pockets of ground interspersed. slight component of balm. scattered hemlock 16 - 18" dbh. S end has small grove of aspen																																					
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59	6118 - Lowland Deciduous with Cedar	Poletimber Poor	19.9	56	Unspecified	N/A	stand adjacent to Fence R. areas of open, swamp grass leading into b ash pockets. cedar prevalent throughout.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
61	6121 - Tamarack	Sapling Well	3.1	26	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		100	Sapling	1	26	Tag Alder	High	5 - 10 feet	Tall Shrub
62	4134 - Aspen, Spruce/Fir	Poletimber Well	10.1	48	Unspecified	N/A	low stocking of b cherry. small component of larger aspen 10 - 12" dbh. overall stand needs one more rotation for diameter growth		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		60	Pole/Log	8	48	Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir		20	Pole	6		Black Cherry	Low	10 - 20 feet	Sapling
63	4130 - Aspen	Sapling Well	51.3	7	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		85	Sapling	1	7	Blackberry/Raspberry	High	< 5 feet	Tall Shrub
64	6224 - Treed Bog	Nonstocked	6.8	0	Unspecified	No	stunted b spruce/tamarack. edges have better formed trees		
65	4115 - Y.Birch, Hemlock NH	Sawtimber Well	13.1	73	51-80	N/A	h maple saplings successfully grown in but heavily browsed. scattered upland cedar		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		60	Log/Pole	10	73	Blackberry/Raspberry	High	< 5 feet	Tall Shrub
Yellow Birch		25	Log	14		Sugar Maple	Medium	< 5 feet	Sapling
66	6224 - Treed Bog	Nonstocked	32.8	0	Unspecified	No	stunted b spruce/tamarack. edges of stand hold higher stocking of cedar/hemlock/merchantable spruce and tamarack		
67	500 - Water	Nonstocked	4.4		Unspecified	No	Casagrandia Lake		
68	500 - Water	Nonstocked	0.7		Unspecified	No	small bog pond		
69	4130 - Aspen	Poletimber Well	65.7	27	Immature	N/A	stand just moving into poletimber size class. aspen 5 - 6" dbh with 2 - 3" trees		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		85	Pole/Sapling	5	27	Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
						White Spruce	Low	5 - 10 feet	Sapling
70	6122 - Black Spruce	Poletimber Well	1.9	54	Unspecified	N/A	b spruce swamp pocket. lower SI. highly stocked		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		100	Pole/Sapling	5	54	Blue Spruce	Low	10 - 20 feet	Sapling
71	500 - Water	Nonstocked	0.8		Unspecified	No	small pond		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
72	4119 - Mixed Northern Hardwoods	Poletimber Well	138.5	73	81-110	N/A	scattered vernal areas throughout stand. small pockets of higher stocked ironwood/h maple saplings. scattered w spruce 12" dbh. small inclusion of hemlock/w spruce/aspens in S end. W center of stand has higher stocking of w birch poletimber. slight b cherry component and upland cedar																												
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73	31021 - Cool Season Grass	Nonstocked	5.8		Unspecified	No	small grass opening with spruce/fir encroaching																												
74	6225 - Bog	Nonstocked	13.6		Unspecified	No	leatherleaf bog with ponded water																												