



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12188

Entry Year 2028

Acreage: 1,450

County: Iron

Management Area: Way Dam Complex

Stand Examiner: Ed Rice

Legal Description:

T45N R31W sections 15, 16, 17, 20, 21, 28

Identified Planning Goals:

Minimal forest management opportunity. Utilize timber resources where feasible given the extreme limited access of the area. Protect the riparian areas and transition zones during management activity

Soil and topography:

Soils are generally very fine sandy loams with cobble. Lowlands consist of muck soils. The topography ranges from steep rolling hills to flat and low swamp land.

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

The compartment is contiguous in state ownership. The adjacent areas are mixed with state, private and private industrial forest. This area has in the past had no access development.

Unique Natural Features:

several ERAs are present. Unique block of state forest land in that the natural features preclude almost all vehicle access. The compartment has historically been managed over 50 years as an undesignated natural area.

Archeological, Historical, and Cultural Features:

none identified

Special Management Designations or Considerations:

Area had been considered in 1977 and revisited several times since for natural area designation but was not acted upon. Compartment has been under unit discussion whether to resubmit natural area proposal.

Watershed and Fisheries Considerations:

This compartment contains the Fence River, Camp Creek, Smith Creek, and Bates Lake. The Fence River, Camp Creek, and Smith Creek are all designated Type 1 trout streams less than 50 foot wide and have predicted mean July water temperatures ranging from 62.0 to 67.0 °F (cold streams). 300-foot riparian management zones are recommended for the Fence River, Camp Creek, and Smith Creek in areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot riparian management zone is recommended to protect these areas in accordance with best management practices. Bates Lake (11-acres) is a natural headwater inland lake. A minimum 100-foot riparian management zone is recommended for Bates Lake to protect inland lake resources in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Featured species include: black bear, pileated woodpecker, northern goshawk, ruffed grouse, and white-tailed deer. Various lowlands provide many species with wetland habitats and should not be disturbed.

Mineral Resource and Development Concerns and/or Restrictions

none identified

Vehicle Access:

None. The Fence River Road just touches the north west boundary of the compartment.

Survey Needs:

Recreational Facilities and Opportunities:

None

Fire Protection:

This area has no equipment access. Much of the compartment is not conducive to fire growth due to stands of young aspen. Lightning strike starts have occurred within the compartment but have not developed into problematic fires.

Additional Compartment Information:

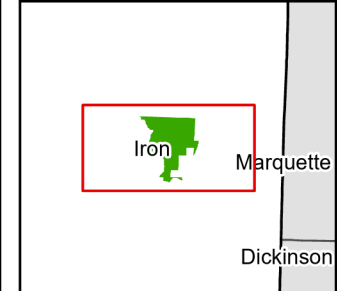
The following reports from the Inventory are attached:

- 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**

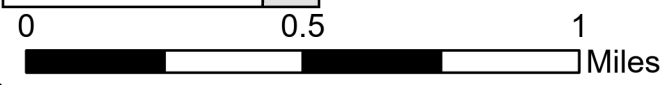
The following information is displayed, where pertinent, on the attached compartment maps:

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

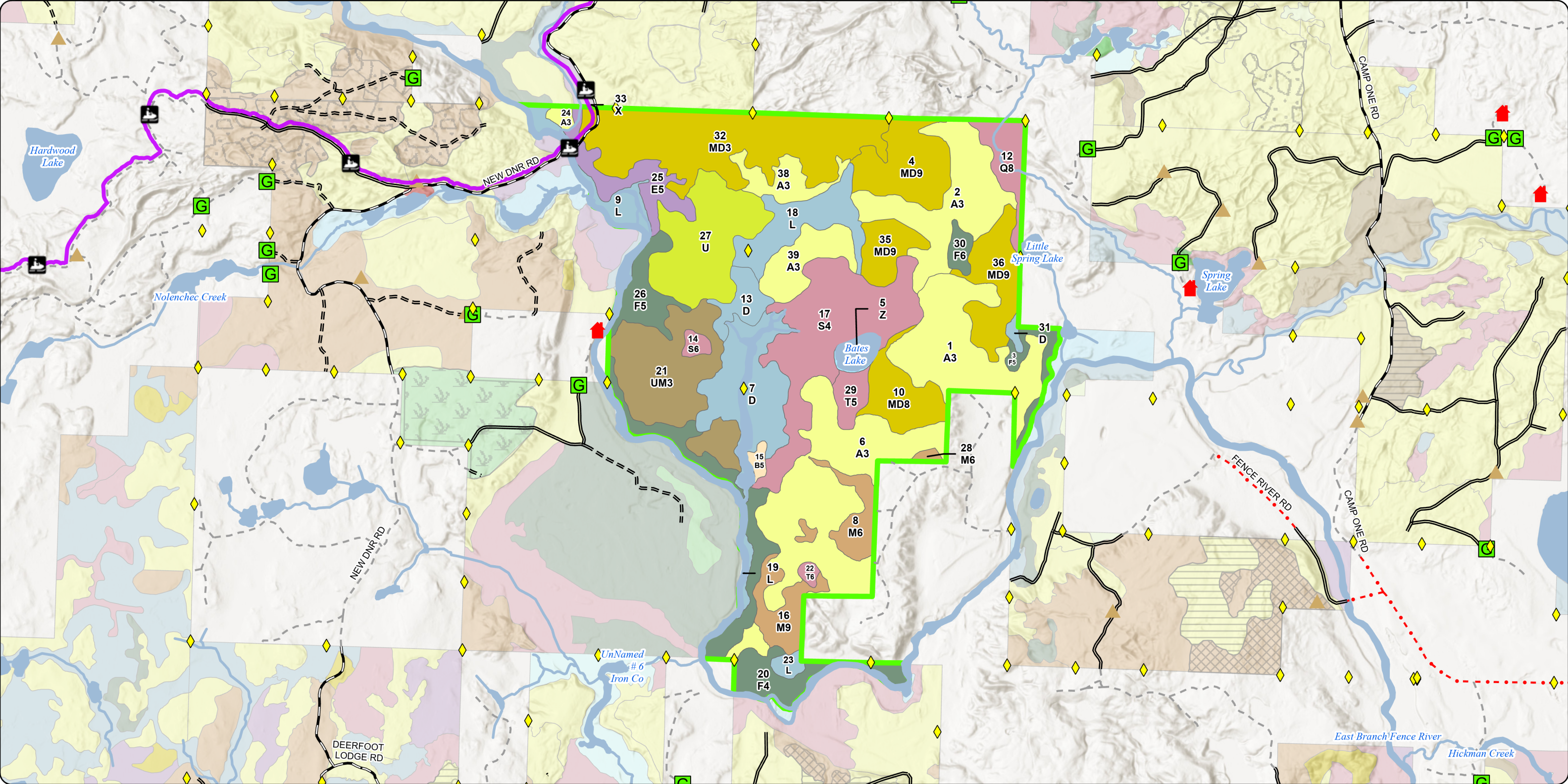
Cover Type & Treatments Map



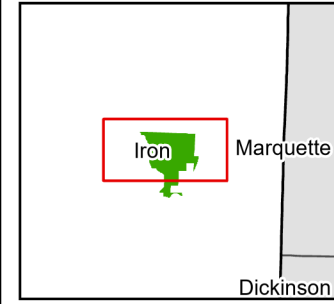
Compartment: 12188
 T47N, R33W, Sec: 17, 20, 27, 29, 34
 County: Iron
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 Acres: 1,450 GIS Calculated
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 Date Exported: 04/27/2026
 Map Phase: Web Post



- | | | | |
|------------------------------|------------------------------------|--------------------------------|-----------------------------------|
| ◆ Survey Grade Corners | — DNR - Secondary Forest Road | ■ 411 - Northern Hardwood | ■ 611 - Lowland Deciduous Forest |
| 🏠 Cabin | === DNR - Forest Access Route | ■ 413 - Aspen | ■ 612 - Lowland Coniferous Forest |
| ▲ Berm | -.-.- County - Gravel Road | ■ 414 - Other Upland Deciduous | ■ 122 - Road/Parking Lot |
| 🟩 Gate | -.-.- Private - Dirt / Gravel Road | ■ 419 - Mixed Upland Deciduous | ■ 330 - Low Density Trees |
| 🚗 Designated Snowmobile | — Streams | ■ 423 - Other Upland Conifers | ■ 622 - Lowland Shrub |
| 🛣️ DNR - Primary Forest Road | 🌊 Lakes and Rivers | ■ 430 - Upland Mixed Forest | ■ 500 - Water |
| 🟩 Compartment Boundary | | | |



Stand Boundary Map

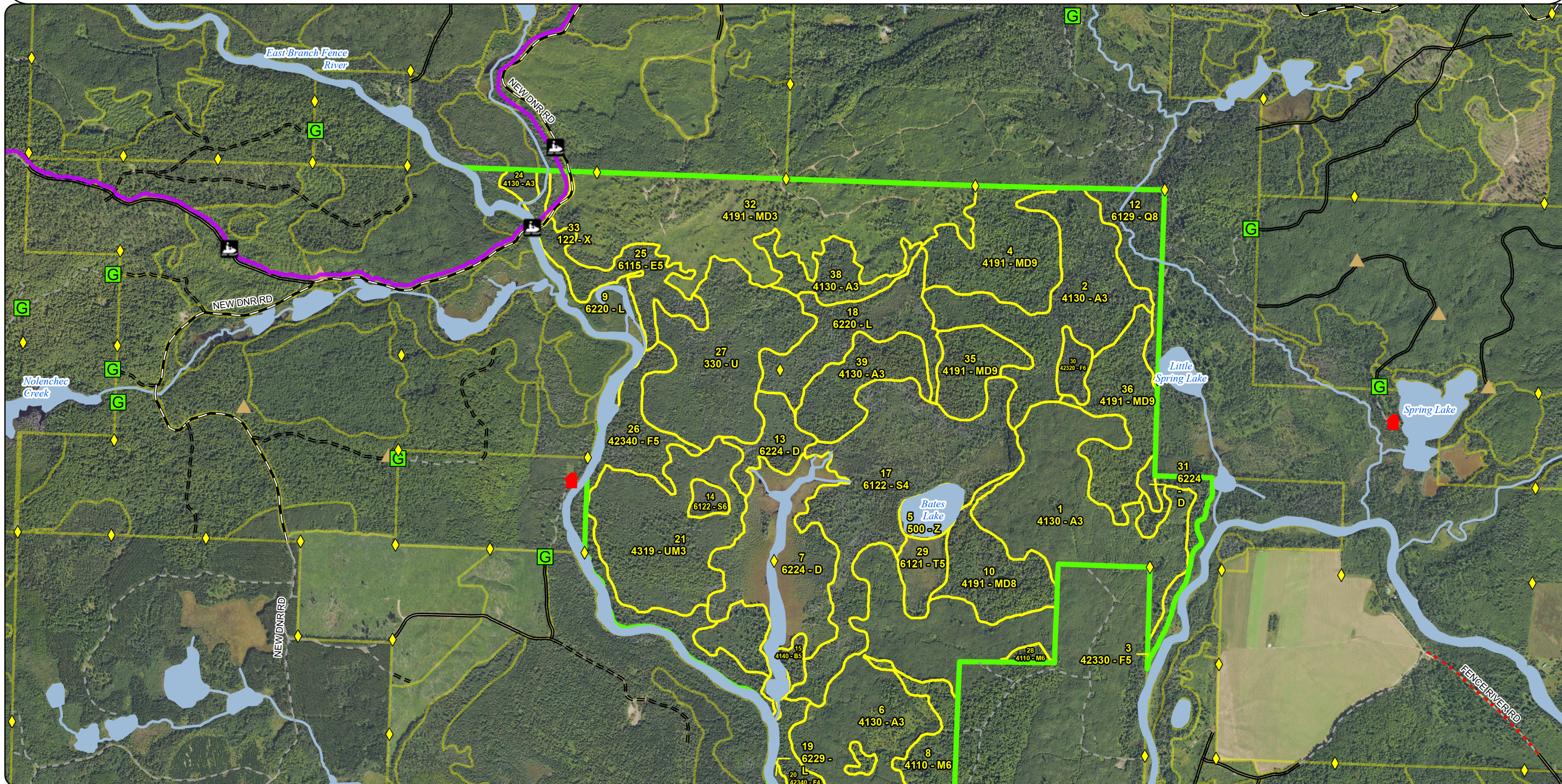
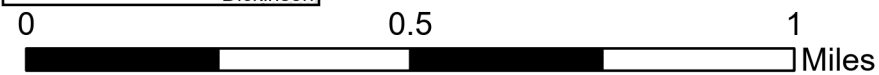


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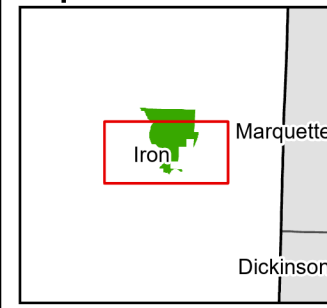
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- Berm
- Gate
- Designated Snowmobile
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- Streams
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- Compartment Boundary
- Compartment Stand Yellow Outline (PD)
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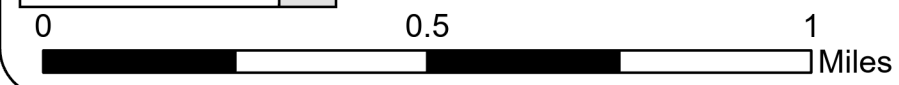
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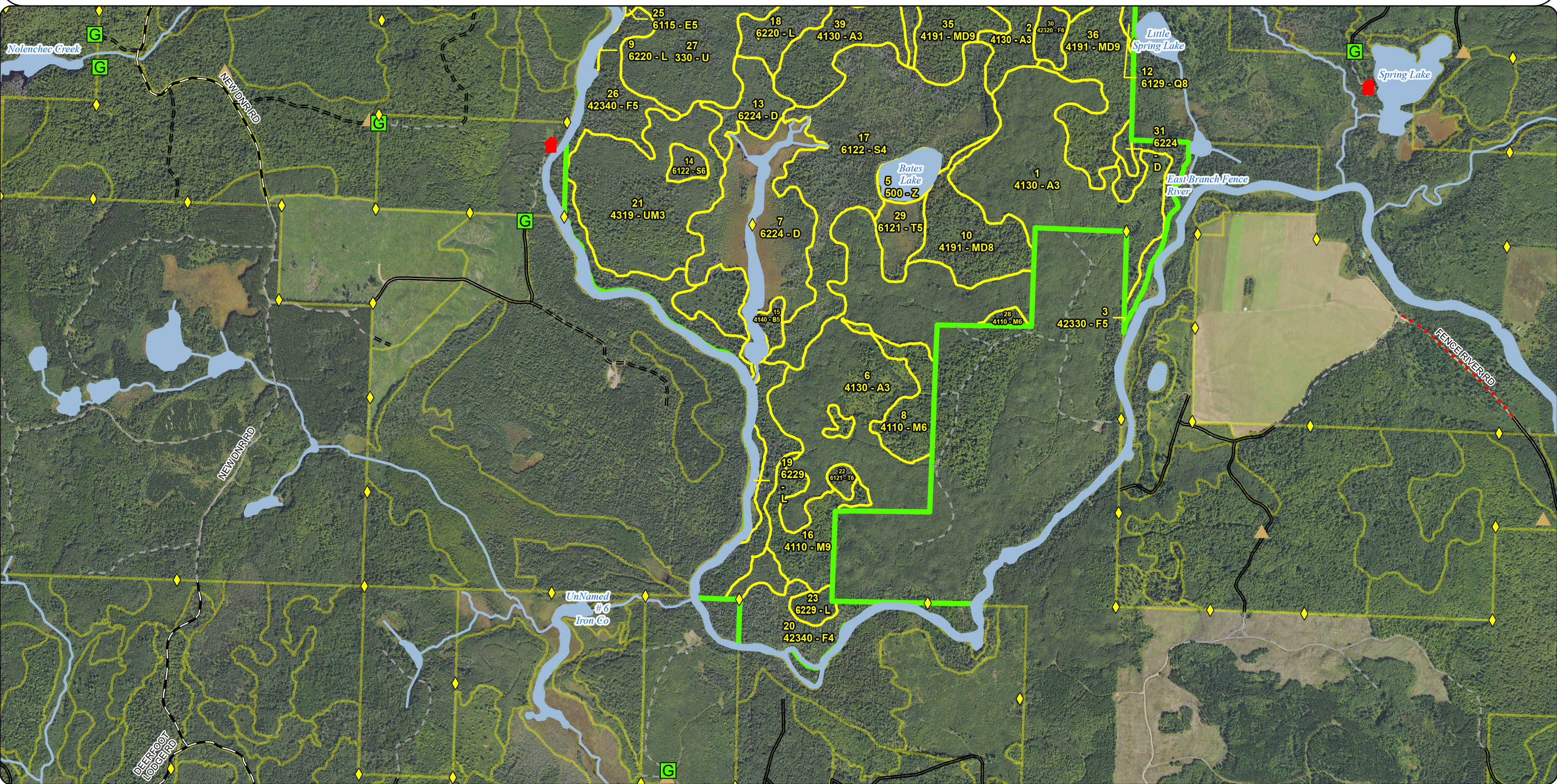
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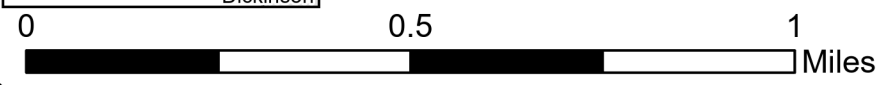
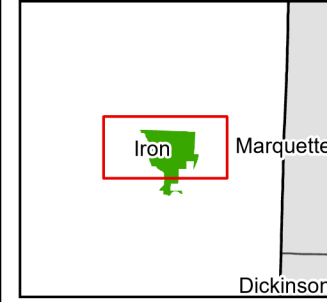
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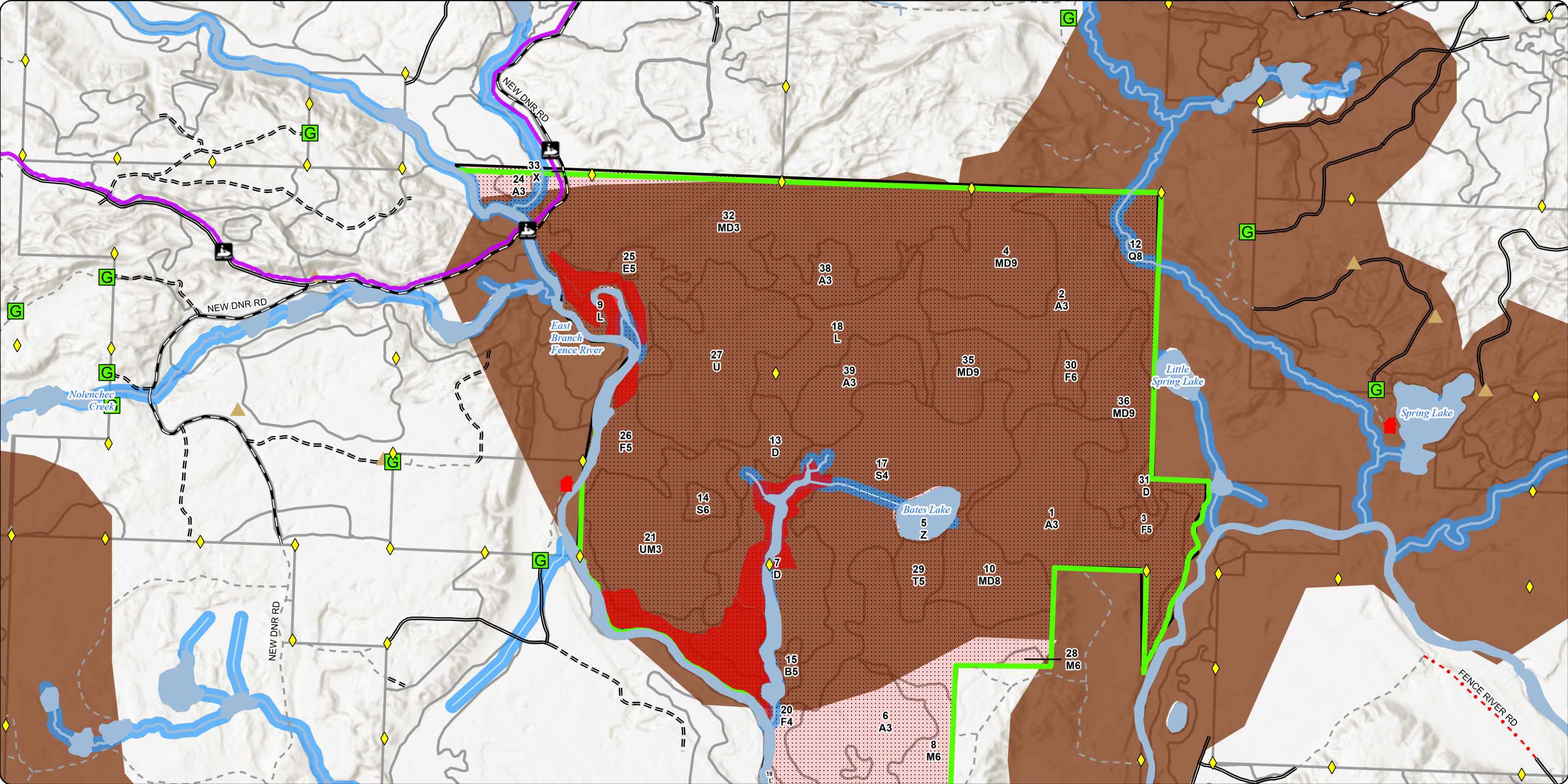


**Special Conservation Areas
& Site Conditions Map**

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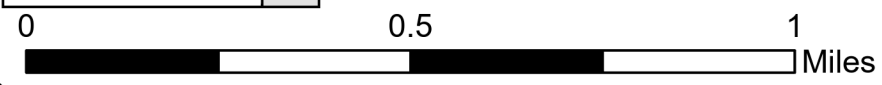
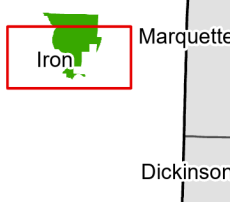


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- High Conservation Value Areas
- Ecological Reference Areas
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range
- Contiguous Resource Area

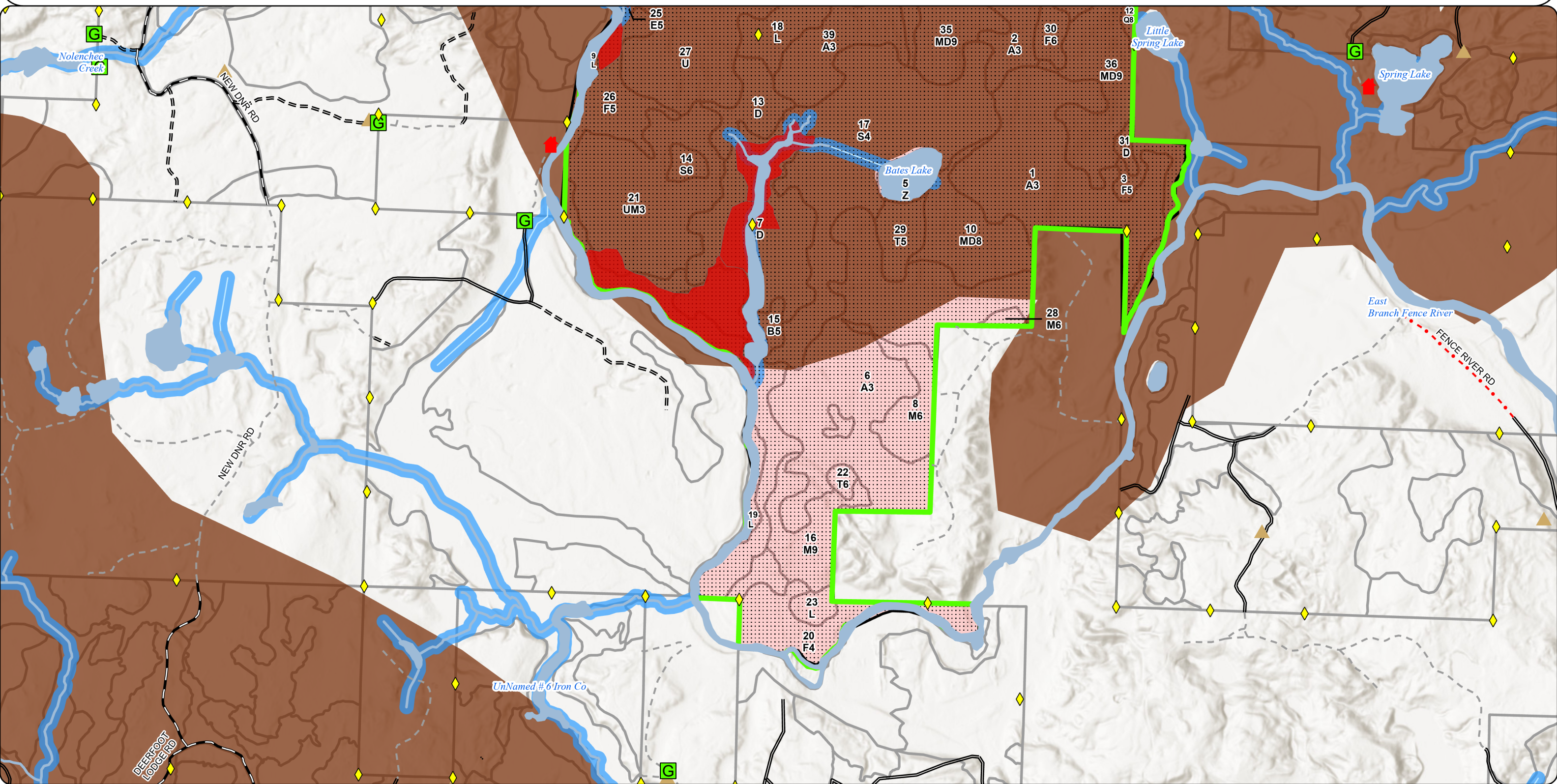


Special Conservation Areas & Site Conditions Map

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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	0	0	377	4	0	0	0	0	0	0	0	0	0	0	0	0	0	381
Low-Density Trees	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	26
Lowland Deciduous	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	33
Lowland Shrub	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83
Lowland Spruce/Fir	0	0	0	0	0	0	0	123	0	0	0	0	0	0	0	0	0	0	123
Mixed Upland Deciduous	0	149	0	0	0	0	0	54	37	0	69	0	0	0	0	0	0	0	308
Northern Hardwood	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	27	53
Paper Birch	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Tamarack	0	0	0	0	0	0	0	14	0	3	0	0	0	0	0	0	0	0	17
Treed Bog	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	97
Upland Mixed Forest	0	0	0	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95
Upland Spruce/Fir	0	0	0	0	0	68	0	65	0	0	0	0	0	0	0	0	0	0	133
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Total	275	149	0	472	4	68	33	256	68	3	95	0	0	0	0	0	0	27	1449



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 188
Total Compartment Acres: 1,450

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



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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

Total Treatment
Acreage Proposed: 0



Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions							
		With Condition				2F	2H	3A	3E	3J	3K	5D	
346	264	0		82	Aspen		33		48	1			
83	83	0		0	Low-Density Trees								
26	0	0		26	Lowland Conifers				22	4			
33	0	0		33	Lowland Deciduous						33		
83	83	0		0	Lowland Shrub								
124	0	0		124	Lowland Spruce/Fir			5					118
166	0	0		166	Mixed Upland Deciduous	8	107		50				
54	54	0		0	Northern Hardwood								
5	0	0		5	Paper Birch		5						
17	0	0		17	Tamarack			3					14
97	97	0		0	Treed Bog								
95	95	0		0	Upland Mixed Forest								
127	0	0		127	Upland Spruce/Fir		20		1	106			
1	1	0		0	Urban								
11	11	0		0	Water								
1,264	687			578	Total Forested Acres	8	165	8	121	111	33		132
	54%			46%	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)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3E: Easement/lease, non-military (e.g. Consumers Power red pine, etc.)	22	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: undivided interest							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Ed Rice: Examiner

Compartment: 188
Year of Entry: 2028



3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: inaccessible - surrounded by wet swamp, severely steep ridges							
5	Unavailable	5D: Unproductive forest land	118	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments: low SI lowland conifer. Bates Lake bog							
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3E: Easement/lease, non-military (e.g. Consumers Power red pine, etc.)	99	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



9	Unavailable	3K: Rare or unique landforms	33	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: MNFI ERA							
10	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	108	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2F: Too steep	8	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5D: Unproductive forest land	14	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments: low SI tamarack swamp, Bates Lake bog							
14	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: vernal area							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Ed Rice: Examiner

Compartment: 188
Year of Entry: 2028



15	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3A: Conservation values incompatible with harvest at this time	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: vernal area							
18	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3A: Conservation values incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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
Bates Lake Wild Area	Contiguous Resource Area	Contiguous Resource Area	SCA Proposal	
Comments				
historically has been proposed several times to be a designated wild area. through recent pre review, it was suggested the best course of action is to designate the compartment as an SCA. mutiple ERAs have been identified inside this area				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
1	4130 - Aspen	Sapling Well	93.6	20	Immature	N/A	2028: scattered trees moving into small poletimber size class. 2018: small pockets of spruce/fir and small isolated lowland conifer inclusions																																																				
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2	4130 - Aspen	Sapling Well	80.4	20	Immature	N/A	2028: scattered trees just moving into small poletimber size class. 2018: successful natural aspen regeneration from 2005 windthrow. very scattered large aspen 18" dbh. old windthrow still remains throughout the stand. rolling hills with areas of steep slope.																																																				
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3	42330 - Upland Fir	Poletimber Medium	15.0	67	Unspecified	N/A	slope along Fence River. BMP buffer strip																																																				
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4	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	53.5	62	81-110	N/A	scattered large h maple - low quality but good seed trees. rolling hills with steep slopes throughout. scattered oak may be present																																																				
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5	500 - Water	None	11.1			No	Bates Lake																																																				
6	4130 - Aspen	Sapling Well	148.2	20	Immature	N/A	areas of semi open in center of stand where hardwoods were salvaged with less of an aspen component.																																																				
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7	6224 - Treed Bog	None	76.0			No	open bog with scattered b spruce/tamarack at edges North end classed as a northern wet meadow ERA by MNFI. South end classed as a muskeg ERA by MNFI																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
8	4110 - Sugar Maple Association	Poletimber Well	23.7	74	81-110	N/A																																															
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9	6220 - Alder/Willow	None	25.9			No	floodplain to Fence River - tag alder with meadow openings. MNFI-northern shrub thicket ERA																																														
10	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	36.5	76	81-110	N/A	much of center of stand has windthrow from 2005 - A3M3. heavier stocking of spruce/fir in N end of stand. lowland b spruce/tamarack inclusion																																														
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12	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	26.0	91	Unspecified	N/A	dense tag alder understory. stand adjacent to Michigan River, very wet																																														
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13	6224 - Treed Bog	None	17.8			No	semi open b spruce/tamarack																																														
14	6122 - Black Spruce	Poletimber Well	5.1	66	Unspecified	N/A	deep sphagnum. successful b spruce sapling regeneration in pockets																																														
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15	4140 - Other Upland Deciduous	Poletimber Medium	4.6	75	Unspecified	N/A	extremely dense fir understory.																																														
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16	4110 - Sugar Maple Association	Sawtimber Well	27.2	75	81-110	N/A	uneven aged stand. large sawtimber 14 - 20" dbh, poletimber 8 - 6" dbh, saplings 3 - 4" dbh. N end has steep gullies. sawtimber is fair quality, some defect is present 1 - 2 log heights. NW finger of stand has higher stocking of w birch, y birch and scattered large w pine.																																															
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17	6122 - Black Spruce	Poletimber Poor	118.4	66	Unspecified	N/A	S end heavy to tag alder with b ash, very wet. scattered/isolated higher ground ridges																																															
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18	6220 - Alder/Willow	None	45.5			No	tag alder with scattered b spruce and tamarack. bog spruce/tamarack in NE corner																																															
19	6229 - Mixed Lowland Shrub	None	5.6			No	floodplain to Fence River - tag alder																																															
20	42340 - Upland Spruce/Fir	Poletimber Poor	60.3	47	Unspecified	N/A	much of overstory has fallen out due to old age and 2005 windthrow. dense fir understory. S end has pockets of A3. very scattered b cherry and w pine.																																															
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21	4319 - Mixed Upland Forest	Sapling Well	94.9	20	Immature	N/A	scattered mature timber among deadfalls and A3. small pockets of spruce/fir throughout. higher stocking of spruce/fir along Fence River corridor.																																															
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22	6121 - Tamarack	Poletimber Well	3.2	85	Unspecified	N/A	sphagnum/Labrador tea tamarack/b spruce swamp																																															
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23	6229 - Mixed Lowland Shrub	None	5.7			No	dense tag alder thicket with scattered balm and b ash saplings																																		
24	4130 - Aspen	Sapling Well	4.3	35	Unspecified	N/A	scattered trees just moving into poletimber size class																																		
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25	6115 - Lowland Ash	Poletimber Medium	33.0	51	Unspecified	N/A	bottom land to Fence River. very wet - springs																																		
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26	42340 - Upland Spruce/Fir	Poletimber Medium	50.4	67	Unspecified	N/A	dense fir understory in most areas. stand transitioning from floodplain to upland																																		
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27	330 - Low-Density Trees	None	82.7			No	low cords/acre areas intermixed with advanced A3 from 2005 windthrow in pockets. small lowland inclusions. scattered w birch. rolling hills, old dead falls, extremely difficult to access stand																																		
28	4110 - Sugar Maple Association	Poletimber Well	2.7	73	81-110	N/A	area salvaged after 2005 windthrow																																		
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29	6121 - Tamarack	Poletimber Medium	13.7	61	Unspecified	N/A	wet - sphagnum. center of stand is less timbered and higher percent of tamarack																																		
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30	42320 - Upland Spruce	Poletimber Well	8.0	48	Unspecified	N/A	fairly dense spruce, w pine, j pine upland stand with higher water table. very scattered large w spruce 16 - 18" dbh																																		
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31	6224 - Treed Bog	None	3.1			No	leatherleaf bog with b spruce and tamarack																																													
32	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	148.7	6	1-50	N/A	2025: good aspen regeneration with mix of residual maple, w pine, and conifer2018: oak component also in N end. scattered large h maple - low quality but good seed trees. rolling hills with some steep slopes throughout. stand cut in 2019. overall is aspen, r maple regenerating with pockets of h maple saplings and small poles. pockets of hardwood inclusions, mainly h maple																																													
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33	122 - Road/Parking Lot	None	0.8			No	Fence River Rd																																													
35	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	24.6	90	81-110	N/A	inclusions of M6 scattered in several areas through the stand. N end has higher stocking of mature aspen 16" dbh and larger. oak component also in N end. scattered large h maple - low quality but good seed trees. very NW area of stand is mainly w spruce 18 - 20" dbh and fir 10 - 14" dbh. rolling hills with some steep slopes throughout.																																													
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