



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12072

Entry Year 2022

Acreage: 1,632

County Dickinson

Management Area: Groveland

Revision Date: 2020-10-19

Stand Examiner: Jacob Siler

Legal Description:

T41N R29W Sec 5, 4, 3, 10, 9,8 17 and 16
T42N R29W Sec 32

Identified Planning Goals:

Improve and maintain age class diversity, forest regeneration and recreational values.

Soil and topography:

Highly varied terrain throughout this compartment. Terrain varies from lowland areas with mucky soils to rolling hills and rock outcroppings with well drained soils.

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

This compartment has six private 40's with camps scattered within its boundaries. The remainder is currently State Forest managed for timber and recreation. The main road (South Pond Rd) is a designated snowmobile trail and the west boundary of the compartment.

Unique Natural Features:

A portion of the Groveland Mine ecological reference area (ERA) is within the compartment boundary. The ERA includes Northern Wet Meadow, Dry-mesic Northern Forest and Granite Bedrock Glade ecological reference types.

Archeological, Historical, and Cultural Features:

Some influence from the Groveland Mine. Most of the mine related activity occurred West of the compartment.

Special Management Designations or Considerations:

Groveland Mine ERA and Groveland Mine Flooding state wildlife management area are special management considerations.

Watershed and Fisheries Considerations:

Mitchell Creek is the south/east compartment boundary.

This compartment runs along Mitchell Creek which is a designated Type 1 trout stream less than 50' in width. A 300' buffer is recommended for Mitchell Creek riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Historic Camp Suicide Deeryard, ERA and core Interior Forest Habitat. This area is critical deer winter habitat and also highly sought after oak habitat valuable for bear, deer, turkeys, wood ducks and many other species of wildlife. The Groveland Ponds provide habitat for eagles, ospreys, loons and waterfowl.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of thin to discontinuous glacial sediments over bedrock. The Cambrian Munising Formation and Precambrian Archean granite/gneiss outcrop at or near the surface. There is not an economic use for these rocks, although some might have dimension stone potential. The Groveland Iron mine is located just to the northwest. There has been no previous metallic leasing in this compartment. A gravel pit is located one mile to the north and there may be some potential. There is no economic oil and gas production in the UP.

Vehicle Access:

South Pond Rd provides good access along compartment boundary. Most roads throughout compartment are in poor shape.

Survey Needs:

Some surveys needed

Recreational Facilities and Opportunities:

A designated snowmobile trail follows the main north/south road on the west side of the compartment.

Fire Protection:

Fire protection out of the Norway, Crystal or possibly Felch field offices.

Additional Compartment Information:

The following reports from the Inventory are attached:

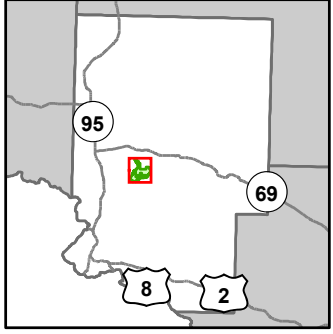
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

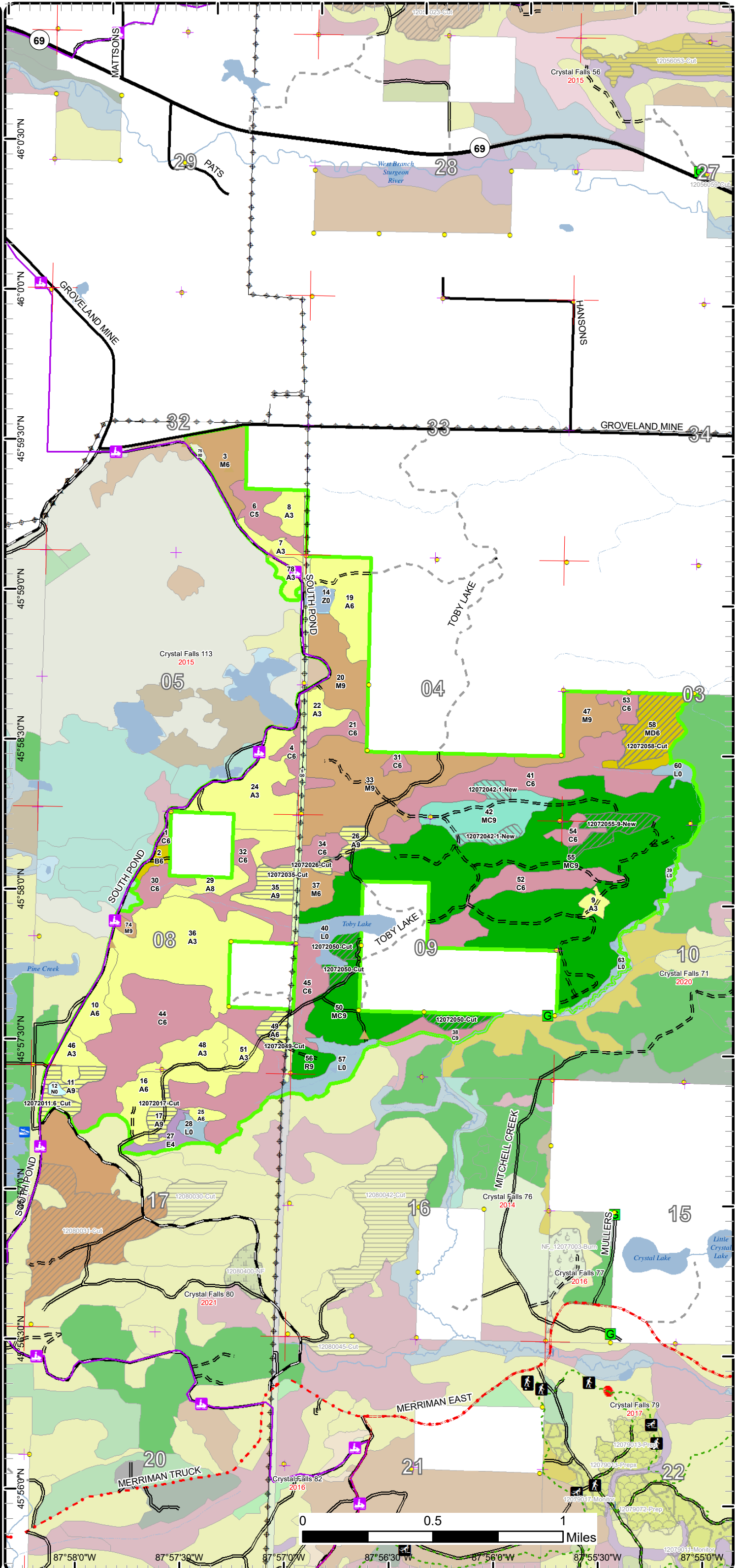
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 72
 T42N, R29W, Sec. 32, 33
 T41N, R29W, Sec. 3-5, 8-10, 16, 17
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Groveland
 YOE: 2022
 Acres: 1631.7 GIS Calculated
 Examiner: Jacob Siler
 Map Revised: 1/22/2021
 Map Phase: Post-Review

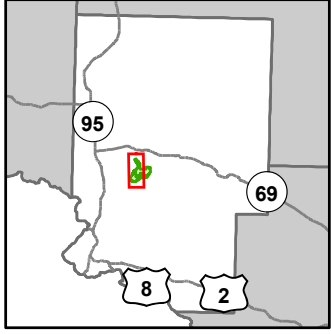


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Gate
- Boating Access Site
- Powerline
- Compartment Boundary
- Other Harvest - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 790 - Other Bare/Sparsely Vegetated

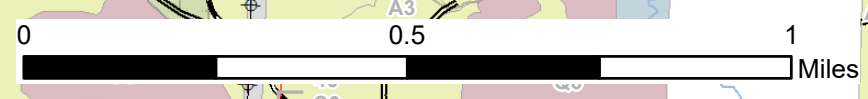
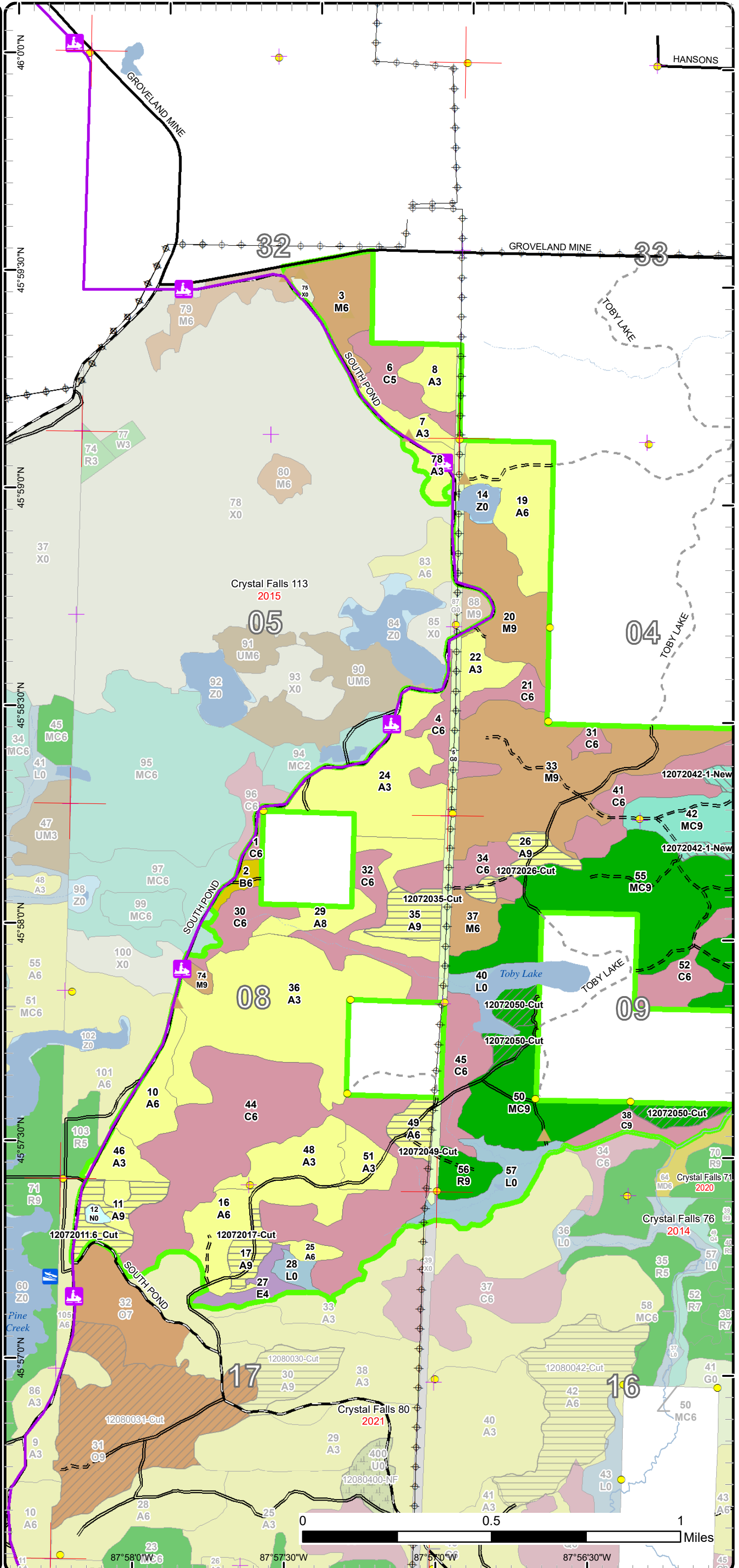


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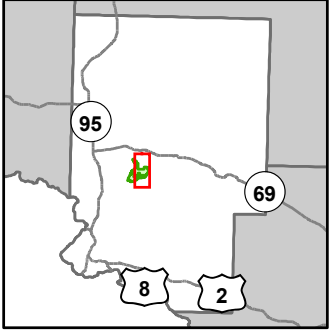
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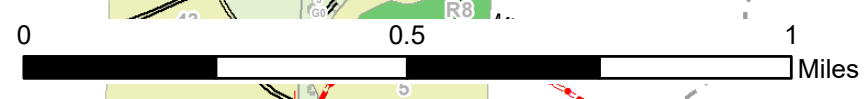
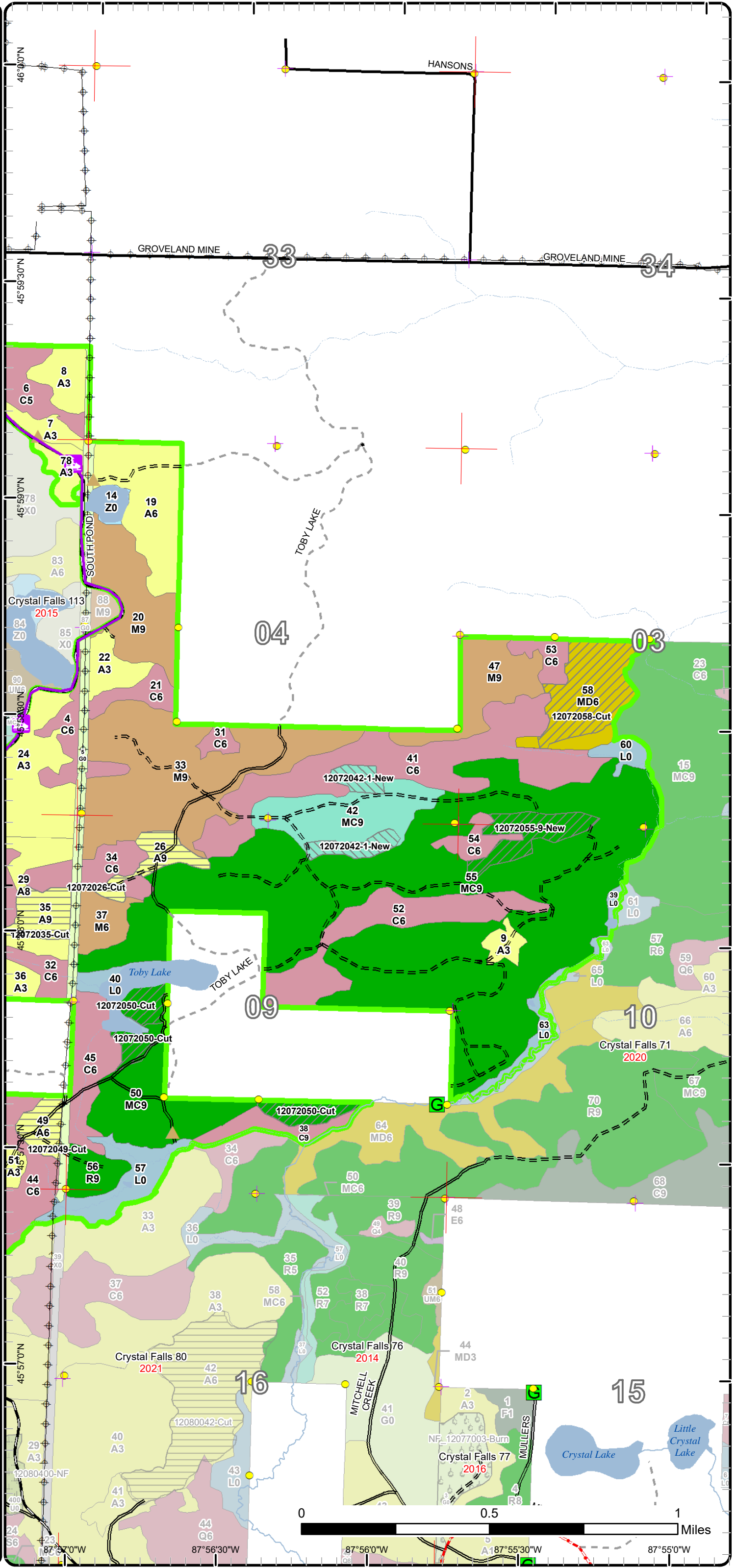
46°00'N, 45°59'30"N, 45°58'0"N, 45°57'30"N, 45°57'0"N, 45°58'0"N, 45°58'30"N, 45°59'0"N, 45°59'30"N, 46°00'N
 87°58'0"W, 87°57'30"W, 87°57'0"W, 87°56'30"W

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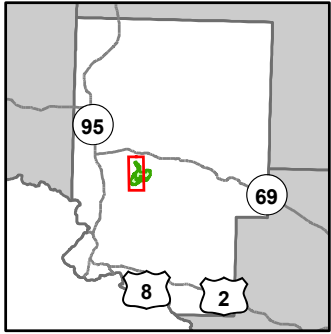
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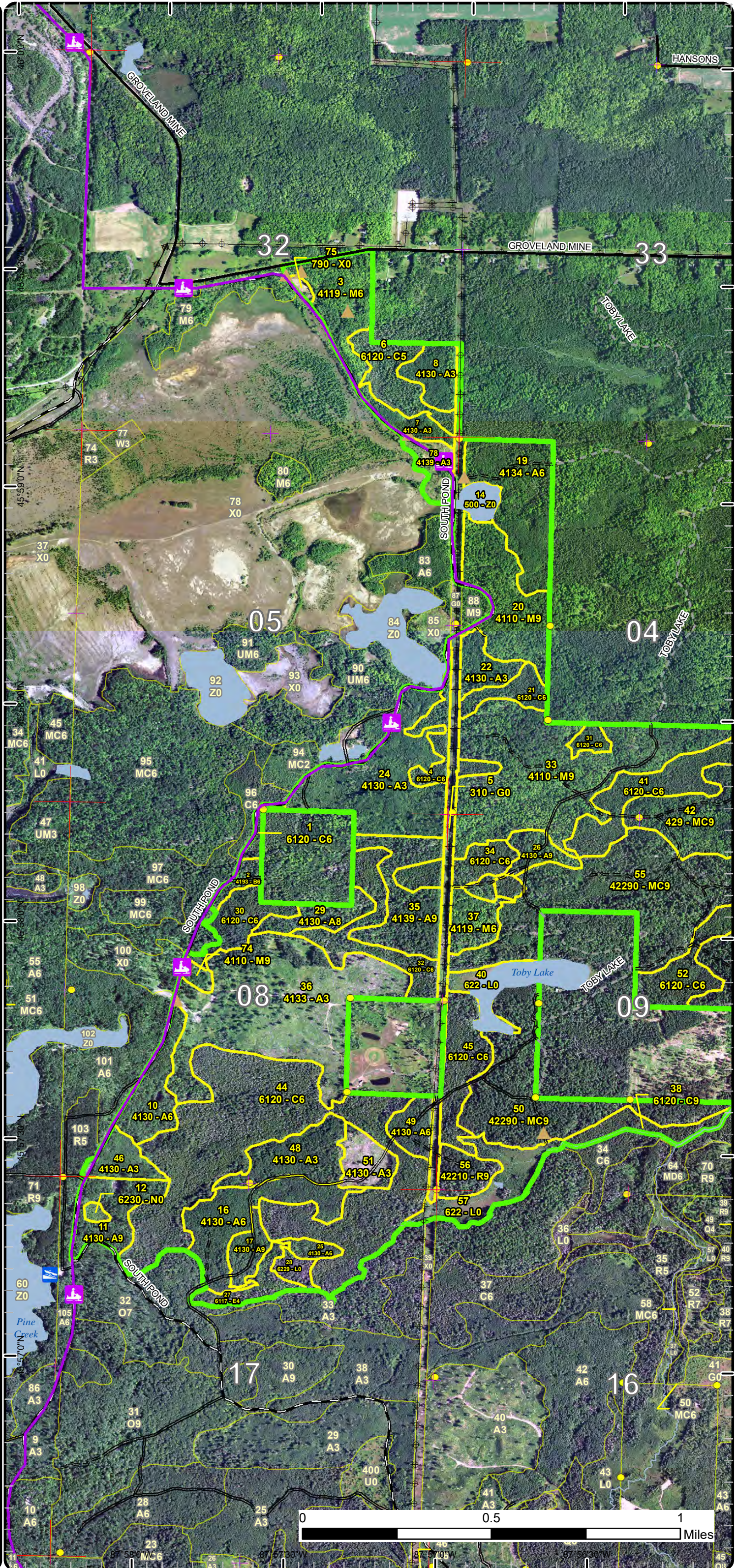
87°56'0"W 87°56'30"W 87°55'30"W 87°55'0"W

Stand Boundary Map

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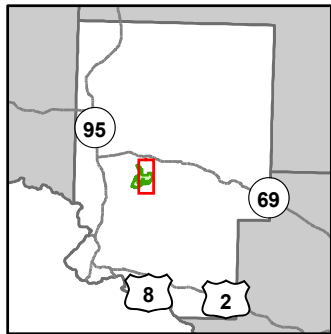


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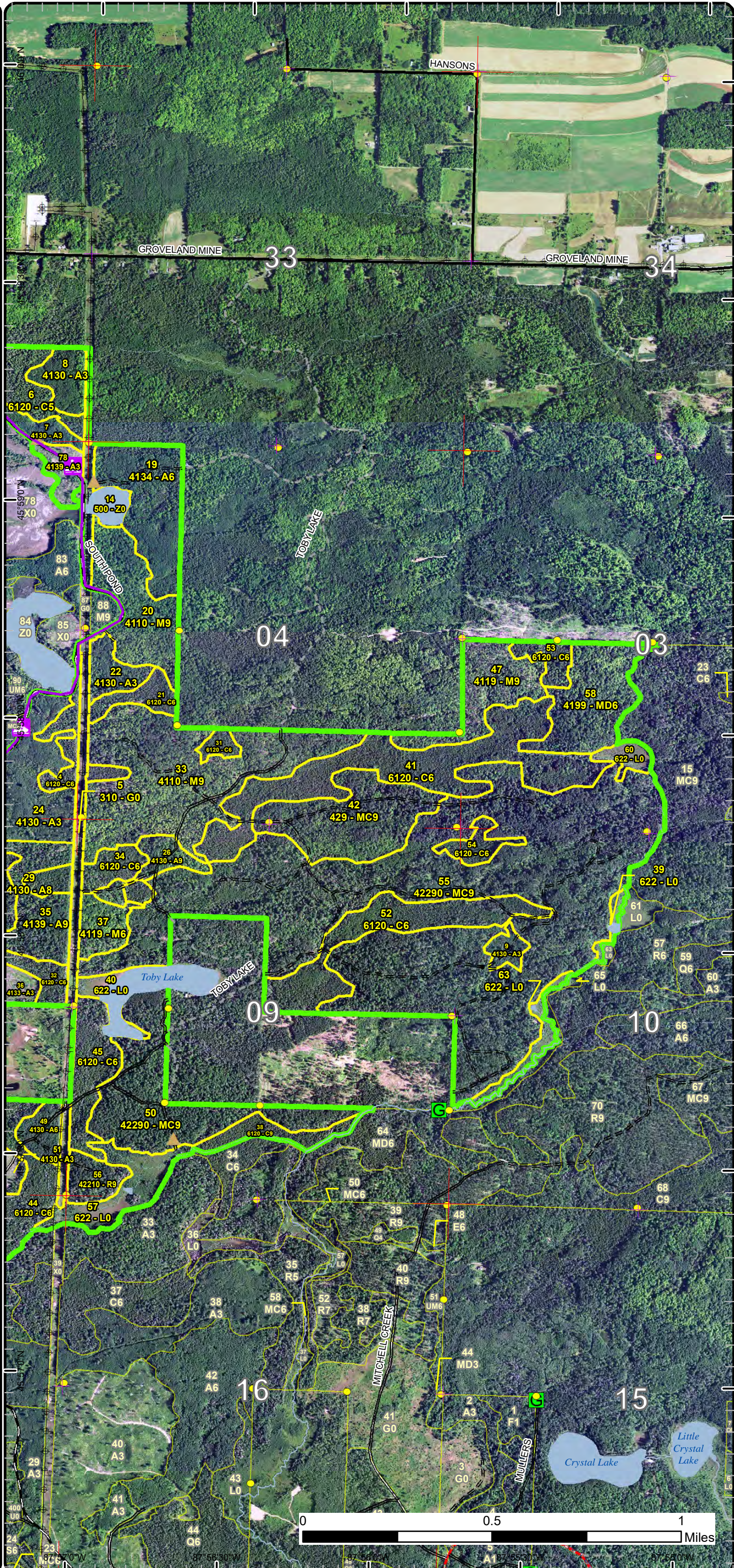


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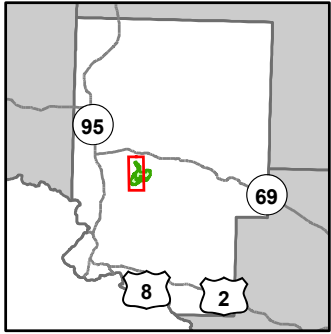


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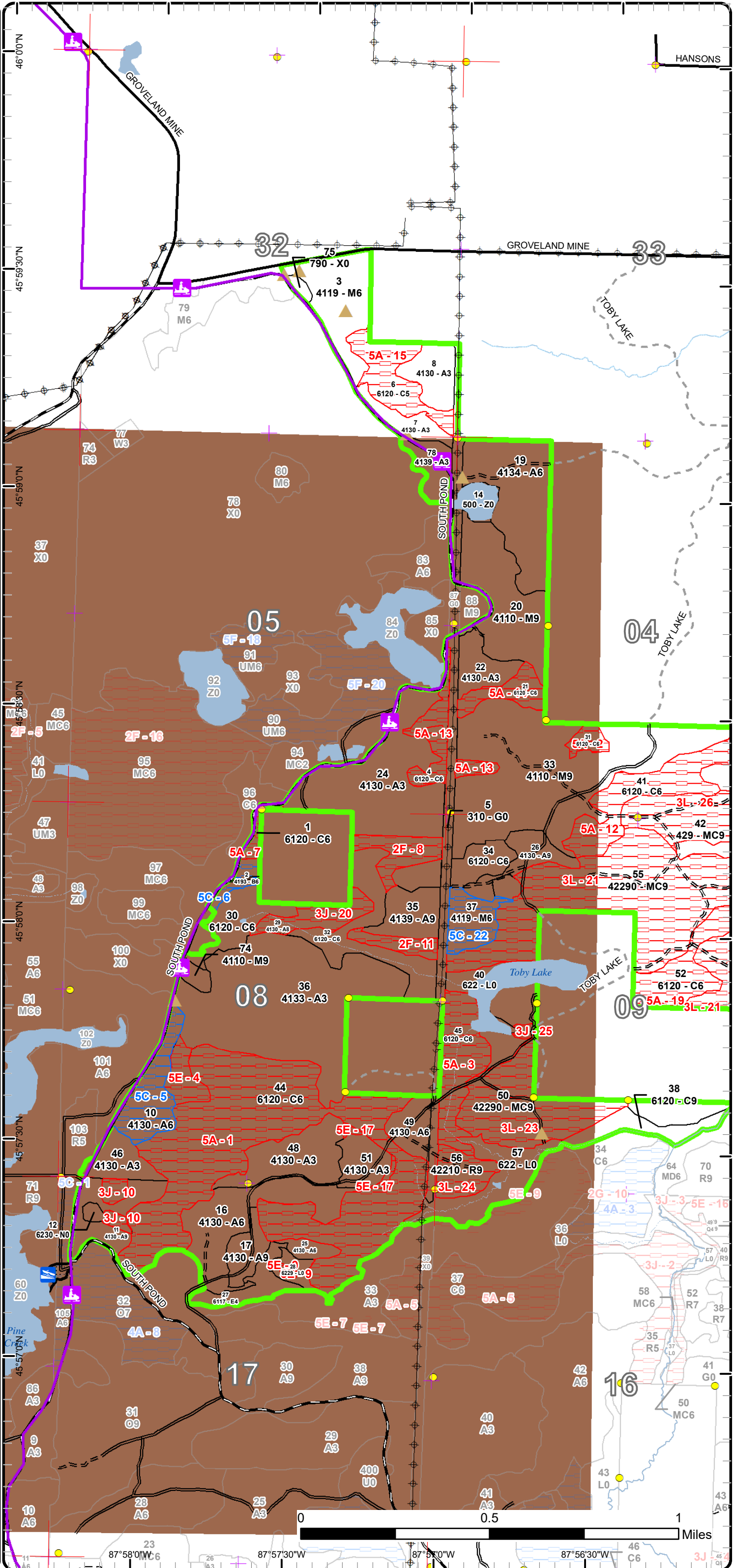


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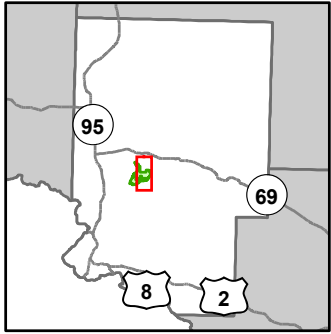


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- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- Wildlife Management Areas

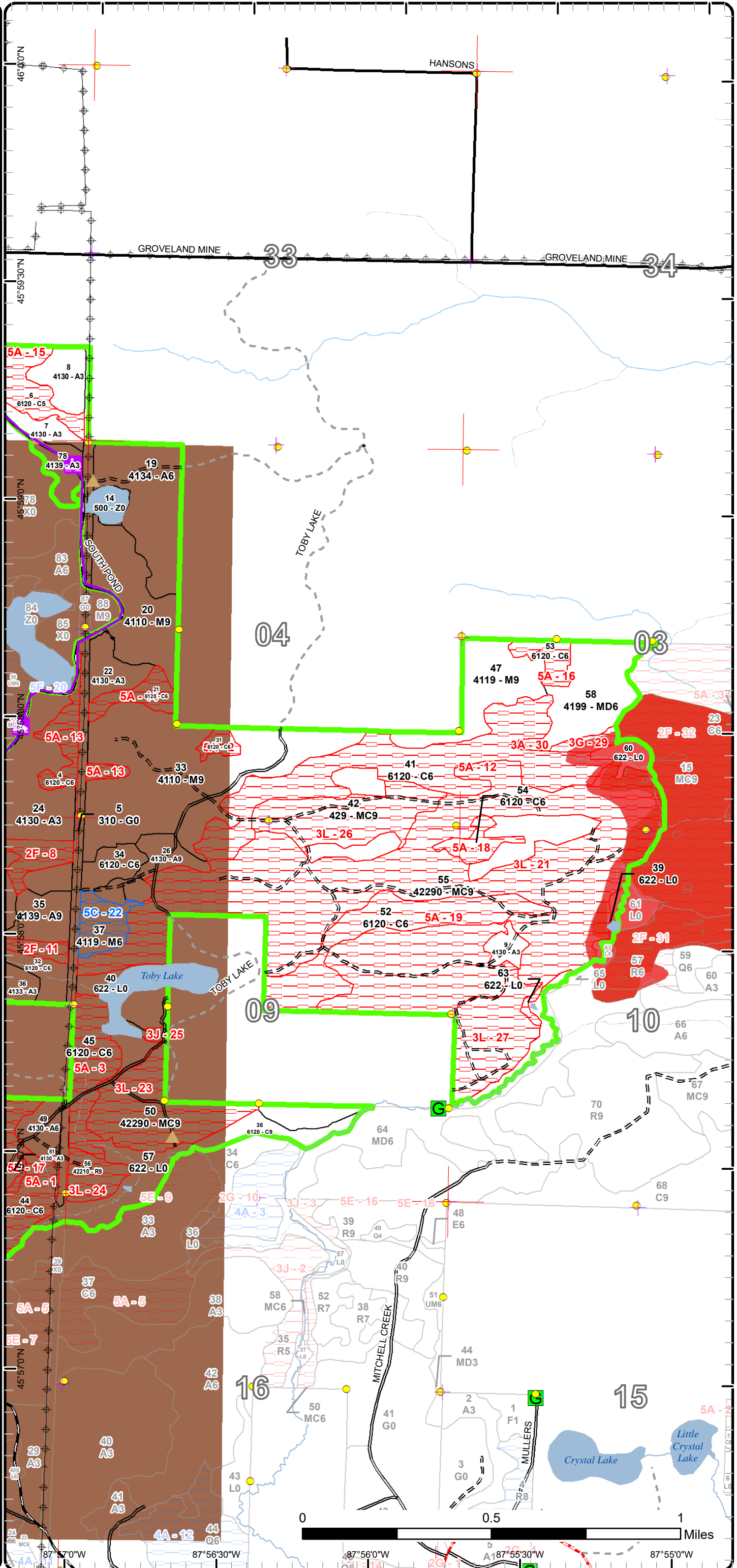


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 3A: Conservation Values incompatible with harvest at this time
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Forest Habitat Core Interior
- Cold Water Streams
- Cold Water Lakes
- Wildlife Management Areas



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	121	64	97	36	0	28	0	39	41	0	0	0	0	0	0	0	0	426
Bare/Sparsely Vegetated	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	0	0	11	0	338	48	0	0	0	15	411
Herbaceous Openland	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10
Lowland Shrub	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0	0	36
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	392	0	0	0	0	0	392
Northern Hardwood	0	0	0	0	0	0	0	38	0	128	0	0	0	0	0	0	0	36	202
Paper Birch	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
Red Pine	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	11
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	47
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	94	121	64	97	36	0	28	79	39	169	11	0	741	48	0	0	0	108	1634



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 72
Total Compartment Acres: 1,632

Commercial Harvest - 108
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 28

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	57	0	0	0	0	0	0	0	0	57
Mixed Upland Deciduous	0	0	0	0	0	31	0	0	0	31
Natural Mixed Pines	0	0	0	0	0	37	0	0	0	37
Upland Conifers	0	0	0	0	0	0	0	0	12	12
Total	57	0	0	0	0	68	0	0	12	137

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	137	0	0	0	0	0	0	0	0	137
Next Step	0	0	0	0	0	0	73	0	0	73
Total	137	0	0	0	0	0	73	0	0	209



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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Proposed Treatments:

11	12072011.6_C ut	14.9	4130 - Aspen	Sawtimber Well	72	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater. Do not cut red pine, white pine, hemlock and oak. Buffer vernal and stream 100'.</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, pine & oak</p> <p><u>Regen:</u></p> <p><u>Other</u> Put retention in buffer. Look at using no whole tree harvest spec.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
17	12072017-Cut	8.5	4130 - Aspen	Sawtimber Well	72	Unspec ified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater at DBH. Leave sub-merchantable spruce and fir. Do not cut white pine, cedar, hemlock and 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> Aspen, oak, pine</p> <p><u>Regen:</u></p> <p><u>Other</u> No retention. Look at using no whole tree harvest spec.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
26	12072026-Cut	11.1	4130 - Aspen	Sawtimber Well	72	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater. Do not cut cedar, oak, hemlock, red pine and white pine.</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, oak</p> <p><u>Regen:</u></p> <p><u>Other</u> Some poor quality hardwoods may be included in this cut.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
35 12072035-Cut	12.8	4139 - Aspen, Mixed Deciduous	Sawtimber Well	87	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<u>Prescription Specs:</u> Cut all trees 2 inches and greater. Do not cut white pine, cedar, hemlock and oak. Cut spruce/fir 2 sticks and up. Green tree between 5 and 12 log/pole red pine. Buffer stream to north 100 feet.										
<u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Acceptable Regen:</u> Aspen, pine, maple & oak										
<u>Other Comment:</u> Steep hill on south end of stand 35 can be excluded. Buffer stream to north 100 feet. Access north of stream would be difficult and would require pushing a road in along stand 34, just north of hemlock in stand 33. Acreage gained would be small from cutting north of stream, as steep hill running east and west is inoperable. A road will have to be pushed up through stand 37 and across power line.										
<u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021										
42 12072042-1-New	11.9	429 - Mixed Upland Conifers	Sawtimber Well	118	141-170	Harvest	Other - Specify	4117 - Mixed N. Hardwood - Pine	Two-Aged	Yes
<u>Prescription Specs:</u> Cut all trees 2 inches and greater in hardwood patches. Mark accessible red pine areas adjacent/within hardwood patches to a basal area of 110. Do not cut cedar, hemlock and white pine. Only mark no cuts trees for access within stand if absolutely needed. Do not cut sub-merchantable spruce/fir. Winter cut only.										
<u>Next Step Treatments:</u>										
<u>Acceptable Regen:</u> Northern hardwood associates, red pine, white pine, cedar and hemlock.										
<u>Other Comment:</u> May be optional unit as treatment will be small. Very small amount of pine will be thinned. Most of treatment area will be clear-cut mixed deciduous.										
<u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021										
49 12072049-Cut	9.2	4130 - Aspen	Poletimber Well	58	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<u>Prescription Specs:</u> Cut all trees 2 inch and greater. Do not cut pine, cedar and hemlock. Do not cut sub-merchantable spruce/fir. No retention as stand is under 10 acres. Buffer creek on south west edge 100 feet.										
<u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Acceptable Regen:</u> aspen										
<u>Other Comment:</u> Look at using no whole tree harvest spec.										
<u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021										
50 12072050-Cut	20.5	42290 - Natural Mixed Pine	Sawtimber Well	118	141-170	Harvest	Crown Thinning	429 - Mixed Upland Conifers	Even-Aged	No
<u>Prescription Specs:</u> Thin red pine to 110 BA. Do not cut white pine, cedar, hemlock and oak. Cut all other species 2 inches and greater. Do not cut sub-merchantable spruce and fir. Only mark no cut if absolutely needed for access within stand.										
<u>Next Step Treatments:</u>										
<u>Acceptable Regen:</u> red pine & white pine										
<u>Other Comment:</u> Red line out any dense cedar or hemlock areas. Mark to protect cedar when present.										
<u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021										

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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
55 12072055-9-New	16.2	42290 - Natural Mixed Pine	Sawtimber Well	118	141-170	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	Yes
<p><u>Prescription</u> Thin red pine to 120 BA. Do not cut cedar, white pine and hemlock. Leave 2 unthinned pockets 1 chain in diameter. Create 2 regeneration gaps 1 chain in diameter. Only mark no cut trees if absolutely needed for access within the stand.</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> red pine and white 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 /2021</p>										
58 12072058-Cut	31.4	4199 - Other Mixed Upland Deciduous	Poletimber Well	69	111-140	Harvest	Crown Thinning	4117 - Mixed N. Hardwood - Pine	Uneven-Aged	No
<p><u>Prescription</u> Thin to 70 BA. do not cut cedar, hemlock, and pine. A few pine may be marked in the far south section of the stand for operation only.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood associates & pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Stay out of ERA area. BA may be above 70 where pine is thicker on the south side of the stand. Should be able to skid to the north where there is a break in the cliff/steep hill. If not, may be longer skid to the west and possibly the northeast. Terrain eliminates access from the south.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment 136.5
Acreage Proposed:



Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

				5C	2F	3A	3G	3J	3L	5A	5E	
426	366	19	41	Aspen	19	17			15			9
2	2	0	0	Bare/Sparsely Vegetated								
411	66	0	345	Cedar						345	0	
29	29	0	0	Herbaceous Openland						0		
10	10	0	0	Lowland Deciduous								
56	55	0	0	Lowland Shrub		0			0			0
2	2	0	0	Marsh								
36	31	0	5	Mixed Upland Deciduous			1	4				
392	37	0	355	Natural Mixed Pines					1	353		
202	190	12	0	Northern Hardwood	12						0	
5	0	5	0	Paper Birch	5							
11	0	0	11	Red Pine						11		
47	12	0	35	Upland Conifers						35		
5	5	0	0	Water								
1,632	805	35	791	Total Forested Acres	35	17	1	4	17	399	345	9
	49%	2%	49%	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	5A: Not able to obtain desirable regeneration	142	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5A: Not able to obtain desirable regeneration	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Jacob Siler : Examiner

Compartment: 72
Year of Entry: 2022



3	Unavailable	5A: Not able to obtain desirable regeneration	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This area serves as long-term retention for a stand that was originally an MD9. The cut encompasses stand 36 of compartment 72 and stand 100 of compartment 113.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is primarily bigtooth with some younger aspen in north section of the stand. Stand should hold well.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small amount of acreage with good amount on steep slope. Should be harvested with stand 97 of compartment 113 instead of by itself.							
7	Unavailable	5A: Not able to obtain desirable regeneration	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2F: Too steep	11	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Access would be hard into this area for little acreage. Additionally, there is a very steep hill that runs east and west. A stream also crosses through this stand.							

Report 4 – Site Conditions

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9	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: seed tree patches							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5A: Not able to obtain desirable regeneration	76	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5A: Not able to obtain desirable regeneration	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5A: Not able to obtain desirable regeneration	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5A: Not able to obtain desirable regeneration	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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16	Unavailable	5A: Not able to obtain desirable regeneration	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from stand 51 cut							
18	Unavailable	5A: Not able to obtain desirable regeneration	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5A: Not able to obtain desirable regeneration	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Most of stand in unavailable do to BMP's and large hill that slopes directly down to stream. Very little acreage would be available for harvest after implementing BMP's.							
21	Unavailable	3L: Other wildlife concerns	284	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Pine being left for cover. Understory can be managed when silviculture criteria is met; aspen too young to harvest at this time.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
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22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Look at treating next inventory period with maple stands to the north. Could possibly be cut with adjacent stands 35 and 26 of 2022 YOE.							
23	Unavailable	3L: Other wildlife concerns	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	3L: Other wildlife concerns	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: small stream							
26	Unavailable	3L: Other wildlife concerns	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	3L: Other wildlife concerns	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Jacob Siler : Examiner

Compartment: 72

Year of Entry: 2022



29	Unavailable	3G: Other Influence zones - See comments	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Groveland Mine ERA Complex. NO HARVEST. One should look into the actual boundary in ArcMap when setting up adjacent sale. I would recommend buffering the ERA to ensure no damage is done to the integrity of the ERA.</p>							
30	Unavailable	3A: Conservation Values incompatible with harvest at this time	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Small chunk of pine that will be left out of the adjacent thinning.</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
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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																																														
1	6120 - Lowland Cedar	Poletimber Well	3.1	120	171-200	N/A																																																																																																															
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2	4193 - Birch, Aspen	Poletimber Well	4.7	68	81-110	N/A	SBW damage present. Pine super canopy.																																																																																																														
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3	4119 - Mixed Northern Hardwoods	Poletimber Well	26.2	69	51-80	N/A	Approximately 3 acres of aspen along the snowmobile trail on the far south west portion of the stand, 49 years old. Some of the aspen and hardwoods in this area of stand are not accessible due to the steep grade and surrounding wet soil. Some older aspen throughout stand.																																																																																																														
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12	6230 - Cattail	Nonstocked	1.6	0	Unspecified	No	Mostly cattails with tag alder and some sparse trees																																																																							
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Bigtooth Aspen	45	Pole/Sapling	6	36																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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17	4130 - Aspen	Sawtimber Well	8.5	72	Unspecified	N/A	Small amount of aspen to the north between stand 16 and 44 is a little younger but merchantable with some scattered large old aspen. 2019	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Log	9		Balsam Fir	Low	Variable	Pole
Red Oak	2	Log/Pole	14		Red Maple	Low	Variable	Sapling
Paper Birch	5	Log/Pole	10		Hazelnut (Spp.)	High	5 - 10 feet	Tall Shrub
Quaking Aspen	45	Log	14	72	Oak (spp.)	Medium	< 5 feet	Seeding
Bigtooth Aspen	43	XLog/Log	18	72	White Pine	Low	Variable	Sapling
					Balsam Fir	Low	Variable	Sapling

19	4134 - Aspen, Spruce/Fir	Poletimber Well	38.8	27	Unspecified	N/A	Trace amounts white spruce, hemlock, sugar maple and super canopy red oak in canopy.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole/Sapling	5	27	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	25	Pole/Sapling	7		White Spruce	Low	Variable	Sapling
Northern White Cedar	3	Log/Pole	10		White Pine	Low	Variable	Sapling
Balsam Poplar	20	Pole/Sapling	5		Paper Birch	Trace	Variable	Sapling
Bigtooth Aspen	40	Pole/Sapling	5	27	Wild Red Raspberry	Medium	5 - 10 feet	Tall Shrub
Black Ash	2	Pole/Sapling	6		Sugar Maple	Low	Variable	Sapling

20	4110 - Sugar Maple Association	Sawtimber Well	36.2	84	81-110	N/A	Trace amounts of cedar, black ash and yellow birch in canopy. Some small vernal ponds present.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	72	Log/Pole	12	84	Sugar Maple	Low	Variable	Sapling
Basswood	25	Log/Pole	12		Balsam Fir	Low	Variable	Sapling
White Pine	1	Log/Pole	11		White Pine	Low	Variable	Sapling
Hemlock	1	Log/Pole	13		Leatherwood	Low	5 - 10 feet	Tall Shrub
White Ash	1	Log/Pole	10		Ironwood	Low	Variable	Sapling
					Sugar Maple	Medium	< 5 feet	Seeding
					White Spruce	Low	Variable	Sapling
					Wild Red Raspberry	Medium	< 5 feet	Tall Shrub

21	6120 - Lowland Cedar	Poletimber Well	9.2	120	141-170	N/A	Trace amounts of white pine, red pine and balsam fir.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	15	Log/Pole	12		Balsam Fir	Low	Variable	Sapling
Paper Birch	1	Log/Pole	10		Northern White Cedar	Trace	< 5 feet	Seeding
Hemlock	1	Log/Pole	11		White Spruce	Low	Variable	Sapling
Northern White Cedar	73	Log/Pole	10	120	Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple	10	Log/Pole	10		White Pine	Trace	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
22	4130 - Aspen	Sapling Well	10.5	27	Unspecified	N/A		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	1	Pole	6		Balsam Fir	Medium	Variable	Sapling
Red Maple	1	Pole	6		Sugar Maple	Trace	Variable	Sapling
Quaking Aspen	24	Sapling	3	27	Paper Birch	Trace	Variable	Sapling
Balsam Fir	1	Pole	7		Black Ash	Trace	Variable	Sapling
White Spruce	1	Pole	7		White Pine	Low	Variable	Sapling
Bigtooth Aspen	70	Sapling/Pole	4	27	Red Oak	Trace	Variable	Sapling
Black Ash	2	Pole	5		Ironwood	Trace	Variable	Sapling
					White Spruce	Low	Variable	Sapling
24	4130 - Aspen	Sapling Well	53.5	17	Immature	N/A	Trace amounts of oak in canopy. Trace amounts of super canopy white pine, red oak cedar and hemlock.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	70	Sapling	3	17	White Pine	Low	5 - 10 feet	Sapling
Balsam Fir	1	Sapling	3		Balsam Fir	Medium	5 - 10 feet	Sapling
White Spruce	2	Sapling	3		Red Pine	Trace	5 - 10 feet	Sapling
Sugar Maple	2	Sapling	2		Red Oak	Trace	< 5 feet	Seeding
Red Maple	10	Sapling	3		Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub
Balsam Poplar	15	Sapling	3		Tag Alder	Low	5 - 10 feet	Tall Shrub
25	4130 - Aspen	Poletimber Well	3.9	37	Unspecified	N/A	Stand is on a small rock out-cropping. 2019	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	98	Pole/Sapling	6	37	Cherry (spp.)	Trace	Variable	Sapling
Red Maple	1	Pole/Sapling	6		White Spruce	Trace	Variable	Sapling
Balsam Fir	1	Pole/Sapling	7		White Pine	Trace	Variable	Sapling
					Balsam Fir	Medium	Variable	Sapling
					Sweet Fern	Trace	< 5 feet	Tall Shrub
					Oak (spp.)	Trace	Variable	Sapling
					Red Pine	Trace	< 5 feet	Seeding
26	4130 - Aspen	Sawtimber Well	11.1	72	81-110	N/A		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	1	Log	17		White Pine	Low	Variable	Sapling
Red Maple	24	Log/Pole	10		Quaking Aspen	Low	Variable	Sapling
Bigtooth Aspen	40	Log/Pole	16	72	Red Pine	Trace	Variable	Sapling
Quaking Aspen	20	Log/Pole	15		White Spruce	Low	Variable	Sapling
Paper Birch	5	Log/Pole	10		Red Oak	Low	< 5 feet	Seeding
Red Oak	5	Log/Pole	15		Northern White Cedar	Trace	< 5 feet	Seeding
Sugar Maple	5	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
					Hemlock	Trace	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																
27	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	10.0	102	1-50	N/A	Spruce/balsam dying out. Stand is very diverse. Some flowing water was observed but no bed and bank. Trace amounts of pole sized balsam fir, cedar, paper birch and tamarack.																																																																																
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28	6229 - Mixed lowland shrub	Nonstocked	4.8	0	Unspecified	612 - Lowland Coniferous Forest	Black spruce stand cut in winter 2017 under Merriman Aspen sale. Seed tree pockets of 8" black spruce left. No spruce regen present yet. Currently sizable amount of cattails and young alder present. 2019																																																																																
29	4130 - Aspen	Sawtimber Medium	11.1	87	Unspecified	N/A	Stand is falling down and converting to pine, aspen and oak. Converting into an un-even aged stand as aspen falls out.																																																																																
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30	6120 - Lowland Cedar	Poletimber Well	14.6	120	81-110	N/A	Cedar has been cut previously in small gaps and narrow strips. Thick cedar BA is more around 200. 2019																																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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32 6120 - Lowland Cedar Poletimber Well 29.3 118 141-170 N/A All large spruce look to be dead.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	1	Log/Pole	15		Black Ash	Low	Variable	Sapling
Northern White Cedar	77	Log/Pole	10	118	Northern White Cedar	Low	< 5 feet	Seeding
Paper Birch	2	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Black Ash	20	Log/Pole	11		Balsam Poplar	Low	Variable	Sapling
					White Spruce	Low	Variable	Sapling
					Red Oak	Trace	< 5 feet	Seeding

33 4110 - Sugar Maple Association Sawtimber Well 95.7 84 51-80 N/A

Thinned 2016. Trace amounts of aspen and large white spruce in canopy. Stand has a few pockets of hemlock and some steep hills where BA is higher due to lack of operability. Two areas around stand 4 that are of lesser quality. 2019

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	64	Log/Pole	11	84	Balsam Fir	Medium	Variable	Sapling
Basswood	20	Log/Pole	12		White Pine	Low	< 5 feet	Seeding
Northern White Cedar	1	Log/Pole	11		Ironwood	Trace	Variable	Sapling
Hemlock	5	Log/Pole	12		Red Oak	Trace	< 5 feet	Seeding
Paper Birch	1	Log/Pole	11		Balsam Fir	Medium	Variable	Pole
Red Maple	5	Log/Pole	11		Red Oak	Trace	Variable	Sapling
Red Oak	2	Log/Pole	12		Quaking Aspen	Trace	Variable	Sapling
White Pine	1	Log	17		White Ash	Trace	Variable	Sapling
Red Pine	1	Log	17		Sugar Maple	Low	Variable	Sapling
					Red Maple	Low	Variable	Sapling
					Wild Red Raspberry	Medium	5 - 10 feet	Tall Shrub

34 6120 - Lowland Cedar Poletimber Well 11.5 118 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	1	Pole	6		White Spruce	Low	Variable	Sapling
Black Ash	5	Pole	8		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	92	Log/Pole	10	118	Red Oak	Trace	< 5 feet	Seeding
Black Spruce	2	Pole	8					



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36	4133 - Aspen, Mixed Pine	Sapling Well	99.9	5	Immature	N/A	Trace amounts of sapling sized balsam fir, white spruce and cherry. Super canopy white pine, red pine and red oak present. Some areas have a good amount of super canopy oak and pine. However, not a large enough area to make super canopy trees a designated stand.																																																																																
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37	4119 - Mixed Northern Hardwoods	Poletimber Well	11.8	69	111-140	N/A																																																																																	
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38	6120 - Lowland Cedar	Sawtimber Well	11.1	94	201+	N/A																																																																																	
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39	622 - Lowland Shrub	Nonstocked	3.1		Unspecified	No																																																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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40 622 - Lowland Shrub Nonstocked 13.0 Unspecified No

41 6120 - Lowland Cedar Poletimber Well 76.2 116 201+ N/A

Trace amounts of paper birch, black ash, pine, maple and BAM in the canopy. Most of the hemlock is concentrated on the east side of the stand.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Northern White Cedar		75	Log/Pole	10	116	Balsam Fir	Low	Variable	Sapling						
Black Spruce		15	Pole	8											
Hemlock		10	Log/Pole	12											

42 429 - Mixed Upland Conifers Sawtimber Well 46.9 118 141-170 N/A

Trace amounts of oak, aspen, balsam fir and yellow birch in the canopy. Stand is rocky with a mix of hemlock, pine and maple.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Red Maple		20	Pole	7	64	Balsam Fir	Medium	Variable	Sapling						
Paper Birch		7	Log/Pole	11		White Spruce	Low	Variable	Sapling						
Sugar Maple		10	Log/Pole	14		Paper Birch	Low	Variable	Sapling						
Black Ash		3	Log/Pole	10		Sugar Maple	Low	Variable	Sapling						
White Pine		20	XLog/Log	18	118	Red Pine	Trace	Variable	Sapling						
Red Pine		20	XLog/Log	18	118	White Pine	Medium	Variable	Sapling						
Hemlock		20	Log	16		White Ash	Trace	Variable	Sapling						
						Black Ash	Low	Variable	Sapling						
						Yellow Birch	Trace	Variable	Sapling						
						Northern White Cedar	Trace	Variable	Sapling						

44 6120 - Lowland Cedar Poletimber Well 142.2 116 171-200 N/A

Trace amounts of red pine, white pine, aspen, red maple, tamarack, balsam poplar and black ash. Stream runs through stand. Pocket of upland timber with aspen falling out located within stand.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Paper Birch		5	Pole/Log	8		Balsam Fir	Low	Variable	Sapling						
Black Spruce		25	Pole/Log	9		White Pine	Trace	Variable	Sapling						
Northern White Cedar		70	Log/Pole	10	116	Tag Alder	Low	5 - 10 feet	Tall Shrub						
						Paper Birch	Trace	Variable	Sapling						
						Black Ash	Trace	Variable	Sapling						

45 6120 - Lowland Cedar Poletimber Well 23.0 116 141-170 N/A

Stream within stand. Upland portion to the north mostly red pine with paper birch and aspen falling out. Upland portion hit hard by SBW.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Paper Birch		5	Pole	6		Balsam Fir	Low	Variable	Sapling						
Black Spruce		15	Pole/Log	8		Tag Alder	Low	5 - 10 feet	Tall Shrub						
Northern White Cedar		78	Log/Pole	10	116	Black Ash	Trace	Variable	Sapling						
Red Pine		2	Log/XLog	17		Paper Birch	Trace	Variable	Sapling						
						Northern White Cedar	Trace	< 5 feet	Seeding						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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46 4130 - Aspen Sapling Well 10.7 17 Unspecified N/A Trace canopy white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	95	Sapling	3	17	Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub
Red Maple	5	Sapling	3		Red Oak	Low	< 5 feet	Seeding
					White Spruce	Trace	< 5 feet	Seeding
					Red Pine	Trace	Variable	Sapling
					Wild Red Raspberry	Trace	5 - 10 feet	Tall Shrub

47 4119 - Mixed Northern Hardwoods Sawtimber Well 28.7 84 81-110 N/A Trace amounts of white ash, paper birch and yellow birch in the canopy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	58	Log/Pole	10	84	Balsam Fir	Low	Variable	Sapling
Basswood	10	Log/Pole	12		Sugar Maple	Low	Variable	Sapling
Hemlock	10	Log/Pole	12		Red Maple	Low	Variable	Sapling
Red Maple	20	Log/Pole	10		White Pine	Low	Variable	Sapling
Northern White Cedar	2	Log/Pole	12					

48 4130 - Aspen Sapling Well 22.4 29 Immature N/A Trace amounts of super canopy log sized red pine and red oak. Trace amounts of pole sized white spruce and red maple. Most of the tag alder is concentrated to one are in the center of the stand, about 2 acres. 2019

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	45	Sapling/Pole	4	29	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	5	Pole	8		Red Pine	Low	Variable	Sapling
Balsam Poplar	15	Sapling/Pole	3		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	35	Pole/Sapling	5	29	Cherry (spp.)	Trace	Variable	Sapling
					Red Oak	Trace	Variable	Sapling
					Red Maple	Low	Variable	Sapling
					Paper Birch	Trace	Variable	Sapling

49 4130 - Aspen Poletimber Well 9.2 58 81-110 N/A Trace amounts of white pine, paper birch, red pine and cherry saplings. Trace amounts of hemlock and balsam poplar pole/log sized.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	11		Balsam Fir	High	Variable	Sapling
Quaking Aspen	85	Log/Pole	10	58	White Spruce	Medium	10 - 20 feet	Sapling
Paper Birch	2	Log/Pole	10		Balsam Fir	High	Variable	Pole
Red Pine	8	XLog/Log	20		Northern White Cedar	Low	Variable	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
50	42290 - Natural Mixed Pine	Sawtimber Well	60.1	118	141-170	N/A	White Pine & Red Pine in the super canopy. This stand has variable BA with a portion of it thinned in 2004, others portions have not been thinned and have 200+BA; few acre pocket of thick red pine to the far north and far east of stand. Small wet exclusion in northern section of stand. Most of the larger spruce and fir is dead with only a trace amount being alive. Trace amount of black ash and oak.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		2	Log/Pole	10		Balsam Fir		Medium	Variable	Sapling	
Paper Birch		5	Log/Pole	10		White Spruce		Trace	Variable	Sapling	
Quaking Aspen		3	Log/Pole	12		Aspen (spp.)		Trace	Variable	Sapling	
Northern White Cedar		2	Log/Pole	10		Hazelnut (Spp.)		High	5 - 10 feet	Tall Shrub	
White Pine		48	Log	17	118	White Pine		Low	Variable	Sapling	
Red Pine		40	Log	15		Balsam Poplar		Trace	Variable	Sapling	
						Red Maple		Low	Variable	Sapling	
						Paper Birch		Trace	Variable	Sapling	
						Red Pine		Trace	Variable	Sapling	
51	4130 - Aspen	Sapling Well	11.8	6	Immature	N/A		Trace amounts of super canopy log sized red pine white pine and red oak. Trace amounts of super canopy pulp sized jack pine, balsam poplar, red maple and cherry. Trace amounts of red pine and white pine saplings. 2019			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Quaking Aspen		91	Sapling	1	6						
Paper Birch		2	Sapling	1							
Red Maple		5	Sapling	1							
Balsam Fir		1	Sapling	1							
52	6120 - Lowland Cedar	Poletimber Well	40.7	118	171-200	N/A	Trace amounts of black spruce paper birch, pine, maple, balsam poplar and aspen adjacent to private. Trace amounts of pine on ridge				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Ash		5	Pole/Log	8		Balsam Fir		Trace	Variable	Sapling	
Northern White Cedar		95	Log/Pole	10	118	Black Ash		Low	Variable	Sapling	
53	6120 - Lowland Cedar	Poletimber Well	7.7	116	141-170	N/A	Stand is primarily wet cedar flats with several small upland hills in-between. 2019				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		2	Log/Pole	11		Balsam Fir		Low	Variable	Sapling	
Northern White Cedar		74	Log/Pole	10	116	Northern White Cedar		Trace	Variable	Sapling	
White Pine		1	Log/XLog	17		Sugar Maple		Low	Variable	Sapling	
Hemlock		15	Log/Pole	10		White Pine		Low	Variable	Sapling	
Red Maple		5	Log/Pole	10		Balsam Poplar		Low	Variable	Sapling	
Black Ash		2	Pole/Log	8							
Balsam Poplar		1	Log/Pole	12							
54	6120 - Lowland Cedar	Poletimber Well	7.7	118	141-170	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		100	Log/Pole	10	118	Tag Alder		Low	5 - 10 feet	Tall Shrub	
						Balsam Fir		Low	Variable	Sapling	
						Black Ash		Trace	Variable	Sapling	
						Northern White Cedar		Trace	< 5 feet	Seeding	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
55	42290 - Natural Mixed Pine	Sawtimber Well	331.5	118	141-170	N/A	Aspen cut out and pine thinned in 1994. Stand is mostly red and white pine on rocky soil with young aspen throughout. There are also small veins and pockets of hemlock and cedar. Pine to the north looks to have less aspen present in the sub-canopy and a high stocking of pine saplings. BA also seems to be a little higher to the north.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		35	XLog/Log	18	118	Quaking Aspen		
Red Pine		55	XLog/Log	18	118	White Pine		
Hemlock		10	Log/XLog	16		White Spruce		
						Balsam Fir		
						Paper Birch		
						Red Pine		
						Sugar Maple		
						Northern White Cedar		
						Balsam Fir		
						Northern White Cedar		
						Balsam Poplar		
						Black Ash		
56	42210 - Natural Red Pine	Sawtimber Well	10.6	118	141-170	N/A	Trace amounts of red maple pole/log size. Aspen spruce and fir falling out.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		2	Log/Pole	10		Balsam Fir		
Quaking Aspen		4	XLog/Log	18		White Spruce		
White Spruce		1	Log/Pole	13		Red Maple		
White Pine		7	Log/XLog	17		Red Pine		
Red Pine		85	Log/XLog	17	118	White Pine		
Northern White Cedar		1	Log/Pole	11				
57	622 - Lowland Shrub	Nonstocked	21.6		Unspecified	No		
58	4199 - Other Mixed Upland Deciduous	Poletimber Well	36.4	69	111-140	N/A		Mostly rocky hardwoods transitions to pine with hardwood. This stand has a variable BA with some areas falling below 111-140 and more towards 100.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		35	Log/Pole	10	69	Balsam Fir		
Red Maple		18	Log/Pole	10		White Spruce		
Basswood		5	Log/Pole	12		Balsam Fir		
Paper Birch		21	Log/Pole	11		White Pine		
Quaking Aspen		2	Log	17		Sugar Maple		
White Pine		10	Log	17		Ironwood		
Red Pine		2	Log	17				
Hemlock		5	Log/Pole	12				
Northern White Cedar		2	Log/Pole	10				
60	622 - Lowland Shrub	Nonstocked	5.8		Unspecified	No		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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63 622 - Lowland Shrub Nonstocked 7.4 Unspecified No

74 4110 - Sugar Maple Association Sawtimber Well 3.1 84 81-110 N/A

Trace amounts of red oak and white ash in canopy. Stand was thinned when adjacent clear cut was done. Some areas still have a residual BA on the high side, 140.

Canopy Species					Sub-Canopy Species			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	82	Log/Pole	10	84	Balsam Fir	Trace	Variable	Sapling
White Pine	15	Log	16		White Pine	Medium	Variable	Sapling
Red Pine	1	Log	16		Sugar Maple	Low	< 5 feet	Seeding
Red Maple	2	Log/Pole	11		Red Pine	Trace	Variable	Sapling
					Oak (spp.)	Trace	Variable	Sapling
					Red Maple	Low	Variable	Sapling
					Sugar Maple	Medium	Variable	Sapling
					Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub

75 790 - Other Bare/Sparsely Vegetated Nonstocked 1.6 Unspecified No

78 4139 - Aspen, Mixed Deciduous Sapling Well 9.2 6 Immature N/A

Trace amounts of cherry and ironwood. A few scattered larger BAM on the NW side along road.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	25	Sapling	1	6
Bigtooth Aspen	25	Sapling	1	6
White Spruce	2	Sapling	1	
Paper Birch	2	Sapling	1	
Balsam Poplar	39	Sapling/Pole	1	6
White Pine	5	Sapling	4	
Red Pine	1	Sapling	1	
Sugar Maple	1	Sapling	1	