



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12056

Entry Year 2025

Acreage: 1,988

County Dickinson

Management Area: Ralph Moraine

Stand Examiner: Andrew Church

Legal Description:

T42N R29W Sections 16,17,21-23,26-30

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Protect riparian areas during management activities.

Soil and topography:

There is much variation in both soil types and topography. The soil ranges from Emmet rock outcrop complexes on the steep peaks to well drained sandy loams on the ridges and Waucedah - Cathro mucks on the very poorly drained areas near the creeks and rivers. Some terrain within this compartment is very steep and rocky.

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

Many blocks of private ownership are scattered within and around the entire compartment. Active forest management both on private and State of Michigan lands will continue in the area. Snowmobiling, hunting, fishing, and boating are the main recreational use patterns.

Unique Natural Features:

West Branch Sturgeon River, and Six Mile Lake

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Multiple waterbodies are located throughout this compartment-Solberg Lake Creek (Designated Trout Stream), Solberg Lake, Six Mile Creek, Six Mile Lake, West Branch Sturgeon River (Designated Trout Stream), and wetlands. For all designated trout streams less than 50 feet in width, a 300' buffer is recommended in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope. For all non-designated trout streams and waterbodies should include a 100' buffer.

Wildlife Habitat Considerations:

The compartment is interspersed with creeks, lakes, drainages and wetlands which makes it particularly valuable for wildlife. Lowland hardwood types provide excellent food sources for deer, bear and migratory songbirds. Swamp conifers provide winter cover for deer, bobcat and furbearers and summer refuge for bear.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till, sometimes thin to discontinuous. The glacial drift thickness varies between 10 and 50 feet. The Cambrian Munising Group and Precambrian Archean granite/gneiss, Volcanics and sedimentary rocks subcrop below the glacial drift. The Granite/Gneiss could be used for decorative or building stone. A Randville Dolomite marble quarry is located four miles to the southeast. Groveland Iron mine is located approximately one mile to the southwest. Most of this compartment was previously leased for metallic exploration, and potential may still exist. A gravel pit is located in Section 26 and there appears to be potential. There is no economic oil and gas production in the UP.

Vehicle Access:

Vehicle access is fair. There are many roads however, most roads within the compartment are accessed through private land. Vehicle access for the general public is limited. Six Mile Lake Road serves as the primary access point.

Survey Needs:

Many survey corners are needed.

Recreational Facilities and Opportunities:

The Six Mile Lake Boating Access Site, and Snowmobile Trail #16 are located within Compartment 56. Furthermore, there are excellent opportunities for hunting and fishing.

Fire Protection:

Located within Felch's fire protection area. Access is difficult for fire equipment with the private ownership and rocky areas both providing operational challenges.

Additional Compartment Information:

The following reports from the Inventory are attached:

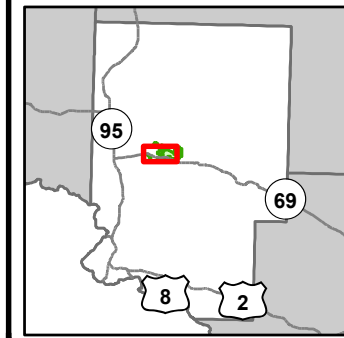
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

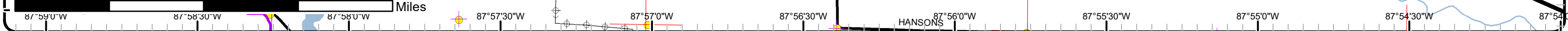
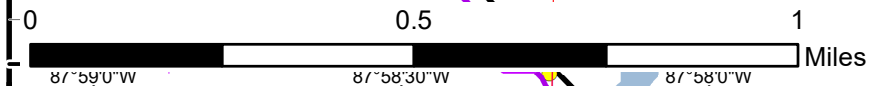
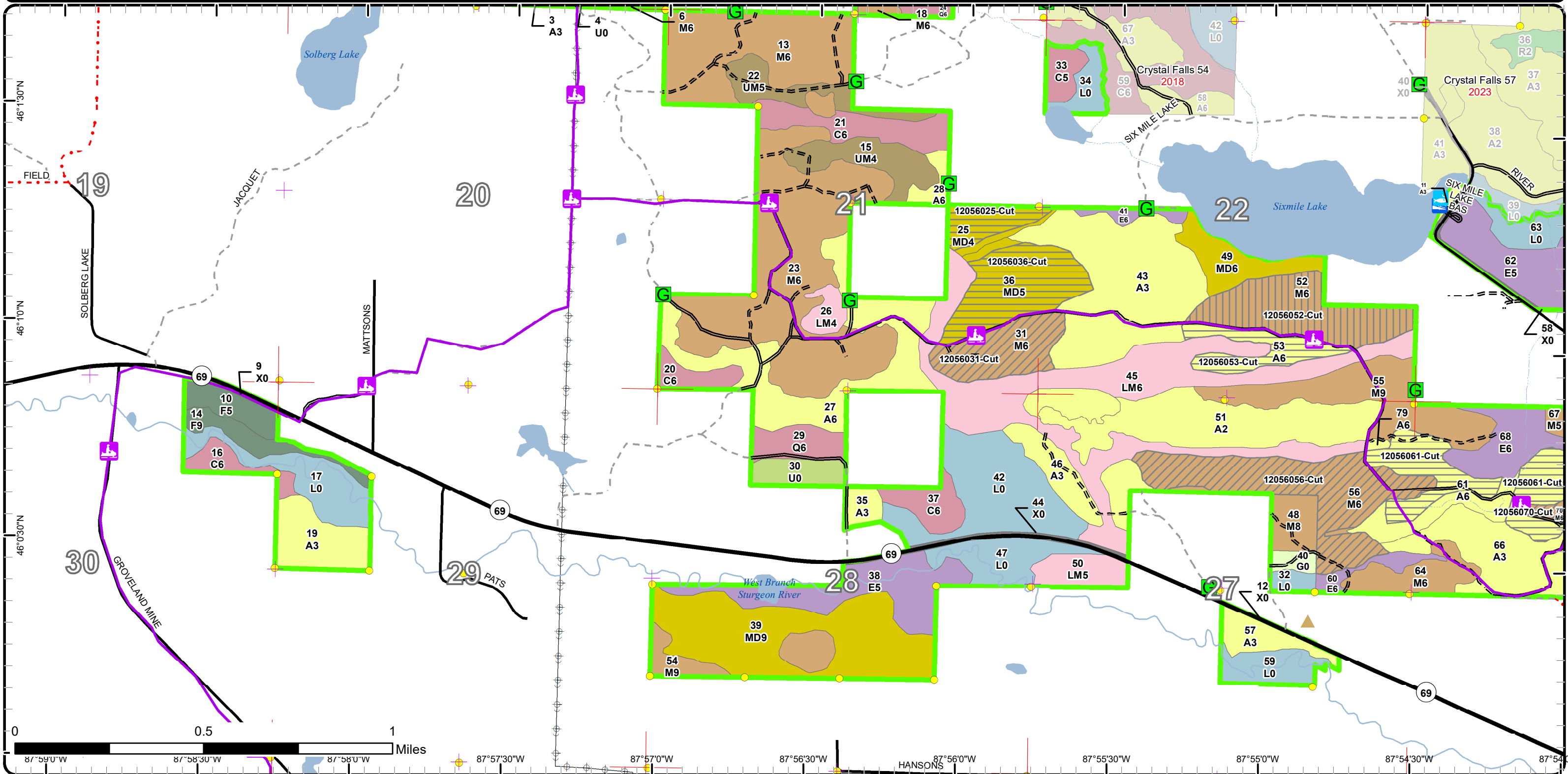
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 56
 T42N,R29W, Sec. 21-23, 26-30
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Moraine
 YOE: 2025
 Acres: 1988.4 GIS Calculated
 Examiner: Andrew Church
 Map Revised: 8/1/2023
 Map Phase: Review

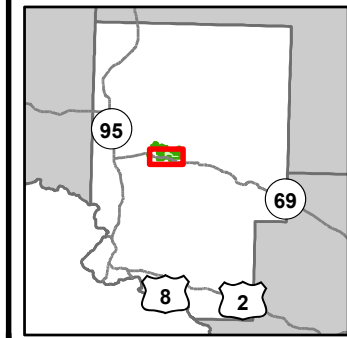


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Berms
- Gate
- Boating Access Site
- Fishing Access Site
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub
- 411 - Northern Hardwood

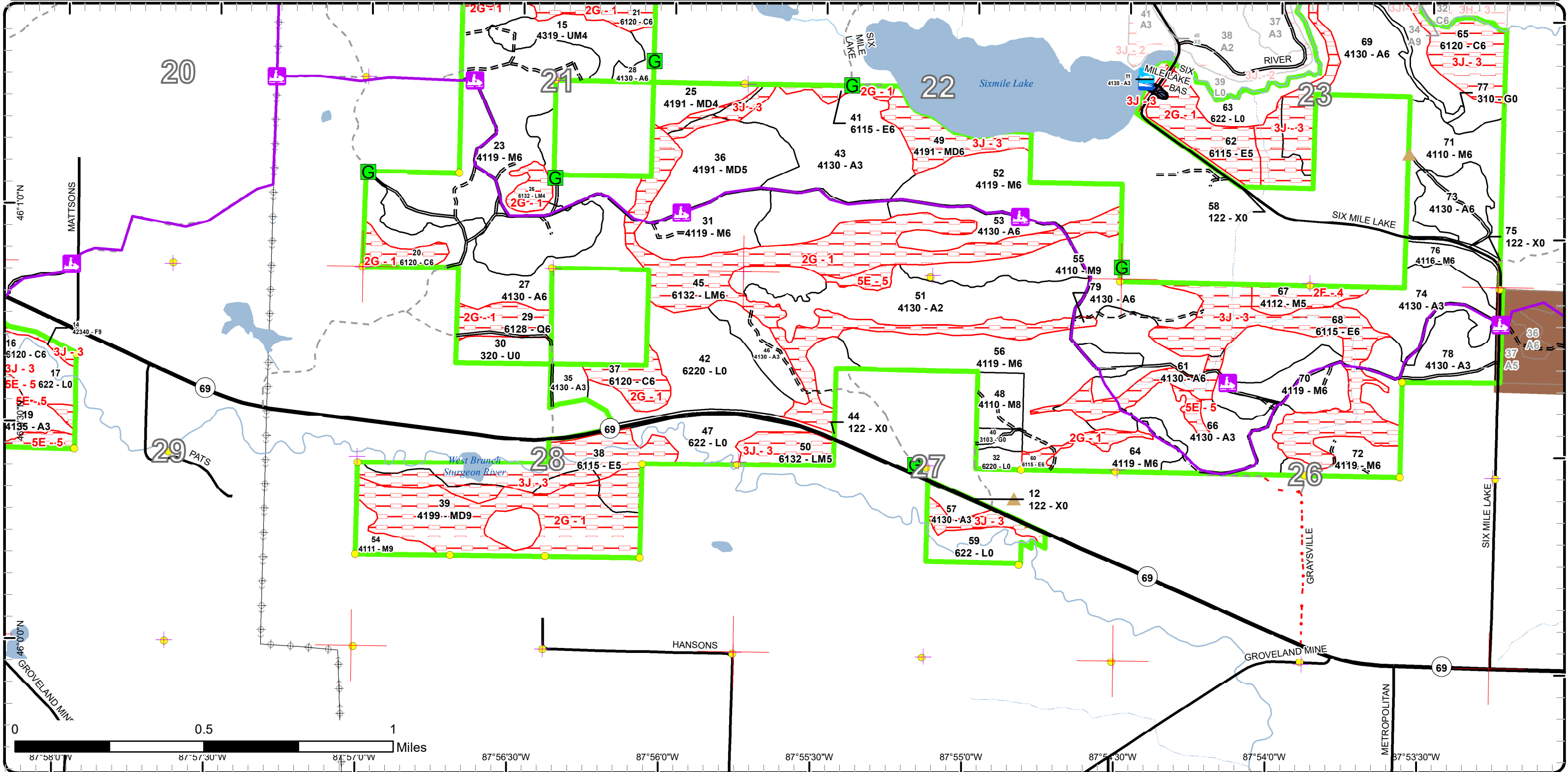


Special Conservation Areas

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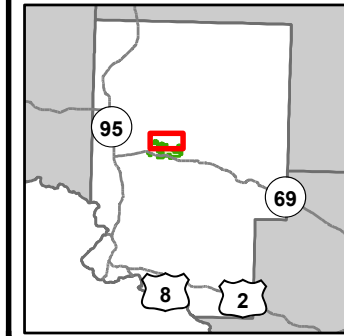


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- 2F: Too steep
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- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- Wildlife Management Areas
- Boat Access Site

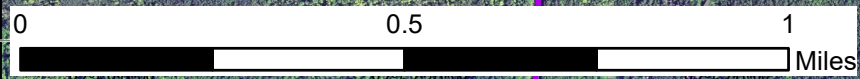
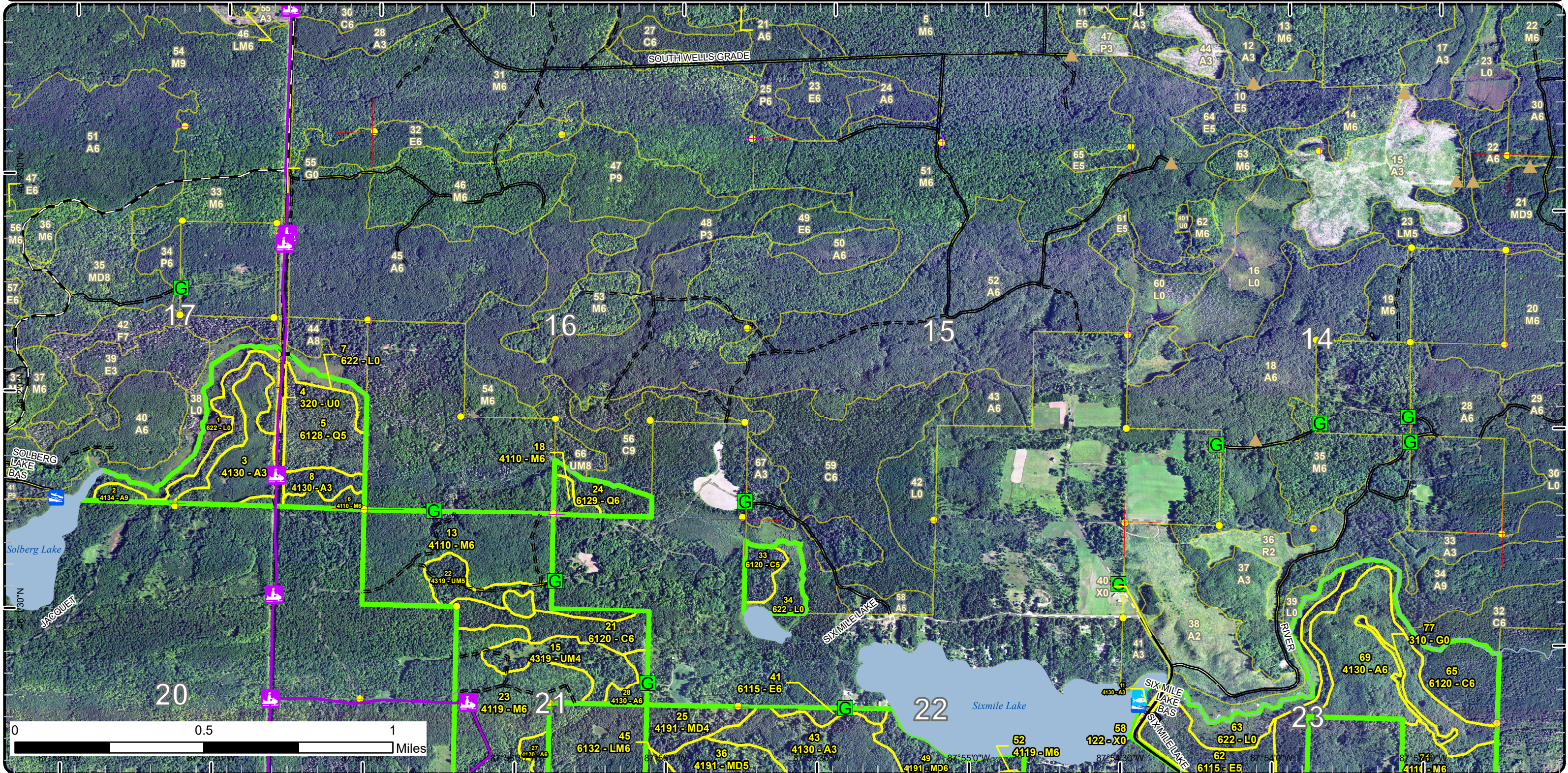


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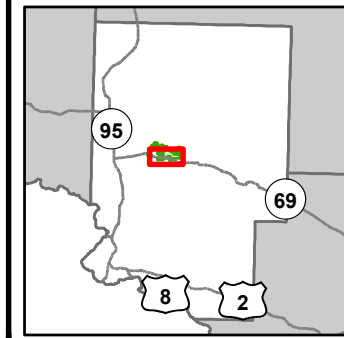


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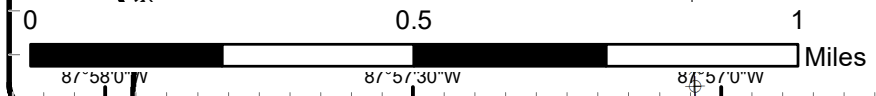
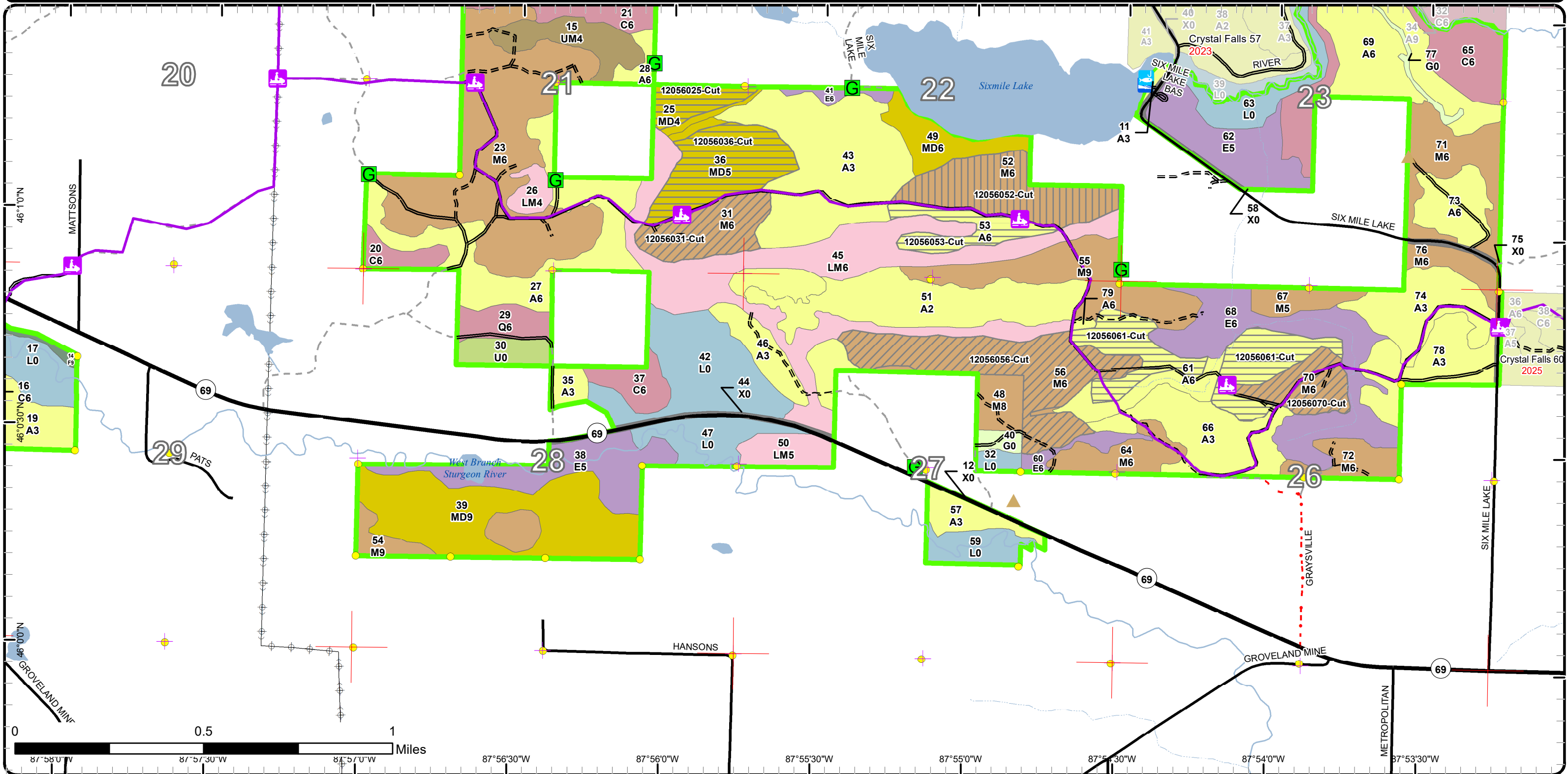


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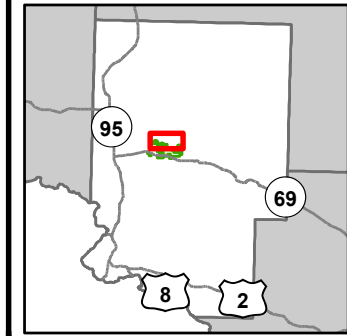
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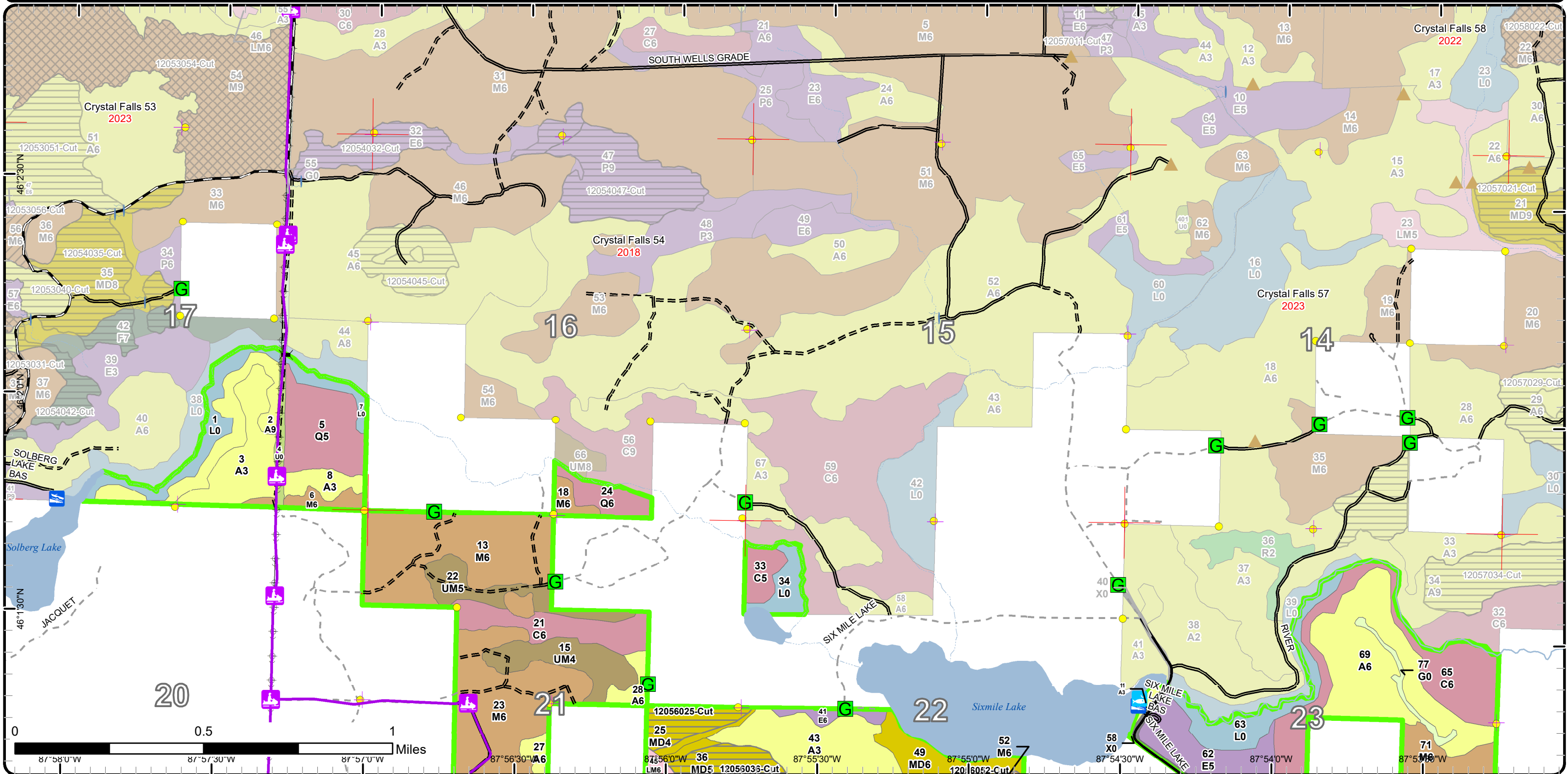
METROPOLITAN

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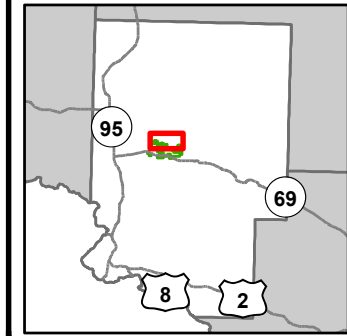


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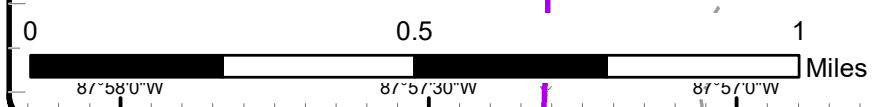
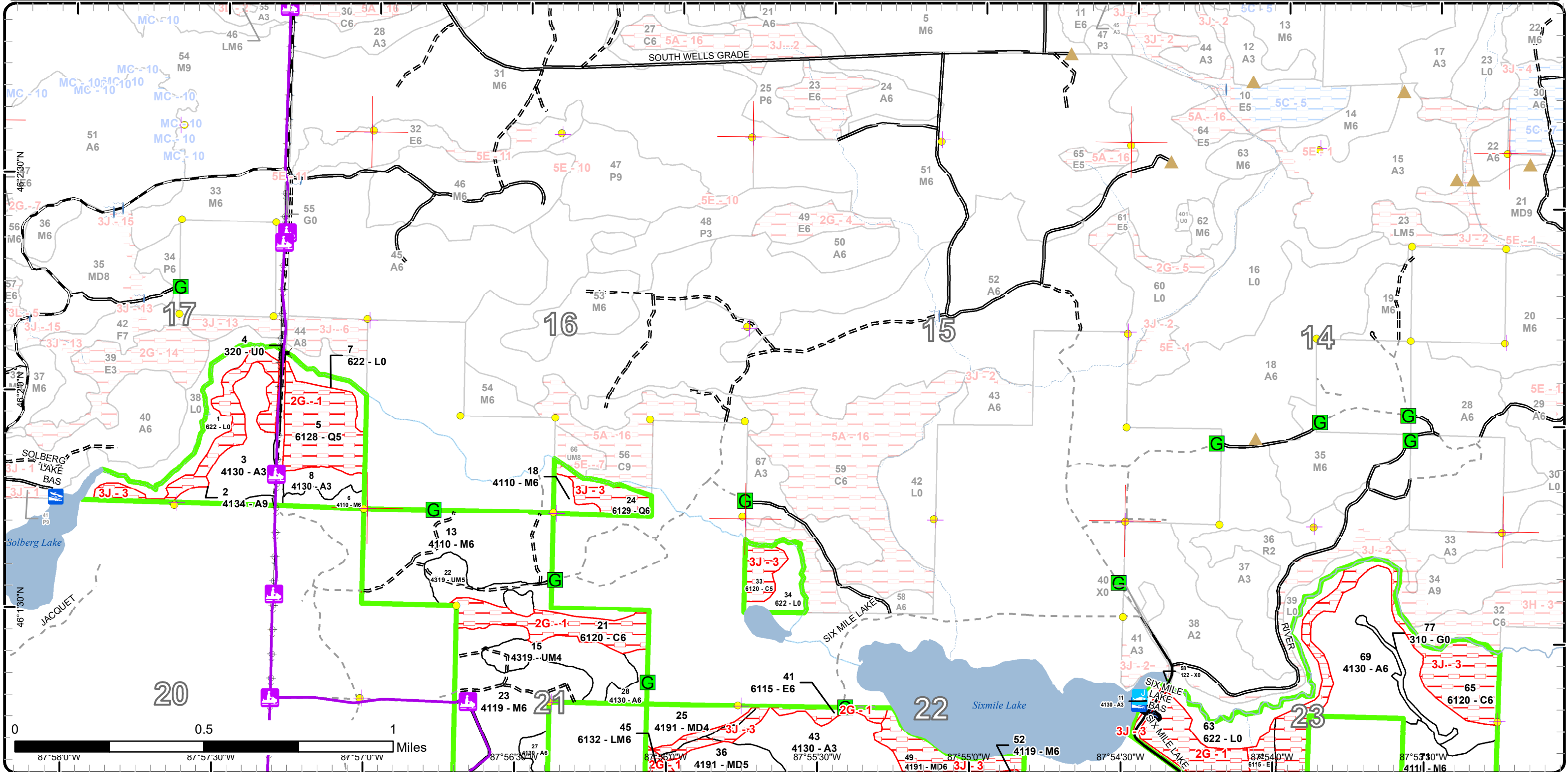


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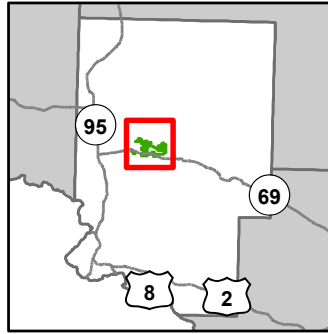


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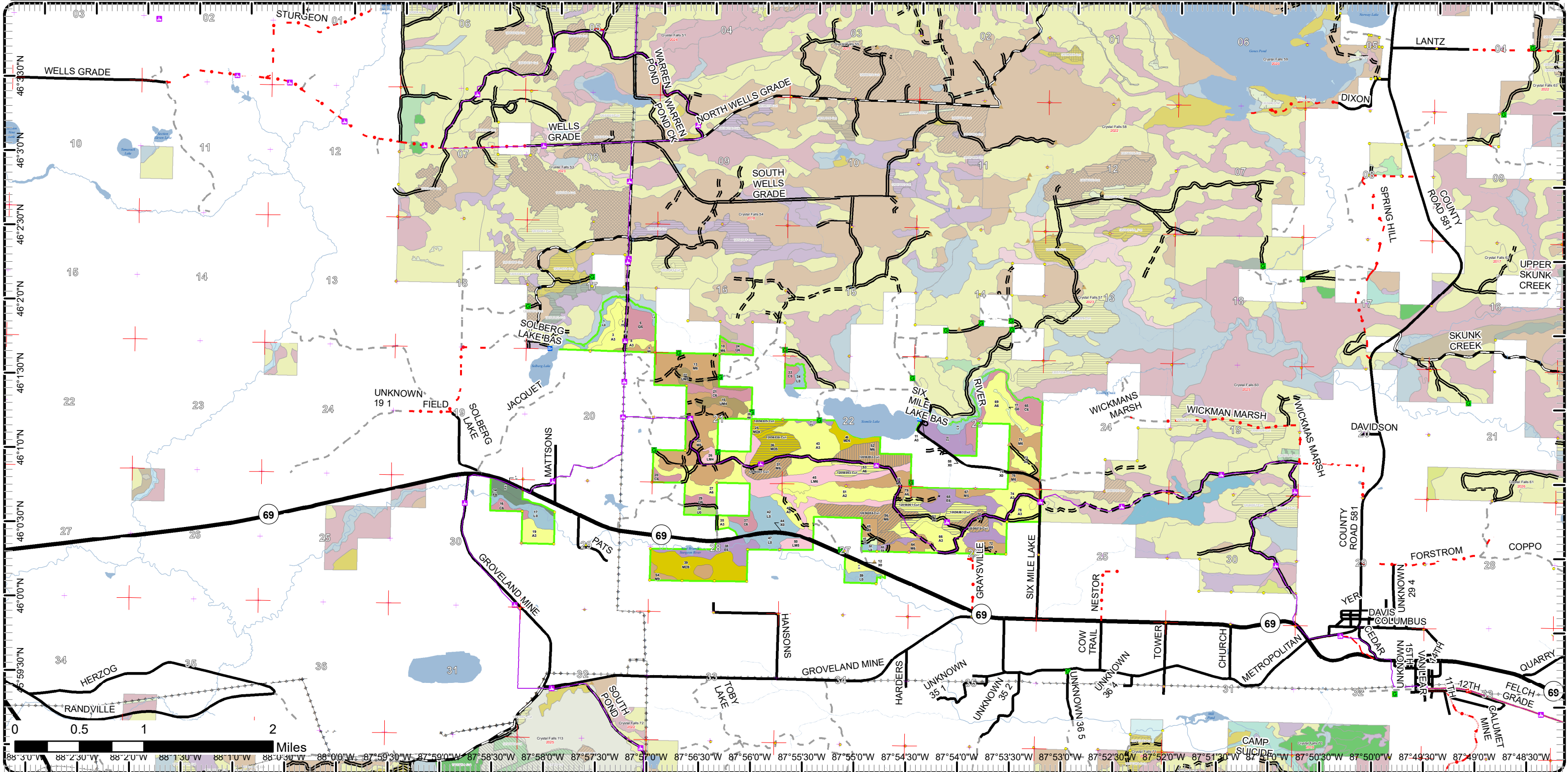


Overview Map

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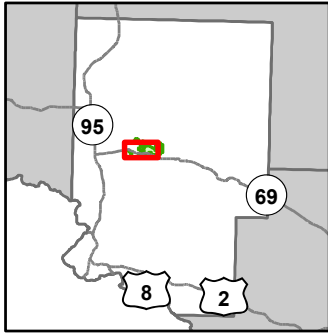


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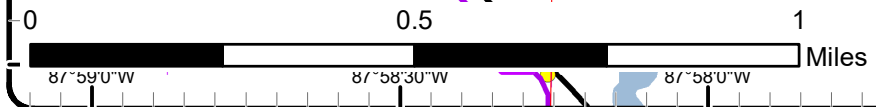
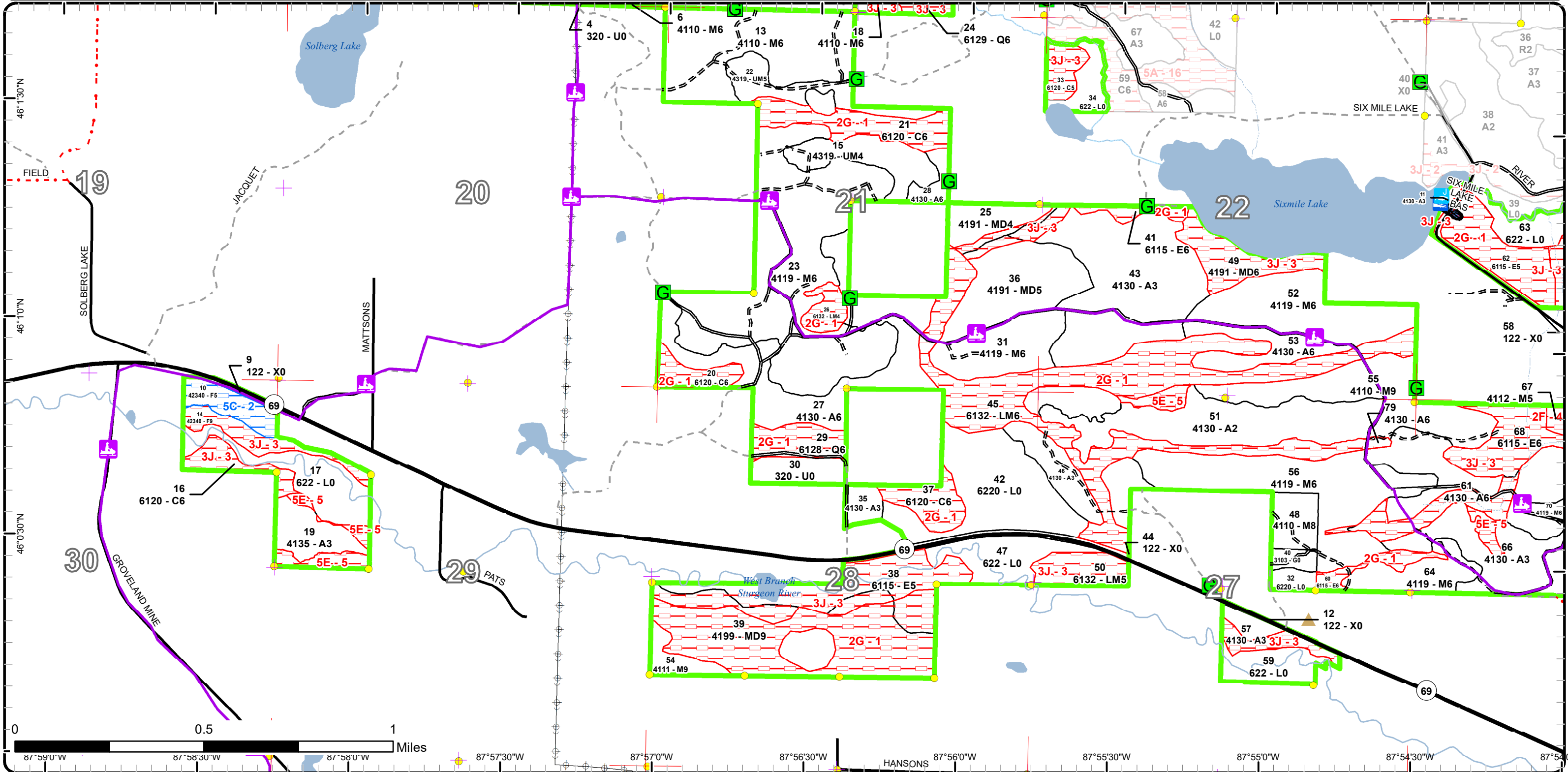


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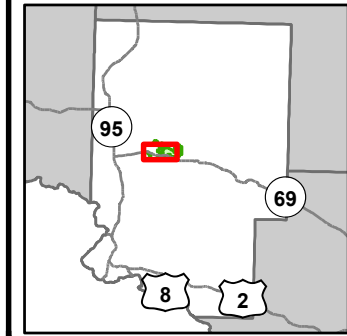


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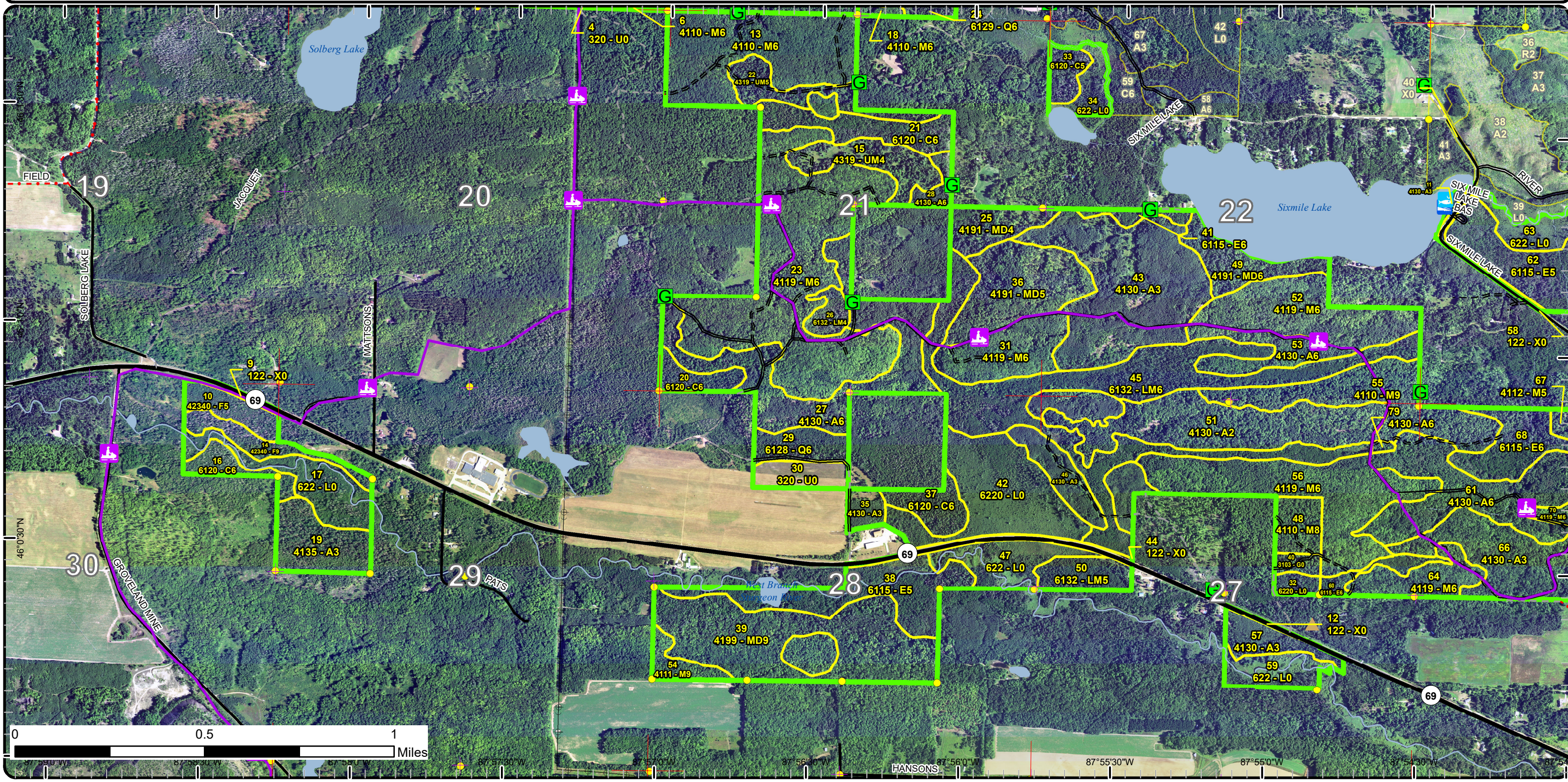


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Report 1 – Total Acres by Cover Type and Age Class



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+	Unseen-Aged	Total
Aspen	0	133	71	76	168	60	80	0	0	21	0	0	0	0	0	0	0	0	608
Cedar	0	0	0	0	0	0	0	0	0	0	77	32	0	0	0	0	0	0	109
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	0	0	0	0	11	29	0	13	0	0	0	0	0	0	0	52
Lowland Deciduous	0	0	0	0	0	0	0	0	0	100	48	0	0	0	0	0	0	0	148
Lowland Mixed Forest	0	0	0	0	0	0	0	0	7	13	109	0	0	0	0	0	0	0	129
Lowland Shrub	169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	169
Mixed Upland Deciduous	0	0	0	0	0	0	56	0	20	77	0	0	0	0	0	0	0	0	153
Northern Hardwood	0	0	0	0	0	0	0	0	38	198	280	0	0	0	0	0	0	0	516
Upland Mixed Forest	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Upland Shrub	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Upland Spruce/Fir	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	24
Urban	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Total	213	133	71	76	206	60	136	35	94	409	527	32	0	0	0	0	0	0	1989



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 56
Total Compartment Acres: 1,988

Commercial Harvest - 268
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	Overshory Removal	Salvage	Other	Total Acres
Aspen	65	0	0	0	0	0	0	0	0	65
Mixed Upland Deciduous	51	0	0	0	0	0	0	0	0	51
Northern Hardwood	0	0	0	0	43	110	0	0	0	153
Total	116	0	0	0	43	110	0	0	0	269

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	269	0	0	0	0	0	0	0	0	269
Next Step	0	0	0	0	0	0	159	0	0	159
Total	269	0	0	0	0	0	159	0	0	427



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:

25	12056025-Cut	12.8	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	54	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest using 4" spec. Leave Cherry, Cedar, Hemlock, Pine, Oak if found. Also leave conifers measuring 6 inches and less at the stump. Retain 30-40 BA in hardwood pockets. <u>Specs:</u> Buffer stream 100 feet.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, Mixed Hardwoods, Mixed Conifers <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											

31	12056031-Cut	27.4	4119 - Mixed Northern Hardwoods	Poletimber Well	87	111- 140	Harvest	Low Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin targeting 80 residual BA. Leave Cherry, Oak, and all conifers if found. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											

36	12056036-Cut	38.1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	54	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest using 4" spec. Leave Cherry, Cedar, Hemlock, Pine, Oak if found. Also leave conifers measuring 6 inches and less at the stump. Retain 30-40 BA in hardwood pockets. <u>Specs:</u> Buffer stream 100 feet.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, Mixed Hardwoods, Mixed Conifers <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</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
52 12056052-Cut	43.3	4119 - Mixed Northern Hardwoods	Poletimber Well	89	111-140	Harvest	Shelterwood	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Target 40-50 residual BA of mixed species. Leave Cherry, Cedar, Hemlock, Pine, Oak if found.</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 Regen:</u> Aspen, Mixed Hardwoods, Mixed Conifers</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
53 12056053-Cut	17.8	4130 - Aspen	Poletimber Well	56	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest using 4" spec. Leave Cherry, Cedar, Hemlock, Pine, Oak if found. Also leave conifers measuring 6 inches and less at the stump.</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 Regen:</u> Aspen, Mixed Hardwoods, Mixed Conifers</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
56 12056056-Cut	62.2	4119 - Mixed Northern Hardwoods	Poletimber Well	96	81-110	Harvest	Low Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin targeting 80 residual BA. Leave Cherry, Oak, and conifers if found.</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 Regen:</u></p> <p><u>Other Comment:</u> Narrow Aspen strip along northern stand boundary to be thinned as rest of stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
61 12056061-Cut	46.8	4130 - Aspen	Poletimber Well	51	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest using 4" spec. Leave Cherry, Cedar, Hemlock, Pine, Oak if found. Also leave conifers measuring 6 inches and less at the stump. Retain 30-40 BA in hardwood pockets. Buffer stream 100 feet.</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 Regen:</u> Aspen, Mixed Hardwoods, Mixed Conifers</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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
70 12056070-Cut	20.1	4119 - Mixed Northern Hardwoods	Poletimber Well	98	111-140	Harvest	Low Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin targeting 80 residual BA. Leave Cherry, Oak, and conifers.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2024</p>										

Total Treatment Acreage Proposed: 268.5

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Andrew Church : Examiner

Compartment: 56
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2F	2G	3J	5E
		With Condition	Not Available						
607	541	0	66	Aspen			1	48	16
109	0	0	109	Cedar			44	65	
8	8	0	0	Herbaceous Openland					
24	0	0	24	Lowland Conifers			13	11	
147	0	0	147	Lowland Deciduous			43	104	
129	0	0	129	Lowland Mixed Forest			116	13	
170	170	0	0	Lowland Shrub			0	0	
152	51	0	101	Mixed Upland Deciduous			64	37	
516	504	0	12	Northern Hardwood		11		1	
38	38	0	0	Upland Mixed Forest					
17	17	0	0	Upland Shrub				0	
24	0	12	12	Upland Spruce/Fir	12			12	
19	19	0	0	Urban			0		
1,959	1,348	12	600	Total Forested Acres	12	11	281	291	16
	69%	1%	31%	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	2G: Too wet (sensitive soils, does not include access issues)	310	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Too wet, or Cedar harvesting restrictions.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Andrew Church : Examiner

Compartment: 56
Year of Entry: 2025

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	291	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2F: Too steep	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Extremely steep							
5	Unavailable	5E: Long-Term Retention	16	3J: Water quality / BMPs (stream, river, or lake)	1C: Other dept or div proc/practices	Unspecified	Unspecified
Comments: West Branch of Sturgeon buffer, long term retention, cedar on far south end of stand							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
1	622 - Lowland Shrub	Nonstocked	16.7		Unspecified	No																																																				
2	4134 - Aspen, Spruce/Fir	Sawtimber Well	20.5	88	Unspecified	N/A	Uncut buffer from the Deer Blind City sale (2008). Trees along powerline were deemed to dangerous to be harvested.																																																			
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3	4130 - Aspen	Sapling Well	26.0	15	Unspecified	N/A	Deer Blind City Sale harvested in 2008																																																			
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4	320 - Upland Shrub	Nonstocked	5.3		Unspecified	No	Powerline																																																			
5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	29.3	74	Unspecified	N/A	Center of stand is brushy and has stream. More Cedar/Black Spruce to North. More Tamarack/Swamp Hardwoods to South. Even mix of Cedar/Spruce/Tamarack.																																																			
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6	4110 - Sugar Maple Association	Poletimber Well	6.6	98	81-110	N/A	Thinned 2021.																																																			
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7	622 - Lowland Shrub	Nonstocked	5.9		Unspecified	No																																																				
8	4130 - Aspen	Sapling Well	8.1	2	Immature	N/A	Harvested 2021.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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9 122 - Road/Parking Lot Nonstocked 1.8 Unspecified No M 69

10 42340 - Upland Spruce/Fir Poletimber Medium 11.8 61 51-80 N/A Stand harvested in 1999. Only harvested Maple, Aspen, Birch from stand. Most of White Pine is on East side.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	40	Pole/Sapling	8		Quaking Aspen	High	Variable	Sapling
White Pine	10	Log	12		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	50	Pole/Sapling	6	61	Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
					White Pine	Low	Variable	Sapling

11 4130 - Aspen Sapling Well 2.0 27 Unspecified N/A Six Mile Lake boat launch within stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	100	Sapling	2	27	Balsam Poplar	Medium	Variable	Sapling
					Balsam Fir	Low	Variable	Sapling
					Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
					Black Ash	Medium	Variable	Sapling

12 122 - Road/Parking Lot Nonstocked 0.9 Unspecified No M 69

13 4110 - Sugar Maple Association Poletimber Well 66.5 99 81-110 N/A Terrain is rolling hills with ravines. More Red Maple on SE finger. Access through private. Thinned 2021.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	5	Pole	8		Sugar Maple	Low	Variable	Sapling
Basswood	20	Pole/Log	10		Leatherwood	Medium	< 5 feet	Tall Shrub
Red Maple	10	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
Sugar Maple	65	Pole/Log	9	99				

14 42340 - Upland Spruce/Fir Sawtimber Well 12.4 68 Unspecified N/A This stand is the uncut buffer along Sturgeon River. Mix of upland and lowland.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	15	Pole	6		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
Balsam Poplar	5	Log	12		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	40	Pole/Sapling	5	68	White Spruce	Medium	Variable	Sapling
Quaking Aspen	10	Log	12		White Pine	Low	Variable	Sapling
White Pine	5	Log	14					
White Spruce	25	Log/Pole	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
15	4319 - Mixed Upland Forest	Poletimber Poor	20.9	38	1-50	N/A	Once an opening slowly filling in with trees. Most of stand is open field with trees along edge.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar		10	Pole/Sapling	6		Ironwood	Medium	Variable	Sapling
White Spruce		20	Pole/Sapling	6		Bracken Fern	Medium	Unspecified	Non-Wood
Red Maple		10	Pole/Sap/Log	8					
Balsam Fir		30	Pole/Sapling	6	38				
Black Ash		5	Pole/Sapling	6					
Quaking Aspen		20	Pole/Sapling	6					
Hemlock		5	Log/XLog	16					
16	6120 - Lowland Cedar	Poletimber Well	9.5	103	Unspecified	N/A	Thick Cedar stand within 300 feet of trout stream. Balsam regen in openings.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		10	Log	12		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar		80	Pole	8	103	Balsam Fir	Low	Variable	Sapling
Tamarack		5	Pole	8					
Paper Birch		5	Pole	8					
17	622 - Lowland Shrub	Nonstocked	25.2		Unspecified	No	West Branch of Sturgeon river within stand.		
18	4110 - Sugar Maple Association	Poletimber Well	4.5	86	81-110	N/A	Steep hillside with ravine in middle. Thinned 2021.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch		10	Pole	8		Leatherwood	Medium	< 5 feet	Tall Shrub
Sugar Maple		70	Pole/Log	9	86	Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Basswood		20	Log/Pole	10					
19	4135 - Aspen, Cedar	Sapling Well	23.6	4	Immature	N/A	Harvested 2019. Small Cedar inclusions on South line of stand too small to meet minimum mapping standards.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		70	Sapling	1	4	Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Poplar		10	Sapling	1		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar		20	Log	12		Ironwood	Low	Variable	Sapling
20	6120 - Lowland Cedar	Poletimber Well	8.9	95	Unspecified	N/A	Black Ash and BAM to East. More pure Cedar to West.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		5	Pole/Sapling	4		Balsam Fir	Low	Variable	Sapling
Black Spruce		10	Pole	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar		60	Pole	7	95				
Black Ash		15	Pole	5					
Balsam Poplar		10	Pole	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
21	6120 - Lowland Cedar	Poletimber Well	22.1	102	Unspecified	N/A	More Cedar to West. More Swamp hdwds to East. Far too wet for operations. Cattails growing within stand.																																																
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22	4319 - Mixed Upland Forest	Poletimber Medium	17.0	38	51-80	N/A	Once an opening slowly filling in with trees. Many different ages of trees with older Aspen mixed throughout.																																																
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23	4119 - Mixed Northern Hardwoods	Poletimber Well	123.0	88	81-110	N/A	Last harvested 1977, 2021. Veins of lowland Ash and vernal ponds throughout. Pockets of Hard Maple regen.																																																
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24	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	10.5	68	Unspecified	N/A	Entire stand within riparian corridor. Old beaver pond reclaiming to trees.																																																
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25	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	15.5	54	51-80	N/A	Low BAs throughout. Wet area in NW corner of stand.																																																																				
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26	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	6.9	78	Unspecified	N/A	Small diameters. Stand very wet. Trees are slowly filling in this lowland stand.																																																																				
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29	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	13.1	94	Unspecified	N/A	North half of stand is more Swamp Hdws. South half of stand is more Cedar type.																																																																				
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30	320 - Upland Shrub	Nonstocked	11.2		Unspecified	No																																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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31 4119 - Mixed Northern Hardwoods Poletimber Well 27.4 87 111-140 N/A Southern stand boundary is steep.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	35	Pole/Log	10	87	Sugar Maple	Low	Variable	Sapling
Yellow Birch	5	Pole	7		Balsam Fir	Low	Variable	Sapling
Basswood	20	Pole/Log	10		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Black Ash	10	Pole/Sapling	6		Leatherwood	Medium	< 5 feet	Tall Shrub
Balsam Poplar	5	Pole/Sapling	6					
Red Maple	25	Pole	7					

32 6220 - Alder/willow Nonstocked 4.2 0 Unspecified No

33 6120 - Lowland Cedar Poletimber Medium 8.3 93 Unspecified N/A Younger and smaller trees towards creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole	8		Tamarack	Low	Variable	Sapling
Black Spruce	10	Pole/Sapling	5		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	60	Pole	6	93	Balsam Fir	Medium	Variable	Sapling
Tamarack	5	Pole/Sapling	6					
Balsam Fir	15	Pole/Sapling	5					

34 622 - Lowland Shrub Nonstocked 9.8 Unspecified No

35 4130 - Aspen Sapling Well 6.3 23 Unspecified N/A North half of stand is a grassy opening

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	100	Sapling	4	23	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
					Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub

36 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 40.1 54 51-80 N/A Low BAs throughout. Wet areas throughout. Steep cliff on South side of stand. Trees in middle of stand are in declining health.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Pole/Sapling	7		Leatherwood	Medium	< 5 feet	Tall Shrub
Black Ash	5	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
Balsam Poplar	5	Pole/Sapling	6		Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
Basswood	15	Log/Pole	10		Sugar Maple	Low	Variable	Sapling
Northern White Cedar	5	Pole/Log	9					
Quaking Aspen	25	Pole/Log	9	54				
Sugar Maple	15	Pole/Log	9					
Balsam Fir	10	Pole/Sapling	5					
Red Maple	15	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																													
37	6120 - Lowland Cedar	Poletimber Well	12.8	97	Unspecified	N/A	Swamp hardwoods filling in the openings within the stand. Tamarack on edges.																																																																													
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38	6115 - Lowland Ash	Poletimber Medium	40.1	83	Unspecified	N/A	Stand within trout stream buffer. Some Ash reaching merchantability sized. Cedar scattered throughout.																																																																													
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39	4199 - Other Mixed Upland Deciduous	Sawtimber Well	76.7	89	81-110	N/A	Steep hill with North aspect. Many little ravines with hillside seeps leading towards river. Transition to river was protected due to steep slopes and sensitive soils. Very wet seeping hillside. Oak saplings scattered throughout stand.																																																																													
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40	3103 - Rubus-Fern	Nonstocked	4.2	0	Unspecified	No																																																																														
41	6115 - Lowland Ash	Poletimber Well	4.9	94	Unspecified	N/A																																																																														
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42	6220 - Alder/willow	Nonstocked	51.0		Unspecified	No																																																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
43	4130 - Aspen	Sapling Well	81.8	35	Unspecified	N/A	Rocky stand. Some lowland drains throughout.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar		10	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
Balsam Fir		5	Pole/Sapling	5		Red Maple	Low	Variable	Sapling
Quaking Aspen		75	Pole/Sapling	5	35	Ironwood	Medium	Variable	Sapling
Sugar Maple		10	Pole/Sapling	5					
44	122 - Road/Parking Lot	Nonstocked	7.2		Unspecified	No	M 69		
45	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	108.6	97	Unspecified	N/A	Very wet stand. Mostly Black Ash.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		12	Pole	8		Red Maple	Low	Variable	Sapling
White Spruce		5	Pole	8		White Spruce	Medium	Variable	Sapling
Black Spruce		10	Pole	7		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar		20	Pole	9		Tag Alder	High	5 - 10 feet	Tall Shrub
Black Ash		50	Pole/Sapling	5	97	Black Ash	High	Variable	Sapling
Paper Birch		3	Pole	7					
46	4130 - Aspen	Sapling Well	33.6	25	Unspecified	N/A	Mostly upland stand with lowland areas. BAM and Tamarack in wetter areas.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar		5	Sapling/Pole	4		Balsam Fir	Low	Variable	Sapling
Tamarack		5	Sapling/Pole	4		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
Quaking Aspen		90	Sapling/Pole	4	25				
47	622 - Lowland Shrub	Nonstocked	20.8		Unspecified	No			
48	4110 - Sugar Maple Association	Sawtimber Medium	11.6	96	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		40	Log/Pole	12		Leatherwood	Medium	< 5 feet	Tall Shrub
Sugar Maple		60	Log/Pole	10	96	Ironwood	Low	Variable	Sapling
49	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	19.9	74	81-110	N/A	Adjacent to Six Mile Lake. Stand is slowly converting to Red Maple. Aspen/Maple to West of stand, Hemlock/Cedar on East side.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		15	Pole/Sapling	5		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar		10	Log	10		Red Maple	Medium	Variable	Sapling
Hemlock		10	Log	12					
Quaking Aspen		20	Log	14					
Red Maple		45	Pole/Sapling	6	74				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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50	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	13.1	84	Unspecified	N/A	East half of stand has very few merchantable sized trees. Cedar dominates Western portion of stand. Small diameters. Quaking Aspen growing on small upland portion where old railroad or road was located.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Spruce		5	Pole	7		Tag Alder		High	5 - 10 feet	Tall Shrub
Northern White Cedar		35	Pole	5	84	Tamarack		Medium	Variable	Sapling
Tamarack		5	Pole/Sapling	6		Black Ash		Medium	Variable	Sapling
Black Ash		20	Pole/Sapling	5						
Quaking Aspen		5	Pole	8						
Balsam Fir		10	Pole/Sapling	5						
Balsam Poplar		20	Pole/Sapling	6						

51	4130 - Aspen	Sapling Medium	58.9	2	Immature	N/A	Stand is on top of a rock. Some wet Black Ash swales present on top of rock. Very steep terrain. Regeneration may be slow due to current low stocking level. Not all areas within stand were able to be harvested due to terrain issues. Harvested 2021.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		100	Sapling	1	2	Sugar Maple		Low	Variable	Sapling
						Leatherwood		Medium	< 5 feet	Tall Shrub
						Balsam Poplar		Low	Variable	Sapling
						Balsam Fir		Low	Variable	Sapling

52	4119 - Mixed Northern Hardwoods	Poletimber Well	43.3	89	111-140	N/A	Terrain is all rock. Small diameter hardwoods. More Red Maple on top and North side of stand. Steep on North side. Trace amounts of Hemlock.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Yellow Birch		5	Pole	7		Sugar Maple		Low	Variable	Sapling
Basswood		10	Pole	8		Blackberry/Raspberry		Medium	< 5 feet	Tall Shrub
Quaking Aspen		10	Log	12		Balsam Fir		Low	Variable	Sapling
Black Ash		10	Pole	9						
White Ash		10	Pole/Log	9						
Sugar Maple		15	Pole/Sapling	5						
Red Maple		40	Pole/Log	9	89					

53	4130 - Aspen	Poletimber Well	17.8	56	Unspecified	N/A	Rocky terrain. Aspen is not mature yet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		60	Log	12	56	Balsam Fir		Medium	Variable	Sapling
Red Maple		30	Pole/Sapling	5		Sugar Maple		Low	Variable	Sapling
Sugar Maple		10	Pole	5		Red Maple		Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
54	4111 - S.Maple, Hard Mast Association	Sawtimber Well	16.3	74	81-110	N/A	Thinned 2003.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		40	Log/Pole	12	74	Balsam Fir	Low	Variable	Sapling
Yellow Birch		10	Log/Pole	14		Ironwood	Low	Variable	Sapling
Hemlock		5	XLog	18		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Black Ash		5	Pole	7		Leatherwood	Low	< 5 feet	Tall Shrub
Red Oak		10	Log/Pole/XLog	12		Red Oak	Low	Variable	Sapling
White Ash		10	Log/Pole	12		Quaking Aspen	Low	Variable	Sapling
Basswood		20	Log/Pole	12					
55	4110 - Sugar Maple Association	Sawtimber Well	45.3	96	81-110	N/A	Thinned 2008		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		25	Log/Pole	12		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Red Maple		10	Log/Pole	14		Ironwood	Medium	Variable	Sapling
Sugar Maple		60	Log/Pole/Sap	14	96	Leatherwood	Medium	< 5 feet	Tall Shrub
Yellow Birch		5	Log/Pole	12					
56	4119 - Mixed Northern Hardwoods	Poletimber Well	63.8	96	81-110	N/A	Lower stocking to West.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch		10	Pole	8		Ironwood	Low	Variable	Sapling
Basswood		20	Pole/Log	8		Leatherwood	Medium	< 5 feet	Tall Shrub
Quaking Aspen		15	Log	10					
White Ash		10	Pole/Log	8					
Red Maple		10	Pole	9					
Sugar Maple		35	Pole/Log	8	96				
57	4130 - Aspen	Sapling Well	12.3	12	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	2	12	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
						Balsam Fir	Low	Variable	Sapling
58	122 - Road/Parking Lot	Nonstocked	4.0		Unspecified	No	Six Mile Lake road.		
59	622 - Lowland Shrub	Nonstocked	14.8		Unspecified	No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
60	6115 - Lowland Ash	Poletimber Well	6.6	94	Unspecified	N/A																																																				
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61	4130 - Aspen	Poletimber Well	61.3	51	Unspecified	N/A	Western finger located on steep hillside. Some Sugar Maple regen in understory near the hardwood stands. Eastern portion of this stand has bed and bank stream inside ravines.																																																			
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62	6115 - Lowland Ash	Poletimber Medium	35.7	91	Unspecified	N/A	Stream running into creek to North. Thick understory of Black Ash. A couple small pockets of Swamp conifer. Small upland inclusions along road that did not meet minimum mapping standards. Low overstory coverage, but full understory coverage. Six Mile Lake boat launch parking lot within stand. More Quaking Aspen/Fir near parking lot.																																																			
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65	6120 - Lowland Cedar	Poletimber Well	47.1	98	Unspecified	N/A	Thick Cedar stand to East.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
66	4130 - Aspen	Sapling Well	42.3	2	Immature	N/A	Stream on North edge of stand in bottom of ravine. Small wet areas present. Harvested 2021.																																															
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67	4112 - Maple, Beech, Cherry Association	Poletimber Medium	11.3	72	51-80	N/A	Located on top of large rock. Low BAs due to exposed rock.																																															
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68	6115 - Lowland Ash	Poletimber Well	59.8	85	Unspecified	N/A	Small diameter swamp hardwood stand. Very brushy. Stream through stand.																																															
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69	4130 - Aspen	Poletimber Well	59.6	35	Unspecified	N/A	Very rugged terrain. Wetter areas coming back to tamarack.																																															
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70	4119 - Mixed Northern Hardwoods	Poletimber Well	20.1	98	111-140	N/A	Red Maple located near wetter areas. Much Aspen mixed with the hardwoods. Stream on East side of stand.																																															
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71	4110 - Sugar Maple Association	Poletimber Well	32.3	95	81-110	N/A	Thinned 2008. Rugged terrain. SW corner of stand is Swamp conifer type too small to meet minimum mapping standards.																																															
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73	4130 - Aspen	Poletimber Well	20.4	35	Unspecified	N/A	Ash regenerating in understory. Some scattered apple trees.																																														
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74	4130 - Aspen	Sapling Well	33.6	25	Unspecified	N/A	A couple small hardwood islands in middle of stand. Starting to reach pole size.																																														
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75	122 - Road/Parking Lot	Nonstocked	5.3		Unspecified	No	Six Mile Lake road.																																														
76	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	10.8	75	51-80	N/A	Almost even mix of Northern Hardwoods and Aspen.																																														
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77	310 - Herbaceous Openland	Nonstocked	3.9		Unspecified	No																																															
78	4130 - Aspen	Sapling Well	32.7	14	Unspecified	N/A	Good mix of hardwoods regeneration with the Aspen, just not as tall yet.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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79 4130 - Aspen Poletimber Well 1.0 51 Unspecified N/A

Western finger located on steep hillside. Some Sugar Maple regen in understory near the hardwood stands. Eastern portion of this stand has bed and bank stream inside ravines.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	15	Pole	5		Balsam Fir	Low	Variable	Sapling
Balsam Poplar	5	Pole	7		Sugar Maple	Low	Variable	Sapling
Quaking Aspen	75	Log/Pole	11	51	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Balsam Fir	5	Pole/Sapling	5					