



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12012

Entry Year 2026

Acreage: 2,475

County Dickinson

Management Area: Ralph Moraine

Stand Examiner: Deb Goupell

Legal Description:

T43N R28W sec 5 - 8 T44N R28W sec 31, 32

Identified Planning Goals:

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

Soil and topography:

Soils consist of fine sandy loams in the uplands to muck soils in the lowland forest types.

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

The compartment is for the most part contiguous in state ownership. The southern end of the compartment does have a block of private lands. State ownership borders the compartment. Active forest management has occurred and will continue within and surrounding the compartment. Deer hunting by far dominates the recreational use patterns.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None identified

Watershed and Fisheries Considerations:

This compartment contains the North Branch Ford River. The North Branch Ford River is a designated Type 1 trout stream less than 50-ft wide and has predicted mean July temperatures that range from 63.2 to 65.1 °F (cold stream). A 300' buffer is recommended for the North Branch Ford River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100 feet, plus 5 feet per 1% increase in slope, buffer is recommended to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

The compartment is used as wintering cover by deer, noticeably where any cedar is present. Upland conifers also provide thermal cover until snow depths restrict movement. Deer numbers are fair in the area. Wolves also use the compartment and the surrounding area. Upland conifers should be promoted as a balanced component within the aspen stands and lowland conifer stands should be maintained and enhanced to continue providing good winter cover and habitat for grouse/woodcock.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The closest known active sand & gravel pit is the State-owned Aimone Road Pit, less than three miles east; the pit is currently leased to the Dickinson County Road Commission. There is some good potential for sand & gravel in the compartment on the upland drumlins, but the compartment might be too far from populated areas (markets) for any aggregate resources present to have much economic potential beyond use by the county road commission or DNR for local road maintenance. Some remote geophysical surveys covering this area have been conducted and have revealed potential metallic mineral targets in the subsurface of the north and south ends of the compartment in the form of linear magnetic anomalies. No known boreholes have been drilled to test these geophysical features, and these sites have good potential for future exploration. State-owned mineral rights in the compartment have been leased multiple times in the past, and parcels in the north are currently leased or nominated for leasing. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Access is fair overall. There is a road system accessing much of the compartment with overgrown, abandoned roads present.

Survey Needs:

Survey corners are needed at: T43N R28W sec 5 & 7

Recreational Facilities and Opportunities:

None

Fire Protection:

Overall there is no fuel type that would carry a sustained fire. Light to moderate intensity surface fires would be expected. An unlikely fire in the expansive swamps would pose access problems and would severely limit equipment operation. Water sources are fairly close, with the N. Branch of the Ford River forming the south compartment boundary.

Additional Compartment Information:

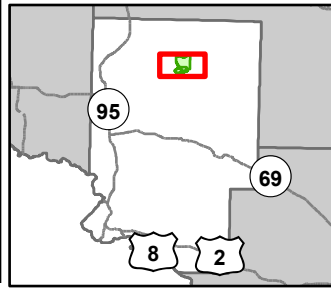
The following reports from the Inventory are attached:

- 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**

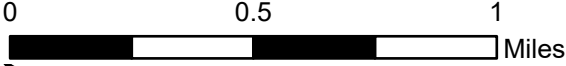
The following information is displayed, where pertinent, on the attached compartment maps:

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

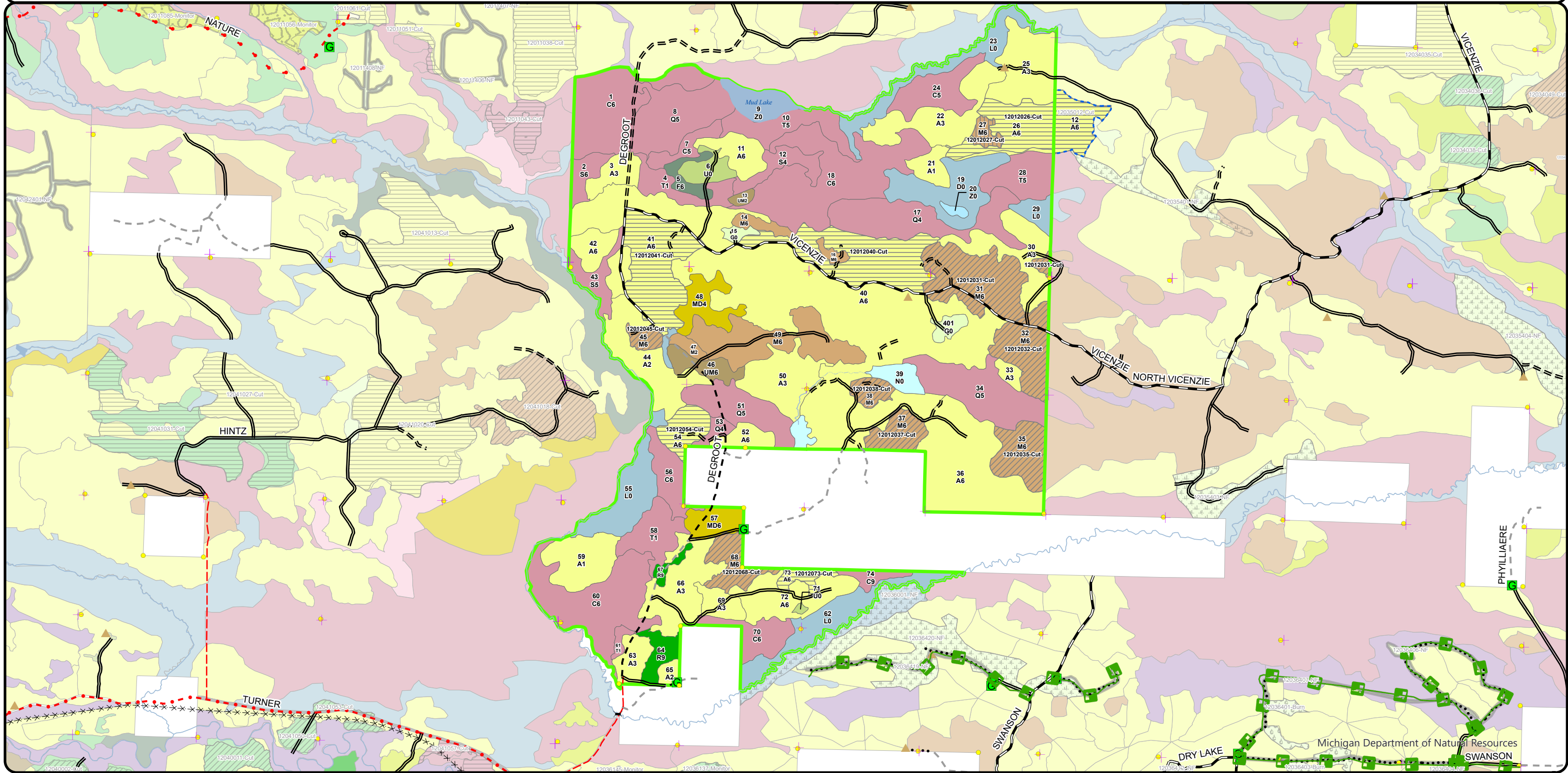
Cover Type & Treatments Map



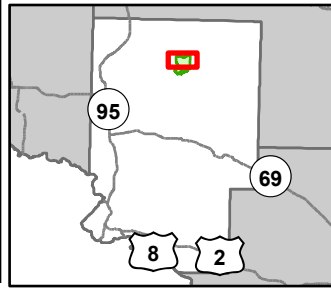
Compartment: 12012
 T43N, R28W, Sec: 5, 6, 7, 8
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Moraine
 YOE: 2026
 Acres: 2475 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 7/30/2024
 Map Phase: Web Post



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|------------------------------------|--|-------------------------------------|--------------------------------|-----------------------------------|
| ▲ Berms | == DNR - Forest Access Route | — Lake/Pond | ▨ Shelter Wood (w/Reserves) | ■ 612 - Lowland Coniferous Forest |
| ■ Gate | - - - Federal / State - Dirt / Gravel Road | — Perennial River | ▨ Clearcut (w/Reserves) | ■ 310 - Herbaceous Openland |
| ✕ Bridges | - · - · County - Gravel Road | ■ Lakes and Rivers | ■ 411 - Northern Hardwood | ■ 320 - Upland Shrub |
| ● Survey Grade Corners | - - - County - Dirt Road (Seasonal) | ▭ Compartment Boundary | ■ 413 - Aspen Types | ■ 500 - Water |
| ⊕ Remonumented Section Corners | - - - Private - Dirt / Gravel Road | ▭ Counties | ■ 419 - Mixed Upland Deciduous | ■ 622 - Lowland Shrub |
| ■ Designated Hunter Walking Trails | · · · · · DNR - Management Access | ▨ Treatments with Site Conditions | ■ 422 - Natural Pines | ■ 623 - Emergent Wetland |
| — DNR - Primary Forest Road | · * * * Abandoned Railroads | ▨ Clearcut (w/Reserves) | ■ 423 - Other Upland Conifers | ■ 413 - Aspen Types |
| — DNR - Secondary Forest Road | — Intermittent Stream | ▨ Thinning (Crown, Low, Systematic) | ■ 430 - Upland Mixed Forest | |

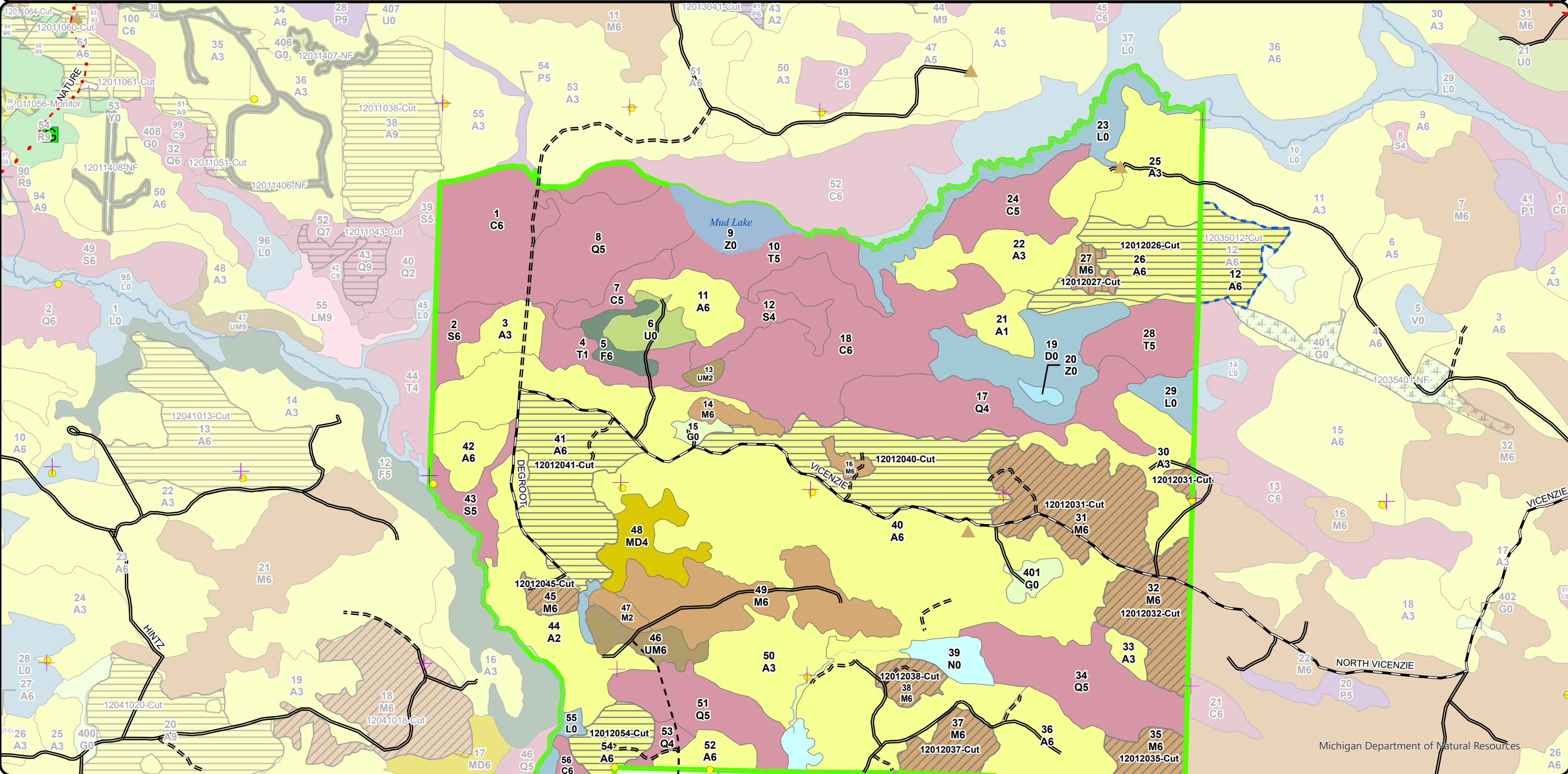
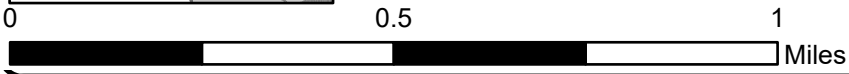


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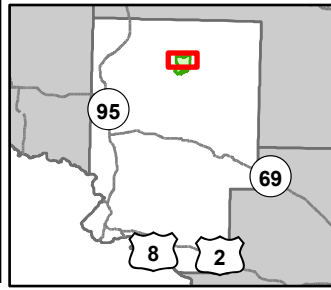


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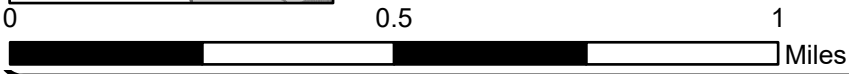
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Stand Boundary Map



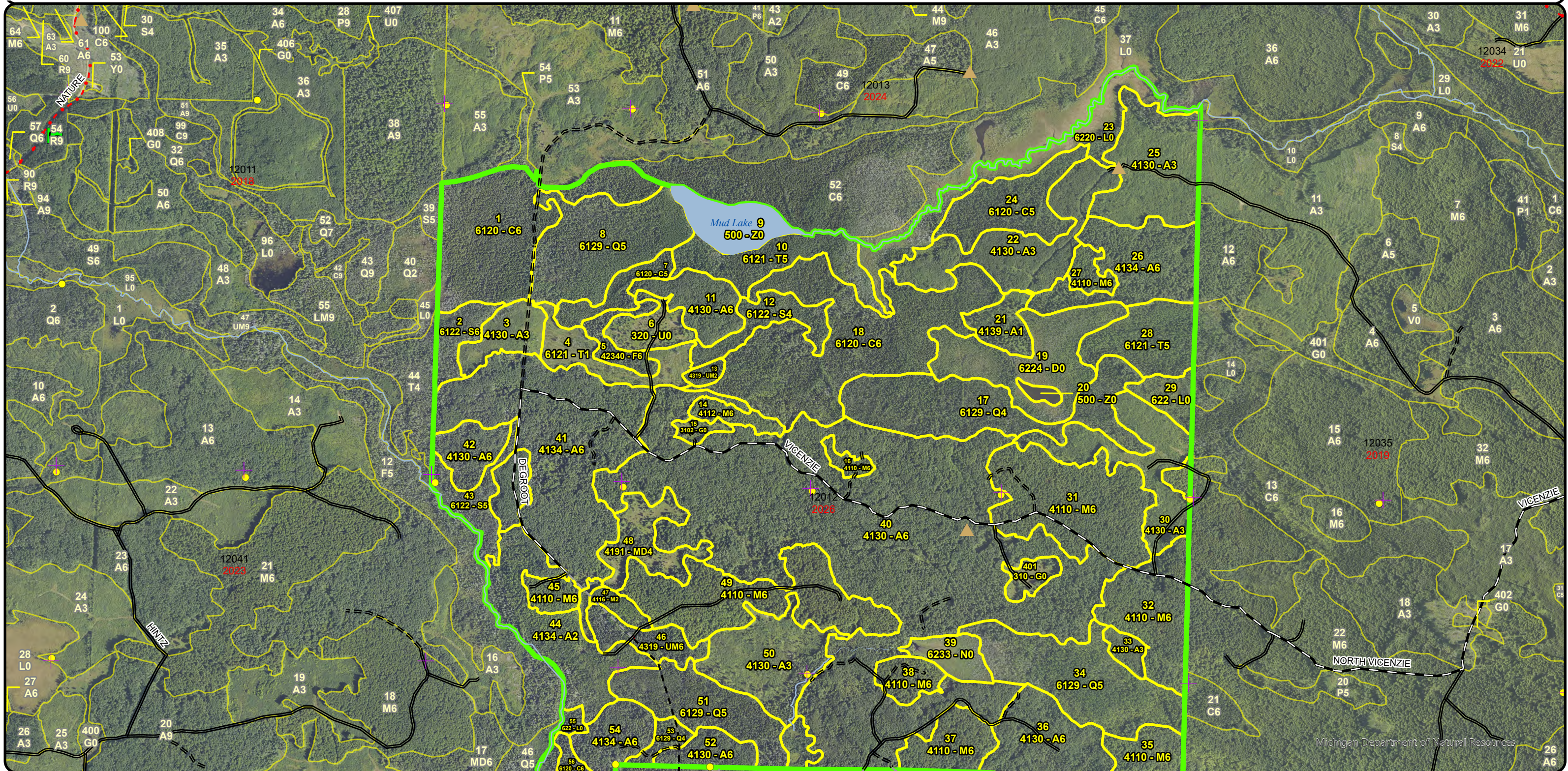
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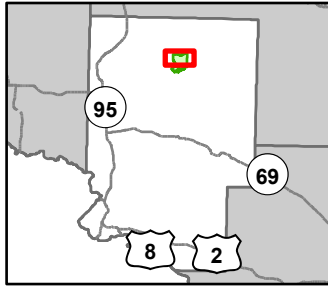
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**Special Conservation Areas
& Site Conditions Map**

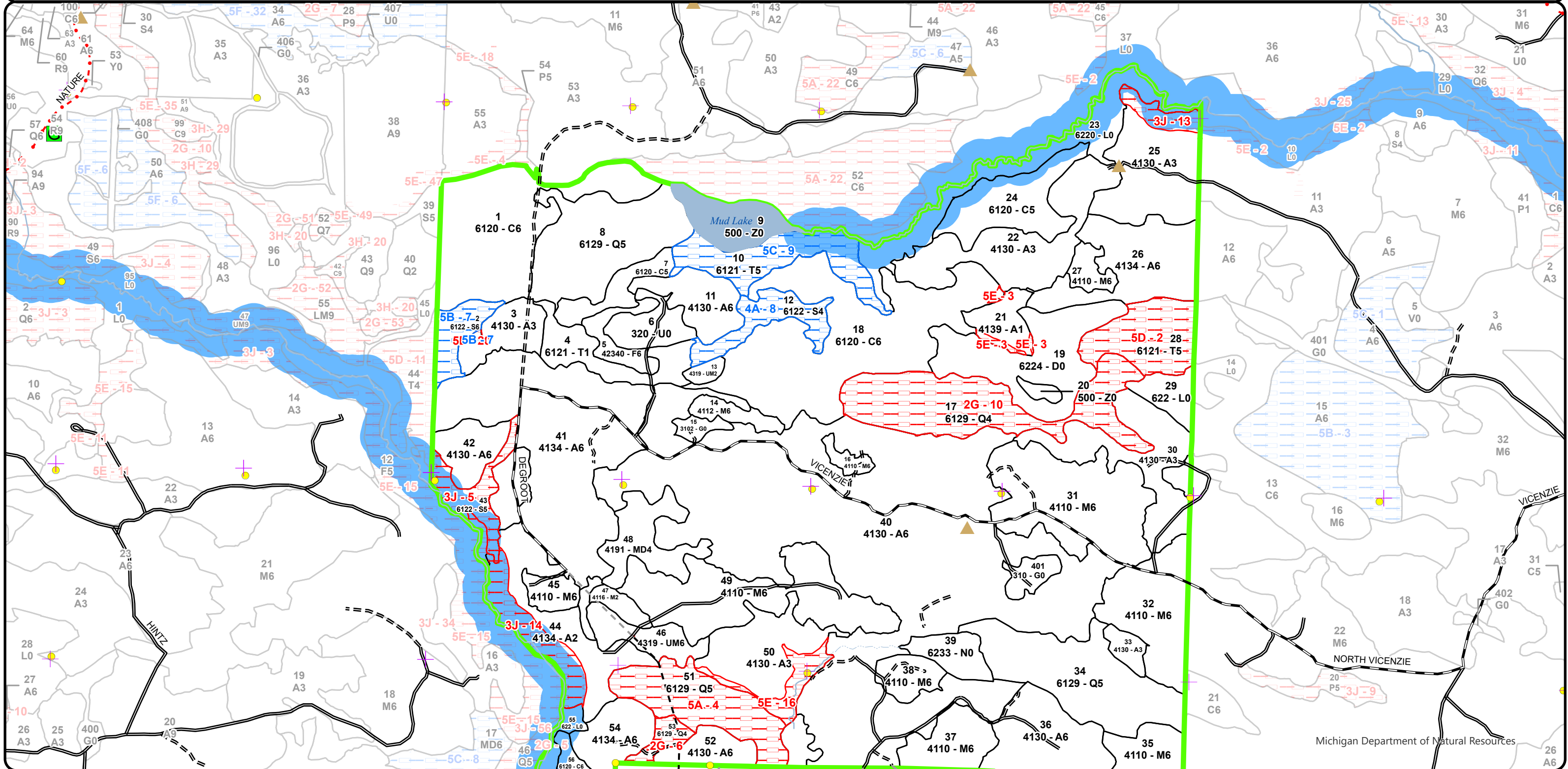
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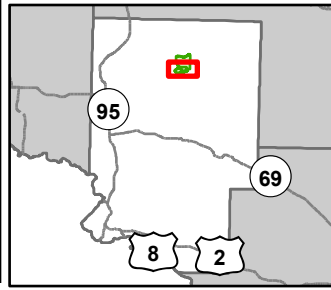
0 0.5 1 Miles

- Berms
- Gate
- Survey Grade Corners
- Remonumented Section Corners
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- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
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- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Counties
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products

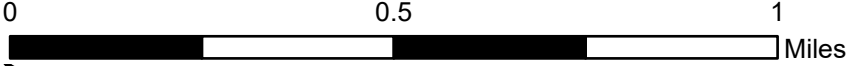
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



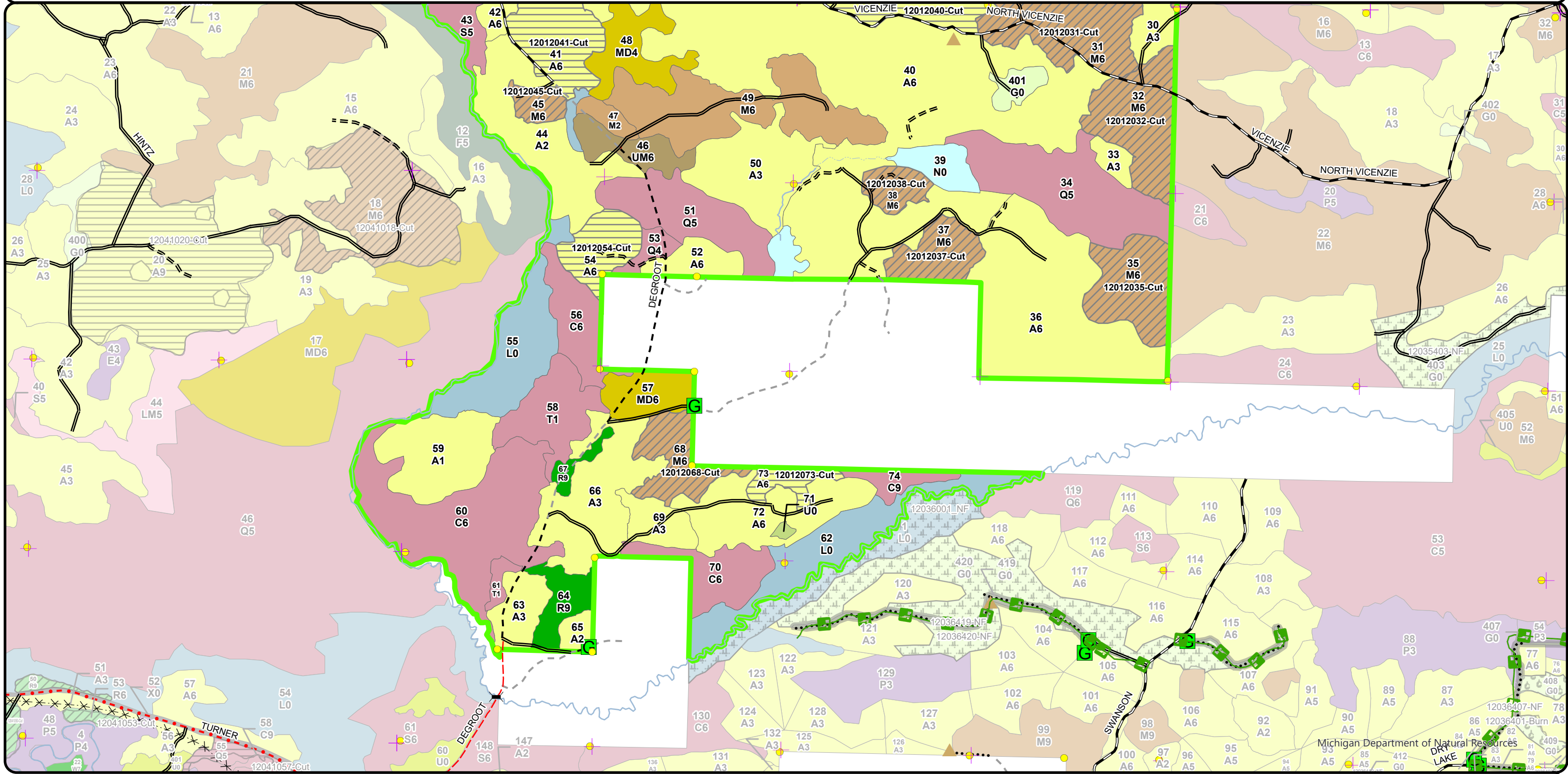
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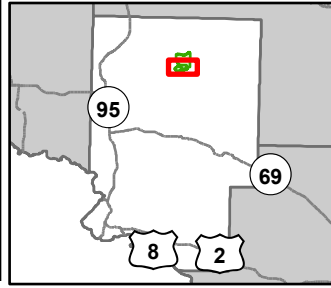


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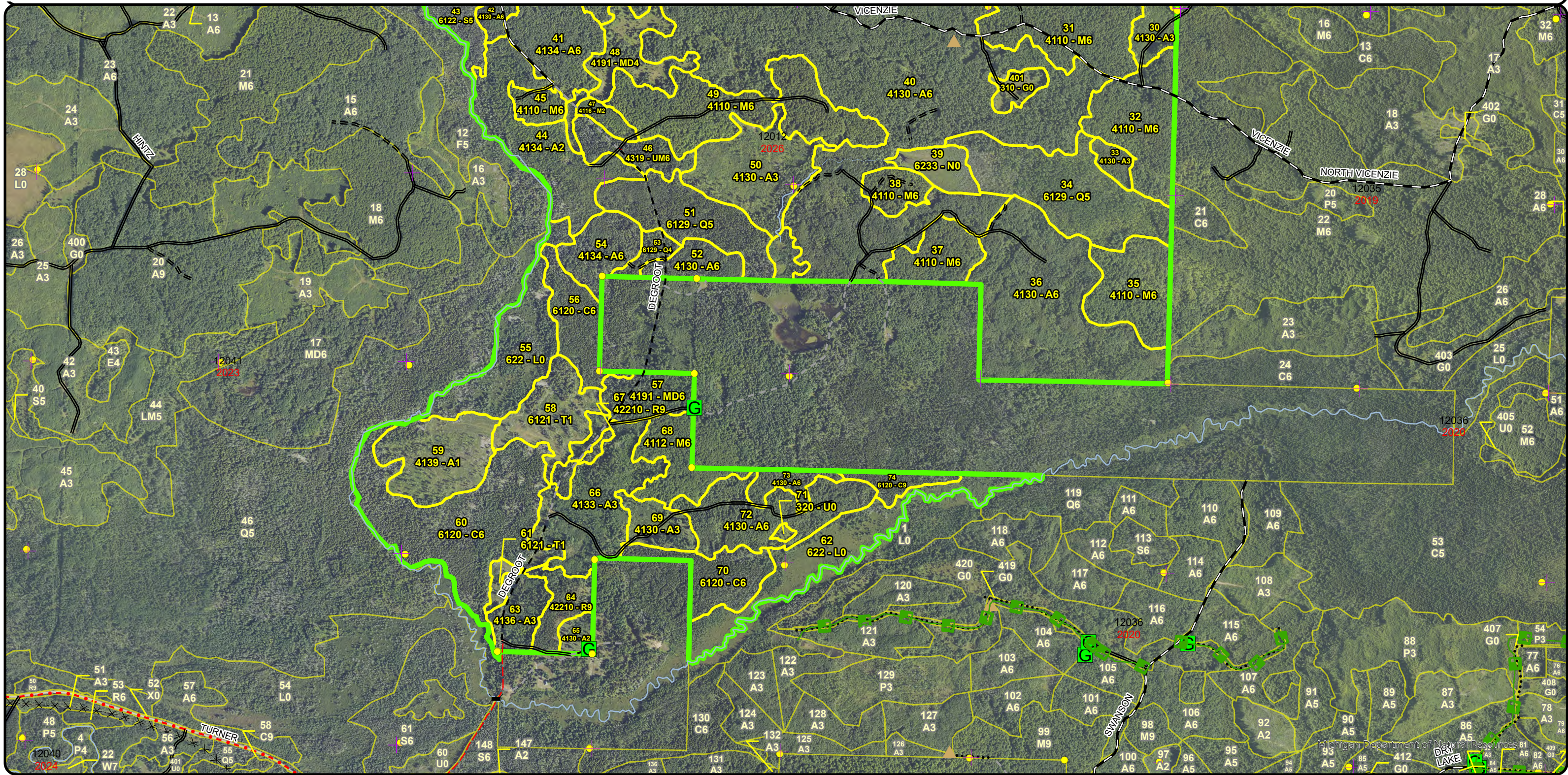
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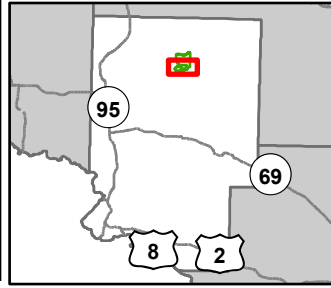
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**Special Conservation Areas
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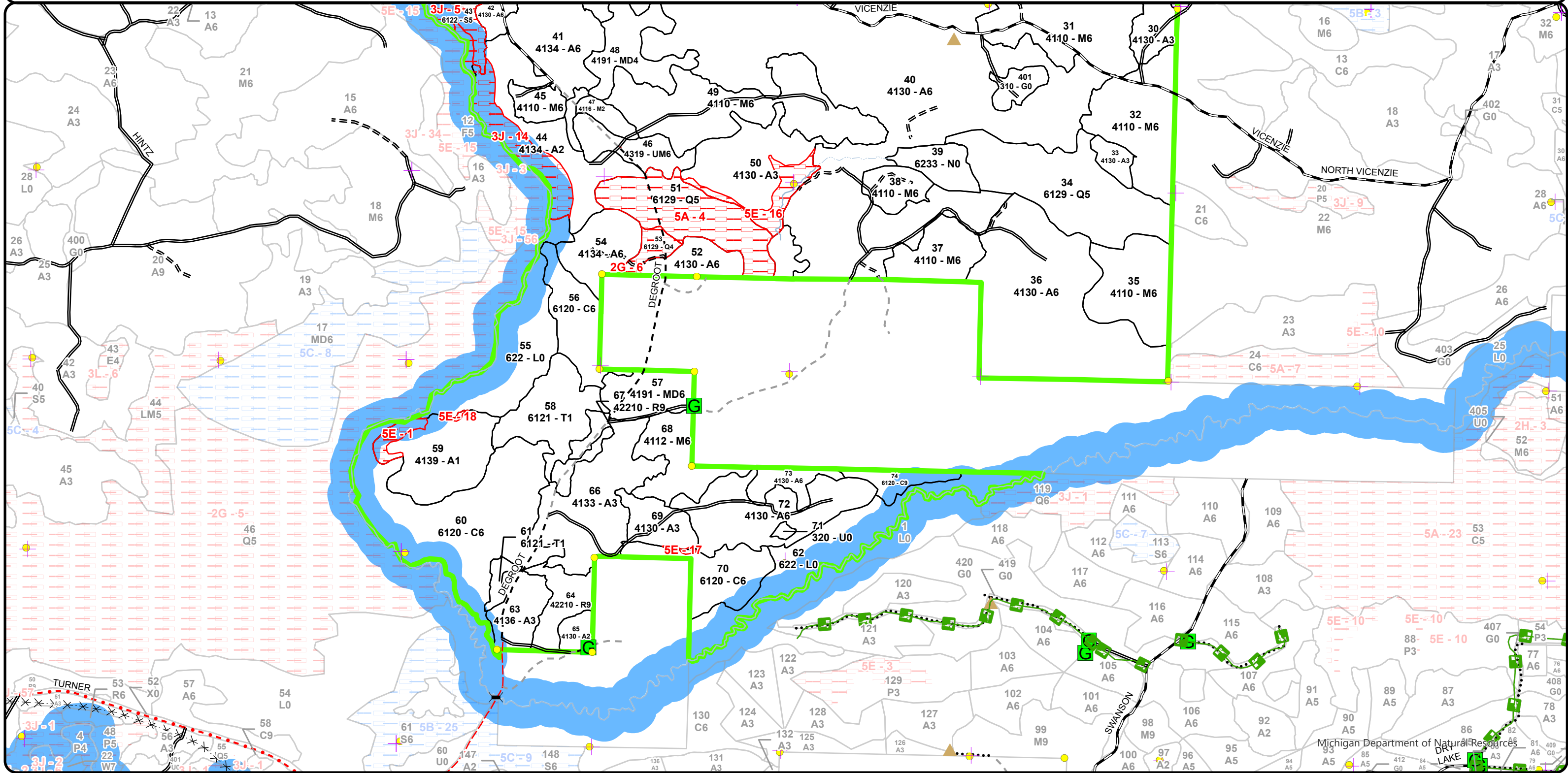


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- Counties
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	213	65	102	547	13	182	0	0	0	0	0	0	0	0	0	0	0	1122
Cedar	0	0	0	0	0	0	0	0	0	12	107	236	0	0	0	0	0	0	354
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Conifers	0	0	0	0	0	0	0	58	116	44	0	0	0	0	0	0	0	0	218
Lowland Shrub	138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	138
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	17	30	0	0	0	0	0	0	0	0	47
Marsh	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Mixed Upland Deciduous	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	23	41
Northern Hardwood	0	0	0	6	0	0	0	7	237	32	0	0	0	0	0	0	0	0	282
Red Pine	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	18
Tamarack	0	53	0	0	0	0	0	29	31	0	0	0	0	0	0	0	0	0	113
Treed Bog	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Upland Mixed Forest	0	0	0	0	3	15	0	0	0	0	0	0	0	0	0	0	0	0	18
Upland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Upland Spruce/Fir	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Total	251	266	65	108	578	28	182	94	420	118	107	236	0	0	0	0	0	23	2474



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2026

Compartment 12
Total Compartment Acres: 2,475

Acres of Harvest

Commercial Harvest - 410
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	208	0	0	0	0	0	0	0	0	208
Northern Hardwood	0	0	0	0	7	196	0	0	0	203
Total	208	0	0	0	7	196	0	0	0	410

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	410	0	0	0	0	0	0	0	0	410
Next Step	0	0	0	0	0	0	215	0	0	215
Total	410	0	0	0	0	0	215	0	0	625



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:

26	12012026-Cut	39.5	4134 - Aspen, Spruce/Fir	Poletimber Well	51	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest 3" and greater all species except white pine, red pine, cedar, oak (if found). Retention is in south portion of stand along 100 foot buffer to drainage in adjacent stand. Leave individual paper birch and/or sugar maple through the treatment.</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, mixed hardwood, mixed softwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Decide at the time of sale prep to spec out all paper birch to leave or individually mark trees to leave. Some of the birch and maple may be left in the retention area.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
27	12012027-Cut	7.0	4110 - Sugar Maple Association	Poletimber Well	67	111- 140	Harvest	Shelterwood	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u> Thin to 60-70 BA following the Compleat Marker: removing high risk, cull, diseased trees to release crop tree crowns. White pine, red pine, oak will not be cut if found. Leave a representation of all species present 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> mixed hardwood, mixed softwood, aspen</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 /2025</p>											
31	12012031-Cut	65.3	4110 - Sugar Maple Association	Poletimber Well	79	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to BA 70 following Compleat Marker: remove diseased, damaged trees and release crop tree crowns. Likely will focus on removing more basswood as it is becoming overmature. Leave a representation of all species within the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
32	12012032-Cut	38.6	4110 - Sugar Maple Association	Poletimber Well	77	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to 70 BA following Compleat Marker. Release sugar maple saplings in south lobe as available. Leave a representation of all species present within the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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
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35	12012035-Cut	31.6	4110 - Sugar Maple Association	Poletimber Well	85	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Thin to BA 70 following Compleat Marker: remove diseased, damaged trees and release crop tree crowns. Leave a representation of all species present within the stand.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

37	12012037-Cut	19.6	4110 - Sugar Maple Association	Poletimber Well	79	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Thin to BA 70 following Compleat Marker: remove diseased, damaged trees and release crop tree crowns. Leave a representation of all species present within the stand.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

38	12012038-Cut	10.8	4110 - Sugar Maple Association	Poletimber Well	79	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
-----------	---------------------	------	--------------------------------	-----------------	----	---------	---------	----------------	-------------------------	-----------	----

Prescription Thin to BA 70 following Compleat Marker: remove diseased, damaged trees and release crop tree crowns. Leave a representation of all species present within the stand.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

40	12012040-Cut	72.3	4130 - Aspen	Poletimber Well	39	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
-----------	---------------------	------	--------------	-----------------	----	-------------	---------	-------------------------	-------------	-----------	----

Prescription Clearcut with retention: Cut all trees 3 inches and greater except do not cut cedar, pine, oak, and hemlock found within the stand.

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

Acceptable Aspen, species present within the stand.
Regen:

Other Retention of 3 to 10% of the treatment area determined at the time of sale prep.
Comment:

Site Condition

Proposed Start Date: 10/1 /2025



Stand	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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41	12012041-Cut	67.8	4134 - Aspen, Spruce/Fir	Poletimber Well	54	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
----	--------------	------	--------------------------	-----------------	----	-------------	---------	-------------------------	-------------	-----------	----

Prescription Final harvest all species 3" and up except cedar, white pine, red pine, oak, hemlock (if found).

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable mixed aspen, mixed softwood, mixed hardwood

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

45	12012045-Cut	7.7	4110 - Sugar Maple Association	Poletimber Well	77	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
----	--------------	-----	--------------------------------	-----------------	----	---------	---------	----------------	-------------------------	-----------	----

Prescription Thin to BA 70 following Compleat marker. Leave a representation of all species present within the stand.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

54	12012054-Cut	19.5	4134 - Aspen, Spruce/Fir	Poletimber Well	57	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
----	--------------	------	--------------------------	-----------------	----	-------------	---------	-------------------------	-------------	-----------	----

Prescription Final harvest 3" and up except red pine, white pine, cedar, (hemlock & oak if present). Leave healthy white birch 1 per acre, where available.

Specs: Culvert will need replacement in crossing stand 53

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable mixed softwood, mixed hardwood, aspen

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

68	12012068-Cut	21.9	4112 - Maple, Beech, Cherry Association	Poletimber Well	77	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
----	--------------	------	---	-----------------	----	---------	---------	----------------	-------------------------	-----------	----

Prescription Thin to BA 70 following Compleat Marker: remove diseased, damaged trees and release crop tree crowns. Leave a representation of all

Specs: species present within the stand.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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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
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

73	12012073-Cut	8.7	4130 - Aspen	Poletimber Well	59	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	No
----	--------------	-----	--------------	-----------------	----	-------------	---------	----------	-------------	-----------	----

Prescription Remove all stems 3" and greater except pine and cedar (& oak and hemlock if found). No other retention due to size of stand.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable mixed aspen, mixed softwood, mixed hardwood

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

12	12035012-Cut	25.9	4130 - Aspen	Poletimber Well	42	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
----	--------------	------	--------------	-----------------	----	-------------	---------	-------------------------	-------------	-----------	----

Prescription Final harvest 2" and up except red pine, white pine, cedar, hemlock, oak (if found).

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable mixed aspen, mixed hardwood, mixed softwood, mixed hardwood, mixed hardwood

Regen:

Other

Adding this stand early due to access

Comment:

Site Condition

Proposed Start Date: 10/2 /2025

Total Treatment 436.2
Acreage Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Deb Goupell : Examiner

Compartment: 12
 Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		4A	5B	5C	2G	3J	5A	5D	5E
1122	1080	0	42	Aspen				0	25		0	17
355	355	0	1	Cedar								1
11	11	0	0	Herbaceous Openland								
218	113	0	105	Lowland Conifers				67		38		
138	138	0	0	Lowland Shrub								
47	0	30	17	Lowland Spruce/Fir	17	12			17			0
18	18	0	0	Marsh								
41	41	0	0	Mixed Upland Deciduous								
282	282	0	0	Northern Hardwood								
19	19	0	0	Red Pine								
113	54	31	28	Tamarack			31				28	
47	47	0	0	Treed Bog								
18	18	0	0	Upland Mixed Forest								
15	15	0	0	Upland Shrub								
10	10	0	0	Upland Spruce/Fir								
21	21	0	0	Water								
2,476	2,221	61	194	Total Forested Acres	17	12	31	67	42	38	28	18
	90%	2%	8%	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	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5D: Unproductive Forest Land	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments: very scattered tamarack, little volume - open areas with tag alder							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Deb Goupell : Examiner

Compartment: 12
 Year of Entry: 2026

3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5A: Not able to obtain desirable regeneration	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	4A: No Markets Available for these Forest Products	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: too small yet for harvest							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 12

Year of Entry: 2026

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	61	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	10	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Deer Fly Junction timber sale long-term retention.							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer Fly Junction Retention.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 12

Year of Entry: 2026

18	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer Fly Junction timber sale long-term retention.							
20	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer Fly Junction timber sale. Long-term retention.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
1	6120 - Lowland Cedar	Poletimber Well	70.3	101	Unspecified	N/A	good cedar with associated fir poletimber and saplings no sign of cedar regen. East end has slightly higher stocking of tamarack.																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>70</td> <td>Log/Pole</td> <td>10</td> <td>101</td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Tamarack	10	Pole	8		Paper Birch	5	Pole	7		Black Spruce	10	Pole	7		Northern White Cedar	70	Log/Pole	10	101	Balsam Fir	5	Pole	7		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	10 - 20 feet	Sapling	Tag Alder	Medium	5 - 10 feet	Tall Shrub
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2	6122 - Black Spruce	Poletimber Well	12.7	87	Unspecified	N/A																																							
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4	6121 - Tamarack	Sapling Poor	21.2	4	Immature	N/A	Cut with the Deer Fly Junction timber sale. Sale closed 07/06/2020. Not much regeneration yet, some aspen/balm of gilead on edges; continue to monitor.																																						
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5	42340 - Upland Spruce/Fir	Poletimber Well	10.0	33	Unspecified	N/A	appears that in previous timber sale no conifers were removed; northwest 2/3 of stand has no aspen.																																						
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6	320 - Upland Shrub	Nonstocked	14.0		Unspecified	No	Upland brush, black cherry pole/saps and balm of gilead 1-2" dbh																																						
7	6120 - Lowland Cedar	Poletimber Medium	12.4	82	Unspecified	N/A	scattered small openings throughout.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
8	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	55.2	70	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		15	Pole	9		Black Spruce	Medium	10 - 20 feet	Sapling
Black Spruce		45	Pole/Sapling	5	70	Tag Alder	High	5 - 10 feet	Tall Shrub
Tamarack		40	Pole	7	81				
9	500 - Water	Nonstocked	18.8		Unspecified	No			
10	6121 - Tamarack	Poletimber Medium	31.4	79	Unspecified	N/A	Hummocky stand		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		70	Pole	7	79	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar		10	Pole	9					
Black Spruce		20	Pole	6					
11	4130 - Aspen	Poletimber Well	20.3	34	Immature	N/A	Mud Lake TS cut 1990		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Pole	7	34	Hazelnut (Beaked)	Full	< 5 feet	Tall Shrub
						Balsam Fir	Low	Variable	Sapling
						Red Maple	Low	5 - 10 feet	Sapling
12	6122 - Black Spruce	Poletimber Poor	17.4	79	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		40	Pole/Sapling	5		Tag Alder	Full	5 - 10 feet	Tall Shrub
Black Spruce		60	Sapling/Pole	4	79				
13	4319 - Mixed Upland Forest	Sapling Medium	3.2	34	Immature	N/A	Stand was harvested with stand 11 with Mud Lake TS 1990 however this is a rockier, shallower soiled stand. This could be combined with adjacent aspen stand to south for final harvest next entry possibly.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry		5	Sapling	2		Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub
Tamarack		5	Sapling	4		Red Maple	Medium	10 - 20 feet	Sapling
Balsam Fir		10	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
Black Spruce		35	Sapling	4					
Quaking Aspen		45	Sapling/Pole	4	34				
14	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.5	77	81-110	N/A	Thinned 2008 Circle 8 TS. BA average: 118		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		5	Pole/Log	9		Leatherwood	Medium	< 5 feet	Tall Shrub
Sugar Maple		50	Pole/Log	9	77	Ironwood	Medium	5 - 10 feet	Sapling
Red Maple		45	Pole/Log	9					
15	3102 - Grass	Nonstocked	4.1		Unspecified	No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
16	4110 - Sugar Maple Association	Poletimber Well	4.2	77	81-110	N/A	thin stand while we are here. Average BA = 90																																					
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17	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	61.4	79	Unspecified	N/A	Stand is boggy and very sparse further in center of stand.																																					
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18	6120 - Lowland Cedar	Poletimber Well	106.5	97	Unspecified	N/A	edges are b spruce poletimber 3 - 7" dbh and tamarack 6 - 10" quickly transitioning to heavy cedar. small interspersed high ground islands in W end with fir poletimber/saplings 2 - 7"dbh, aspen saplings and scattered large aspen/r maple - majority of larger timber is windthrown																																					
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19	6224 - Treed Bog	Nonstocked	47.3		Unspecified	No																																						
20	500 - Water	Nonstocked	2.7		Unspecified	No																																						
21	4139 - Aspen, Mixed Deciduous	Sapling Poor	12.6	6	Immature	N/A	Aspen Teamwork TS 029-16 cut in winter of 2018 (Brolin/Modlin). Pocket of low quality hardwood left for retention in center south of stand.																																					
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22	4130 - Aspen	Sapling Well	47.5	25	Unspecified	N/A	End of the Road TS cut 1999																																					
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23	6220 - Alder/willow	Nonstocked	37.8		Unspecified	No																																						



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24	6120 - Lowland Cedar	Poletimber Medium	31.4	105	Unspecified	N/A																																									
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25	4130 - Aspen	Sapling Well	46.4	6	Immature	N/A	Cut Aspen Teamwork TS 029-16 (cut in winter 2018). North portion of stand is a buffer																																								
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26	4134 - Aspen, Spruce/Fir	Poletimber Well	42.5	51	Unspecified	N/A	Heavier fir component at south edges of stand; heavy hazel understory. Aspen dbh ranges from 8-14"; balsam dbh ranges from 6-12". Consider cutting stand 12 in adjacent compartment at same time.																																								
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27	4110 - Sugar Maple Association	Poletimber Well	7.0	67	111-140	N/A	A few nice sugar maple but many gnarly, cracked stems. Thin to 60-70 BA. Current BA: 110, 130, 130																																								
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28	6121 - Tamarack	Poletimber Medium	28.7	68	Unspecified	N/A	fairly open tamarack, cedar and scattered b spruce. Very wet. Drainage on north edge of stand.																																								
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29	622 - Lowland Shrub	Nonstocked	10.3		Unspecified	No																																									
30	4130 - Aspen	Sapling Well	40.4	6	Immature	N/A	Aspen Teamwork TS 029-16, cut winter 2018 (Brolin/Modlin)																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
31	4110 - Sugar Maple Association	Poletimber Well	65.3	79	111-140	N/A	Circle 8 TS thinned 2009; BA avg=117		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		60	Log/Pole	10	79	Ironwood	High	10 - 20 feet	Sapling
Basswood		40	Log/Pole	13		White Ash	Low	< 5 feet	Sapling
						Sugar Maple	Low	10 - 20 feet	Sapling
						Leatherwood	Medium	< 5 feet	Tall Shrub
32	4110 - Sugar Maple Association	Poletimber Well	38.6	77	111-140	N/A	Granitic Boulder TS thinned 1999. Fair amount of defect in log sized trees, basswood getting overmature. Lots of basswood clumps. Avg BA = 124; south lobe has more SM saplings		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		40	Log/Pole	12		Ironwood	Medium	10 - 20 feet	Tall Shrub
Sugar Maple		60	Log/Pole	10	77	White Spruce	Low	Variable	Sapling
						Leatherwood	Medium	< 5 feet	Tall Shrub
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33	4130 - Aspen	Sapling Well	5.7	25	Immature	N/A	Granitic Boulders TS cut 1999		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		5	Sapling	2		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Sugar Maple		20	Sapling	2		Hazelnut (Beaked)	High	< 5 feet	Tall Shrub
Quaking Aspen		75	Sapling	4	25				
34	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	57.5	62	Unspecified	N/A	open pockets heavier to tag alder and fir saplings.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		15	Pole	6		Balsam Fir	Medium	5 - 10 feet	Sapling
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Tamarack		45	Pole	6	62				
Black Ash		2	Sapling/Pole	4					
Paper Birch		3	Pole	7					
35	4110 - Sugar Maple Association	Poletimber Well	31.6	85	111-140	N/A	Goshawk TS thinned 1992. Drainage forms along trail toward SE end of stand; some large 16-20" SM; rolling hills - areas with large rocks in gullies; deer stand in SE top of hill		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch		2	Log	12		Sugar Maple	Medium	10 - 20 feet	Sapling
Sugar Maple		70	Pole/Log	10	85	Ironwood	Medium	10 - 20 feet	Sapling
Red Maple		8	Log	12		White Spruce	Medium	10 - 20 feet	Sapling
Basswood		20	Log	14					
36	4130 - Aspen	Poletimber Well	98.3	32	Unspecified	N/A	Goshawk TS cut 1992. Aspen 4-8" dbh; pocket of lowland left along west line		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		10	Pole/Sapling	6		Hazelnut (Beaked)	Full	< 5 feet	Tall Shrub
Quaking Aspen		85	Pole	6	32	Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Spruce		5	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
37	4110 - Sugar Maple Association	Poletimber Well	19.6	79	111-140	N/A	Needs a light thinning; leave some SM seed trees		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		80	Pole/Log	9	79	White Spruce	Medium	5 - 10 feet	Sapling
White Pine		3	XLog/Log	20		Ironwood	High	10 - 20 feet	Sapling
Basswood		17	Log/Pole	12					
38	4110 - Sugar Maple Association	Poletimber Well	10.8	79	111-140	N/A	Fair amount of defect. Thin to 60-70 BA. Drier site with hazel and princess pine		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		10	Log/Pole	11		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
Sugar Maple		50	Pole	8	79	White Spruce	Low	< 5 feet	Sapling
Basswood		40	Log/Pole	11					
39	6233 - Wet Meadow	Nonstocked	17.7		Unspecified	No			
40	4130 - Aspen	Poletimber Well	361.9	39	Unspecified	N/A	Horseshoe Lake TS 1985. Aspen 8-10"; not much conifer in understory. Most of stand was cut by 1985 except southwest lobe. Pockets with heavy sugar maple saplings present throughout.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		80	Pole	9	39	Sugar Maple	High	10 - 20 feet	Sapling
Balsam Fir		5	Pole/Sapling	6		Balsam Fir	Low	10 - 20 feet	Sapling
Red Maple		5	Pole	9		Hazelnut (Beaked)	Full	< 5 feet	Tall Shrub
Sugar Maple		10	Pole	8					
41	4134 - Aspen, Spruce/Fir	Poletimber Well	111.3	54	Unspecified	N/A	A few open areas; scattered SM logs. West of road has more 8" trees with some 10-12" aspen with more conifer that has fair amount of mortality		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		20	Pole	8		Hazelnut (Beaked)	Full	< 5 feet	Tall Shrub
White Spruce		5	Log	14		Sugar Maple	High	10 - 20 feet	Sapling
Quaking Aspen		70	Log/Pole	10	54	Red Maple	Medium	Variable	Sapling
Sugar Maple		5	Pole/Log	8		Balsam Fir	Low	Variable	Sapling
42	4130 - Aspen	Poletimber Well	25.5	38	Unspecified	N/A	Fair amount (50%) of conifer mortality. Cut 1986		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		85	Pole	7	38	Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir		15	Pole/Sapling	6		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
43	6122 - Black Spruce	Poletimber Medium	16.8	85	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		3	Pole	6		Balsam Fir	Low	10 - 20 feet	Sapling
Quaking Aspen		2	Log	14		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce		60	Pole	6	85				
Northern White Cedar		35	Log	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
44	4134 - Aspen, Spruce/Fir	Sapling Medium	49.2	23	Unspecified	N/A	Aspen is larger in upland areas. Vicenzie TS cut 2001
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		40	Sapling	3	23	Tag Alder	
Balsam Poplar		20	Sapling	2		Hazelnut (Beaked)	
Red Maple		10	Sapling	1			
Balsam Fir		30	Sapling	3			
						Density	Avg. Height
							Size
45	4110 - Sugar Maple Association	Poletimber Well	7.7	77	111-140	N/A	Circle 8 TS thinned 2009. Thin to 70-80BA
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		90	Log/Pole	10	77	Ironwood	
Red Maple		10	Pole	9			
						Density	Avg. Height
							Size
46	4319 - Mixed Upland Forest	Poletimber Well	15.2	44	Unspecified	N/A	moderate-fair amount of mortality in BF/WS; stand will hold
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		40	Pole	8	44	Hazelnut (Spp.)	
Red Maple		5	Pole	8		Red Maple	
White Spruce		20	Pole/Sapling	6			
Balsam Fir		35	Pole	7			
						Density	Avg. Height
							Size
47	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	5.5	23	1-50	N/A	Vicenzie TS cut 2001
Canopy Species		% Cover	Size Class	DBH	Age		
Sugar Maple		60	Sapling	4	23		
Balsam Fir		20	Sapling	2			
Quaking Aspen		20	Pole/Sapling	5			
48	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	23.3	41	Unspecified	N/A	Opening is filling in; very rocky site
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		25	Pole/Sapling	6			
Quaking Aspen		35	Sapling	1			
Black Cherry		40	Pole/Sapling	6	41		
49	4110 - Sugar Maple Association	Poletimber Well	61.2	79	81-110	N/A	Circle 9 TS thinned 2009; BA avg 110. Hold for next entry? Basswood getting large and hollow; thicker understory east half
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Basswood		25	Log/Pole	14		Ironwood	
Sugar Maple		60	Pole	9	79	Sugar Maple	
Paper Birch		5	Pole	9			
Red Maple		10	Pole	9			
						Density	Avg. Height
							Size
50	4130 - Aspen	Sapling Well	41.7	4	Immature	N/A	Cut with the Deer Fly Junction TS 2020. Retention along drainage in ESE.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		100	Sapling	1	4		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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51 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 37.7 86 Unspecified N/A black spruce falling apart. cut merchantable trees along road as salvage

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	5	Log/Pole	12		Balsam Fir	Low	5 - 10 feet	Sapling
Paper Birch	5	Log	12		Black Spruce	Low	5 - 10 feet	Sapling
Black Spruce	45	Pole	7	86	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	35	Log/Pole	11					
Tamarack	10	Pole	7					

52 4130 - Aspen Poletimber Well 12.7 45 Unspecified N/A Much mortality in Bf/WS, especially the understory. Could cut/will also hold.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole	7		Black Spruce	Low	10 - 20 feet	Sapling
Quaking Aspen	85	Pole	8	45				

53 6129 - Mixed Coniferous Lowland Forest Poletimber Poor 6.0 86 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	2	XLog	26		Tag Alder	Full	5 - 10 feet	Tall Shrub
Paper Birch	3	Pole	7		Balsam Fir	High	5 - 10 feet	Sapling
Black Spruce	25	Pole	8					
Tamarack	40	Pole	8	86				
Northern White Cedar	30	Log	14					

54 4134 - Aspen, Spruce/Fir Poletimber Well 19.5 57 Unspecified N/A About half spruce/fir understory is dead. Trace amount of White birch 9"dbh. Rocky site

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10	Pole/Sapling	7		Balsam Fir	Full	10 - 20 feet	Sapling
Quaking Aspen	70	Log/Pole	10	57	Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
Balsam Fir	20	Pole	8		White Spruce	Full	10 - 20 feet	Sapling

55 622 - Lowland Shrub Nonstocked 44.4 Unspecified No

56 6120 - Lowland Cedar Poletimber Well 22.2 108 Unspecified N/A good cedar stand 7 - 12" dbh with associated b spruce. fairly open understory. very small pockets of purer b spruce/tamarack scattered throughout. extreme W end graduates to higher stocking of tamarack/b spruce and small high ground "island" inclusion

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	20	Pole	7	75	Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce	15	Pole	7		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	65	Pole/Log	10	108				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
57	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	17.6	37	1-50	N/A	Variable stand; understory was removed in 1987. Moderate amount of mortality in immature and over mature conifer; more mortality in southwest corner.																																											
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58	6121 - Tamarack	Sapling Poor	28.3	4	Immature	N/A	Deer Fly Junction TS 2020. Long-term retention in strips. Tamarack starting to establish but will need to continue monitoring																																											
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59	4139 - Aspen, Mixed Deciduous	Sapling Poor	36.6	4	Immature	N/A	Cut with the Deer Fly Junction TS 2020.																																											
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60	6120 - Lowland Cedar	Poletimber Well	81.2	105	Unspecified	N/A	cedar predominates much of stand with scattered areas of bed rock out crop throughout, outcrops have some pine tag alder prevalent.																																											
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61	6121 - Tamarack	Sapling Poor	3.7	4	Immature	N/A	Deer Fly Junction TS cut 2020. This stand was part of the cedar stand adjacent to it, where black spruce and tamarack was removed.																																											
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62	622 - Lowland Shrub	Nonstocked	45.3		Unspecified	No																																												
63	4136 - Aspen, Mixed Conifer	Sapling Well	15.6	15	Unspecified	N/A	Vicenzie TS cut 2009. Some pockets of WP/RP logs																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
64	42210 - Natural Red Pine	Sawtimber Well	14.0	72	111-140	N/A	Cut with the Deer Fly Junction TS 2020.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		95	Log	12	72	Balsam Fir	
White Pine		5	Log/Pole	10		Medium	
						10 - 20 feet	
						Sapling	
65	4130 - Aspen	Sapling Medium	5.5	4	Immature	N/A	Cut with the Deer Fly Junction TS 2020
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		60	Sapling	1	4		
White Pine		3	Log	16			
Red Maple		37	Sapling	1			
66	4133 - Aspen, Mixed Pine	Sapling Well	49.4	15	Unspecified	N/A	Vicenzie TS cut 2009
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		5	Sapling	2		White Pine	
White Pine		10	Log	13		Medium	
Red Pine		10	Log/Pole	11		Black Spruce	
Quaking Aspen		65	Sapling	2	15	Low	
Red Maple		5	Sapling	2		5 - 10 feet	
Balsam Fir		5	Sapling	3		Sapling	
67	42210 - Natural Red Pine	Sawtimber Well	4.5	74	81-110	N/A	Cut with the Deer Fly Junction TS 2020.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		35	Log	14		Balsam Fir	
Red Pine		65	Log	15	74	Low	
						5 - 10 feet	
						Sapling	
68	4112 - Maple, Beech, Cherry Association	Poletimber Well	22.0	77	111-140	N/A	Most of aspen has died out and white birch is almost all dead. Recommend shelterwood, removing most of red maple and aspen
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		35	Log/Pole	10		Ironwood	
Paper Birch		5	Log	12		High	
White Pine		5	XLog	24		Leatherwood	
Sugar Maple		55	Log/Pole	10	77	Medium	
						< 5 feet	
						Tall Shrub	
69	4130 - Aspen	Sapling Well	13.2	4	Immature	N/A	Deer Fly Junction closed 2020. Trace amounts of red pine; white pine heaviest in southeast corner.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		85	Sapling	1	4		
White Pine		15	Log	14			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
70	6120 - Lowland Cedar	Poletimber Well	23.3	101	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		5	Pole	7		Tag Alder	
Northern White Cedar		75	Pole/Log	9	101	Balsam Fir	
Black Spruce		20	Pole	7		Density	
						Avg. Height	
						Size	
71	320 - Upland Shrub	Nonstocked	1.1		Unspecified	Managed Opening	burn to maintain opening
72	4130 - Aspen	Poletimber Well	40.9	37	Unspecified	N/A	Cook TS 1987. Smaller (6") and purer to aspen in far east
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		5	Pole	5		Hazelnut (Beaked)	
Red Maple		10	Pole	7		Density	
Quaking Aspen		85	Pole	7	37	Avg. Height	
						Size	
73	4130 - Aspen	Poletimber Well	8.8	59	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		95	Pole	9	59	Balsam Fir	
Balsam Fir		5	Pole	8		Hazelnut (Beaked)	
						White Pine	
						Density	
						Avg. Height	
						Size	
74	6120 - Lowland Cedar	Sawtimber Well	8.1	101	Unspecified	N/A	nearly pure cedar in overstory - very little understory.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		95	Log/Pole	11	101	Balsam Fir	
Black Spruce		5	Pole	6		Tag Alder	
						Density	
						Avg. Height	
						Size	
401	310 - Herbaceous Openland	Nonstocked	7.1		Unspecified	Managed Opening	burn to maintain opening