



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12009

Entry Year 2026

Acreage: 3,195

County Dickinson

Management Area: Suomi Till and Outwash Plain

Stand Examiner: Scott Sebero

Legal Description:

T44N-R29W Sections 1, 2 & 11 - 15

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Protect riparian areas during management activity implementing the Best Management Practices guidelines.

Soil and topography:

A mix of Zimmerman fine sand, 18 to 35 percent slopes, rolling, excessively well drained soil on foot slopes, side slopes, and ridges and Pemene fine sandy loam, 6 to 18 percent slopes, gently rolling, well drained soil is on foot slopes, side slopes, and ridges in the uplands.

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

Ownership patterns in this compartment consist mostly of State lands and WE Energies with some small private parcels and hunting camps. Lands in and around this compartment are used mainly for hunting and managed for forest products.

Unique Natural Features:

Schwartz Creek, 60 Day Creek, and McGregor Creek

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:

The northern region of this compartment contains Schwartz Creek. Schwartz Creek is a designated Type 1 trout stream less than 50-ft wide and has a predicted average July water temperature of 61.2 °F (cold stream). A 300' buffer is recommended for Schwartz Creek 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.

The southern region of this compartment borders McGregor Creek. McGregor Creek is a designated Type 1 trout stream less than 50-ft wide and has a predicted mean July water temperature of 60.8 °F (cold stream). A 300' buffer is recommended for McGregor Creek 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:

This compartment contains portions of the historic Floodwood Deery Wintering Complex. Mesic and lowland conifers provide essential cover for wintering deer and should be maintained and promoted wherever possible. Continuing to promote age-class diversity in the aspen type is favorable for bear, deer, grouse, woodcock and other game and non-game species. Eagles, osprey, red-shouldered and goshawk are likely inhabitants of this compartment. Wolf activity is concentrated in and around this compartment.

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 operation is roughly five miles southeast. There appears to be some 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 end of the compartment in the form of two small but prominent magnetic anomalies.

Both geophysical features were the focus of some exploration test drilling in the past, but the results of those efforts are not currently available. These sites have good potential for additional future exploration. State-owned mineral rights covering this area have been leased multiple times in the past and 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 from Floodwood, O'Neil Lake Road, and Big Wheel Road and connecting two tracks.

Survey Needs:

Recreational Facilities and Opportunities:

Snowmobile trail 32 runs down Big Wheel Road, which is through this compartment.

Fire Protection:

Felch protection area.

Additional Compartment Information:

The following reports from the Inventory are attached:

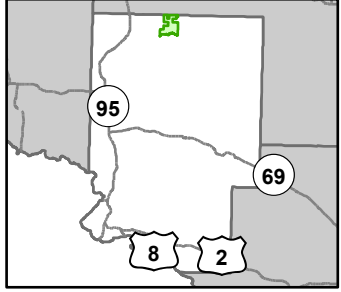
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

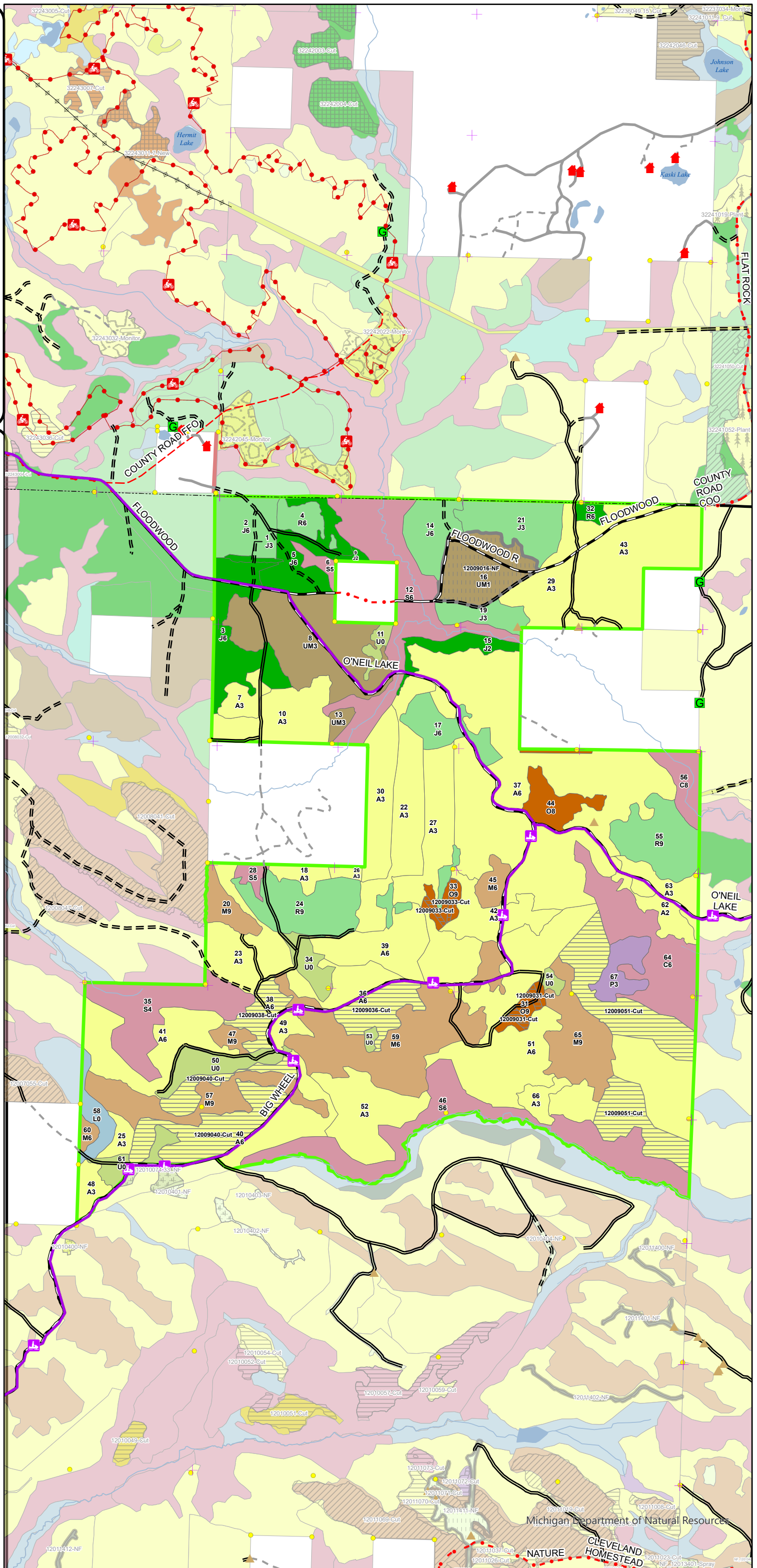
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 12009
 T44N, R29W Sec: 1, 2, 11 - 15
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Suomi Till and
 Outwash Plain
 YOE: 2026
 Acres: 3195.2 GIS Calculated
 Examiner: Scott Sebero
 Map Revised: 07/15/2024
 Map Phase: Web-Post

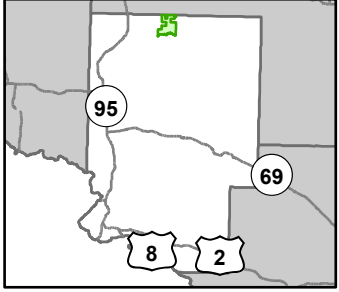


- Motorcycle Trails (DNR License)
- Snowmobile Trails
- Designated Motorcycle Trails
- Designated Snowmobile Trails
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- Cabin
- Berms
- Gate
- Culvert
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
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- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
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- Lake/Pond
- Perennial River
- Lakes and Rivers
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- Clearcut (w/Reserves)
- Opening Maintenance
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 320 - Upland Shrub
- 622 - Lowland Shrub

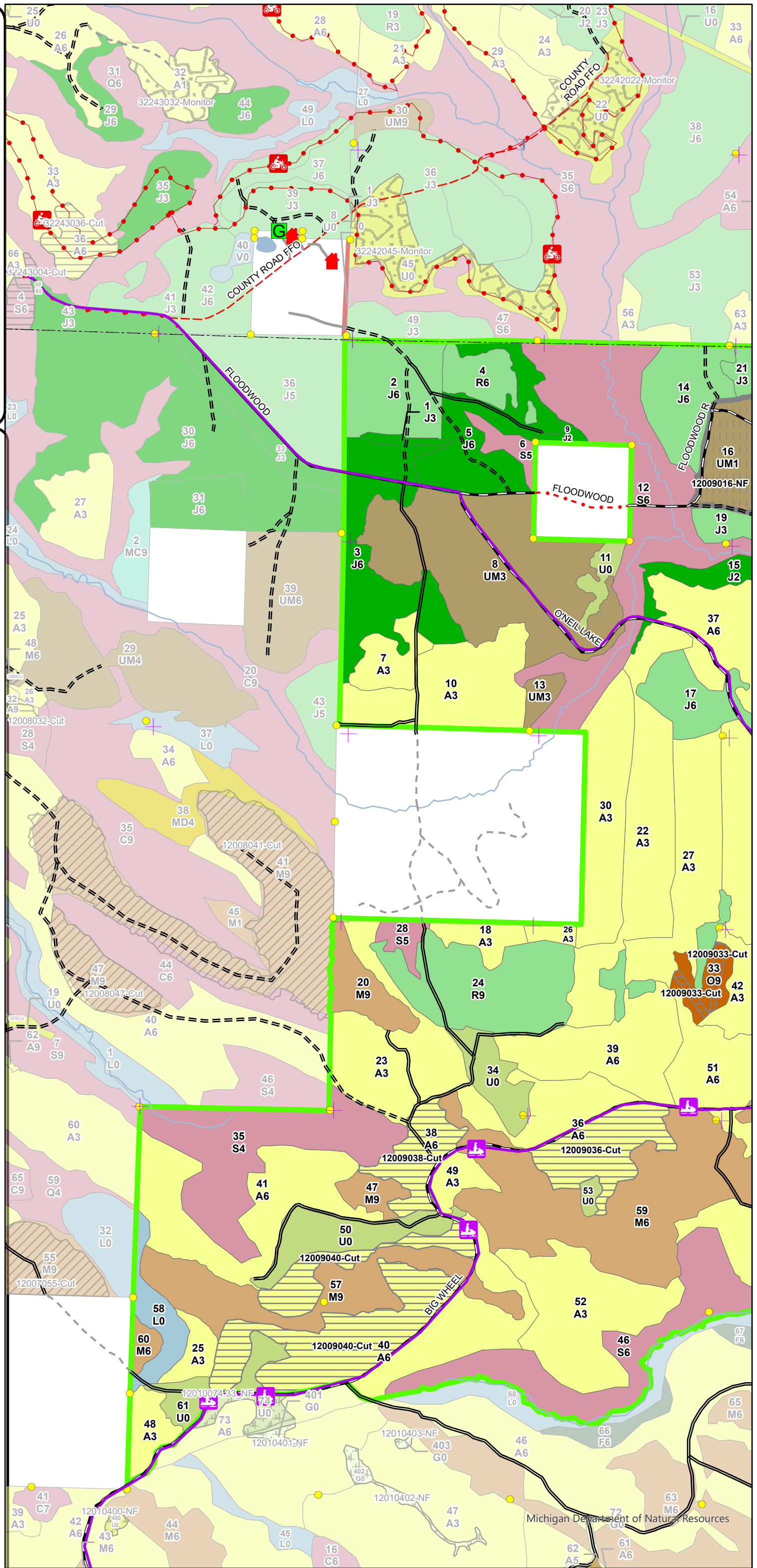


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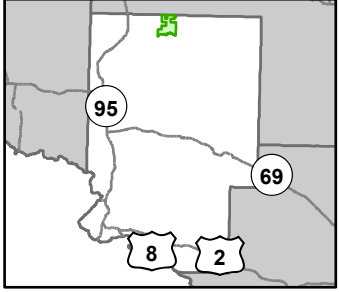


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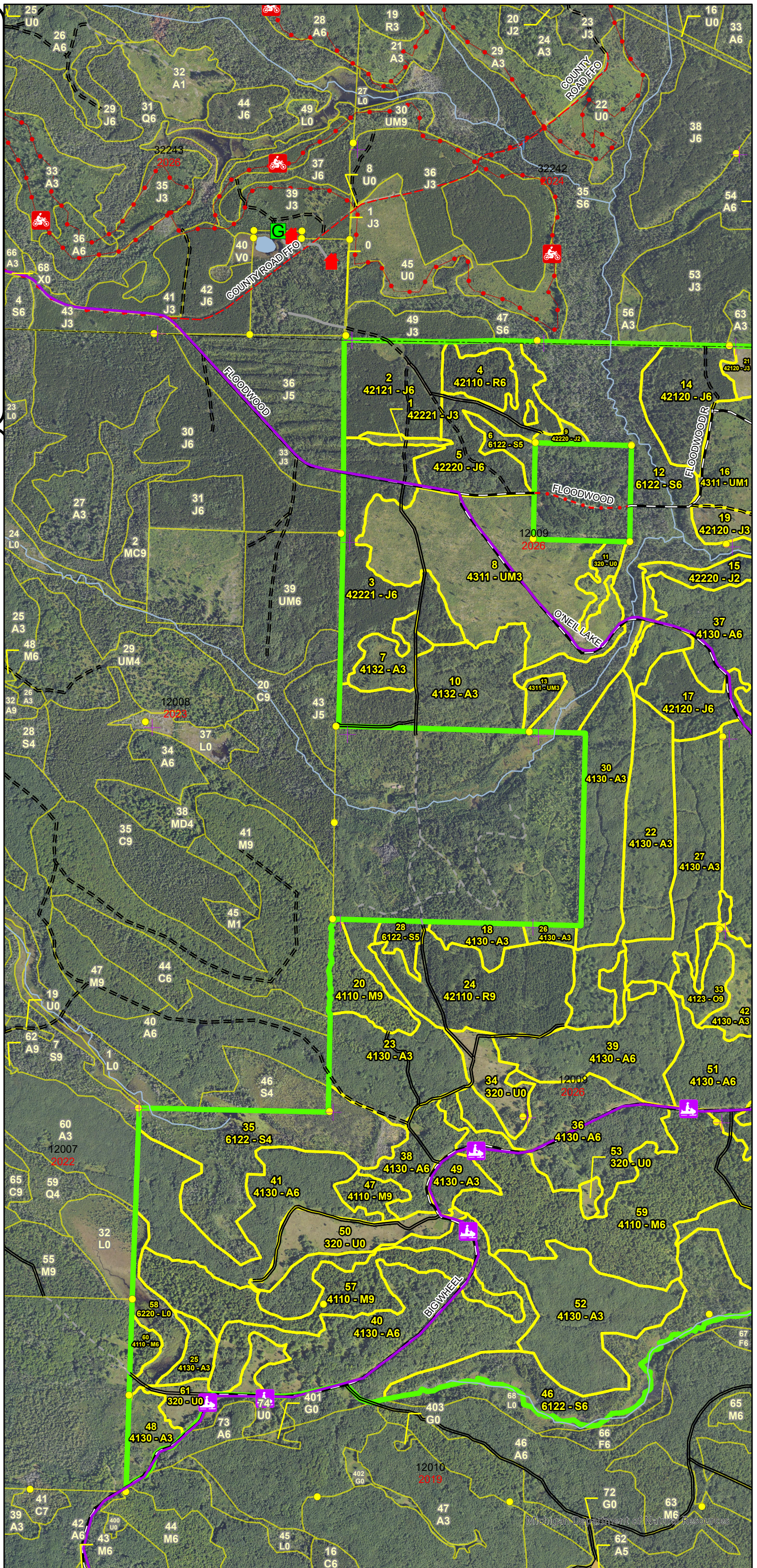


Stand Boundary Map

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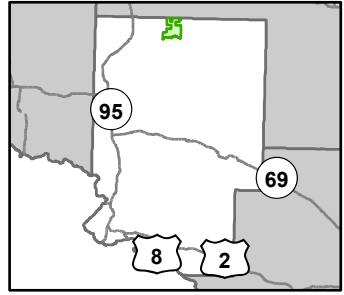


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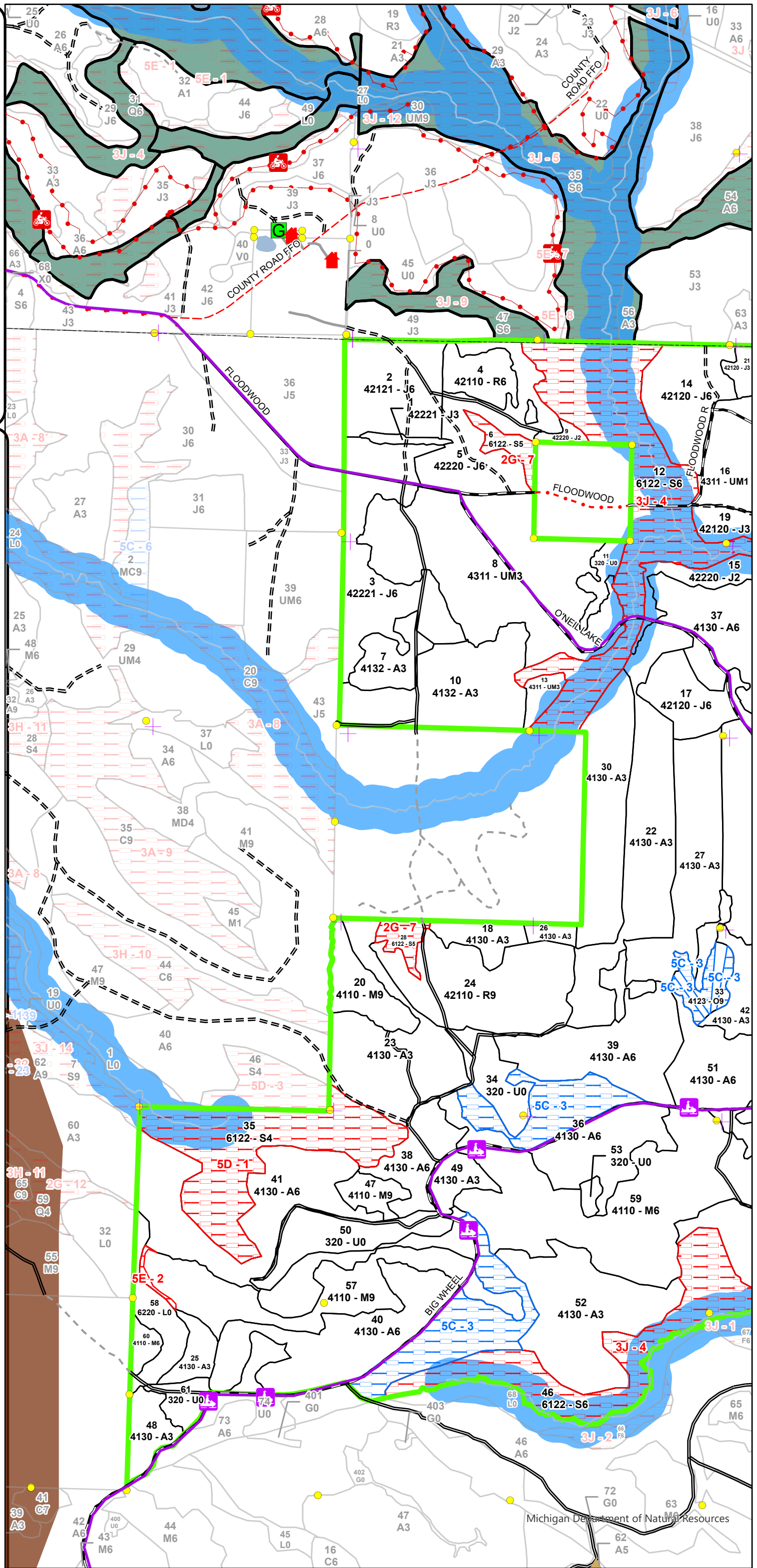


Special Conservation Areas & Site Conditions Map

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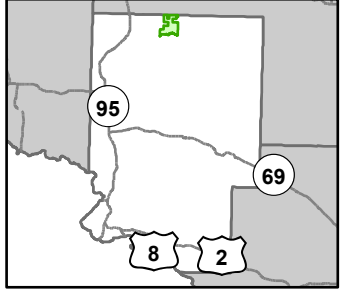


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- SCA Removal
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range
- Vernal Pool

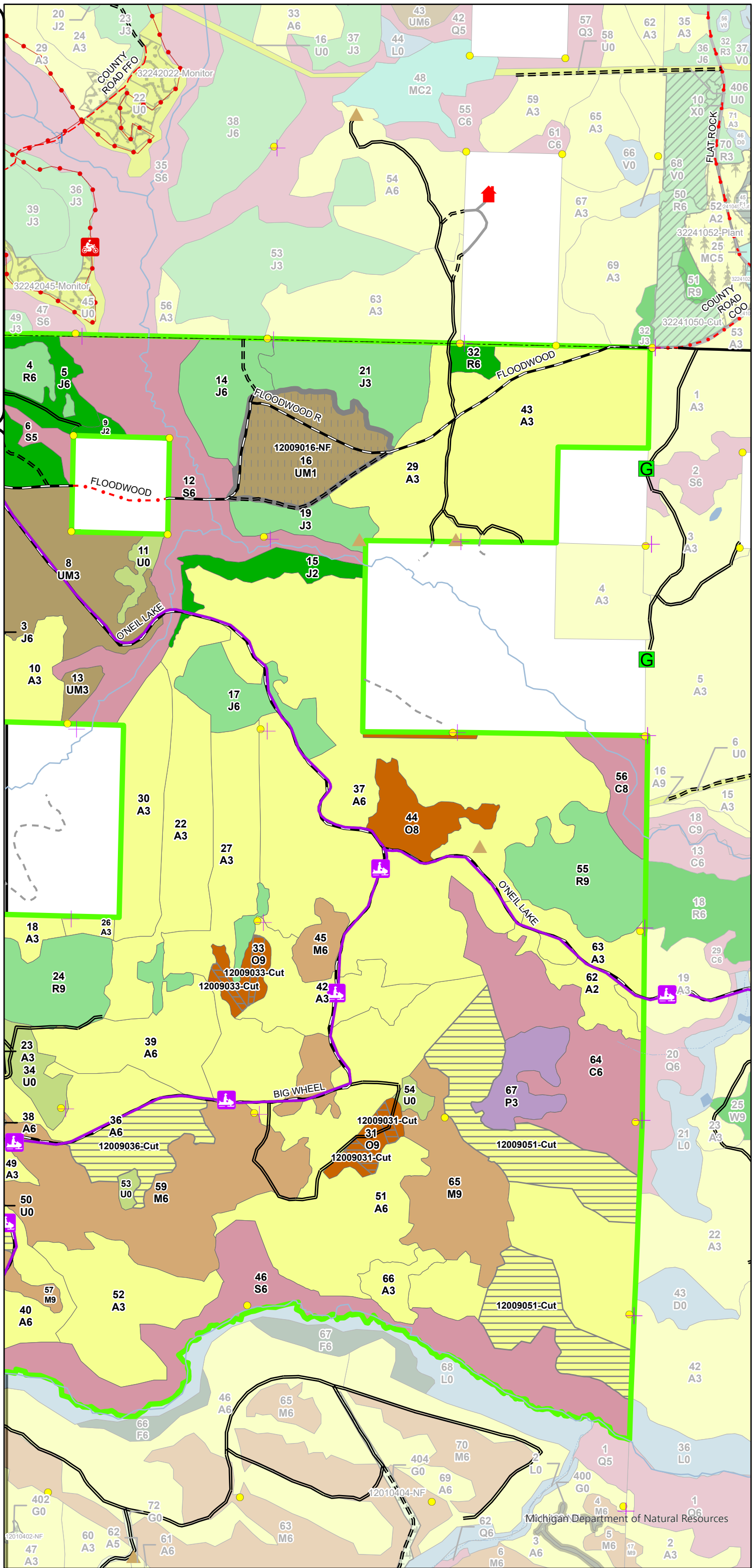


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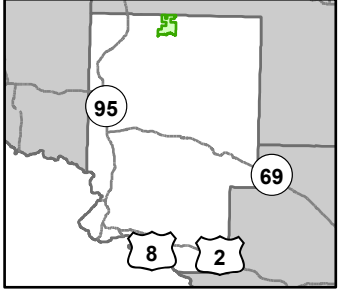


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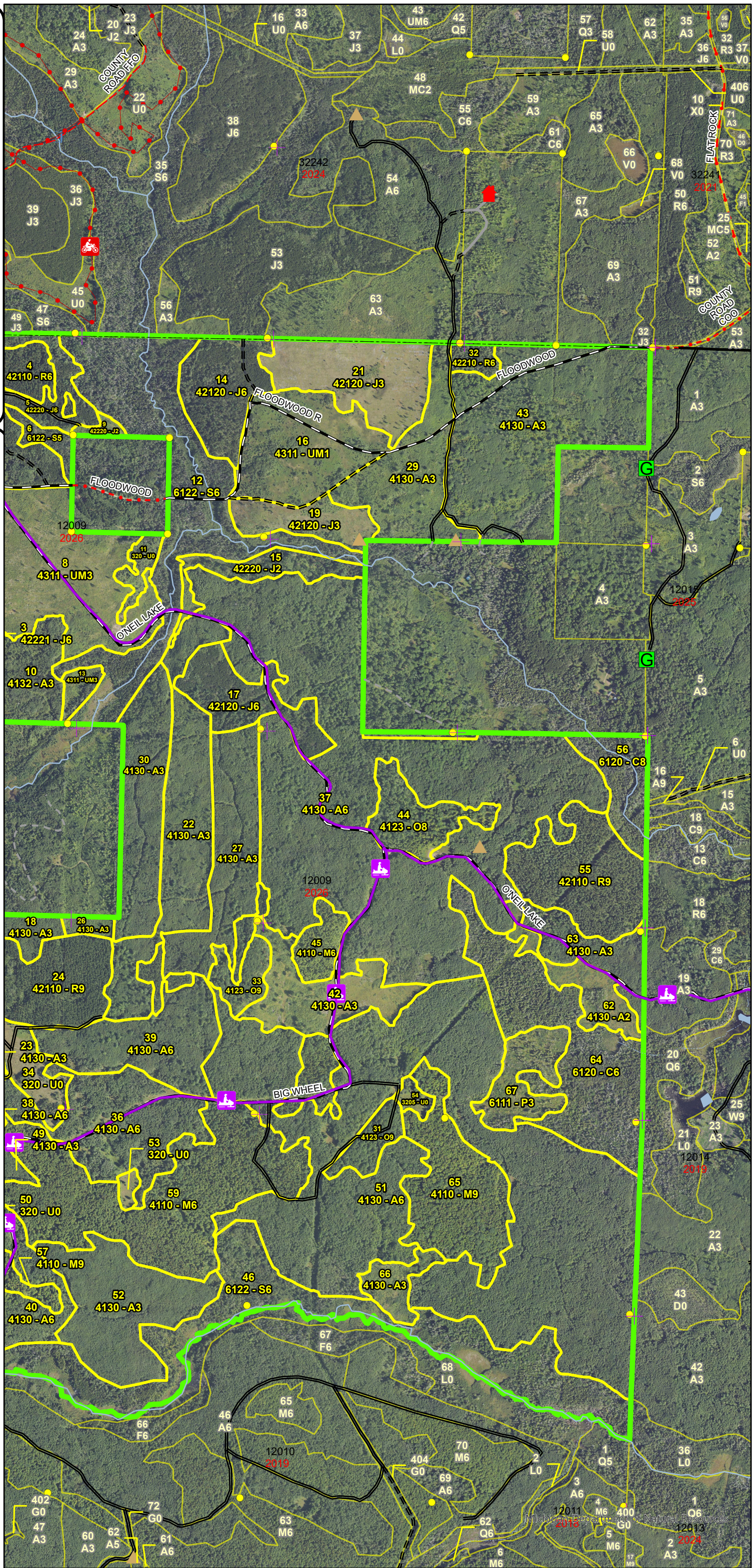


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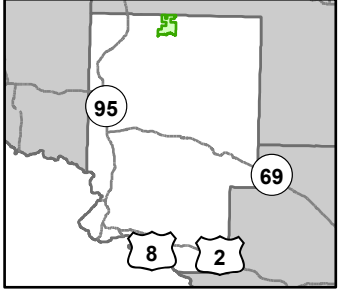


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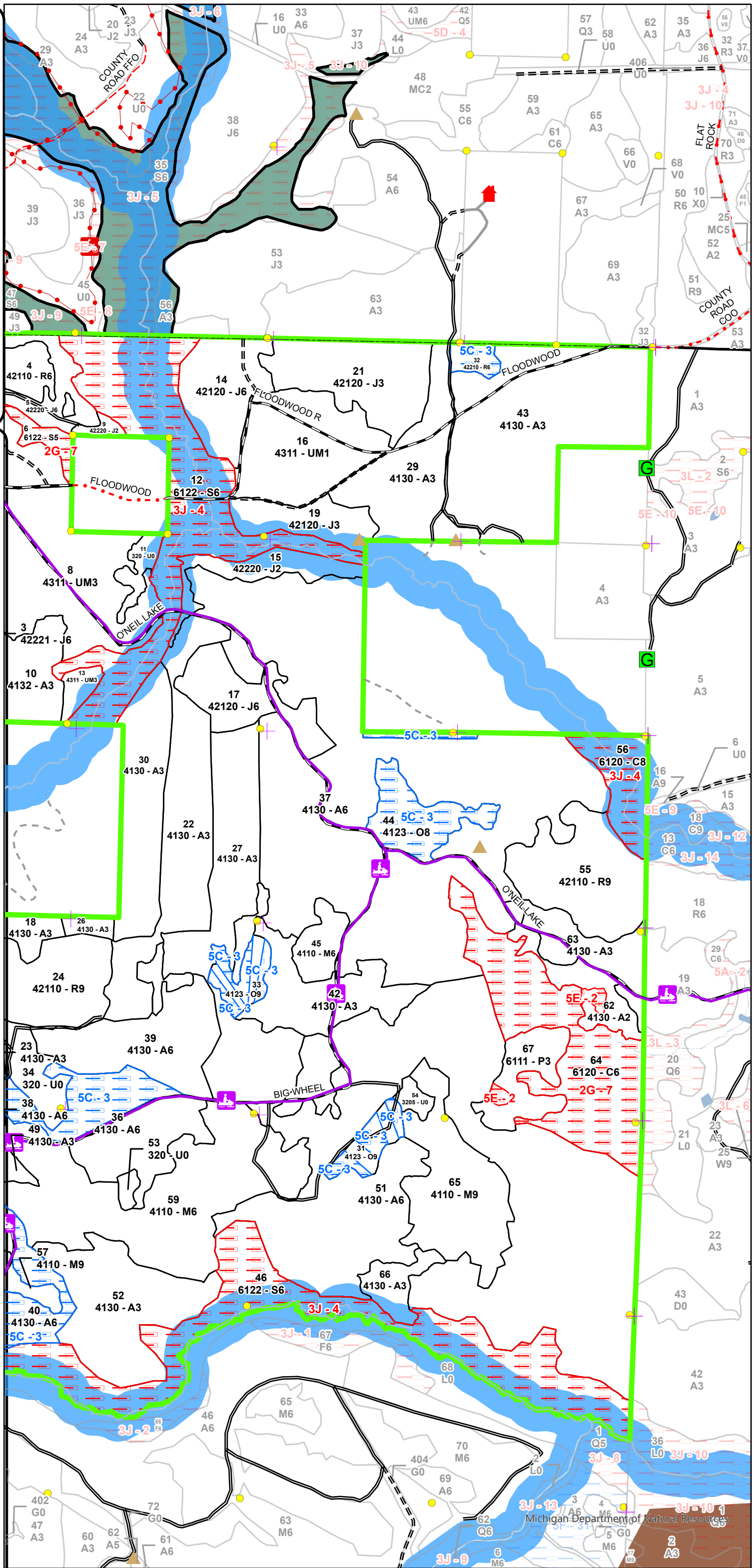


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Report 1 – Total Acres by Cover Type and Age Class



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+	Uneven-Aged	Total
Aspen	0	148	212	437	319	347	204	0	0	0	0	0	0	0	0	0	0	0	1667
Cedar	0	0	0	0	0	0	0	0	0	0	107	0	0	0	0	0	0	0	107
Jack Pine	0	95	0	153	58	0	0	0	0	0	0	0	0	0	0	0	0	0	306
Lowland Aspen/Balsam Poplar	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Shrub	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Spruce/Fir	0	0	0	0	0	0	7	0	0	0	316	0	0	0	0	0	0	0	323
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	295	0	0	0	0	0	0	0	295
Oak	0	0	0	0	0	0	0	0	0	0	54	0	0	0	0	0	0	0	53
Red Pine	0	0	0	0	0	0	0	73	70	0	6	0	0	0	0	0	0	0	148
Upland Mixed Forest	0	124	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180
Upland Shrub	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75
Total	92	391	269	590	377	347	211	73	70	0	778	0	0	0	0	0	0	0	3195



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 9
Total Compartment Acres: 3,195

Commercial Harvest - 251
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	242	0	0	0	0	0	0	0	0	242
Oak	9	0	0	0	0	0	0	0	0	9
Total	251	0	0	0	0	0	0	0	0	251

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	251	0	0	0	0	0	0	57	0	307
Next Step	0	9	0	0	0	0	251	0	0	259
Total	251	9	0	0	0	0	251	57	0	567



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:

16	12009016-NF	56.5	4311 - Pine, Aspen Mix	Sapling Poor	12	Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	220 - Non- Herbaceous Agriculture		No
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Prescription Opening maintenance.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

31	12009031-Cut	4.3	4123 - Red Oak	Sawtimber Well	90	111- 140	Harvest	Clearcut	412 - Oak Types	Even-Aged	No
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Prescription Final Harvest using 2" spec.

Specs:

Next Step

SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Oak, Mixed Hardwoods, Mixed Conifers

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

33	12009033-Cut	4.2	4123 - Red Oak	Sawtimber Well	90	81-110	Harvest	Clearcut	412 - Oak Types	Even-Aged	No
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Prescription Final Harvest using 2" spec.

Specs:

Next Step

SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Oak, Mixed Hardwoods, Mixed Conifers

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
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36	12009036-Cut	33.6	4130 - Aspen	Poletimber Well	51	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest using 4" spec. Leave conifers, Cherry, Basswood and Oak. Protect snowmobile trail. Use Oak wilt restriction.
Specs:

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

Acceptable Aspen, Mixed Hardwoods, Mixed Conifers
Regen:

Other Conifers are under-represented within this stand.
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

38	12009038-Cut	22.3	4130 - Aspen	Poletimber Well	51	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest using 4" spec. Leave conifers, Cherry, Basswood and Oak. Protect snowmobile trail. Use Oak wilt restriction.
Specs:

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

Acceptable Mixed hardwoods, Mixed Conifers
Regen:

Other Conifers are under represented within this stand.
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

40	12009040-Cut	79.3	4130 - Aspen	Poletimber Well	51	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest using 4" spec. Leave conifers, Cherry, Basswood and Oak. Protect snowmobile trail. Use Oak wilt restriction.
Specs:

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

Acceptable Aspen, Mixed Hardwoods, Mixed Conifers
Regen:

Other Conifers are under represented within this stand.
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

51	12009051-Cut	107.1	4130 - Aspen	Poletimber Well	47	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest using 4" spec. Leave conifers, Cherry, Basswood and Oak. Protect snowmobile trail. Use Oak wilt restriction.
Specs:

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

Acceptable Aspen, Mixed Hardwoods, Mixed Conifers
Regen:

Other Conifers are under represented within this stand.
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
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Total Treatment Acreage Proposed: 307.3

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 9

Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions				
		With Condition				5C	2G	3J	5D	5E
1667	1596	69		2	Aspen	69				2
107	0	0		107	Cedar		84	23		
305	305	0		0	Jack Pine					
24	23	0		1	Lowland Aspen/Balsam Poplar					1
17	17	0		0	Lowland Shrub					
324	0	0		324	Lowland Spruce/Fir		14	235	74	
295	293	0		1	Northern Hardwood					1
53	9	45		0	Oak	45				
148	142	6		0	Red Pine	6				
181	181	0		0	Upland Mixed Forest					
75	75	0		0	Upland Shrub					
3,195	2,640	120		435	Total Forested Acres	120	98	258	74	5
	83%	4%		14%	Relative Percent					

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5D: Unproductive Forest Land	74	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Stream, bog, and pond within stand.							
2	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	120	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Scott Sebero : Examiner

Compartment: 9
Year of Entry: 2026

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	258	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	98	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
1	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	3.0	7	Immature	N/A	Harvested 2017. Scarified in summer 2018 with skidder/anchor chains.																																
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2	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	40.8	27	Unspecified	N/A	Most for stand starting to reach pole size.																																
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4	42110 - Planted Red Pine	Poletimber Well	16.0	70	81-110	N/A																																	
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10	4132 - Aspen, Jack Pine	Sapling Well	54.6	27	Unspecified	N/A	Harvested 1997. More Jack Pine to West.																																	
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12	6122 - Black Spruce	Poletimber Well	115.2	90	51-80	N/A																																		
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14	42120 - Planted Jack Pine	Poletimber Well	35.3	26	Immature	N/A	Harvested 1998.																																	
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Red Maple		5	Sapling	1		Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
Quaking Aspen		10	Sapling	1		Balsam Fir	Low	Variable	Sapling
Red Pine		25	Log/Pole	14					
Jack Pine		60	Sapling	1	7				
16	4311 - Pine, Aspen Mix	Sapling Poor	56.5	12	Immature	N/A	Grassy opening slowly reclaiming to trees.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		30	Sapling/Pole	1	12	Bracken Fern	Full	Unspecified	Non-Wood
Black Cherry		25	Sapling/Pole	1					
Red Pine		20	Sapling/Pole	1					
Quaking Aspen		25	Sapling/Pole	1					
17	42120 - Planted Jack Pine	Poletimber Well	31.7	27	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		5	Pole/Sapling	5		Cherry (spp.)	Low	5 - 10 feet	Tall Shrub
Jack Pine		95	Pole/Sapling	5	27				
18	4130 - Aspen	Sapling Well	11.3	26	Immature	N/A	Harvested 1998.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	3	26	Balsam Fir	Low	Variable	Sapling
						Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
						Red Pine	Low	Variable	Sapling
19	42120 - Planted Jack Pine	Sapling Well	21.8	6	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		90	Sapling	1	6	Bracken Fern	Full	Unspecified	Non-Wood
Quaking Aspen		5	Sapling	1					
Black Cherry		5	Sapling	1					
20	4110 - Sugar Maple Association	Sawtimber Well	18.9	90	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		5	Log/Pole	12	90	Ironwood	Medium	Variable	Sapling
Red Maple		5	Log/Pole/Sap	10	90	Leatherwood	Low	5 - 10 feet	Tall Shrub
Sugar Maple		90	Log/Pole/Sap	10	90				
21	42120 - Planted Jack Pine	Sapling Well	48.3	6	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		100	Sapling	1	6	Bracken Fern	Full	Unspecified	Non-Wood



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
22	4130 - Aspen	Sapling Well	71.0	15	Unspecified	N/A	Scattered pole and log sized red oak.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	2	15	Red Pine	Low	Variable	Sapling
						Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
23	4130 - Aspen	Sapling Well	54.6	26	Immature	N/A	Harvested 1998.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	3	26	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
						Red Pine	Low	Variable	Sapling
						Balsam Fir	Low	Variable	Sapling
24	42110 - Planted Red Pine	Sawtimber Well	72.5	65	81-110	N/A	Thinned 2019.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/Pole/Sap	10	65	Red Maple	Low	Variable	Sapling
						Quaking Aspen	Low	10 - 20 feet	Sapling
						Red Pine	Low	Variable	Sapling
						Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
25	4130 - Aspen	Sapling Well	9.2	5	Immature	N/A	Harvested 2019.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	1	5	Ironwood	Low	Variable	Sapling
						Sugar Maple	Low	Variable	Sapling
26	4130 - Aspen	Sapling Well	4.2	5	Immature	N/A	Harvested 2019.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	1	5	Balsam Fir	Low	Variable	Sapling
						Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
						Red Pine	Low	Variable	Sapling
27	4130 - Aspen	Sapling Well	51.9	27	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling/Pole	4	27	Red Pine	Low	Variable	Sapling
						Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
28	6122 - Black Spruce	Poletimber Medium	7.0	55	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		70	Pole/Sapling	5	55	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Balsam Fir		10	Sapling/Pole	4		Balsam Fir	Low	Variable	Sapling
Tamarack		20	Pole/Sapling	5		Tag Alder	Medium	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
29	4130 - Aspen	Sapling Well	49.9	7	Immature	N/A	Scattered red oak and red pine. Some paper birch and balsam. Harvested 2017.																																													
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31	4123 - Red Oak	Sawtimber Well	11.9	90	111-140	N/A																																														
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32	42210 - Natural Red Pine	Poletimber Well	6.2	90	51-80	N/A																																														
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33	4123 - Red Oak	Sawtimber Well	12.5	90	81-110	N/A	Understory harvested 2019. All Oak retained.																																													
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34	320 - Upland Shrub	Nonstocked	17.8		Unspecified	No																																														
35	6122 - Black Spruce	Poletimber Poor	74.2	90	1-50	N/A																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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36	4130 - Aspen	Poletimber Well	61.9	51	51-80	N/A	Harvested 1973.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	75	Pole	6	51	Sugar Maple	Medium	Variable	Sapling
Sugar Maple	10	Pole/Sap/Log	8		Balsam Fir	Low	Variable	Sapling
Basswood	5	Log	12		Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
White Spruce	5	Pole/Sapling	6		White Spruce	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	6					

37	4130 - Aspen	Poletimber Well	318.9	35	Unspecified	N/A		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	5	Pole/Sapling	6		Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	85	Pole/Sapling	6	35	Red Oak	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	5		Red Pine	Low	Variable	Sapling
Red Maple	5	Pole/Sapling	5					

38	4130 - Aspen	Poletimber Well	22.3	51	51-80	N/A	Harvested 1973.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	5	Log	12		Balsam Fir	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	6		White Spruce	Low	Variable	Sapling
Quaking Aspen	75	Pole	6	51	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Sugar Maple	10	Pole/Sap/Log	8		Sugar Maple	Medium	Variable	Sapling
White Spruce	5	Pole/Sapling	6					

39	4130 - Aspen	Poletimber Well	50.0	27	Unspecified	N/A	Scattered Oak in overstory. Harvested 1997.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Pole/Sapling	5	27	Balsam Fir	Low	Variable	Sapling
Red Oak	5	Log/XLog	16		Black Spruce	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	5		Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub

40	4130 - Aspen	Poletimber Well	120.2	51	51-80	N/A	Harvested 1973.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	75	Pole	6	51	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Basswood	5	Log	12		White Spruce	Low	Variable	Sapling
Sugar Maple	10	Pole/Sap/Log	8		Balsam Fir	Low	Variable	Sapling
White Spruce	5	Pole/Sapling	6		Sugar Maple	Medium	Variable	Sapling
Balsam Fir	5	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
41	4130 - Aspen	Poletimber Well	67.1	27	Unspecified	N/A	Harvested 1997.																																												
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42	4130 - Aspen	Sapling Well	38.7	5	Immature	N/A	Harvested 2019.																																												
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43	4130 - Aspen	Sapling Well	125.5	15	Unspecified	N/A	Dukes Aspen cut 2009. More Red Pine in Northwest corner.																																												
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46	6122 - Black Spruce	Poletimber Well	120.0	90	51-80	N/A																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
47	4110 - Sugar Maple Association	Sawtimber Well	8.7	90	81-110	N/A	Lots of sugar maple regen. Most of it 3 to 5 feet tall. Thinned 2019.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		85	Pole/Log	10	90	Ironwood	Medium	Variable	Sapling
Basswood		5	Pole/Log	10	90	Sugar Maple	Medium	Variable	Sapling
Red Maple		10	Log/Pole/Sap	10	90				
48	4130 - Aspen	Sapling Well	13.6	5	Immature	N/A	Harvested 2019.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	1	5	Bracken Fern	Full	Unspecified	Non-Wood
49	4130 - Aspen	Sapling Well	10.3	27	Unspecified	N/A	Harvested 1997.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling/Pole	4	27	Sugar Maple	High	5 - 10 feet	Sapling
						Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
50	320 - Upland Shrub	Nonstocked	27.3		Unspecified	No			
51	4130 - Aspen	Poletimber Well	346.6	47	81-110	N/A	Lots of oak and sugar maple left along southern edge of stand when it was harvested in 1977.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		5	Pole	6		Sugar Maple	Low	10 - 20 feet	Sapling
Red Oak		5	Log/Pole	12		Red Maple	Low	10 - 20 feet	Sapling
Quaking Aspen		90	Pole	6	47	Red Oak	Low	Variable	Sapling
						Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
						Balsam Fir	Low	Variable	Sapling
52	4130 - Aspen	Sapling Well	63.0	27	Unspecified	N/A	Harvested 1997.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar		10	Sapling	3	27	Red Maple	Low	Variable	Sapling
Quaking Aspen		90	Sapling/Pole	4	27	Balsam Fir	Low	Variable	Sapling
						White Spruce	Low	Variable	Sapling
53	320 - Upland Shrub	Nonstocked	2.8		Unspecified	No			
54	3205 - Mixed Upland Shrub	Nonstocked	4.1		Unspecified	No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
55	42110 - Planted Red Pine	Sawtimber Well	53.6	70	81-110	N/A	Thinned 2019.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		5	Log/Pole/Sap	10		Quaking Aspen	
Red Pine		95	Log/Pole/Sap	10	70	White Spruce	
						Balsam Fir	
						Density	Avg. Height
						Medium	10 - 20 feet
						Low	Variable
						Low	Variable
							Size
							Sapling
							Sapling
							Sapling
56	6120 - Lowland Cedar	Sawtimber Medium	23.2	90	51-80	N/A	Schwartz creek runs through stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		5	Pole	8		Tag Alder	
Black Spruce		5	Pole	8	90		
Northern White Cedar		90	Log/Pole	12	90		
						Density	Avg. Height
						High	5 - 10 feet
							Size
							Tall Shrub
57	4110 - Sugar Maple Association	Sawtimber Well	57.5	90	81-110	N/A	Thinned 2019.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Log/Pole/Sap	10	90	Ironwood	
Sugar Maple		90	Log/Pole/Sap	10	90	Sugar Maple	
Basswood		5	Pole/Log	10	90		
						Density	Avg. Height
						Low	Variable
						Low	Variable
							Size
							Sapling
							Sapling
58	6220 - Alder/willow	Nonstocked	16.9		Unspecified	No	
59	4110 - Sugar Maple Association	Poletimber Well	134.2	90	81-110	N/A	Thinned 2019.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Log/Pole/Sap	10		Ironwood	
Basswood		10	Log/Pole	10		Sugar Maple	
Sugar Maple		80	Pole/Log/Sap	8	90		
Red Oak		5	Log/XLog/Pole	16			
						Density	Avg. Height
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						Low	Variable
							Size
							Sapling
							Sapling
60	4110 - Sugar Maple Association	Poletimber Well	5.1	90	81-110	N/A	Thinned 2019.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Log/Pole/Sap	10	90	Balsam Fir	
Sugar Maple		95	Pole/Log/Sap	8	90	Ironwood	
						Density	Avg. Height
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						Low	Variable
							Size
							Sapling
							Sapling
61	320 - Upland Shrub	Nonstocked	15.6		Unspecified	No	
62	4130 - Aspen	Sapling Medium	19.6	3	Immature	N/A	Harvested 2021. Low areas within stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		80	Sapling	1	3		
Balsam Poplar		20	Sapling	1			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
63	4130 - Aspen	Sapling Well	25.1	27	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		95	Sapling	4	27	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Balsam Fir		5	Sapling	4		Balsam Fir	Low	Variable	Sapling
						White Spruce	Low	Variable	Sapling
64	6120 - Lowland Cedar	Poletimber Well	83.7	90	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		60	Pole/Log	10	90	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Ash		5	Pole	6		Ash (spp.)	Low	Variable	Sapling
Balsam Poplar		5	Pole	8		Black Spruce	Low	Variable	Sapling
Balsam Fir		5	Pole	8					
Tamarack		5	Pole	8					
Black Spruce		20	Pole	8					
65	4110 - Sugar Maple Association	Sawtimber Well	57.7	90	81-110	N/A	Thinned 2019.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		10	Log/Pole	16		Sugar Maple	Low	Variable	Sapling
Sugar Maple		75	Log/Pole/Sap	10	90	Balsam Fir	Low	Variable	Sapling
Red Maple		5	Log/Pole/Sap	10		Ironwood	Low	Variable	Sapling
Basswood		10	Log/Pole	12					
66	4130 - Aspen	Sapling Well	12.5	5	Immature	N/A	Harvested 2019.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	1	5	Balsam Fir	Medium	Variable	Sapling
67	6111 - Lowland Balsam Poplar	Sapling Well	24.4	5	Immature	N/A	Harvested 2019.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Sapling	1		Red Maple	Low	10 - 20 feet	Sapling
Balsam Poplar		70	Sapling	1	5	Balsam Fir	Medium	Variable	Sapling
Black Ash		5	Pole	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		20	Sapling	1		Ash (spp.)	Medium	10 - 20 feet	Sapling