



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12087

Entry Year 2026

Acreage: 2,156

County Dickinson

Management Area: Cassidy Creek

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**Stand Examiner:** Jacob Siler

## Legal Description:

T41N, R28W SEC 30, 31  
T41N R29W SEC 25, 35, 36  
T40N R29W SEC 2 and 3

## Identified Planning Goals:

Maintain aspen type to achieve age class distribution on good aspen sites. Manage hardwood types for sawtimber production as well as maintaining diversity. Retain conifer component.

## Soil and topography:

Soils are mostly sandy loam and muck. Topography is made up of rolling hills to wet bottom lands. There are some rocky areas also.

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

This compartment has fairly contiguous ownership, only one private camp (40 acres within).

## 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:

## Watershed and Fisheries Considerations:

Jansen's creek runs through this compartment. Breen Creek runs along a large portion of southern boundary.

## Wildlife Habitat Considerations:

## Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. No known active sand/gravel operations exist within five miles. Granite bedrock is at or near the surface across the compartment. Potential for development of sand & gravel in the compartment is limited. In some cases, weathered granite can be a source of aggregate material, and it is mined as such in other parts of the western UP. Potential for occurrences of metallic minerals from within the compartment is considered low. Some test drilling of reported kimberlites for diamonds was completed within and just outside the compartment in the late 1980s. None of the kimberlites explored in Michigan to date have shown evidence for the presence of valuable diamond deposits. Additional mineral test wells were drilled in and around the compartment in the 1950s, but no information is currently available on what was being targeted or the results of those exploration efforts. No State-owned mineral rights in the compartment 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:

The Brown's Lake road accesses the Norway Truck Trail which is a county road that goes north and south through the compartment. There are some open roads and some bermed, that get into most areas of the compartment.

## Survey Needs:

No surveys needed

## Recreational Facilities and Opportunities:

Hunting and fishing.

**Fire Protection:**

This area is somewhat accessible for fire, with the exception of berms having to be removed. Overall the occurrence of a fire in this compartment is not impossible, but not that prevalent.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

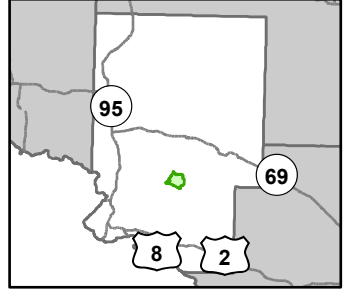
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

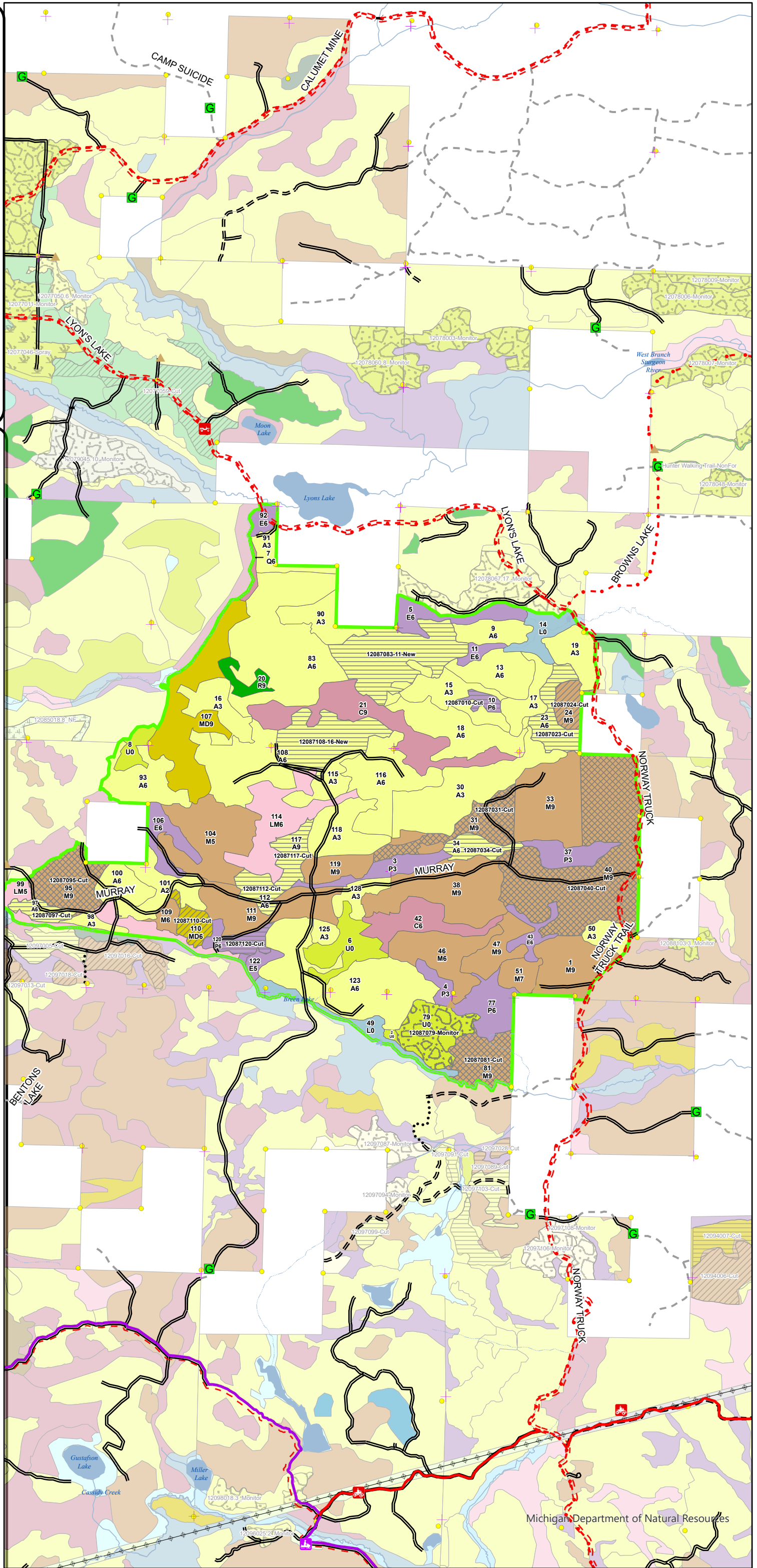
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 12087  
 T40N, R29W, Sec: 2, 3  
 County: Dickinson  
 Unit: Crystal Falls  
 Mgmt Area: Cassidy Creek  
 YOE: 2026  
 Acres: 2155.8 GIS Calculated  
 Examiner: Jacob Siler  
 Map Revised: 07/15/2024  
 Map Phase: Web-Post

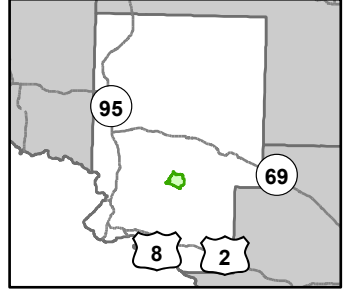


- ORV Routes
- Designated ORV Routes
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- Survey Grade Corners
- Counties
- Berms
- Gate
- Bridges
- Culvert
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- DNR - Management Access
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub

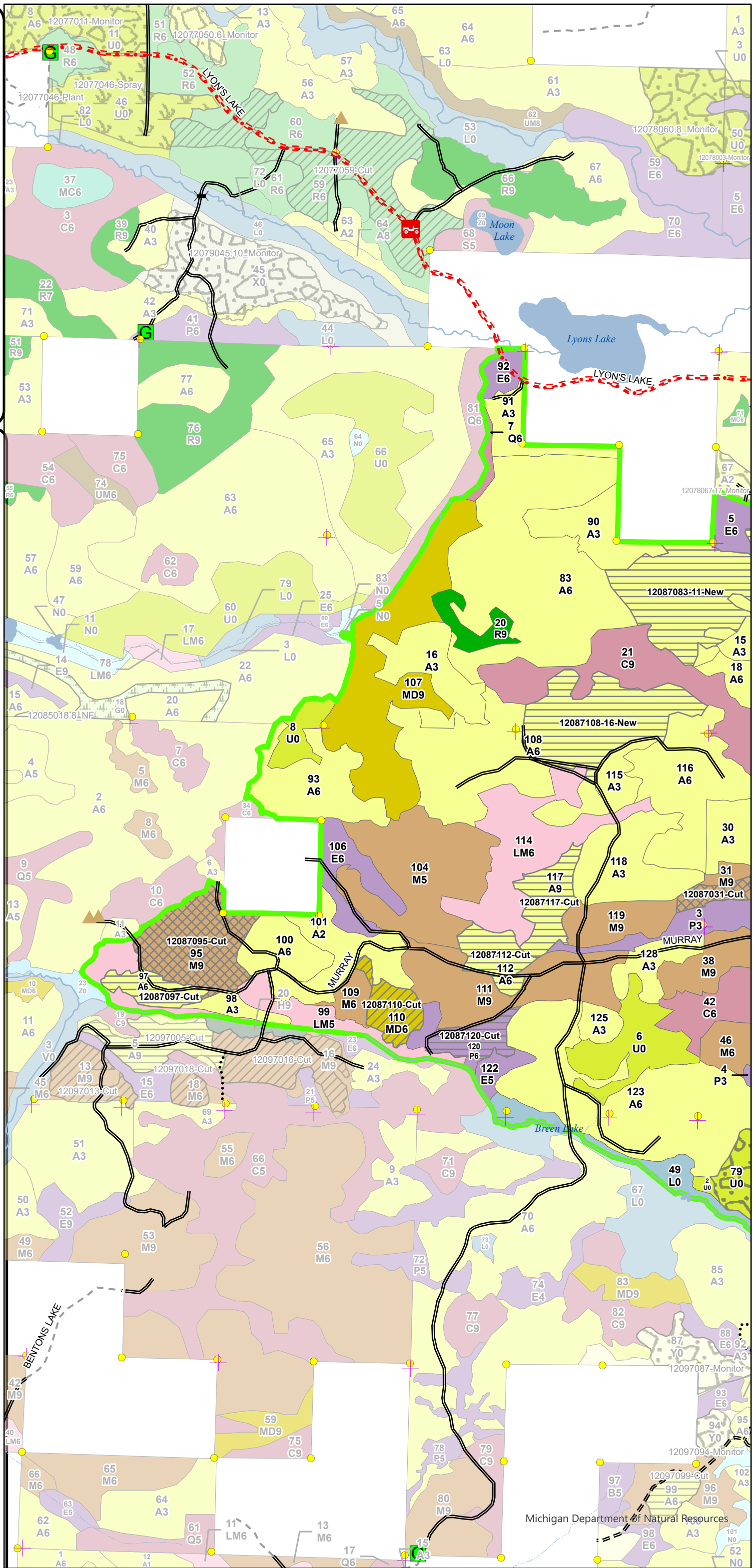


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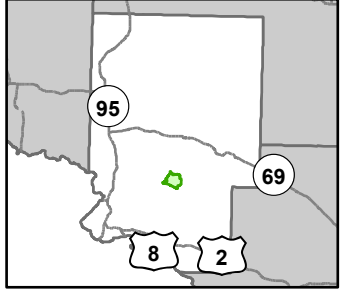


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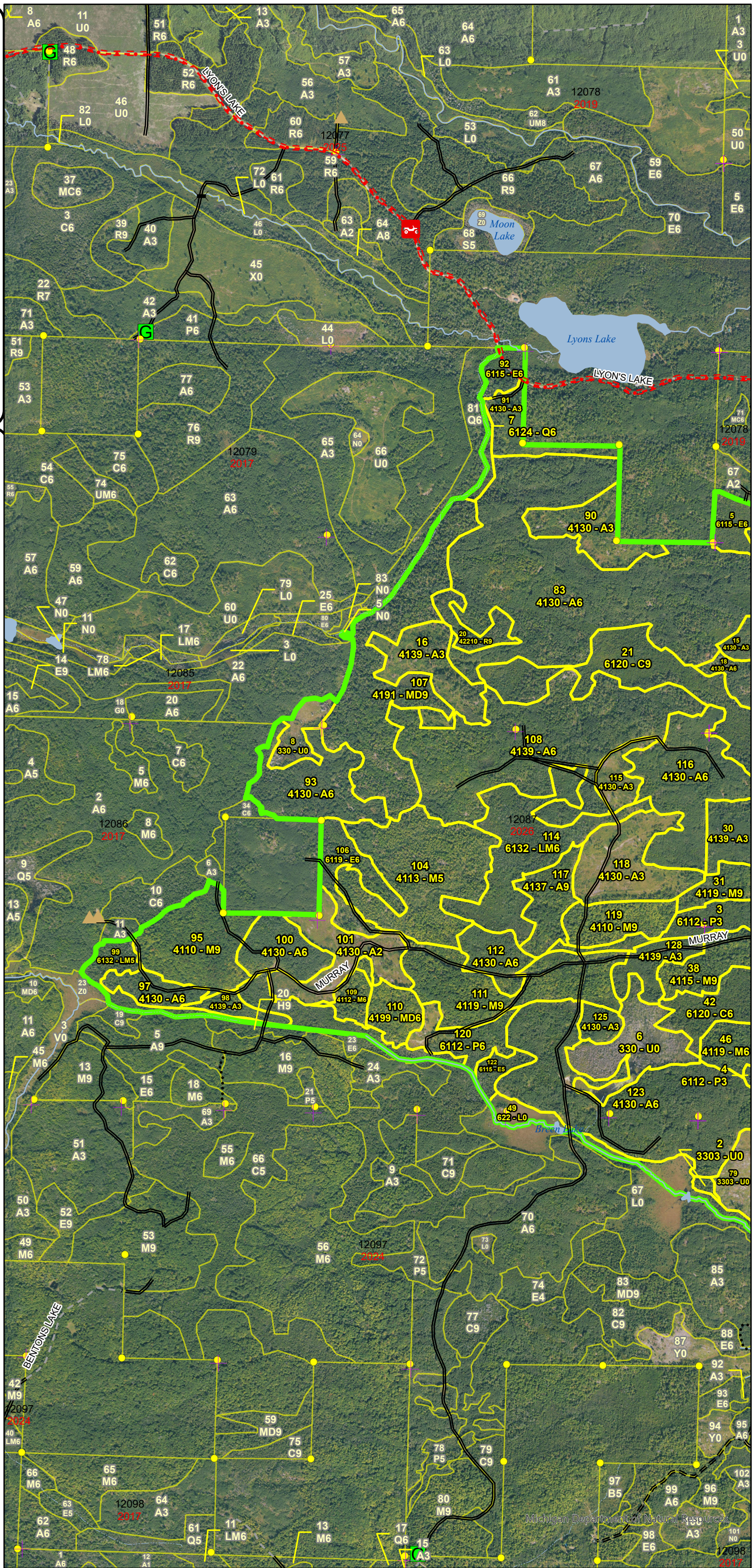


# Stand Boundary Map

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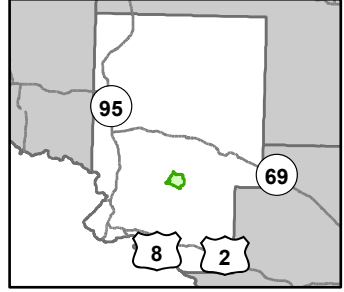


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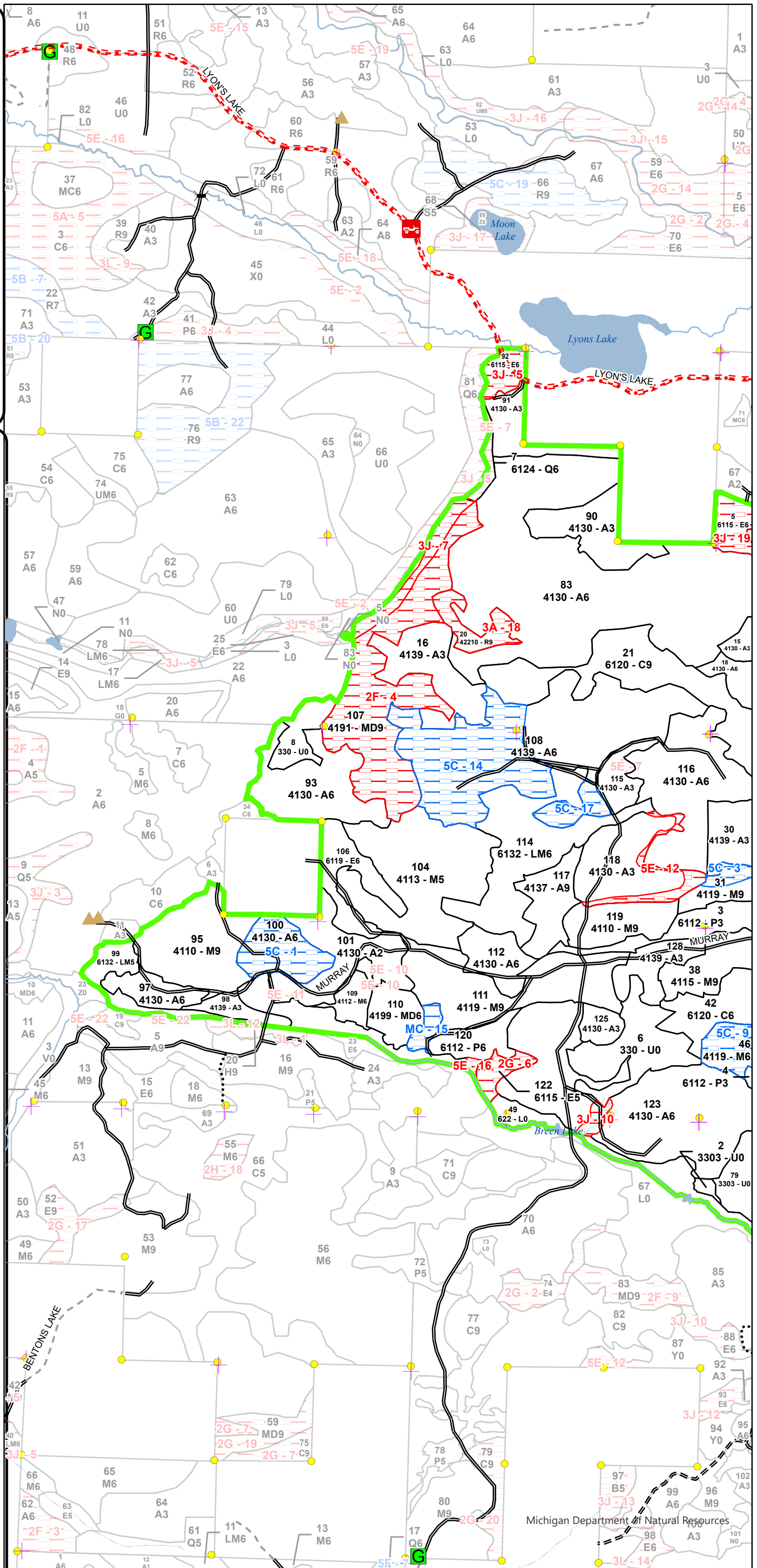


# Special Conservation Areas & Site Conditions Map

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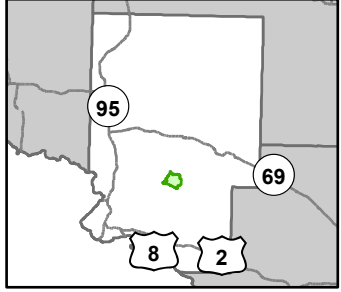


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  - Available w/ Constraints
  - Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site  
 2F: Too steep  
 2G: Too wet (sensitive soils, does not include access issues)  
 3A: Conservation Values incompatible with harvest at this time  
 3J: Water quality / BMPs (stream, river, or lake)  
 5E: Long-Term Retention
- Stand Boundaries
  - Cold Water Streams

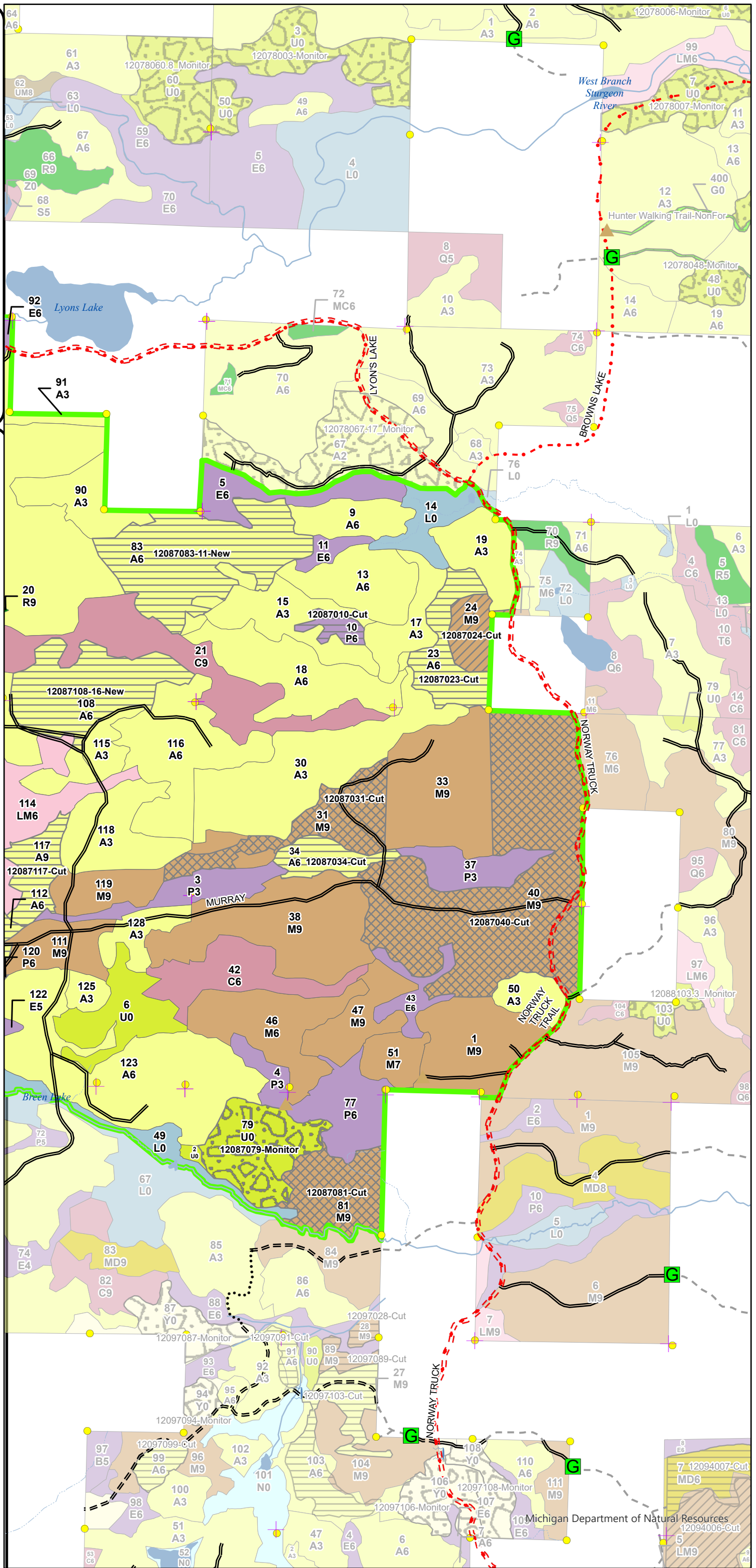


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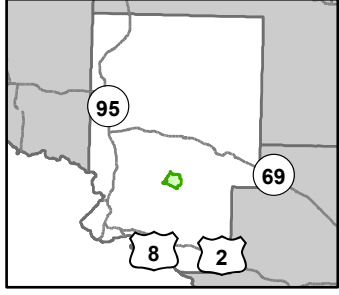


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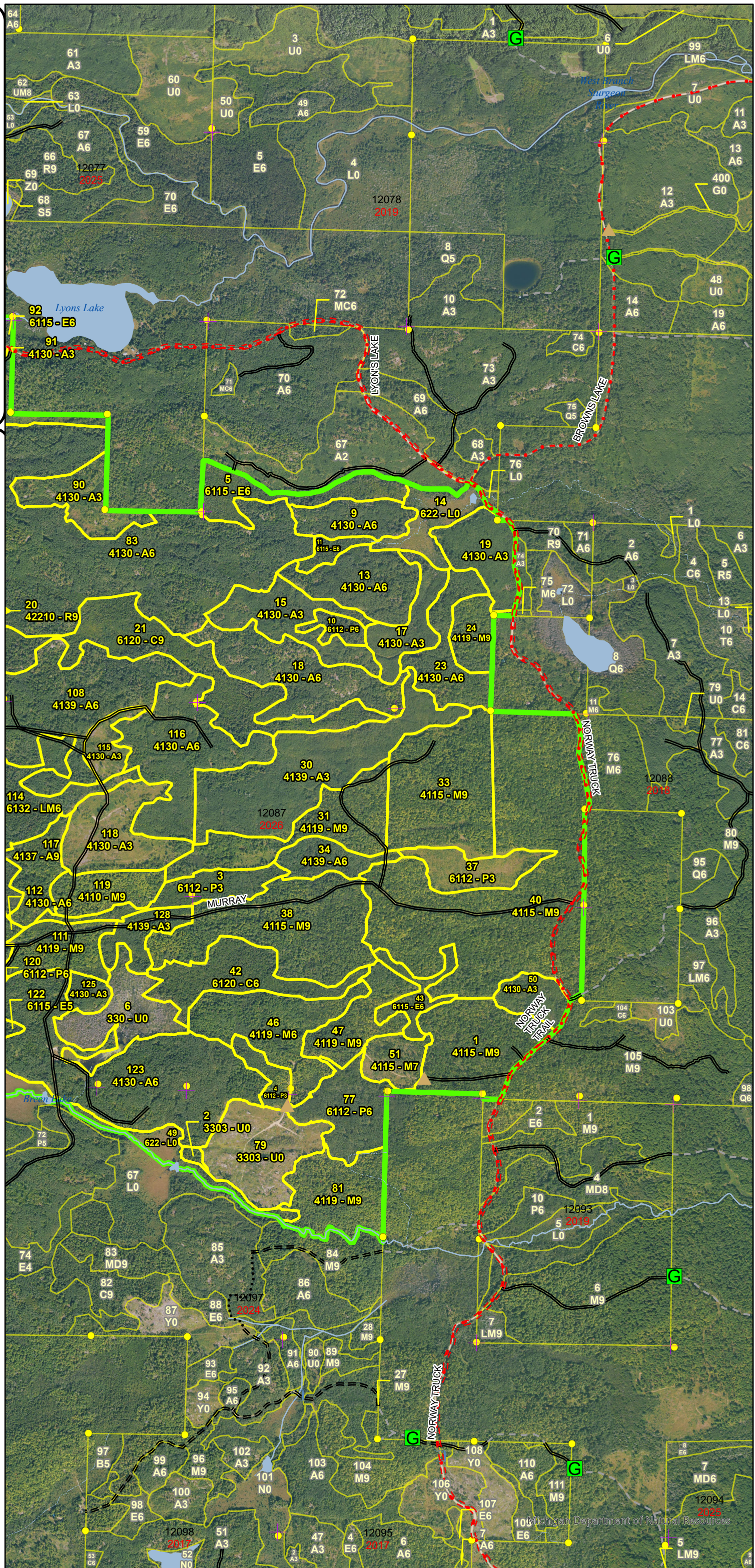


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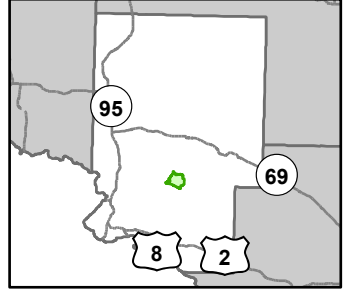
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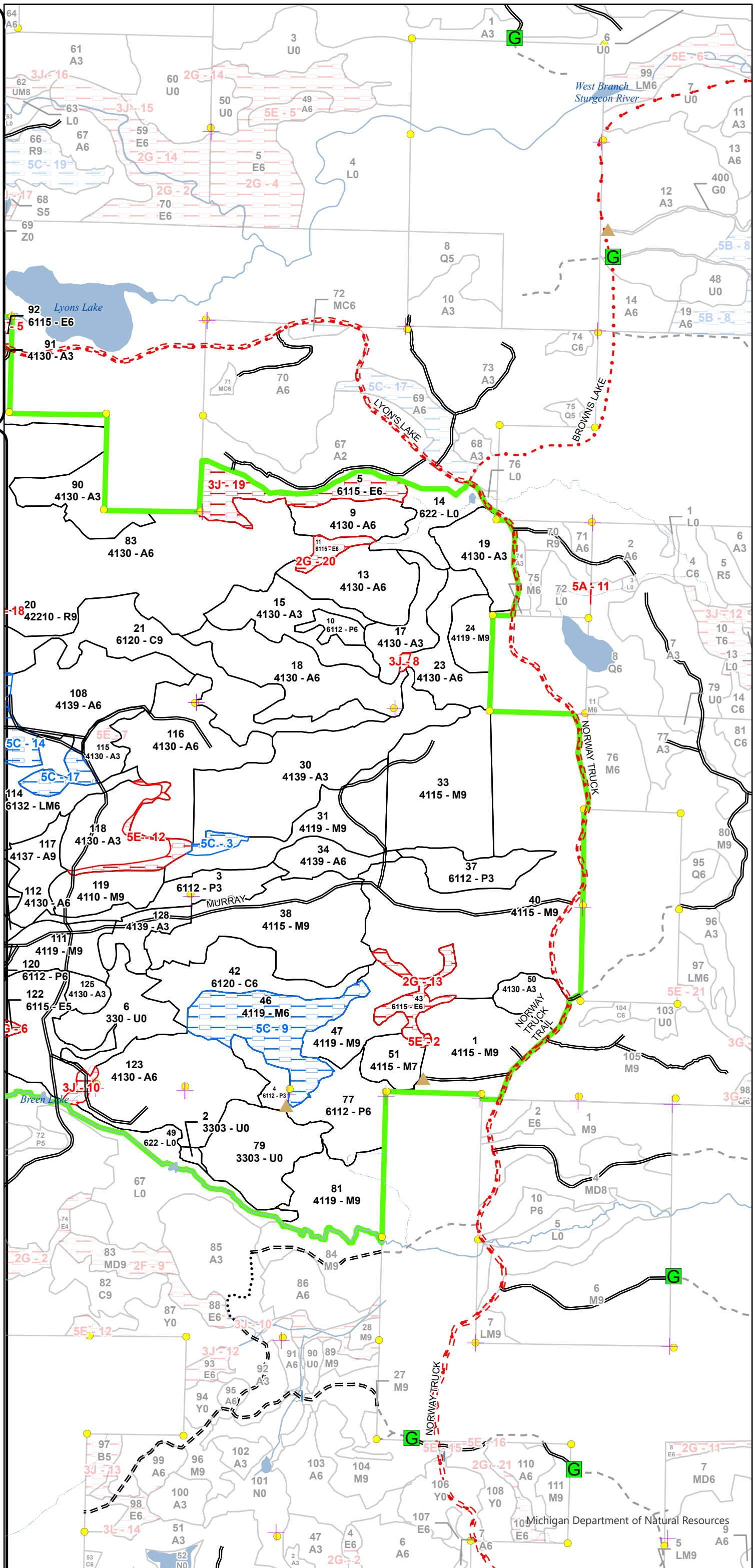


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- 5C: Delay treatment for age/size class diversity or exceptional site
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term 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	132	148	139	63	457	14	0	17	0	0	0	0	0	0	0	0	0	969
Cedar	0	0	0	0	0	0	0	0	0	0	92	0	0	0	0	0	0	0	92
Low-Density Trees	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
Lowland Aspen/Balsam Poplar	0	18	0	27	27	22	0	0	0	0	0	0	0	0	0	0	0	0	94
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
Lowland Deciduous	0	0	0	0	0	0	0	6	0	45	0	0	0	0	0	0	0	18	69
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	49	0	29	0	0	0	0	0	0	78
Lowland Shrub	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	71	13	0	0	0	0	0	0	0	0	84
Northern Hardwood	0	0	0	0	0	0	0	0	7	131	192	251	0	0	0	0	0	64	644
Red Pine	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
<b>Total</b>	<b>112</b>	<b>150</b>	<b>148</b>	<b>166</b>	<b>90</b>	<b>479</b>	<b>14</b>	<b>6</b>	<b>95</b>	<b>247</b>	<b>284</b>	<b>280</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>82</b>	<b>2154</b>



## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2026

Acres of Harvest

Compartment 87  
Total Compartment Acres: 2,156

Commercial Harvest - 493  
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	194	0	0	0	0	0	0	0	0	194
Lowland Aspen/Balsam Poplar	17	0	0	0	0	0	0	0	0	17
Mixed Upland Deciduous	0	0	0	0	13	0	0	0	0	13
Northern Hardwood	0	256	0	0	13	0	0	0	0	270
<b>Total</b>	<b>211</b>	<b>256</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>493</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	493	0	0	0	0	37	0	0	0	530
Next Step	0	0	0	0	0	468	0	0	0	468
<b>Total</b>	<b>493</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>504</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>998</b>



Stand Name	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:**

<b>10</b>	<b>12087010-Cut</b>	5.9	6112 - Lowland Aspen	Poletimber Well	49	81-110	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 4 inches and greater at DBH. Do not cut pine, cedar, oak, cherry and hemlock, if found. Green tree one large spruce/fir per acre of treatment. Winter cut only.</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> Aspan, balsam poplar, ash, spruce, fir, and maple</p> <p><u>Other Comment:</u> Possibly red line out alder area if found to be too wet. No retention.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

<b>23</b>	<b>12087023-Cut</b>	23.5	4130 - Aspen	Poletimber Well	49	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 4 inches and great at DBH. Do not cut spruce, fir, pine, cedar, oak, hemlock and yellow birch.</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, spruce, fir, maple, balsam poplar, pine</p> <p><u>Other Comment:</u> Buffer creek on west side of stand 100'</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

<b>24</b>	<b>12087024-Cut</b>	13.2	4119 - Mixed Northern Hardwoods	Sawtimber Well	96	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to a residual basal area of 70 to 90sqft. Green tree 3 residual large aspen, harvest the remainder. Do not mark spruce, fir, pine, oak and hemlock. Leave all species represented.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other 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
<b>31 12087031-Cut</b>	32.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	101	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Even-Aged	No
<p><u>Prescription</u> Thin to basal area of 70-90sqft. Open up regeneration gaps 50 to 85 feet in radius to the bole of trees on the gap edge. 10 to 20% of the treatment area is to be composed of regeneration gaps. Concentrate on removing ash.</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> Mixed Northern hardwoods</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>34 12087034-Cut</b>	13.5	4139 - Aspen, Mixed Deciduous	Poletimber Well	53	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 4 inches and greater at DBH. Red line out 1/2-acre retention area with spruce fir understory. Green tree 1 paper birch per acre where available. Do not cut cedar, hemlock, oak and pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, spruce, fir, maple, balsam poplar, ash, red maple</p> <p><u>Other Comment:</u> Winter cut</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>40 12087040-Cut</b>	155.0	4115 - Y.Birch, Hemlock NH	Sawtimber Well	101	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Even-Aged	No
<p><u>Prescription</u> Thin to basal area of 70-90sqft. Mark all ash for harvest, leaving a few healthy potentially EAB resistant trees. Leave all species represented. Do not mark pine, hemlock, cedar and beech. Do not thin below a basal area 70sqft within 100ft of streams.</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> northern hardwoods</p> <p><u>Other Comment:</u> Small area on the NE side of stand may be excluded due to lower basal area and higher amount of saplings; area just north of woods road north of stand 37. Implement BMPs when working around streams. Use ash areas as regeneration gaps when possible. Condition of ash should be evaluated at time of marking. If viable dead ash should also be removed. Look at cruising all ash as misc spec.</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
<b>79 12087079-Monitor</b>	36.5	3303 - Mixed Low Density Trees	Nonstocked	0		Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Monitor</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, maple, birch, spruce, fir, ash, cherry and pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Needs more time for regen check. Cut in 2020 and should be checked again next YOE.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2035</p>										
<b>81 12087081-Cut</b>	31.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	89	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
<p><u>Prescription</u> Thin to basal area of 70-90sqft. Open up regeneration gaps 50 to 100 feet in radius to the bole of trees on the gap edge. 10 to 20% of the treatment area is to be composed of regeneration gaps. Mark all ash for harvest, leaving a few healthy potentially EAB resistant trees. Leave all species represented. Do not mark pine, hemlock, cedar, beech. Do not mark conifer unless needed for access. Do not thin below a basal area 70sqft within 100ft of Breen Creek.</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> northern hardwoods associates</p> <p><u>Regen:</u></p> <p><u>Other</u> North side of stand has lower basal area that may drop below target when ash is removed. Area north of north stream may need to be excluded.</p> <p><u>Comment:</u> Breen creek to the south. Use corner to the east to run north/south blue line.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
<b>83 12087083-11-New</b>	68.3	4130 - Aspen	Poletimber Well	47	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 4 inches and greater at DBH. Do not cut sub-merchantable spruce and fir. Do not cut pine, cedar, hemlock, and oak. Green tree</p> <p><u>Specs:</u> 1 maple, birch or ironwood per cruise plot where available. Exclude measurable inaccessible areas and areas that are primarily pole/log sized black ash.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, maple, spruce, fir, birch, balsam poplar, ash, pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Lots of rock and a few wet black ash areas. A decent amount of merchantable conifer will be left in inaccessible areas.</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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<b>95</b>	<b>12087095-Cut</b>	36.8	4110 - Sugar Maple Association	Sawtimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
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Prescription Thin to basal area of 70-90sqft. Open up regeneration gaps 50 to 85 feet in radius to the bole of trees on the gap edge. 10 to 20% of the treatment area is to be composed of regeneration gaps. Concentrate on removing ash. Do not cut oak. Do not mark conifer unless needed for access. Leave all species represented.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwood

Regen:

Other Try to leave yellow birch when possible.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

<b>97</b>	<b>12087097-Cut</b>	10.7	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Two-Aged	No
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Prescription Cut all trees 4 inches or more at DBH. Do not cut pine, cedar, oak, balsam fir, and hemlock if found.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, spruce, pine, aspen, balsam poplar

Regen:

Other The goal is to keep as much of the sub-merchantable maple as possible. No retention.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

<b>108</b>	<b>12087108-16-New</b>	47.4	4139 - Aspen, Mixed Deciduous	Poletimber Well	47	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees 2 inches and greater at DBH. Do not cut pine, cedar, oak, and hemlock if found. Green tree 1 pole/log paper birch or spruce/fir per cruise plot where available. Winter cut only.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, balsam poplar, spruce, fir, pine, oak, maple

Regen:

Other Harvest should be 40 to 50 acres in size. Any significant cedar pockets can be red lined out for additional protection.

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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110	12087110-Cut	12.6	4199 - Other Mixed Upland Deciduous	Poletimber Well	89	111-140	Harvest	Crown Thinning	4116 - Mixed N. Hardwood - Aspen	Even-Aged	No
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Prescription Thin stand to a basal area of 50 to 70sqft. Leave all species represented. Do not cut oak.

Specs:

Next Step

Treatments:

Acceptable aspen and northern hardwoods

Regen:

Other We want to keep this from being an aspen stand.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

112	12087112-Cut	13.8	4130 - Aspen	Poletimber Well	49	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees 4 inches and great at DBH. Do not cut cedar, hemlock, pine, spruce and fir. Green tree 1 birch or maple per cruise plot.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, ash, balsam poplar, spruce, fir, maple

Regen:

Other Recommend winter cut. Retention should be along drainage between stand 117 and 112.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

117	12087117-Cut	17.2	4137 - Aspen, Birch	Sawtimber Well	79	81-110	Harvest	Clearcut with Retention	4137 - Aspen, Birch	Even-Aged	No
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Prescription Cut all trees 4 inches and great at DBH. Do not cut cedar, hemlock, pine, spruce and fir. Green tree 1 birch or maple per cruise plot.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, birch, red maple, spruce, fir, balsam poplar.

Regen:

Other Recommend winter cut. Retention should be along drainage between stand 117 and 112.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

120	12087120-Cut	10.9	6112 - Lowland Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Cut all trees 4 inches and great at DBH. Do not cut cedar, hemlock, oak and pine. Exclude small area on south side of stand with thick spruce/fir understory. Winter harvest only.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, balsam poplar, ash, maple. spruce, fir

Regen:

Other Retention on south side of stand with excluded spruce/fir area.

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: 529.9

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Jacob Siler : Examiner

Compartment: 87

Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
2,156	1,881	125	150
	87%	6%	7%

### Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions							
					5C	MC	2F	2G	3A	3J	5E	
970	878	78	14		Aspen	78					3	11
92	92	0	0		Cedar							
76	76	0	0		Low-Density Trees							
93	88	4	1		Lowland Aspen/Balsam Poplar		4					1
3	0	0	3		Lowland Conifers						3	
69	18	0	52		Lowland Deciduous				22		30	0
77	77	0	0		Lowland Mixed Forest							
36	36	0	0		Lowland Shrub	0						
84	14	0	70		Mixed Upland Deciduous			61			8	
645	601	43	1		Northern Hardwood	43						1
9	0	0	9		Red Pine					9		
2,156	1,881	125	150		Total Forested Acres	121	4	61	22	9	45	12
	87%	6%	7%		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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Delay. Nice hardwood regeneration under aspen. Hold for now. Also hold for age/size diversity with adjacent stand.							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention in stand 51 for Comp 87 S&E timber sale #12-073-15.							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Jacob Siler : Examiner

Compartment: 87

Year of Entry: 2026

3	<b>Available</b>	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This area has lower basal area and lots of sugar maple saplings. Harvesting in this area should be delayed to protect regeneration.							
4	<b>Unavailable</b>	2F: Too steep	61	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Creek buffer							
6	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	9	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer for Whiskey Creek							
8	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stream buffer							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Jacob Siler : Examiner

Compartment: 87

Year of Entry: 2026

9	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	39	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stream below beaver dam							
11	<b>Unavailable</b>	<b>5A: Not able to obtain desirable regeneration</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	7	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
<b>Comments:</b> NE site conditions is part of stand 37. The south site condition is a lower drainage that will be left for long term retention.							
13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	53	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Jacob Siler : Examiner

Compartment: 87

Year of Entry: 2026

15	Available	Minor Change in Acreage	4	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Small young clear cut that is too small to be its own stand. Will be merged with Stand 120 after it's cut.</p>							
16	Unavailable	5E: Long-Term Retention	1	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Excluded area for retention and wildlife cover.</p>							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p>							
18	Unavailable	3A: Conservation Values incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> This has virtually no soil or very little. If thinned, this stand will probably be more susceptible to blowdown. At this point in time, I believe it's best to leave this as is.</p>							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	22	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Stream</p>							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b></p>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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### 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	4115 - Y.Birch, Hemlock NH	Sawtimber Well	41.3	96	51-80	N/A	Cut in 2019 under Comp 87 S&E timber sale 12-073-15. Trace amount of oak, white spruce and cedar. Pockets of black ash. Both white and black ash dying.																																																																						
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2	3303 - Mixed Low Density Trees	Nonstocked	1.5	0		No	Part of Camp Breen Sale cut 2020. Lots of different species. Some scattered larger trees on rocky areas. One 2-acre pocket of 6-inch black spruce in middle of stand. Lots of raspberry. Needs more time to for regen check. Heavy deer browse on sprouts.																																																																						
3	6112 - Lowland Aspen	Sapling Well	18.6	23	Immature	N/A	OPIC - FMD: cut in 2001 as Tadpole Gumbo sale #008-01-01. Trace hemlock. This is a low stand that was partially cut; black ash area on west side of the stand was left and lowland aspen/bam area cut. The black ash area isn't large enough to be it's own stand but is part of the same drainage.																																																																						
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4	6112 - Lowland Aspen	Sapling Well	7.9	24	Immature	N/A	Wetter soils present.																																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>5</b>	6115 - Lowland Ash	Poletimber Well	22.3	86	51-80	N/A	Creek runs through stand.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		2	Pole/Log	9		Balsam Fir	
Balsam Poplar		2	Log	12		Low	
Paper Birch		2	Pole/Log	9		< 5 feet	
Northern White Cedar		15	Log/Pole	10		Sapling	
Black Spruce		2	Pole	6		Black Spruce	
Quaking Aspen		5	Log	12		Low	
Balsam Fir		2	Pole	6		< 5 feet	
Black Ash		70	Pole/Sapling	6	86	Tall Shrub	
						Black Ash	
						Medium	
						Variable	
						Sapling	
						Northern White Cedar	
						Trace	
						Variable	
						Sapling	

<b>6</b>	330 - Low-Density Trees	Nonstocked	28.4	0	Unspecified	No	This was part of stand 42 to the east. However, beaver activity has flooded out this area and caused heavy mortality. This area is mostly dead trees.
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<b>7</b>	6124 - Lowland Spruce-Fir	Poletimber Well	3.3	110	Unspecified	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Balsam Poplar		20	Pole/Log	10	110	White Spruce	
Paper Birch		20	Pole/Log	10	110	Low	
Balsam Fir		30	Pole/Log	10	110	Variable	
White Spruce		30	Pole/Log	10	110	Sapling	
						Balsam Fir	
						Low	
						Variable	
						Sapling	

<b>8</b>	330 - Low-Density Trees	Nonstocked	10.0	0		No	This was cut under the Last Road Sale (12-08-87) and finished in 1990. Beavers seriously altered stand 93 with the almost 1/3 of stand being converted into beaver cutting/opening. Stand 8 was originally part of stand 93.
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<b>9</b>	4130 - Aspen	Poletimber Well	17.6	27	Immature	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		2	Log/Pole	10		White Spruce	
Quaking Aspen		48	Pole/Sapling	5	27	Low	
Balsam Fir		5	Sapling/Pole	4		< 5 feet	
White Spruce		5	Pole/Sapling	5		Sapling	
Bigtooth Aspen		40	Pole/Sapling	5		Balsam Fir	
						Low	
						< 5 feet	
						Sapling	

<b>10</b>	6112 - Lowland Aspen	Poletimber Well	5.9	49	81-110	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Balsam Fir		10	Pole	6		Tag Alder	
Black Ash		5	Pole	8		Low	
Quaking Aspen		65	Pole	9	49	5 - 10 feet	
Balsam Poplar		20	Pole/Log	9		Tall Shrub	
						Black Ash	
						Trace	
						Variable	
						Sapling	
						Balsam Fir	
						Low	
						Variable	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>11</b>	6115 - Lowland Ash	Poletimber Well	5.3	86	81-110	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		2	Log	13		Tag Alder	
Balsam Poplar		5	Log/Pole	13		Black Spruce	
Black Ash		73	Pole	8	86	Balsam Fir	
Northern White Cedar		10	Log/Pole	12			
Paper Birch		5	Log	12			
Balsam Fir		5	Pole	6			
						<b>Density</b>	<b>Avg. Height</b>
						Medium	Variable
						Low	Variable
						Low	Variable
							<b>Size</b>
							Tall Shrub
							Sapling
							Sapling

<b>13</b>	4130 - Aspen	Poletimber Well	29.3	37	81-110	N/A	Trace large white pine and maple
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Balsam Poplar		10	Pole	6		Tag Alder	
Red Pine		1	Pole	6		Balsam Fir	
Quaking Aspen		82	Pole/Sapling	6	37		
Balsam Fir		5	Pole/Sapling	5			
White Spruce		2	Pole/Sapling	5			
						<b>Density</b>	<b>Avg. Height</b>
						Low	5 - 10 feet
						Medium	Variable
							<b>Size</b>
							Tall Shrub
							Sapling

<b>14</b>	622 - Lowland Shrub	Nonstocked	17.4			No	
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<b>15</b>	4130 - Aspen	Sapling Well	28.6	16	Immature	N/A	Trace oak, red and white pine
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Paper Birch		2	Sapling	2		Tag Alder	
White Spruce		5	Sapling	2		White Pine	
Red Maple		5	Sapling/Pole	3		Balsam Fir	
Quaking Aspen		82	Sapling/Pole	3	16	Red Pine	
Ironwood		1	Sapling	2			
Balsam Fir		5	Sapling/Pole	4			
						<b>Density</b>	<b>Avg. Height</b>
						Trace	5 - 10 feet
						Trace	Variable
						Low	Variable
						Trace	Variable
							<b>Size</b>
							Tall Shrub
							Sapling
							Sapling

<b>16</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	25.5	8	Immature	N/A	Cut in 2017 Comp 85 Contract. Trace amount of cedar and birch.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Balsam Fir		5	Sapling/Pole	2		Tag Alder	
Black Ash		2	Sapling	2			
Quaking Aspen		58	Sapling	1	8		
Red Pine		10	Log	12			
Balsam Poplar		25	Sapling	1			
						<b>Density</b>	<b>Avg. Height</b>
						Low	5 - 10 feet
							<b>Size</b>
							Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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17 4130 - Aspen Sapling Well 17.9 16 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	73	Sapling	3	16	Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Poplar	20	Sapling	3		White Spruce	Low	Variable	Sapling
Balsam Fir	5	Sapling/Pole	4		Red Pine	Trace	Variable	Sapling
White Spruce	2	Sapling/Pole	4		Balsam Fir	Low	Variable	Sapling
					White Pine	Trace	Variable	Sapling
					Jack Pine	Trace	Variable	Sapling

18 4130 - Aspen Poletimber Well 43.6 24 Immature N/A Rocky. Trace cedar and red pine and white pine in canopy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole/Sapling	6		Paper Birch	Trace	Variable	Sapling
Red Maple	5	Pole/Sapling	6		Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub
White Spruce	5	Pole	6		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	79	Pole/Sapling	6	24	Black Cherry	Trace	Variable	Sapling
Ironwood	1	Sapling/Pole	3		White Pine	Low	Variable	Sapling
					White Spruce	Low	Variable	Sapling
					Red Maple	Low	Variable	Sapling

19 4130 - Aspen Sapling Well 22.2 17 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	20	Sapling	3	
White Spruce	5	Sapling/Pole	4	
Balsam Fir	5	Pole/Sapling	5	
Jack Pine	2	Pole	6	
White Pine	2	Log/Pole	10	
Red Pine	2	Log/Pole	10	
Quaking Aspen	64	Sapling	3	17

20 42210 - Natural Red Pine Sawtimber Well 9.4 86 141-170 N/A Cored at 85. Some evidence of prior harvest long ago. Stand is up on a rock but accessible.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	8	46	Northern White Cedar	Low	>20 feet	Pole
Quaking Aspen	5	Log	12	46	Balsam Fir	Low	< 5 feet	Sapling
Red Pine	93	Log/Pole	12	86	White Spruce	Low	< 5 feet	Sapling

21 6120 - Lowland Cedar Sawtimber Well 61.6 90 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole/Sapling	5		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	68	Log	12	90	Balsam Fir	Low	Variable	Sapling
Black Ash	17	Pole/Sapling	6		Northern White Cedar	Trace	< 5 feet	Seeding
Black Spruce	10	Pole	6		Black Ash	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>23</b>	4130 - Aspen	Poletimber Well	24.2	49	111-140	N/A	Trace amount of oak.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	2	Pole	9	
Yellow Birch	3	Log/Pole	10	
Quaking Aspen	87	Pole	9	49
Sugar Maple	3	Log/Pole	10	
Red Maple	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
White Spruce	Low	Variable	Sapling
Balsam Fir	Low	>20 feet	Pole

<b>24</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	13.2	96	111-140	N/A	cut all aspen thin to 70
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Log/Pole	11	
Quaking Aspen	10	Log	13	
Basswood	1	Log	12	
Yellow Birch	1	Pole/Log	9	
Red Oak	5	Log/Pole	10	
Sugar Maple	40	Log/Pole	10	96
Red Maple	32	Log/Pole	11	
Red Oak	1	Log	11	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	Variable	Sapling
Ironwood	Low	>20 feet	Pole
Leatherwood	Medium	< 5 feet	Tall Shrub
Balsam Fir	Trace	Variable	Sapling

<b>30</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	67.9	15	Immature	N/A	Rock outcrop Cedar & hemlock patch on north west side.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	5	Log/XLog	15	
Paper Birch	2	Sapling/Pole	3	
Hemlock	3	Log/XLog	15	
Black Ash	2	Pole	6	
Red Oak	3	Log/Pole	10	
Balsam Poplar	30	Sapling/Pole	4	
Quaking Aspen	55	Sapling/Pole	4	15

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling

<b>31</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	38.9	101	111-140	N/A	This stand contains an open area on the west side that was cut in 2016, under Comp 87 West timber sale 12-067-15, and failed to regenerate (as of now). It's only 2 acres in size and has some scattered dying birch and some small spruce, ironwood, birch and red pine. Northwest corner has thick sugar maple regen and a lower basal area and should be excluded from harvest for now. Far west side has decent patch of sugar maple and a poor-quality patch of red maple. This stand also contains some small black ash low areas.
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Canopy Species	% Cover	Size Class	DBH	Age
White Ash	2	Log/Pole	10	
Red Maple	41	Log/Pole	12	101
Yellow Birch	5	Log/Pole	10	
Basswood	17	Log	14	
Paper Birch	10	Pole/Log	9	
White Ash	5	Pole/Log	9	
Black Ash	5	Pole	6	
Sugar Maple	14	Log/Pole	11	
Hemlock	1	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	Sapling
Sugar Maple	Low	>20 feet	Pole
Red Maple	Low	< 5 feet	Seeding
Red Oak	Low	< 5 feet	Seeding
Ironwood	Low	>20 feet	Pole
Ironwood	Medium	Variable	Sapling
Sugar Maple	Low	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**33**      4115 - Y.Birch, Hemlock NH      Sawtimber Well      57.4      101      81-110      N/A      Cut in 2016 under Comp 87 West timber sale 12-067-15.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	28	Log/Pole	10		White Ash	Low	Variable	Sapling
Red Oak	8	XLog/Log	20		Wild Red Raspberry	Low	< 5 feet	Tall Shrub
Basswood	14	Log/XLog	15		Ironwood	Low	5 - 10 feet	Sapling
Hemlock	5	Log	12		Leatherwood	Medium	5 - 10 feet	Tall Shrub
Black Ash	2	Pole/Log	8		White Spruce	Low	Variable	Sapling
White Ash	10	Log/XLog	15		Sugar Maple	Low	Variable	Sapling
Sugar Maple	28	Log/Pole	10	101	Ironwood	Low	>20 feet	Pole
Red Maple	5	Log/Pole	10		Red Oak	Trace	< 5 feet	Seeding
					Beech	Trace	Variable	Sapling
					Balsam Fir	Low	Variable	Sapling

**34**      4139 - Aspen, Mixed Deciduous      Poletimber Well      13.5      53      111-140      N/A      Trace hemlock and yellow birch.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	25	Pole	9		Black Ash	Low	Variable	Sapling
Black Ash	10	Pole	8		Red Oak	Trace	< 5 feet	Seeding
Paper Birch	2	Pole	8		Balsam Poplar	Low	5 - 10 feet	Sapling
Sugar Maple	2	Pole	8		White Ash	Low	Variable	Sapling
Red Maple	2	Pole	8		Ironwood	Low	Variable	Sapling
Northern White Cedar	2	Log/Pole	11		Red Maple	Low	< 5 feet	Seeding
Quaking Aspen	56	Pole	9	53	Sugar Maple	Low	< 5 feet	Seeding
Basswood	1	Pole	8		Sugar Maple	Low	Variable	Sapling
					Balsam Fir	Medium	Variable	Pole
					Balsam Fir	Medium	Variable	Sapling
					Red Maple	High	Variable	Sapling

**37**      6112 - Lowland Aspen      Sapling Well      17.9      8      Immature      N/A      Trace amount of residue hemlock and cedar. Red oak seedlings on edge. Cut in 2016 under Comp 87 West timber sale 12-067-15.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	20	Sapling	1		Red Oak	Low	< 5 feet	Sapling
Red Maple	2	Sapling	1		Sugar Maple	Trace	< 5 feet	Seeding
Black Ash	2	Sapling	1					
Quaking Aspen	74	Sapling	1	8				
Balsam Fir	2	Sapling/Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>38</b>	4115 - Y.Birch, Hemlock NH	Sawtimber Well	65.3	95	81-110	N/A	This was 4 different hardwood stands previously. The majority of the stand was cut in 2016 under Comp 87 West timber sale 12-067-15. The far east side was cut under Minnow Tar Hardwoods Sale 10-2-11. The center of the stand had the aspen cut out of it in 1999 under the Hydra Bite timber sale.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		2	Log/Pole	11		White Ash		Medium	Variable	Sapling	
Black Ash		5	Pole	8		Sugar Maple		Medium	>20 feet	Pole	
Red Maple		15	Log/Pole	10		Sugar Maple		Low	Variable	Sapling	
Basswood		12	Log	15		Aspen (spp.)		Low	Variable	Sapling	
Hemlock		3	Log/Pole	10		Red Maple		Low	< 5 feet	Seeding	
Red Oak		3	XLog/Log	20		Ironwood		High	Variable	Sapling	
Sugar Maple		30	Log/Pole	10	95	Balsam Fir		Low	Variable	Sapling	
White Ash		5	Log/XLog	15							
Yellow Birch		25	Log	10							

<b>40</b>	4115 - Y.Birch, Hemlock NH	Sawtimber Well	155.0	101	111-140	N/A	Cut with Line Drive Timber Sale 2006 to 2009. Trace oak. White ash dying. White ash sapling healthy. Trace cedar, beach, bam and aspen. Very heavy sedge in areas.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		18	Log/Pole	12		Balsam Fir		Low	Variable	Sapling	
Paper Birch		2	Pole	8		White Ash		Medium	Variable	Sapling	
Yellow Birch		15	Log/Pole	12		White Spruce		Low	Variable	Sapling	
Quaking Aspen		2	Pole/Log	8		Sugar Maple		Medium	>20 feet	Pole	
Basswood		24	Log/XLog	15	101	Sugar Maple		Low	Variable	Sapling	
Balsam Poplar		2	Pole	8		Beech		Trace	Variable	Sapling	
White Ash		12	Log/XLog	15		Ironwood		High	Variable	Sapling	
Red Oak		6	XLog/Log	20		Leatherwood		Medium	5 - 10 feet	Tall Shrub	
Hemlock		5	Log/XLog	15		Ironwood		Low	>20 feet	Pole	
Red Maple		9	Log/Pole	12		Red Oak		Trace	< 5 feet	Seeding	
Black Ash		5	Pole	8							

<b>42</b>	6120 - Lowland Cedar	Poletimber Well	30.8	91	141-170	N/A	Trace amount of birch.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		70	Log/Pole	11	91	Black Ash		Low	Variable	Sapling	
Balsam Poplar		5	Pole	6		Black Spruce		Low	Variable	Sapling	
Black Spruce		5	Pole	6		Balsam Fir		Low	Variable	Sapling	
Black Ash		20	Pole	7		Tag Alder		Low	5 - 10 feet	Tall Shrub	

<b>43</b>	6115 - Lowland Ash	Poletimber Well	10.8	88	141-170	N/A	Ash swale. Few scattered maple, basswood and yellow birch. Ash in poor shape.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		10	Log/Pole	10		Balsam Fir		Low	5 - 10 feet	Sapling	
Balsam Poplar		10	Log/Pole	10							
Black Ash		80	Pole	6	88						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>46</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	39.4	89	111-140	N/A	This stand has 3 slightly different hardwood areas separated by an ash drain. Patchy regenerating aspen areas scattered. South hardwood area has more red maple. Last time they entered this stand they cut out the aspen.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Hemlock		10	Log/XLog	15		Ironwood		Medium	Variable	Sapling	
White Spruce		1	Pole	6		White Ash		Low	Variable	Sapling	
Black Ash		20	Pole	8		Black Ash		Low	Variable	Sapling	
Sugar Maple		35	Pole/Log	8	89	Red Maple		Low	Variable	Sapling	
Ironwood		2	Pole	8		Sugar Maple		Low	Variable	Sapling	
Paper Birch		2	Pole/Log	9		Quaking Aspen		Medium	>20 feet	Sapling	
Yellow Birch		2	Pole/Log	8							
Red Maple		25	Log/Pole	10							
Balsam Fir		1	Pole	6							
Northern White Cedar		2	Pole	8							

<b>47</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	21.9	96	51-80	N/A	Cut in 2018 under Comp 87 S&E timber sale 12-073-15. Diverse stand in species, size and quality. Center of the stand is highest quality and largest diameter area. One low and narrow ash swale.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		2	Log/XLog	14		Balsam Fir		Low	Variable	Sapling	
White Ash		3	Log	11		Sugar Maple		Low	Variable	Sapling	
Sugar Maple		47	Log/Pole	11	96	Sugar Maple		Low	< 5 feet	Seeding	
Yellow Birch		10	Log/Pole	11		White Ash		Low	Variable	Sapling	
Basswood		10	Log/Pole	11		Red Maple		Low	Variable	Sapling	
Black Ash		5	Pole	6		Leatherwood		Medium	< 5 feet	Tall Shrub	
Paper Birch		3	Pole/Log	9		White Spruce		Low	Variable	Sapling	
Red Maple		20	Log/Pole	11		Wild Red Raspberry		Medium	5 - 10 feet	Tall Shrub	

<b>49</b>	622 - Lowland Shrub	Nonstocked	18.6	0	Unspecified	No	Mostly lowland shrub with some trees on streams edge.
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<b>50</b>	4130 - Aspen	Sapling Well	11.7	17	Immature	N/A	Trace amount of red oak and cedar in canopy. There was black ash but it all looks to be dead. Cut in 2007 under Line Drive Timber sale.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		60	Sapling	2	17	Northern White Cedar		Trace	< 5 feet	Sapling	
Bigtooth Aspen		35	Sapling	3		White Ash		Low	5 - 10 feet	Sapling	
Hemlock		5	Log	14		Red Oak		Low	< 5 feet	Seeding	
						Tag Alder		Medium	5 - 10 feet	Tall Shrub	
						White Spruce		Medium	5 - 10 feet	Sapling	
						Red Maple		Low	5 - 10 feet	Sapling	
						Balsam Fir		Medium	5 - 10 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**51**      4115 - Y.Birch, Hemlock NH      Sawtimber Poor      12.6      96      1-50      N/A      Cut in 2019 under Comp 87 S&E timber sale 12-073-15. Trace amount of white and black ash.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	3	Pole	8		Sugar Maple	Low	< 5 feet	Seeding
Red Maple	3	Pole	8		Basswood	Low	10 - 20 feet	Sapling
Paper Birch	10	Log/Pole	10		White Spruce	Medium	10 - 20 feet	Sapling
Yellow Birch	84	Log/Pole	10	96	Ironwood	Low	Variable	Sapling
					White Pine	Trace	5 - 10 feet	Sapling
					Red Maple	Low	10 - 20 feet	Sapling
					Paper Birch	Low	Variable	Sapling
					Wild Red Raspberry	Low	5 - 10 feet	Tall Shrub
					Quaking Aspen	High	10 - 20 feet	Sapling
					Yellow Birch	Trace	Variable	Sapling

**77**      6112 - Lowland Aspen      Poletimber Well      27.0      38      N/A      lots of low areas throughout branching into neighboring stands

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	30	Pole	7		Ironwood	Low	< 5 feet	Sapling
Black Ash	10	Pole	7		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	60	Pole	7	38	White Spruce	Low	5 - 10 feet	Sapling
					Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
					White Pine	Trace	Variable	Sapling

Drainage turning into stream in SE part of standCut 1986

**79**      3303 - Mixed Low Density Trees      Nonstocked      36.5      0      4319 - Mixed Upland Forest      Part of Camp Breen Sale cut 2020. Lots of different species. Some scattered larger trees on rocky areas. One 2-acre pocket of 6-inch black spruce in middle of stand. Lots of raspberry. Needs more time to for regen check. Heavy deer browse on sprouts.

**81**      4119 - Mixed Northern Hardwoods      Sawtimber Well      31.8      89      111-140      N/A      Good amount of sedge in higher quality area to the south. Some ash dying. This stand is somewhat diverse in diameter and basal area. North half has lower basal area, more rock, and smaller diameter. South side looks to be a better quality site with larger diameter trees and higher basal area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	5	Log/Pole	12		White Pine	Low	Variable	Sapling
Sugar Maple	45	Log/Pole	11	89	White Ash	Low	>20 feet	Pole
Red Maple	10	Log/Pole	11		Red Maple	Low	>20 feet	Pole
Paper Birch	5	Pole/Log	9		White Spruce	Low	>20 feet	Pole
Yellow Birch	5	Pole	9		Yellow Birch	Low	>20 feet	Pole
Quaking Aspen	5	Log	15		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
White Ash	25	Log	14		Sugar Maple	Medium	>20 feet	Pole
					Quaking Aspen	Low	>20 feet	Sapling
					Ironwood	High	Variable	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>83</b>	4130 - Aspen	Poletimber Well	186.6	47	111-140	N/A	Trace white pine and oak. Stand has a somewhat complicated history with almost all of it being cut in the mid 70s then cut again a few years later, at the latest 1980, to remove roughly 30BA of residual overstory. Far East side of stand, what falls is Section 30, cut in 1977. Middle of stand, that which falls in Section 25 NESE, cut in 1976/1977. West Side of stand, within Section 25 NWSE, cut between 1977 & 1980. Despite the variable cutting ages and entries it's all roughly 7 to 9 inches and 5 to 6 sticks tall.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		2	Pole/Log	8		Ironwood		Low	Variable	Sapling
Paper Birch		5	Pole	8		White Spruce		Low	>20 feet	Pole
Red Oak		1	Log/XLog	16		Balsam Fir		Medium	>20 feet	Pole
Quaking Aspen		57	Pole	8	47	White Spruce		Low	< 5 feet	Sapling
Northern White Cedar		1	Log	12		Sugar Maple		Low	Variable	Sapling
Bigtooth Aspen		10	Pole	8		White Pine		Low	Variable	Sapling
Black Ash		7	Pole	7		Red Pine		Low	Variable	Sapling
Red Pine		10	Log	12		Balsam Fir		Low	< 5 feet	Sapling
Balsam Poplar		5	Pole	8		Black Ash		Low	Variable	Sapling
White Pine		2	Log/XLog	14						

<b>90</b>	4130 - Aspen	Sapling Well	21.9	9	Immature	N/A	Comp 85 Contract, cut 2015. Residual pine, hemlock, cedar. Rough terrain. Trace paper birch.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		5	Sapling/Pole	4		Tag Alder		Low	5 - 10 feet	Tall Shrub
Red Pine		5	Log/Pole	12						
White Pine		5	Log/Pole	10						
Red Maple		10	Sapling/Pole	4						
Black Ash		2	Sapling/Pole	4						
Quaking Aspen		73	Sapling	2	9					

<b>91</b>	4130 - Aspen	Sapling Well	14.0	9	Immature	N/A	Cut Comp 85 Contract TS 2015.			
Canopy Species		% Cover	Size Class	DBH	Age					
White Pine		2	Log	14						
Red Pine		5	Log	14						
Balsam Fir		5	Sapling/Pole	4						
Quaking Aspen		88	Sapling	2	9					

<b>92</b>	6115 - Lowland Ash	Poletimber Well	7.3	81	51-80	N/A	Trace cedar, spruce and fir.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		25	Log/Pole	12	61	Balsam Fir		Low	Variable	Sapling
Paper Birch		2	Pole	8		White Spruce		Low	Variable	Sapling
Black Ash		73	Pole	6	81	Tag Alder		Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>93</b>	4130 - Aspen	Poletimber Well	33.2	34	Immature	N/A	This was cut under the Last Road Sale (12-08-87) and finished in 1990. Beavers seriously altered the stand with the almost 1/3rd the stand being converted into beaver cutting/flooding. (beaver cutting flooding now stand 8)			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Northern White Cedar	2	Log/Pole	10			White Spruce	Low	Variable	Sapling
	White Spruce	5	Pole	6			Balsam Fir	Medium	Variable	Sapling
	Red Maple	5	Log/Pole	10			White Pine	Low	Variable	Sapling
	Sugar Maple	5	Log/Pole	10						
	Quaking Aspen	78	Pole	6	34					
	Balsam Fir	5	Pole	6						

<b>95</b>	4110 - Sugar Maple Association	Sawtimber Well	36.8	95	111-140	N/A	Trace hemlock and large aspen. Well established skid trails.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Yellow Birch	5	Log/Pole	13			Balsam Fir	Low	Variable	Sapling
	White Ash	10	Log/Pole	13			Balsam Fir	Low	Variable	Pole
	Basswood	15	Log/Pole	13			Quaking Aspen	Low	Variable	Sapling
	Black Ash	5	Pole/Log	8			Ironwood	Low	Variable	Sapling
	Sugar Maple	65	Log/Pole	10	95		Sugar Maple	Medium	Variable	Sapling
							Ironwood	Low	Variable	Pole
							Leatherwood	Medium	< 5 feet	Tall Shrub

<b>97</b>	4130 - Aspen	Poletimber Well	10.7	49	81-110	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Balsam Fir	5	Pole	6			Ironwood	Low	Variable	Sapling
	Basswood	2	Pole	6			Balsam Fir	Medium	Variable	Sapling
	Paper Birch	10	Log/Pole	10			White Ash	Low	Variable	Sapling
	Quaking Aspen	68	Log/Pole	10	49		Sugar Maple	High	Variable	Sapling
	Sugar Maple	10	Pole	6						
	Red Maple	5	Pole	6						

<b>98</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	6.4	24	Immature	N/A	Cut in 2000. Trace white pine.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Balsam Fir	10	Sapling/Pole	4			Balsam Fir	Low	5 - 10 feet	Sapling
	Quaking Aspen	53	Sapling/Pole	4	24		Sugar Maple	Medium	5 - 10 feet	Sapling
	Paper Birch	5	Sapling/Pole	4						
	Northern White Cedar	2	Log/Pole	10						
	Balsam Poplar	15	Sapling/Pole	4						
	Yellow Birch	5	Pole/Sapling	5						
	Sugar Maple	10	Pole	6						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**99** 6132 - Mixed Lowland Forest with Cedar Poletimber Medium 28.8 106 1-50 N/A OPIC - FMD: SWAMP TOO WET TO CUT IN drainage

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	2	Log/XLog	14		Northern White Cedar	Trace	< 5 feet	Seeding
Northern White Cedar	48	Log/Pole	10	106	Black Ash	High	Variable	Sapling
Black Spruce	10	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Ash	20	Pole	8		Balsam Fir	Low	Variable	Sapling
Balsam Poplar	15	Log/Pole	12		Black Spruce	Low	Variable	Sapling
Paper Birch	5	Log/Pole	10					

**100** 4130 - Aspen Poletimber Well 18.0 49 81-110 N/A Trace cedar and scattered large balsam fir.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	5	Pole	6		Sugar Maple	Medium	Variable	Sapling
Balsam Poplar	10	Pole	8		Balsam Fir	Low	Variable	Sapling
Basswood	2	Log/Pole	10		Basswood	Low	>20 feet	Pole
Sugar Maple	5	Pole	7		Sugar Maple	Medium	>20 feet	Pole
White Ash	8	Pole/Sapling	5		White Ash	Low	Variable	Sapling
Quaking Aspen	70	Pole	9	49				

**101** 4130 - Aspen Sapling Medium 28.2 5 Immature N/A Some scattered leave trees may be found, i.e., cedar, hemlock, red pine, white pine, cherry, elm and oak. Sub-merchantable trees of various hardwood and softwood species left. Retention areas also found within the stand. Cut in 2019, under Popeye timber sale #12-016-17. Some leave trees have been lost to the wind and most of the residue small spruce/fir has fallen out.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	84	Sapling	1	5	Cattail spp.	Low	Unspecified	Non-Wood
Red Maple	10	Sapling	1		Wild Red Raspberry	Medium	< 5 feet	Tall Shrub
Balsam Fir	2	Sapling	1					
Red Oak	1	Sapling	1					
Basswood	1	Sapling	1					
Paper Birch	2	Sapling	1					

**104** 4113 - R.Maple, Conifer Poletimber Medium 60.0 89 1-50 N/A Hardwood reserve cut with the goal of reserve acting as nursery for conifer regeneration. Stand cut in summer of 2008 under Armileo Birch (12-003-08).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole/Sapling	6		Red Pine	Trace	Variable	Sapling
Sugar Maple	10	Pole/Log	9		White Pine	Low	Variable	Sapling
White Spruce	2	Pole	8		Balsam Poplar	Medium	10 - 20 feet	Sapling
Hemlock	1	Log	12		Red Maple	Low	10 - 20 feet	Sapling
White Pine	1	Log	15		Paper Birch	Low	Variable	Sapling
Black Ash	2	Pole	8		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	1	Pole	9		Quaking Aspen	High	10 - 20 feet	Sapling
Red Maple	67	Pole/Log	9	89	Northern White Cedar	Trace	< 5 feet	Seeding
Red Pine	1	Log	15		Cherry (spp.)	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**106** 6119 - Mixed Lowland Deciduous Forest Poletimber Well 17.9 90 51-80 N/A This is essentially a series of 4 small stands that have been excluded from all surrounding harvest. Most of the area is too wet to harvest. One area of decent aspen on a steep hill, only about a half-acre in size. Steep hill/rock outcropping separates two low areas. Trace cherry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	2	Log/Pole	14		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	5	Pole	8		Northern White Cedar	Trace	< 5 feet	Seeding
Black Ash	30	Pole	6	90	Black Ash	Medium	Variable	Sapling
Sugar Maple	10	Pole	8		Balsam Poplar	Medium	Variable	Sapling
Red Maple	20	Pole/Log	9		Quaking Aspen	Low	Variable	Sapling
Yellow Birch	2	Pole	6		Red Oak	Low	Variable	Sapling
Paper Birch	2	Pole	8		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	15	Log	14	71				
White Spruce	2	Pole	8					
Northern White Cedar	12	Pole/Log	9					

**107** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 71.2 71 111-140 N/A South Half: Two large bluffs covered with scattered pine, spruce and red maple. Bluffs have BA 1-50. Aspen, BAM, and red maple between bluffs. Looks like old logging road cuts between bluffs. Basal area high between bluffs. Aspen is healthy and younger than aspen to the north. Some erosion on old logging road. Between bluffs can be cut and has been in the past but area is small. Consider treating this small area with 108. North Half: Aspen is older and larger with most of what could be harvested already cut. Most of stand is on steep rocky slope down to Whiskey Creek and tributary to Whiskey Creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log/XLog	14		White Pine	Low	Variable	Sapling
Quaking Aspen	25	Log	14	71	Red Maple	Low	Variable	Sapling
Sugar Maple	5	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	5	Log/Pole	10		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Ash	5	Pole/Sapling	5		White Spruce	Low	5 - 10 feet	Sapling
Red Maple	10	Pole/Log	9					
Northern White Cedar	5	Log/Pole	10					
Balsam Poplar	10	Log/Pole	10					
Red Pine	10	Log/Pole	10					
Paper Birch	15	Log	11					



**Stand**      **Level 4 Cover Type**      **Size Density**      **Acres**      **Stand Age**      **BA Range**      **Managed Site**      **General Comments**

**108**      4139 - Aspen, Mixed Deciduous      Poletimber Well      107.7      47      111-140      N/A

Some older aspen here too in NE corner of stand, but not much. South half a little bigger diameter. This was two stands in the past from two different compartments. However, both stands were cut over a 5-year period and are within 5 years of age. Trace hemlock and red oak. Stand cut 1976 to 1978.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Black Ash					2	Pole	7		Quaking Aspen			Low	Variable	Sapling	
Northern White Cedar					3	Log	12		White Ash			Medium	Variable	Sapling	
White Ash					2	Log	11		Red Oak			Trace	Variable	Sapling	
Paper Birch					10	Log/Pole	10		White Ash			Low	>20 feet	Pole	
White Spruce					1	Log	12		White Spruce			Low	Variable	Sapling	
Red Maple					5	Pole	6		Hazelnut (Spp.)			High	5 - 10 feet	Tall Shrub	
Balsam Poplar					15	Pole	8		White Pine			Trace	Variable	Sapling	
Red Pine					7	Log	14		Balsam Fir			Medium	Variable	Pole	
Bigtooth Aspen				47	35	Pole	8		Paper Birch			Low	Variable	Sapling	
Quaking Aspen					20	Pole	8		Red Maple			Low	Variable	Sapling	
									Black Spruce			Trace	Variable	Sapling	
									Ironwood			Low	Variable	Sapling	
									Balsam Fir			Low	Variable	Sapling	

**109**      4112 - Maple, Beech, Cherry Association      Poletimber Well      7.0      79      51-80      N/A

OPIC - FMD: Reserve the hardwood. Stand cut in the summer 2008. Lots of wet and rocks

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Quaking Aspen					10	Log/XLog	15		Balsam Fir			Low	Variable	Sapling	
Sugar Maple				79	40	Pole/Log	8		White Spruce			Low	Variable	Sapling	
Red Oak					5	Log/XLog	15		Quaking Aspen			Low	Variable	Sapling	
White Ash					2	Pole/Sapling	6		Red Oak			Low	< 5 feet	Seeding	
Red Maple				79	43	Pole/Log	8		White Ash			Low	Variable	Sapling	

**110**      4199 - Other Mixed Upland Deciduous      Poletimber Well      12.6      89      111-140      N/A

Trace cedar.

Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
White Ash					5	Log/Pole	11		Sugar Maple			Medium	>20 feet	Sapling	
Black Ash					2	Pole	6		Red Maple			Low	< 5 feet	Sapling	
Red Maple					5	Pole	6		Sugar Maple			Low	< 5 feet	Seeding	
White Spruce					2	Pole	8		Red Oak			Low	< 5 feet	Seeding	
Paper Birch					10	Log/Pole	10		Balsam Fir			Low	Variable	Sapling	
Sugar Maple				89	46	Pole	7								
Balsam Poplar					5	Pole	8								
Red Oak					5	Log/XLog	15								
Quaking Aspen					20	Log	13								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>111</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	46.3	95	81-110	N/A	OPIC - FMD: E&W DRAINAGES (Ash, cedar, hemlock)APROX 5 CH APART. Sale operations are to avoid drainages. MINNOW TAR HARDWOODS SALE COMPLETED 10-2-11. Trace hemlock. 60-70 BA 2015
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	5	Pole	6		Sugar Maple	Low	< 5 feet	Sapling
Quaking Aspen	5	Log/Pole	10		Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	1	Pole	8		Balsam Fir	Low	Variable	Sapling
Red Maple	10	Pole/Log	8		Balsam Fir	Low	Variable	Pole
Basswood	15	Log	10		White Spruce	Low	Variable	Sapling
Sugar Maple	60	Log/Pole	11	95	Ironwood	Medium	5 - 10 feet	Sapling
Paper Birch	2	Pole	8		White Ash	Low	5 - 10 feet	Sapling
Yellow Birch	2	Log/Pole	10					

<b>112</b>	4130 - Aspen	Poletimber Well	13.8	49	111-140	N/A	Trace red pine and paper birch.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	20	Pole	9		White Spruce	Low	>20 feet	Pole
Sugar Maple	2	Pole	6		White Spruce	Low	Variable	Sapling
White Ash	2	Pole	6		Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	71	Pole	9	49	Balsam Fir	Low	>20 feet	Pole
Red Maple	5	Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling

<b>114</b>	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	48.7	86	81-110	N/A	OPIC - FMD: OI Stand Year Origin was 1960 There should be a culvert on the road here.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Log/Pole	10		Paper Birch	Low	Variable	Sapling
Balsam Poplar	2	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
White Pine	1	Log	16		Tag Alder	High	5 - 10 feet	Tall Shrub
Paper Birch	2	Pole	8		Red Maple	Low	Variable	Sapling
Tamarack	13	Log/Pole	10		Black Spruce	Low	Variable	Sapling
Red Maple	2	Log/Pole	10		Black Ash	Low	Variable	Sapling
Northern White Cedar	30	Log/Pole	10					
Black Ash	40	Pole	8	86				

<b>115</b>	4130 - Aspen	Sapling Well	9.6	5	Immature	N/A	Some scattered, Trace amount, of leave trees may be found, i.e., cedar, hemlock, red pine, white pine, cherry, elm and oak. Some spruce and balsam 6 inches and greater at a 4 inch stump may also be found. Cut in 2019, under Popeye timber sale #12-016-17.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	2	Sapling/Pole	3		Wild Red Raspberry	Medium	5 - 10 feet	Tall Shrub
Red Maple	2	Sapling	1					
Paper Birch	1	Sapling	1					
Bigtooth Aspen	40	Sapling	1					
Balsam Poplar	5	Sapling	1					
Quaking Aspen	50	Sapling	1	5				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**116**      4130 - Aspen      Poletimber Well      52.0      23      Immature      N/A      West half cut in 2001 as Tadpole Gumbo sale #008-01-01. East half cut within 5 years of west half. This was two separate stands from two different compartments but have now been combined and in the same compartment. Trace hemlock and cedar.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole/Sapling	6		Red Maple	Low	Variable	Sapling
Balsam Fir	2	Sapling/Pole	4		Red Pine	Trace	Variable	Sapling
Paper Birch	2	Sapling/Pole	4		Tag Alder	Low	5 - 10 feet	Tall Shrub
Sugar Maple	2	Pole	6		Black Ash	Medium	Variable	Sapling
Black Ash	10	Pole/Sapling	5		Ironwood	Low	Variable	Sapling
Balsam Poplar	20	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	62	Pole/Sapling	5	23	White Ash	Low	Variable	Sapling
					Sugar Maple	Low	Variable	Sapling

**117**      4137 - Aspen, Birch      Sawtimber Well      17.2      79      81-110      N/A      Some birch in decline but for the most part it's healthy. Trace amount of cherry, red pine and white pine. trace basswood.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Log/Pole	10		Sugar Maple	Trace	< 5 feet	Seeding
Quaking Aspen	41	Log/XLog	16	79	Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub
Paper Birch	30	Log	11	79	White Pine	Low	5 - 10 feet	Sapling
Red Maple	15	Log	12		Ironwood	Medium	Variable	Sapling
Black Ash	2	Pole	8		White Ash	Low	Variable	Sapling
White Ash	2	Log	12		Ironwood	Low	Variable	Pole
					Balsam Fir	Low	Variable	Sapling
					White Spruce	Low	Variable	Sapling

**118**      4130 - Aspen      Sapling Well      33.3      5      Immature      N/A      Some scattered, Trace amount, of leave trees may be found, i.e., cedar, hemlock, red pine, white pine, cherry, elm and oak. Some spruce and balsam 6 inches and greater at a 4 inch stump may also be found. Cut in 2019, under Popeye timber sale #12-016-17. south stand has cherry sap

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	1	Sapling	1		Wild Red Raspberry	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	49	Sapling	1	5				
Balsam Fir	2	Sapling/Pole	3					
Bigtooth Aspen	40	Sapling	1					
Red Maple	2	Sapling	1					
Paper Birch	1	Sapling	1					
Balsam Poplar	5	Sapling	1					

**119**      4110 - Sugar Maple Association      Sawtimber Well      18.0      95      81-110      N/A      OPIC - FMD: E&W DRAINAGES APROX 5 CH APART. sale operations are to avoid drainages. MINNOW TAR HARDWOODS SALE COMPLETED 10-2-11

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	71	Log/Pole	11	95	Ironwood	Medium	Variable	Sapling
Basswood	10	Log/XLog	15					
White Ash	5	Log/XLog	15					
Quaking Aspen	5	Log	15					
Paper Birch	2	Log/Pole	10					
Yellow Birch	5	Log/Pole	10					
Northern White Cedar	2	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>120</b>	6112 - Lowland Aspen	Poletimber Well	15.6	49	81-110	N/A	Trace amount of pine. Small amount of just cut aspen on west side merged in with stand (less than 4 acres in size). Upland area cut in 2019, under Popeye timber sale #12-016-17.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Log/Pole	10		White Spruce	Low	Variable	Sapling
Quaking Aspen	54	Pole/Log	8	49	Black Ash	Medium	Variable	Sapling
Red Maple	5	Log	12		White Pine	Low	Variable	Sapling
Black Ash	5	Pole	8		Balsam Fir	Low	Variable	Sapling
Paper Birch	5	Log/Pole	10		White Ash	Low	Variable	Sapling
Balsam Poplar	20	Pole	8		Red Maple	Low	Variable	Sapling
White Ash	5	Log	11		Ironwood	Low	Variable	Sapling
Northern White Cedar	1	Log/Pole	11		Quaking Aspen	Medium	Variable	Sapling

<b>122</b>	6115 - Lowland Ash	Poletimber Medium	5.9	61	51-80	N/A	OPIC - FMD: SWAMP TOO WET TO CUT IN This is wet, has lots of cedar and Breen Creek runs through it.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Log/Pole	10		Black Ash	High	Variable	Sapling
Red Maple	5	Pole	8		Balsam Fir	Low	Variable	Sapling
Balsam Poplar	5	Log/Pole	10		Black Spruce	Low	Variable	Sapling
Black Ash	60	Pole	8	61	Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	5	Pole	6					
Black Spruce	5	Pole	8					
Northern White Cedar	10	Log/Pole	10					
White Spruce	5	Pole/Log	8					

<b>123</b>	4130 - Aspen	Poletimber Well	96.1	41	81-110	N/A	Trace amount of red maple, cedar and paper birch. A little bit of older aspen in drainage on NE side.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	7	Pole/Sapling	5		Sugar Maple	Low	< 5 feet	Sapling
Hemlock	5	Log/XLog	15		Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen	61	Pole/Sapling	7	41	White Ash	High	Variable	Sapling
White Ash	5	Pole/Sapling	5		Red Maple	Low	< 5 feet	Seeding
Sugar Maple	2	Pole	6		Sugar Maple	Low	< 5 feet	Seeding
Balsam Poplar	20	Pole	7		Red Oak	Trace	< 5 feet	Seeding
					Ironwood	Medium	5 - 10 feet	Sapling
					White Spruce	Trace	>20 feet	Pole
					White Spruce	Low	Variable	Sapling

<b>125</b>	4130 - Aspen	Sapling Well	6.1	23	Immature	N/A	OPIC - FMD: sale cut in 2001 as Tadpole Gumbo sale #008-01-09
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10	Pole/Sapling	7		White Pine	Low	Variable	Sapling
Quaking Aspen	82	Sapling/Pole	4	23	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	5	Pole/Sapling	6					
Sugar Maple	2	Pole/Sapling	6					
White Ash	1	Pole	6					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>128</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	13.0	23	Immature	N/A	OPIC - FMD: sale cut in 2001 as Tadpole Gumbo sale #008-01-01Trace red pine
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole/Sapling	6		White Ash	Low	Variable	Sapling
Red Maple	10	Pole/Sapling	5		Ironwood	Trace	Variable	Sapling
Yellow Birch	2	Pole/Sapling	5		Balsam Fir	Medium	Variable	Sapling
Paper Birch	5	Pole/Sapling	6					
White Ash	2	Pole/Sapling	5					
White Spruce	10	Pole/Sapling	7					
Sugar Maple	5	Pole/Sapling	5					
Black Ash	5	Pole	8					
Quaking Aspen	41	Sapling/Pole	4	23				
Balsam Poplar	15	Sapling/Pole	4					