



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12089

Entry Year 2026

Acreage: 1,291

County Dickinson

Management Area: Cassidy Creek

Stand Examiner: Jacob Siler

Legal Description:

T41N R28W SEC 27, 28, 30, 33, 34, 35

T40N R28W SEC 4

Identified Planning Goals:

Optimize sustainable timber production while maintaining species diversity, offering recreation opportunities and protecting wildlife habitat.

Soil and topography:

Soils range from wet Cathro muck to dry Emmet fine sandy loams. Topography also differs from flat lowlands to rolling hardwood ridges.

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

Compartment 89 is separated by large blocks of private ownership. Deer hunting is evident in and around this compartment. Fishing opportunities are present with a boat launch site in Section 27. This launch provides access to the West Branch of the Sturgeon River. The snowmobile trail #115 is operating in several sections of this compartment.

Unique Natural Features:

West Branch of Sturgeon River and Sturgeon River

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

None Known

Watershed and Fisheries Considerations:

Jansen Creek, West Branch of Sturgeon River, and Sturgeon River run through/along compartment.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Cambrian Munising Group and the Precambrian Michigamme Formation outcrops beneath the glacial drift. There is not a current economic use for these rocks. The Hancock iron mine is located approximately one and one-half miles to the east. Part of this compartment was previously leased for metallic exploration and potential may still exist. A gravel pit is located three miles to the southeast and another one just to the east. There appears to be some gravel potential in the compartment. There is no economic oil and gas production in the UP.

Vehicle Access:

Access is fair to good with the Browns Lake Rd and Foster City Rd providing entry points into this compartment.

Survey Needs:

Surveys will be needed.

Recreational Facilities and Opportunities:

Hunting, camping, fishing, trapping, hiking, canoeing, and snowmobiling.

Fire Protection:

Access to most upland stands is fair. Access to swamp types would be difficult.

Additional Compartment Information:

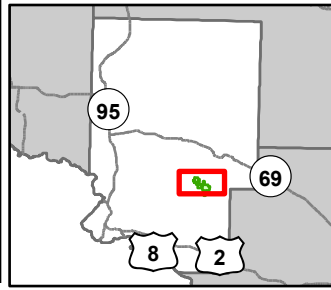
The following reports from the Inventory are attached:

- 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**

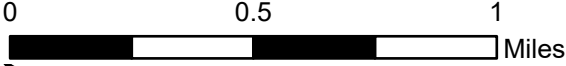
The following information is displayed, where pertinent, on the attached compartment maps:

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

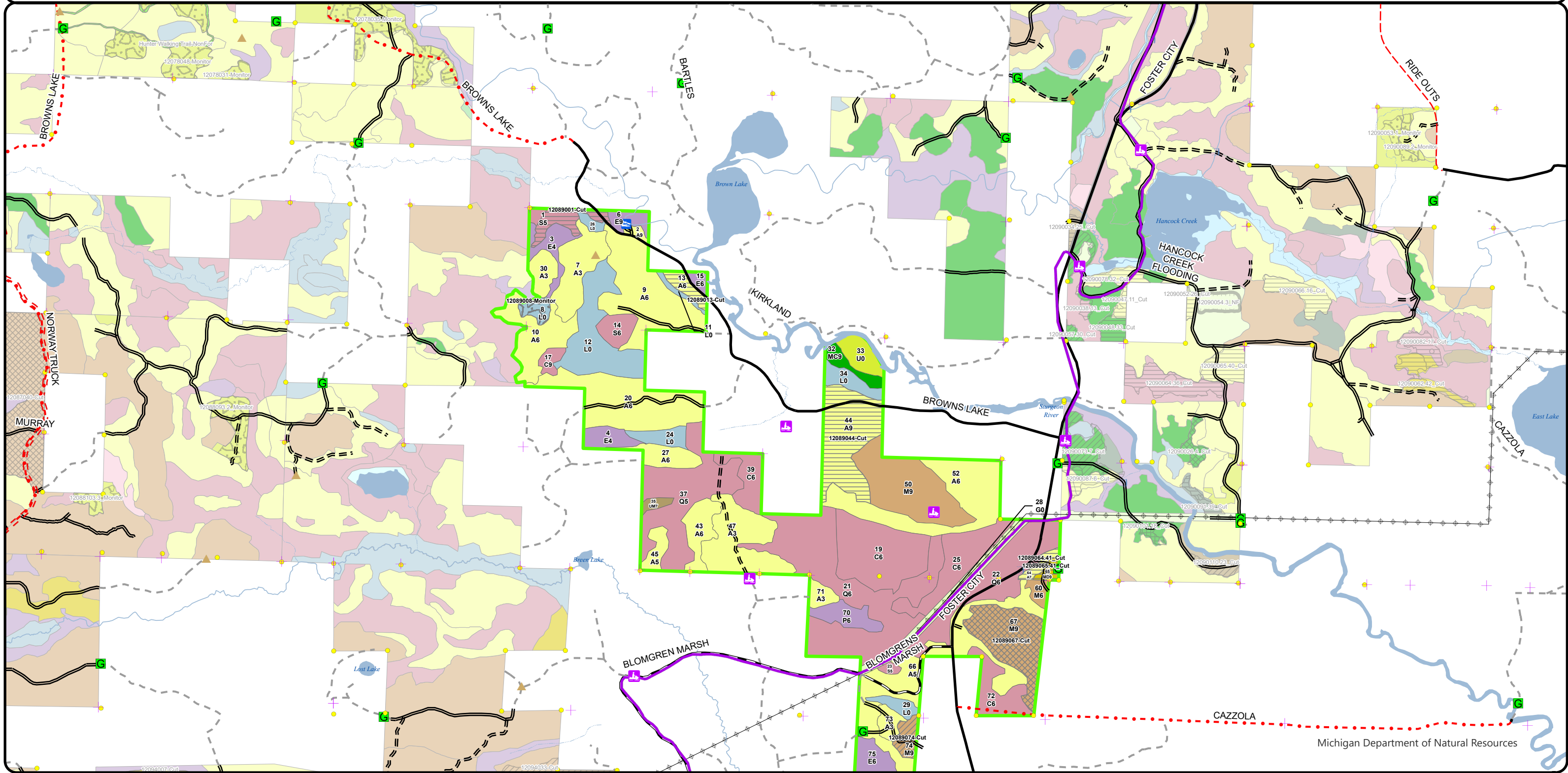
Cover Type & Treatments Map



Compartment: 12089
 T40N, R28W, Sec: 4
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Cassidy Creek
 YOE: 2026
 Acres: 1290.9 GIS Calculated
 Examiner: Jacob Siler
 Map Revised: 07/16/2024
 Map Phase: Post - Maps

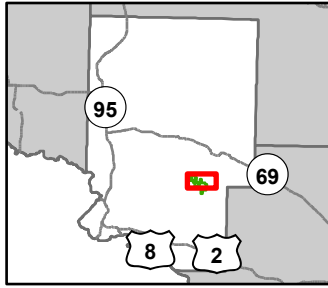


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|--------------------------------|---|------------------------------------|-------------------------------------|-----------------------------------|
| ▲ Berms | == Designated ORV Routes | - - - Private - Dirt / Gravel Road | ▭ Counties | ■ 422 - Natural Pines |
| ■ Gate | — Designated Snowmobile Trails | — Intermittent Stream | ▨ Selection (Group, Single Tree) | ■ 430 - Upland Mixed Forest |
| ■ Boating Access Site | — DNR - Primary Forest Road | — Island in Lake or River | ▨ Clearcut (w/Reserves) | ■ 611 - Lowland Deciduous Forest |
| ✂ Bridges | — DNR - Secondary Forest Road | — Lake/Pond | ▨ Thinning (Crown, Low, Systematic) | ■ 612 - Lowland Coniferous Forest |
| □ Culvert | == DNR - Forest Access Route | — Perennial River | ▨ Regeneration Survey | ■ 310 - Herbaceous Openland |
| ● Survey Grade Corners | — Federal / State / County - Paved Road | ■ Lakes and Rivers | ■ 411 - Northern Hardwood | ■ 330 - Low Density Trees |
| ✚ Remonumented Section Corners | - - - County - Gravel Road | — Powerline | ■ 413 - Aspen Types | ■ 622 - Lowland Shrub |
| ■ Snowmobile Trails | - - - County - Dirt Road (Seasonal) | ▭ Compartment Boundary | ■ 419 - Mixed Upland Deciduous | |



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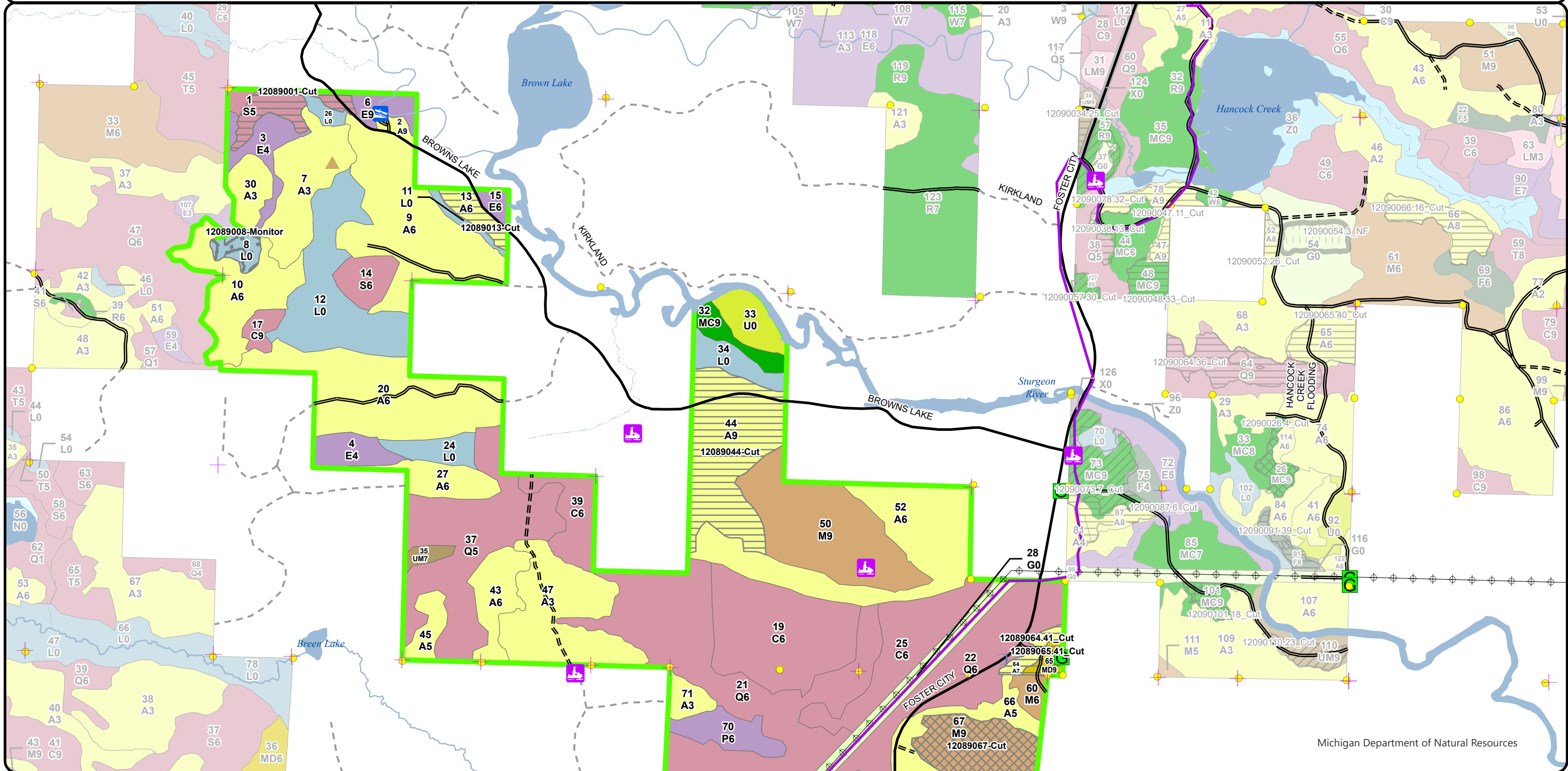
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 Miles

- Berms
- Gate
- Boating Access Site
- Culvert
- Survey Grade Corners
- Remonumented Section Corners
- Snowmobile Trails
- Designated Snowmobile Trails

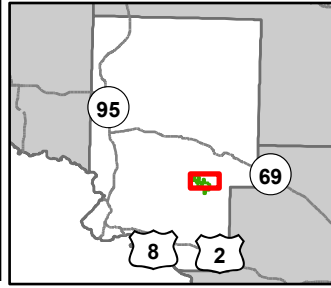
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Stand Boundary Map



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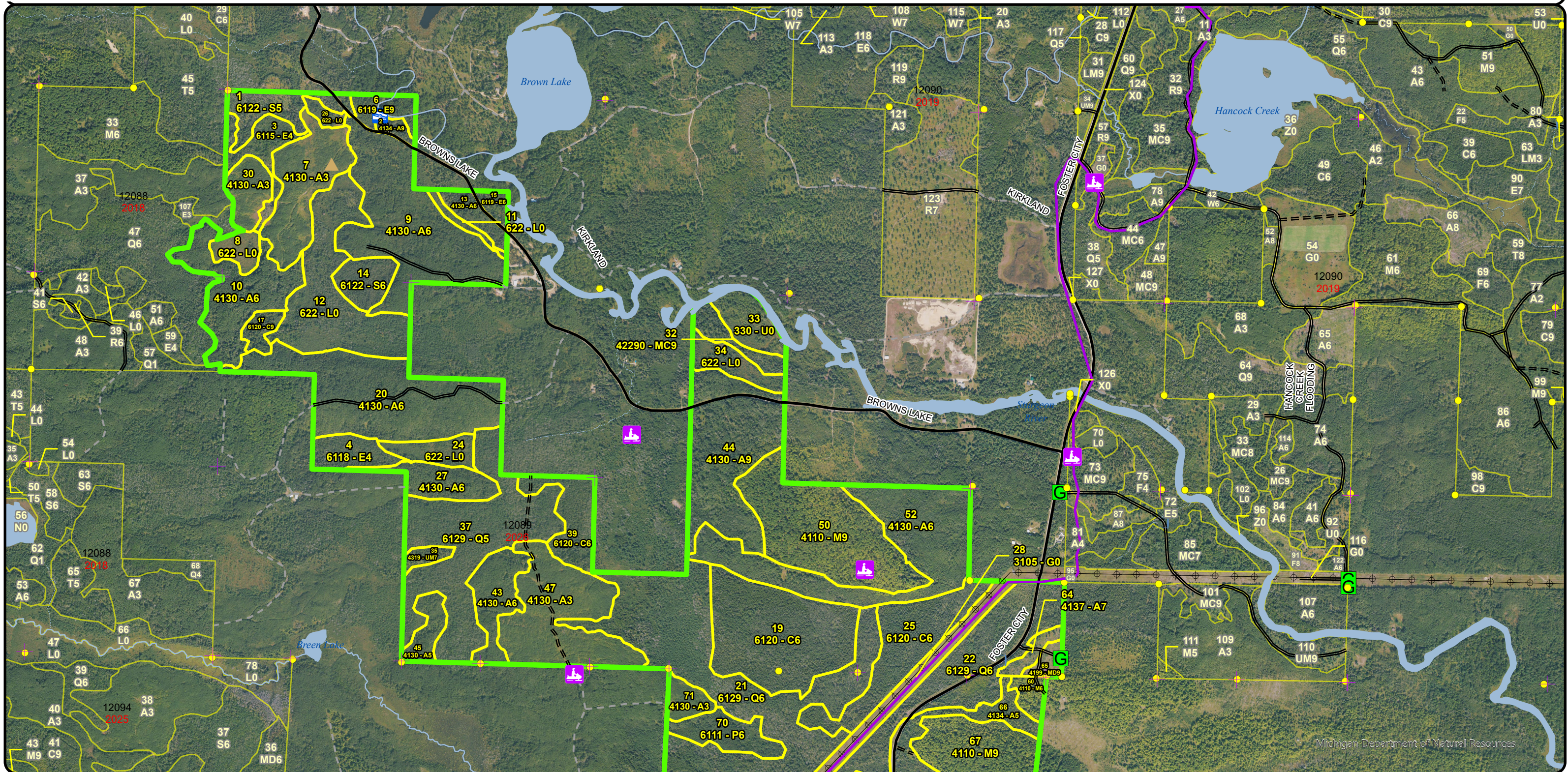


- Berms
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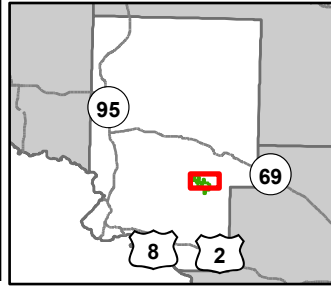
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**Special Conservation Areas
& Site Conditions Map**

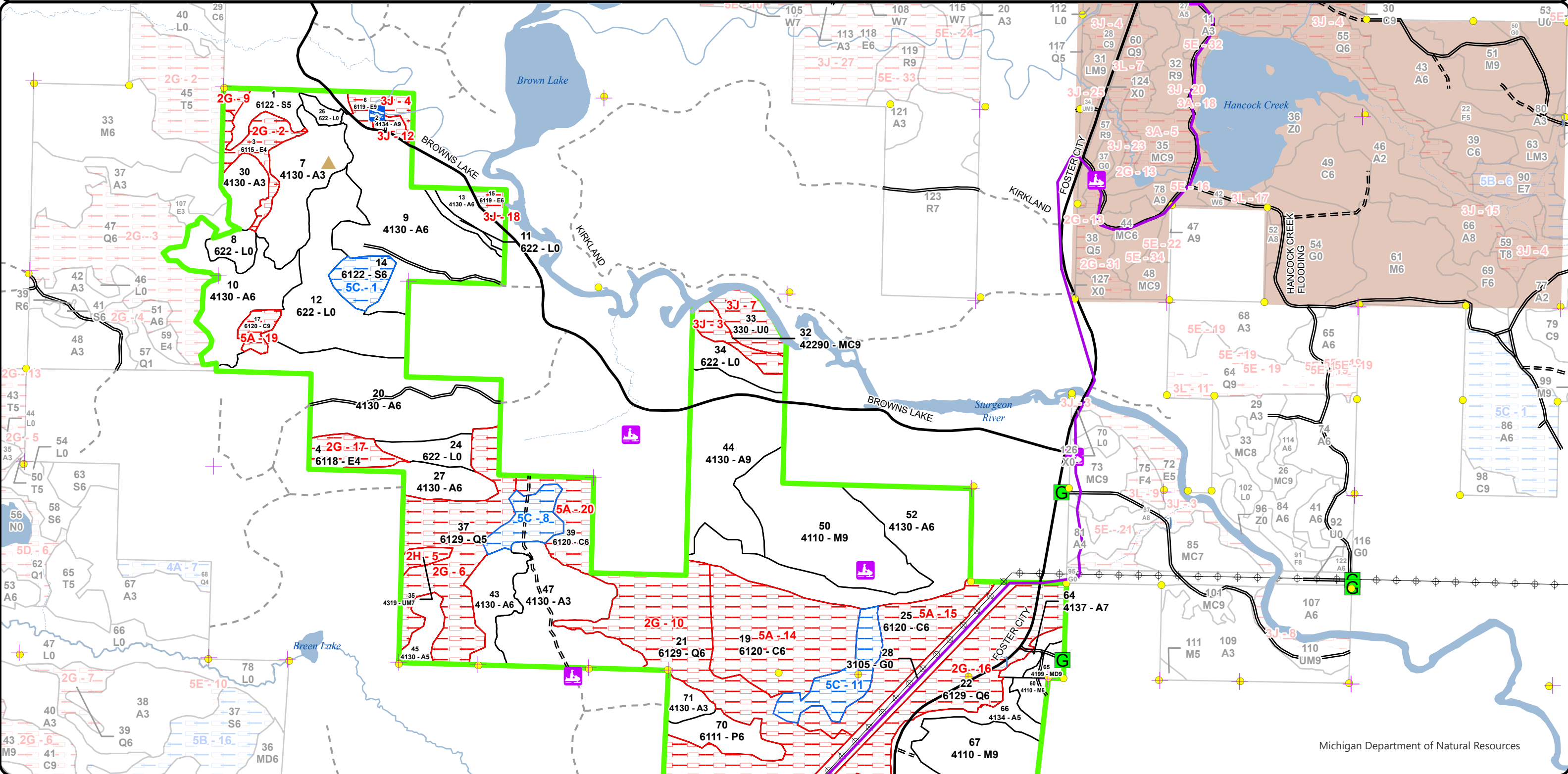
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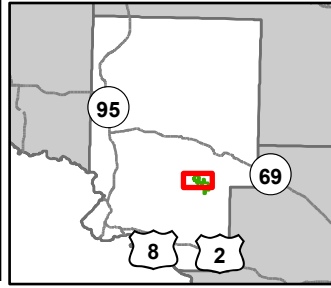
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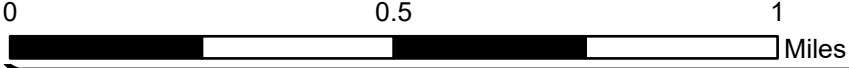
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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
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- Wildlife Research Areas



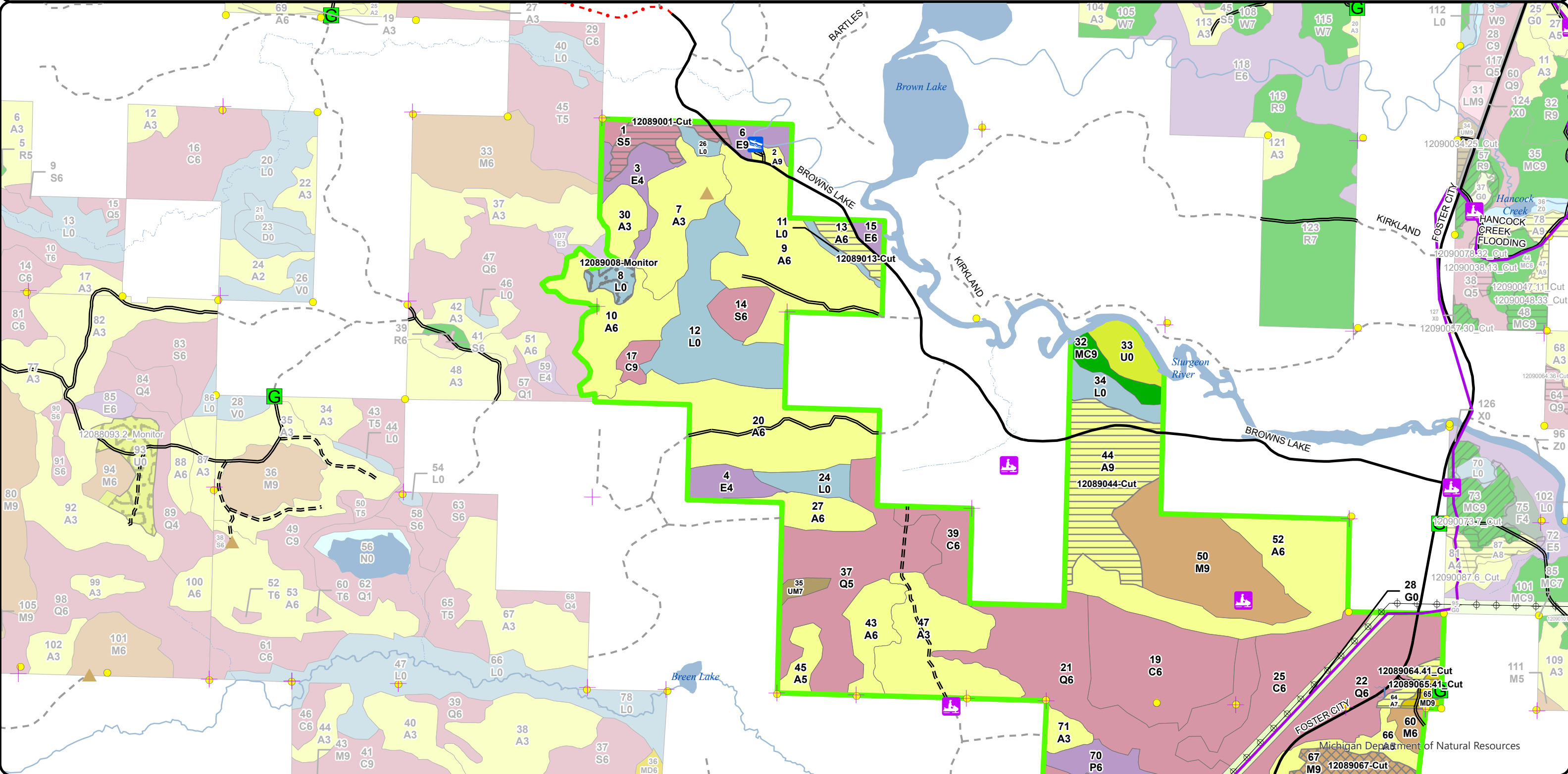
Cover Type & Treatments Map



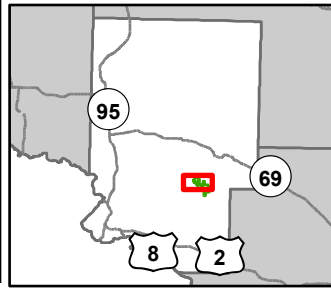
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| | Perennial River | 413 - Aspen Types | |



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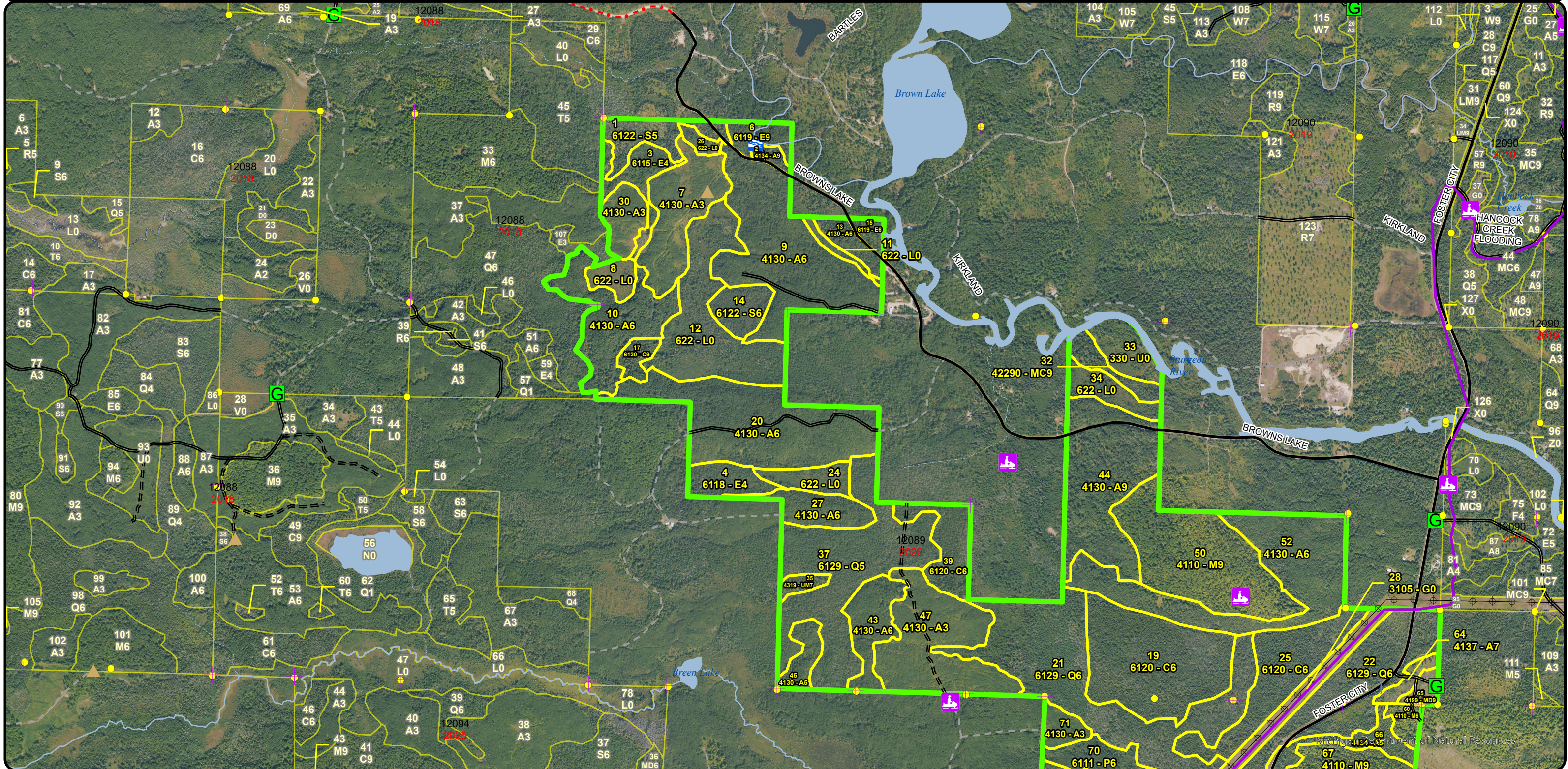


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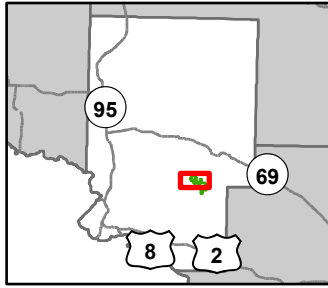
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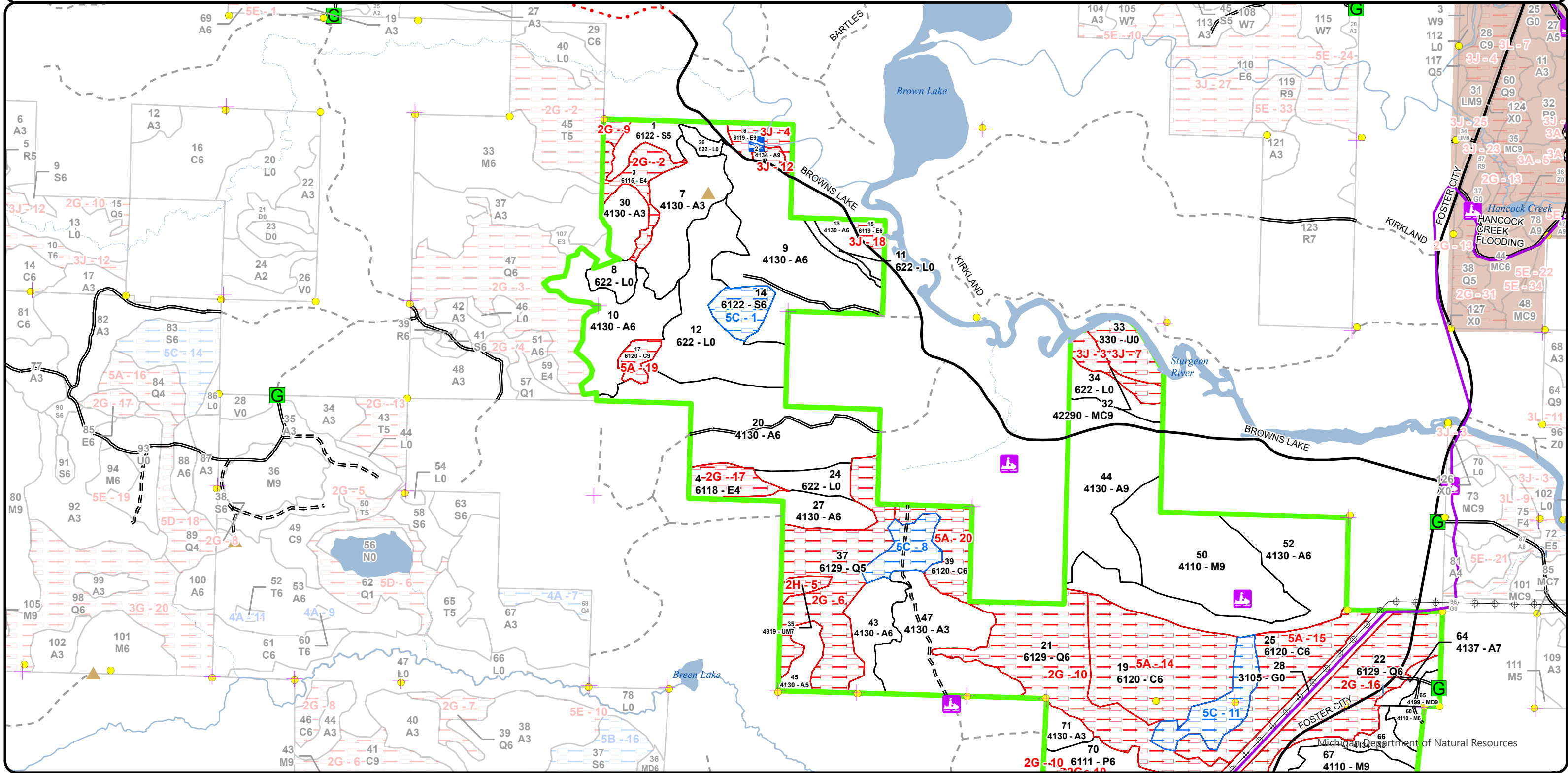
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Report 1 – Total Acres by Cover Type and Age Class



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	106	0	66	276	0	63	0	0	8	0	0	0	0	0	0	0	0	519
Cedar	0	0	0	0	0	0	0	0	0	0	0	101	39	0	0	0	0	0	140
Herbaceous Openland	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Low-Density Trees	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Aspen/Balsam Poplar	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	242	0	0	0	0	0	0	241
Lowland Deciduous	0	0	0	0	0	0	0	11	0	0	0	50	0	0	0	0	0	0	61
Lowland Shrub	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	28
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
Natural Mixed Pines	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	8
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	14	46	60	0	0	0	0	0	120
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
Total	151	106	0	66	276	14	63	20	0	8	14	467	99	0	0	0	0	8	1290



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 89
Total Compartment Acres: 1,291

Commercial Harvest - 139
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	68	0	0	0	0	0	0	0	0	68
Lowland Spruce/Fir	13	0	0	0	0	0	0	0	0	13
Mixed Upland Deciduous	4	0	0	0	0	0	0	0	0	4
Northern Hardwood	0	46	0	0	0	9	0	0	0	55
Total	85	46	0	0	0	9	0	0	0	139

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	139	0	0	0	0	0	7	0	0	146
Next Step	0	0	0	0	0	0	131	0	0	131
Total	139	0	0	0	0	0	137	0	0	276



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:

1	12089001-Cut	12.6	6122 - Black Spruce	Poletimber Medium	105	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater at DBH. Do not cut cedar, white pine, red pine and hemlock. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> spruce, tamarack, fir, cedar, ash, maple, paper birch and pine <u>Regen:</u> <u>Other</u> Sandy and not too wet in some areas. This could probably be cut in a dry summer. Access should be through private to the north or from Browns Lake Road. <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2025</p>											
8	12089008-Monitor	6.6	622 - Lowland Shrub	Nonstocked	0	Immature	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Monitor <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> lowland conifer & lowland hardwoods species <u>Regen:</u> <u>Other</u> Continue to monitor this stand as the regeneration isn't great. I wouldn't classify it as a failure yet; the spruce regeneration is very small and needs more time. <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2035</p>											
13	12089013-Cut	7.4	4130 - Aspen	Poletimber Well	59	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and greater at DBH. Do not cut cedar, white pine, red pine and hemlock. Leave conifer 4.6 inches and under at DBH. <u>Specs:</u> Green tree 2 pulp/log sized spruce or fir per acre. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, spruce, fir, pine, maple <u>Regen:</u> <u>Other</u> No retention <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 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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44	12089044-Cut	55.8	4130 - Aspen	Sawtimber Well	51	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Cut all trees 2 inches and greater at DBH. Do not cut spruce and fir 4.6 inches and under at DBH. Green tree 2 pulp/log sized spruce or fir
Specs: per cruise plot. Do not cut red pine, white pine, cedar, cherry, ironwood and hemlock, if found.

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

Acceptable Aspen, maple, balsam poplar, pine
Regen:

Other Some areas are wet and may be better suited for winter harvest or possibly a dry summer.
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

67	12089067-Cut	46.1	4110 - Sugar Maple Association	Sawtimber Well	105	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
Specs: treatment area is to be composed of regeneration gaps. Leave all species represented. Do not mark conifer unless needed for access or gaps.

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

Acceptable Northern Hardwoods
Regen:

Other Aim for 10% of area in gaps rather than 20%
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

74	12089074-Cut	8.5	4110 - Sugar Maple Association	Sawtimber Well	91	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Thin to a residual basal area of 70-90sqft. Leave all species represented.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

Approved Treatments:

64	12089064.41_Cut	4.6	4137 - Aspen, Birch	Sawtimber Poor	89		Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut with a 2" spec.
Specs:

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

Acceptable Aspen, birch, spruce, fir, maple
Regen:

Other
Comment:

Site Condition



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 Start Date: 10/1 /2019

65	12089065.41_ Cut	4.1	4199 - Other Mixed Upland Deciduous	Sawtimber Well	89	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut 2" spec. Green tree mark some Maple and Birch to be left. Leave Cedar and Pine.

Specs:

Next Step ; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, birch, spruce, fir, maple

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2019

**Total Treatment
Acreage Proposed: 145.7**

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Jacob Siler : Examiner

Compartment: 89

Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2G	2H	3J	5A
		With Condition	Not Available						
519	516	0	3	Aspen		0		3	
140	22	0	118	Cedar					118
22	22	0	0	Herbaceous Openland					
13	0	0	13	Low-Density Trees				13	
14	14	0	0	Lowland Aspen/Balsam Poplar					
242	0	32	210	Lowland Conifers	32	210			
61	0	0	61	Lowland Deciduous		49		12	
115	115	0	0	Lowland Shrub					
26	15	11	0	Lowland Spruce/Fir	11	0			
4	4	0	0	Mixed Upland Deciduous					
9	0	0	9	Natural Mixed Pines				9	
120	120	0	0	Northern Hardwood					
4	0	0	4	Upland Mixed Forest			4		
1,289	828	43	418	Total Forested Acres	43	259	4	37	118
	64%	3%	32%	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	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Healthy. Hold tell product is more marketable and/or cut with stand 9.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Jacob Siler : Examiner

Compartment: 89

Year of Entry: 2026

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: West Branch Sturgeon River floodplain.							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	56	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This area may be harvestable. However, like the rest of the stand, this area is quite wet. Cedar regenerations is also found in this area. This could potentially be treated as a scaled/optional unit with an adjacent aspen stand e.g., Stand 43.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

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Year of Entry: 2026

9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	99	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This area could potentially be cut but looks to be quite wet. This could be cut as a scaled/optional unit and treated along with a nearby stand, e.g., Stand 52. There's also a good amount of cedar regeneration present.							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: West Branch of Sturgeon River directly to the North.							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5A: Not able to obtain desirable regeneration	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

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15	Unavailable	5A: Not able to obtain desirable regeneration	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Basal area is too low to make this financially feasible. It's also very wet.							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: floodplain							
19	Unavailable	5A: Not able to obtain desirable regeneration	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5A: Not able to obtain desirable regeneration	17	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

Mgt. Unit

Compartment:

Year of Entry



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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	6122 - Black Spruce	Poletimber Medium	14.9	105	81-110	N/A	Trace white pine, red pine and maple.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	5	Log/Pole	10	
Black Spruce	52	Pole	9	105
Tamarack	40	Log/Pole	10	
Paper Birch	1	Log/Pole	10	
Quaking Aspen	1	Log	12	
Red Maple	1	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	Low	Variable	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack	Medium	5 - 10 feet	Sapling

2	4134 - Aspen, Spruce/Fir	Sawtimber Well	3.0	80	51-80	N/A	Trace red pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	10	Pole	8	
Balsam Fir	9	Pole	8	
Quaking Aspen	65	Log	14	80
Paper Birch	1	Pole/Log	9	
White Spruce	15	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Low	Variable	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	Low	Variable	Sapling

3	6115 - Lowland Ash	Poletimber Poor	12.8	108	1-50	N/A	Lots of dead ash.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	20	Pole/Log	10	
Black Ash	70	Log/Pole	11	108
Tamarack	10	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
White Spruce	Low	Variable	Sapling
Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	Low	Variable	Sapling

4	6118 - Lowland Deciduous with Cedar	Poletimber Poor	11.0	60	1-50	N/A	Small block of cedar on the west side with higher basal area.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Pole	8	
Northern White Cedar	20	Log/Pole	11	100
Black Spruce	5	Pole	8	
Balsam Fir	5	Pole	8	
Balsam Poplar	50	Pole	8	60

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	Tall Shrub
Balsam Fir	Low	Variable	Sapling

6	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	7.9	105	51-80	N/A	Trace red pine, 1 percent 11 inch burch.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Pole	8	
White Spruce	2	Log/Pole	10	
Balsam Fir	1	Pole	8	
Quaking Aspen	2	Log	14	
Paper Birch	1	Pole/Log	9	
Black Ash	48	Log/Pole	10	105
Red Maple	41	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	Low	Variable	Sapling
Black Ash	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
7	4130 - Aspen	Sapling Well	31.9	9	Immature	N/A	Stand harvested 6/12/2015.																																																						
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8	622 - Lowland Shrub	Nonstocked	6.6	0	Immature	613 - Lowland Mixed Forest	Tamarack and Spruce removed 6/12/2015. All Cedar retained. Mostly spruce and some tamarack filling in slowly. Ash saplings and cedar poles present. Spruce is small and looks to just be coming up.																																																						
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10	4130 - Aspen	Poletimber Well	34.7	38	111-140	N/A	Scattered mature aspen left from 1986 cut. Trace cedar and paper birch. Second aspen age is 55 and 12 inch. low spot on south side.																																																						
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11	622 - Lowland Shrub	Nonstocked	3.1		Unspecified	No	Some sparse ash. I walked across this with little to no snow on the ground and didn't observe a stream.																																																						
12	622 - Lowland Shrub	Nonstocked	49.4			No	Some scattered spruce and tamarack. Much of the tamarack has died off. Very wet.																																																						
13	4130 - Aspen	Poletimber Well	7.4	59	111-140	N/A	Trace amount of maple and pine.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
14	6122 - Black Spruce	Poletimber Well	11.0	105	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		80	Pole/Sapling	5	105	Tag Alder	Low	5 - 10 feet	Tall Shrub
Tamarack		20	Pole/Sapling	5					
15	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	3.8	100	81-110	N/A	Flood plain and small high strip of aspen on county road. Trace amount of white pine, spruce, and fir in canopy along road.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		5	Log/Pole	11		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Ash		40	Pole/Log	8		Balsam Fir	Trace	Variable	Sapling
Red Maple		55	Log/Pole	10	100				
17	6120 - Lowland Cedar	Sawtimber Well	5.2	105	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		90	Log	13	105	Black Spruce	Low	5 - 10 feet	Sapling
Black Ash		5	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce		5	Pole	8					
19	6120 - Lowland Cedar	Poletimber Well	59.8	107	141-170	N/A	Mainly cedar with pockets of black spruce. Cedar is regenerating here. Moderate amounts of seedlings under black spruce. Low amounts of cedar seedlings under cedar. Basal area lower in black spruce areas.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		5	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce		20	Pole	6		Balsam Fir	Low	Variable	Sapling
Northern White Cedar		75	Pole	8	107	Tamarack	Medium	Variable	Sapling
						Northern White Cedar	Low	< 5 feet	Seeding
						Black Spruce	Low	Variable	Sapling
20	4130 - Aspen	Poletimber Well	67.8	38	111-140	N/A	Well stocked with a good site.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		1	Pole	8		White Spruce	Low	Variable	Sapling
Red Maple		1	Pole	8		Ironwood	Low	Variable	Sapling
Balsam Fir		5	Pole	8		Balsam Fir	Medium	Variable	Sapling
White Ash		1	Pole	6		White Pine	Trace	Variable	Sapling
Quaking Aspen		92	Pole	6	38				
21	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	117.5	107	81-110	N/A	More sparse, wetter, and small trees on north side.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		2	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
Tamarack		30	Pole	7		Tamarack	Medium	Variable	Sapling
Black Spruce		42	Pole	7	107	Black Spruce	Medium	Variable	Sapling
Balsam Fir		5	Pole	6		Northern White Cedar	Low	< 5 feet	Seeding
Quaking Aspen		1	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar		20	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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22 6129 - Mixed Coniferous Lowland Forest Poletimber Well 55.0 107 141-170 N/A Trace hemlock

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Pole	6		Northern White Cedar	Trace	Variable	Sapling
Black Spruce	20	Pole	6		Black Spruce	Low	Variable	Sapling
Northern White Cedar	38	Pole	6	107	Tag Alder	Low	5 - 10 feet	Tall Shrub
Tamarack	30	Pole	6		Tamarack	Low	Variable	Sapling
Black Ash	8	Pole	6		Black Ash	Low	Variable	Sapling
Quaking Aspen	2	Log	12		Balsam Fir	Low	Variable	Sapling

23 6122 - Black Spruce Poletimber Medium 2.2 100 51-80 N/A wet, patchy, and low BA around 50. Trace elm.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	5	Pole	6		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	10	Pole	8		Tag Alder	Medium	Variable	Tall Shrub
Balsam Fir	5	Pole	6					
Black Spruce	78	Pole	8	100				
Paper Birch	2	Pole	6					

24 622 - Lowland Shrub Nonstocked 9.4 0 Unspecified No Low area with sparse trees.

25 6120 - Lowland Cedar Poletimber Well 35.7 107 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	40	Pole	6	107	Black Spruce	Low	Variable	Sapling
Northern White Cedar	50	Pole	8	107	Paper Birch	Trace	Variable	Sapling
Tamarack	10	Pole	8		Balsam Fir	Low	Variable	Sapling
					Tag Alder	Medium	5 - 10 feet	Tall Shrub
					Northern White Cedar	Trace	< 5 feet	Seeding
					Tamarack	Low	Variable	Sapling

26 622 - Lowland Shrub Nonstocked 3.1 No

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Low	>20 feet	Pole
Tag Alder	High	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
27	4130 - Aspen	Poletimber Well	14.2	38	111-140	N/A	Nice aspen.																																															
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Beech	Trace	< 5 feet	Sapling																																																			
Balsam Fir	Trace	Variable	Sapling																																																			
28	3105 - Mixed Upland Herbaceous	Nonstocked	22.2			No																																																
29	622 - Lowland Shrub	Nonstocked	6.3	0		No																																																
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30	4130 - Aspen	Sapling Well	11.2	9	Immature	N/A	Stand harvested 6/12/2015.																																															
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32	42290 - Natural Mixed Pine	Sawtimber Well	8.5	60	111-140	N/A																																																
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33	330 - Low-Density Trees	Nonstocked	13.5	0		No	Sturgeon river flood plain. Hardley any trees.																																															
34	622 - Lowland Shrub	Nonstocked	10.7			No	Low area with sparse trees.																																															
35	4319 - Mixed Upland Forest	Sawtimber Poor	3.5	50	1-50	N/A	Old aspen falling down filling in with various ages of spruce.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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37 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 69.2 100 51-80 N/A Variable BA and size. Very wet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	48	Pole	8		Black Ash	Trace	Variable	Sapling
Black Ash	2	Pole	6		Balsam Poplar	Trace	Variable	Sapling
Northern White Cedar	2	Pole	8		Northern White Cedar	Low	Variable	Seeding
Black Spruce	48	Pole	8	100	Tag Alder	High	5 - 10 feet	Tall Shrub
					Paper Birch	Trace	Variable	Sapling

39 6120 - Lowland Cedar Poletimber Well 17.4 110 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	1	Pole/Log	8		Northern White Cedar	Trace	Variable	Sapling
Tamarack	8	Log/Pole	10		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	80	Pole	7	110	Black Spruce	Trace	Variable	Sapling
Balsam Poplar	1	Pole/Log	8		Balsam Fir	Low	Variable	Sapling
Black Ash	2	Pole	8					
Black Spruce	8	Pole	7					

43 4130 - Aspen Poletimber Well 17.7 30 Immature N/A Trace amount of red pine, spruce and maple in canopy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	2	Pole	6		Black Spruce	Low	Variable	Sapling
Balsam Poplar	10	Pole/Sapling	6		Ironwood	Trace	Variable	Sapling
Quaking Aspen	88	Pole/Sapling	6	30	White Spruce	Low	Variable	Sapling
					White Spruce	Low	Variable	Pole
					Black Spruce	Low	Variable	Pole

44 4130 - Aspen Sawtimber Well 55.8 51 81-110 N/A Stand is quite wet in areas. Basal area variable. Trace red and white pine. Some older aspen present. This was cleared with D7 & KG blade.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	8		Cherry (spp.)	Trace	Variable	Sapling
White Spruce	5	Pole	8		Quaking Aspen	Low	Variable	Sapling
Red Maple	1	Log/Pole	10		Balsam Fir	Low	5 - 10 feet	Sapling
Black Cherry	2	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Ash	2	Pole	8		White Pine	Low	Variable	Sapling
Paper Birch	5	Log	12		White Spruce	Low	5 - 10 feet	Sapling
Sugar Maple	2	Log/Pole	10					
Quaking Aspen	73	Log	10	51				
Balsam Poplar	5	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
45	4130 - Aspen	Poletimber Medium	8.2	30	Immature	N/A	Stand gets progressively thinner as you go north. Small patch of tag alder on north end.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		2	Pole/Sapling	5		Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen		77	Pole/Sapling	5	30	Bracken Fern	Medium	Unspecified	Non-Wood
White Spruce		10	Pole/Sapling	6		Black Cherry	Low	Variable	Sapling
Balsam Poplar		10	Pole/Sapling	6					
Paper Birch		1	Pole	8					
47	4130 - Aspen	Sapling Well	48.6	9	Immature	N/A	Stand harvested 5/7/2015. Trace cedar.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar		10	Sapling	2		Ironwood	Trace	Variable	Sapling
Quaking Aspen		90	Sapling	2	9	Tag Alder	Low	5 - 10 feet	Tall Shrub
						Balsam Fir	Trace	Variable	Sapling
50	4110 - Sugar Maple Association	Sawtimber Well	59.8	110	81-110	N/A	Select cut. Remove paper birch. No maple regeneration in this stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		1	Log/XLog	14		Balsam Fir	Low	Variable	Sapling
White Ash		1	Log	13		Leatherwood	Medium	< 5 feet	Tall Shrub
Sugar Maple		77	Log	13	110	White Spruce	Low	Variable	Sapling
Basswood		14	Log	14		White Ash	Low	Variable	Sapling
Paper Birch		2	Pole	8		Ironwood	Medium	Variable	Sapling
Red Maple		5	Log/Pole	10		Beech	Trace	Variable	Sapling
52	4130 - Aspen	Poletimber Well	61.6	38	81-110	N/A	Trace amounts of tamarack. Small patch of older aspen against hardwood stand amongst some cedar, only about 2 acres.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		74	Pole	6	38	White Ash	Low	Variable	Sapling
Balsam Fir		10	Pole/Sapling	6		Balsam Fir	High	Variable	Sapling
White Spruce		2	Pole/Sapling	6		White Spruce	Low	5 - 10 feet	Sapling
Balsam Poplar		10	Pole	6		Ironwood	Low	Variable	Pole
Northern White Cedar		1	Pole/Log	9		Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple		1	Pole	7					
Black Spruce		2	Pole	5					
60	4110 - Sugar Maple Association	Poletimber Well	5.2	90	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		10	Log	12		Balsam Fir	Medium	Variable	Sapling
Paper Birch		2	Pole	8		Ironwood	Low	Variable	Sapling
Balsam Fir		2	Pole	6					
Sugar Maple		70	Pole/Log	9	90				
Red Maple		16	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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64	4137 - Aspen, Birch	Sawtimber Poor	4.7	89		N/A	Spruce and fir are currently falling to the ground and the aspen and paper birch are next
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Log	11	89
Paper Birch	40	Log	11	
White Spruce	5	Log	12	
Sugar Maple	3	Log	10	
Red Maple	2	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Unspecified	Unspecified	Sapling
Balsam Fir	Low	< 5 feet	Sapling
White Spruce	Low	< 5 feet	Sapling

65	4199 - Other Mixed Upland Deciduous	Sawtimber Well	4.1	89	81-110	N/A	Sugar maple generally poor quality Balsam fir is being hit by SBW
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Log/Pole	11	
Bigtooth Aspen	5	Log/Pole	11	
Sugar Maple	35	Pole/Log	9	89
Balsam Fir	2	Pole	7	
Basswood	8	Log	11	
Paper Birch	30	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	10 - 20 feet	Pole
White Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling
Leatherwood	Medium	< 5 feet	Tall Shrub

66	4134 - Aspen, Spruce/Fir	Poletimber Medium	72.2	30	Immature	N/A	Poor quality stand. Trace amount of cherry, yellow birch, white pine, and ironwood. This stand originated from several cuts in 93 and one in 86.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	5	Pole/Sapling	6	
Paper Birch	2	Pole/Sapling	5	
Sugar Maple	2	Pole/Sapling	6	
Northern White Cedar	2	Pole	8	
Balsam Fir	20	Pole/Sapling	5	
White Spruce	2	Pole	8	
Black Ash	5	Pole/Sapling	6	
Quaking Aspen	62	Pole/Sapling	6	30

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub
White Spruce	Low	< 5 feet	Sapling
Tamarack	Trace	Variable	Sapling
Balsam Fir	High	Variable	Sapling

67	4110 - Sugar Maple Association	Sawtimber Well	46.1	105	111-140	N/A	Trace amount of cedar. Lower quality area on far south side where it was part of a shelterwood cut in the early 90s.
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Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	2	Log/Pole	11	
White Ash	2	Log/XLog	14	
Paper Birch	5	Log	12	
Basswood	5	Log	13	
Sugar Maple	86	Log/Pole	12	105

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
70	6111 - Lowland Balsam Poplar	Poletimber Well	14.2	40	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		20	Sapling/Pole	4		Black Spruce	Low	Variable	Sapling
Balsam Poplar		55	Pole/Sapling	5	40	Tamarack	High	Variable	Sapling
Quaking Aspen		25	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
71	4130 - Aspen	Sapling Well	6.7	9	Immature	N/A	Harvested 5/7/2015		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		88	Sapling	2	9	Ironwood	Medium	Variable	Sapling
Balsam Poplar		10	Sapling	1					
Balsam Fir		2	Sapling	2					
72	6120 - Lowland Cedar	Poletimber Well	21.8	110	141-170	N/A	OJ: Fir mostly fallen due to spruce budworm.AC: Will likely damage residual Cedar in a salvage harvest.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		1	Pole/Log	8		Black Ash	Low	Variable	Sapling
Northern White Cedar		86	Pole	8	110	Paper Birch	Trace	Variable	Sapling
Quaking Aspen		1	Log	14		Balsam Fir	Medium	Variable	Sapling
Tamarack		1	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Ash		10	Pole	7					
Balsam Poplar		1	Log	14					
73	4130 - Aspen	Sapling Well	7.1	9	Immature	N/A	Harvested 5/7/2015		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Sapling	1	9	Balsam Fir	Trace	Variable	Sapling
74	4110 - Sugar Maple Association	Sawtimber Well	8.5	91	111-140	N/A	Good quality stand. Last harvest was 2005.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		98	Log/Pole	12	91	White Spruce	Trace	10 - 20 feet	Sapling
Basswood		2	Log	13		Balsam Fir	Trace	10 - 20 feet	Sapling
						Sugar Maple	Low	Variable	Sapling
						Balsam Fir	Low	>20 feet	Pole
75	6115 - Lowland Ash	Poletimber Well	25.7	105	111-140	N/A	Wet more conifer and lower basal area to South. Some ash starting to die.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Ash		69	Pole	8	105	White Spruce	Low	Variable	Sapling
Tamarack		15	Pole	6		Tag Alder	High	5 - 10 feet	Tall Shrub
Paper Birch		1	Pole	6		Black Spruce	Low	Variable	Sapling
Northern White Cedar		5	Pole	6		Black Ash	Medium	Variable	Sapling
Black Spruce		10	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
76	6220 - Alder/willow	Nonstocked	26.9			No	