



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12015

Entry Year 2025

Acreage: 1,837

County Dickinson

Management Area: Ralph Moraine

Stand Examiner: Deb Goupell

Legal Description:

T44N R28W Sec 4-10

Identified Planning Goals:

This compartment is over three-quarters upland, the majority of it being aspen cover type. Management of all stands is to balance age class distribution and allow best suited species to grow on best suited sites while promoting sustainable timber production and enhancing and protecting wildlife habitat. Hardwood management goals are to put growth on the best trees in place by removing crown competition. Protect all bodies of water, especially Schwartz Creek.

Soil and topography:

Terrain is predominantly rolling uplands with a few steep hills. Upland soils are typically Emmet, Pemene or Rousseau fine sandy loams. The few lowlands found in this compartment are mostly on the south along Schwartz Creek and are Carbondale/Cathro mucks.

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

This compartment is almost contiguous State owned land with a couple isolated private owned parcels. It is almost entirely surrounded by State land.

Unique Natural Features:

Schwartz Creek.

Archeological, Historical, and Cultural Features:

None known within this compartment.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

The southern region of this compartment borders Schwartz Creek. Schwartz Creek is designated a Type 1 trout stream less than 50-foot width and has a predicted mean July temperature of 63.1 °F (cold stream). A 300-foot buffer is recommended for Schwartz Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a 100 foot plus 5 feet per 1% increase in slope; buffer is recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment has considerable aspen acreage with an adequate age-class distribution. This compartment does winter deer and many of the animals associated with them such as bobcats, wolves and coyotes. Transition zones between upland and lowlands should be protected and expanded to ensure cover and travel corridors are protected and improved where possible. Lowland conifer and lowland hardwood inclusions, including drainages, should be protected as wintering habitat for deer and spring- summer range for bear. Hardwoods stands are managed to ensure there is diversity in both species and structure. Mesic conifers will be encouraged especially in hardwood stands. Soft and hard mast producing species such as oak will be maintained and encouraged to provide highly valuable forage for wildlife such as deer, bear and grouse. This compartment also contains the old elf line along it's western side.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. Precambrian Archean granite/gneiss subcrops below the glacial drift. There is not a current economic use for these rocks, although they have building stone potential. A rock quarry (? type) lies three miles to the north. Iron mines are located approximately twelve miles to the south. Gravel pits are not indicated in this area, but there appears to be good gravel potential. Most of this area was previously leased for metallic exploration and State land to the northwest is currently leased. There is no economic oil and gas production in the UP.

Vehicle Access:

Schwartz Creek/Flat Rock Road, Floodwood Road and various two-track roads access the compartment fairly thoroughly.

Survey Needs:

Survey will be needed in Section 6.

Recreational Facilities and Opportunities:

Used heavily for hunting, camping, fishing, and trapping. Snowmobile trail #32 runs south of this compartment.

Fire Protection:

Felch protection area. Access to majority of compartment is good.

Additional Compartment Information:**The following reports from the Inventory are attached:**

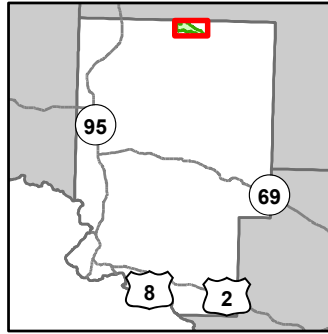
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

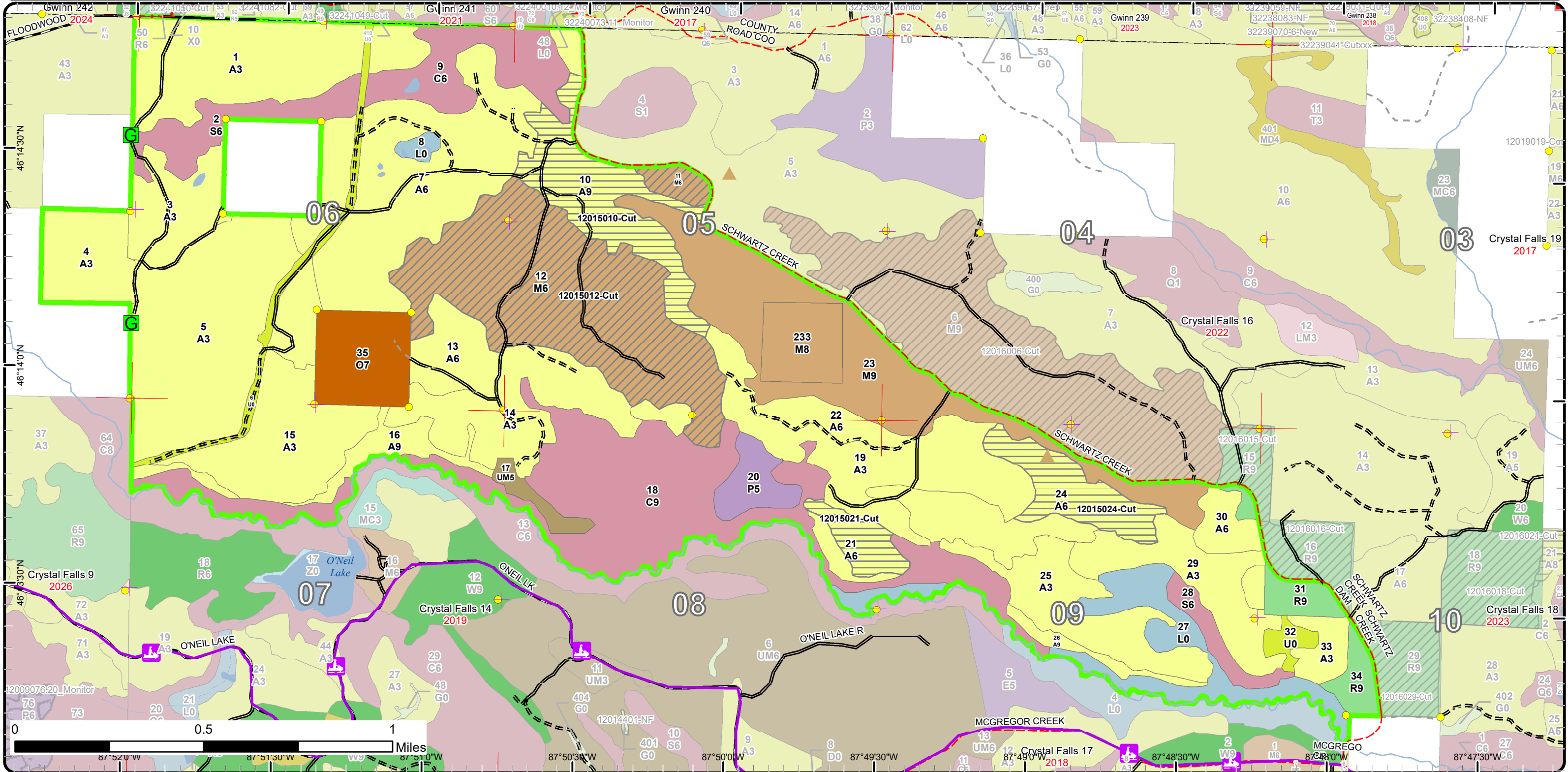
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 15
 T44N, R28W, Sec. 04-10, 15-16
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Moraine
 YOE: 2025
 Acres: 1837 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 8/1/2023
 Map Phase: Review

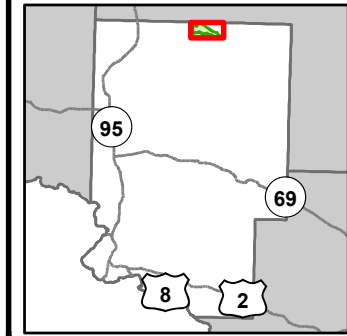


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub

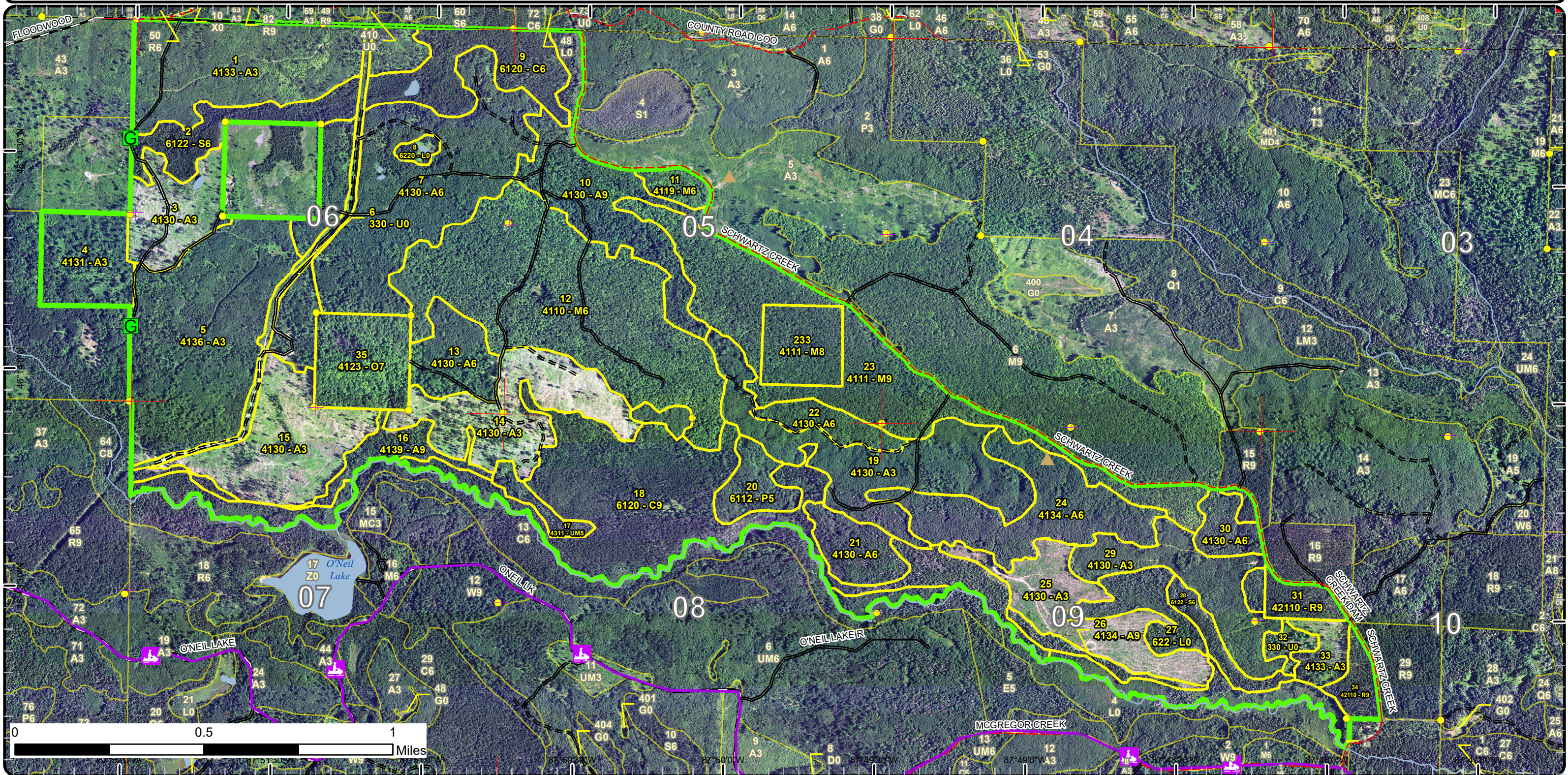


Stand Boundary Map

Compartment: 15
 T44N, R28W, Sec. 04-10, 15-16
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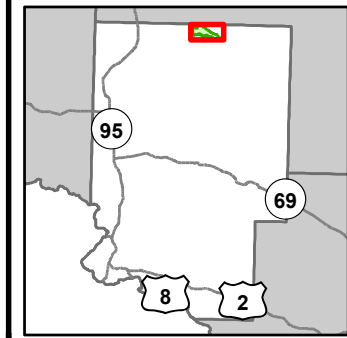


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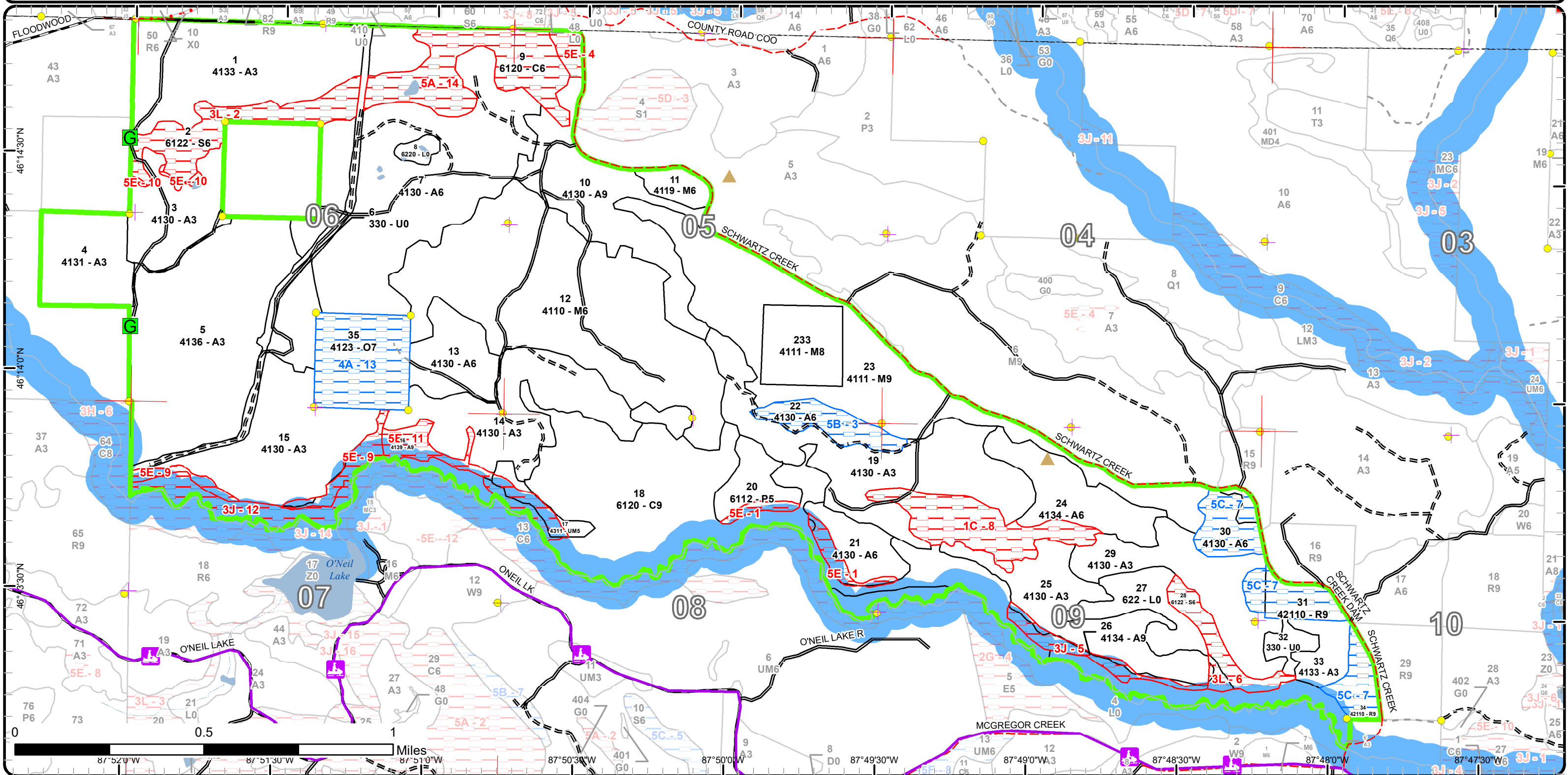


Special Conservation Areas

Compartment: 15
 T44N, R28W, Sec. 04-10, 15-16
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- G Gate
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



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	239	186	233	170	0	128	68	0	9	0	0	0	0	0	0	0	22	1055
Cedar	0	0	0	0	0	0	0	0	0	0	48	178	0	0	0	0	0	0	226
Low-Density Trees	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Lowland Aspen/Balsam Poplar	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Shrub	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	33	0	13	0	0	0	0	0	0	46
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	184	148	0	0	0	0	0	0	332
Oak	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	40
Red Pine	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	28
Upland Mixed Forest	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Total	85	239	186	233	198	0	128	68	0	110	232	339	0	0	0	0	0	22	1839



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 15
Total Compartment Acres: 1,837

Commercial Harvest - 299
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshory Removal	Salvage	Other	Total Acres
Aspen	115	0	0	0	0	0	0	0	0	115
Northern Hardwood	0	0	0	0	0	184	0	0	0	184
Total	115	0	0	0	0	184	0	0	0	299

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	299	0	0	0	0	0	0	0	0	299
Next Step	0	0	0	0	0	0	115	0	0	115
Total	299	0	0	0	0	0	115	0	0	414



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat
											Cut

Proposed Treatments:

10	12015010-Cut	62.8	4130 - Aspen	Sawtimber Well	62	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems 2" and greater. White pine, red pine, oak will be retained in addition to retention on far north. Leave small submerchantable clumps of conifer where available.</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> maple, mixed conifer, mixed hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
11	12015011-Cut	9.4	4119 - Mixed Northern Hardwoods	Poletimber Well	98	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to 70-80 BA following the Compleat Marker. Remove basswood in larger pockets to permit stump sprout. Do not cut red oak, white pine, red pine. Retain all submerchantable conifer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed hardwood, mixed softwood, mixed aspen</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
12	12015012-Cut	174.8	4110 - Sugar Maple Association	Poletimber Well	98	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin to 70-80 BA following the Compleat Marker. Remove basswood in larger pockets to permit stump sprout. Do not cut red oak, white pine, red pine. Retain all submerchantable conifer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed aspen, mixed hardwood, mixed softwood</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
21	12015021-Cut	16.4	4130 - Aspen	Poletimber Well	57	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all stems 2" and greater except cedar, white pine, red pine, oak if found. Green tree a few maple for den trees. Retention is all along the river buffer.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed hardwood, mixed aspen, mixed conifer</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
24 12015024-Cut	35.7	4134 - Aspen, Spruce/Fir	Poletimber Well	50	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all stems 2" and greater except white pine, red pine, oak (if found). Clumps of live submerchantable conifer will be retained, as available.</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 hardwood, mixed softwood, aspen</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

Total Treatment 299.1
Acreage Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Deb Goupell : Examiner

Compartment: 15
 Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions								
		With Condition			4A	5B	5C	1C	3J	3L	5A	5E	
1054	940	35		79	Aspen		16	18	34	10	0		35
226	155	0		71	Cedar					19		48	4
25	25	0		0	Low-Density Trees						0		
18	15	0		3	Lowland Aspen/Balsam Poplar								3
60	58	0		2	Lowland Shrub						2		
46	0	0		46	Lowland Spruce/Fir						46		
332	332	0		0	Northern Hardwood								
40	0	40		0	Oak	40							
28	0	28		0	Red Pine			28					
9	4	0		5	Upland Mixed Forest								5
1,837	1,529	102		205	Total Forested Acres	40	16	46	34	28	48	48	47
	83%	6%		11%	Relative Percent								

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3L: Other wildlife concerns	33	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: stream headwaters in here							
3	Available	5B: Maintain for regeneration purposes	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Managing for understory maple							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 15

Year of Entry: 2025

4	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3L: Other wildlife concerns	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Red pine will likely be final harvested next entry							
8	Unavailable	1C: Other dept or div proc/practices	34	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: WLD requested this stand be cut in half for harvest							
9	Unavailable	5E: Long-Term Retention	13	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 15

Year of Entry: 2025

11	Unavailable	5E: Long-Term Retention	19	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	4A: No Markets Available for these Forest Products	40	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: not sure why this needs a site condition. It is an oak seed tree cut by private prior to the state obtaining it.							
14	Unavailable	5A: Not able to obtain desirable regeneration	48	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
1	4133 - Aspen, Mixed Pine	Sapling Well	98.6	16	Unspecified	N/A	Floodwood Tee TS cut 2007; White pine, red pine, red oak overstory.																																																			
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>5</td> <td>Log/XLog/Pole</td> <td>16</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>10</td> <td>Log/Pole</td> <td>15</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>XLog/Log</td> <td>16</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>60</td> <td>Sapling</td> <td>2</td> <td>16</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	5	Log/XLog/Pole	16		Red Pine	10	Log/Pole	15		Jack Pine	5	Sapling	2		Red Maple	10	Sapling	2		Red Oak	5	XLog/Log	16		Balsam Fir	5	Sapling	2		Quaking Aspen	60	Sapling	2	16	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Seeding</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling	Red Oak	Medium	5 - 10 feet	Seeding			
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2	6122 - Black Spruce	Poletimber Well	32.7	80	Unspecified	N/A	Likely a stream through this stand																																																			
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3	4130 - Aspen	Sapling Well	38.2	8	Immature	N/A	Stand cut Jan 2016, Sidehill Seep TS. Some red oak saplings are getting established, especially along the road																																																			
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4	4131 - Aspen, Oak	Sapling Well	37.7	14	1-50	N/A	Pockets of pole and log sized red pine and oak. Formerly in Comp 9. Dukes Aspen TS cut 2009																																																			
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5	4136 - Aspen, Mixed Conifer	Sapling Well	142.1	25	Unspecified	N/A	Friendly Chipmunk TS cut 1998; Red pin seedlings along ELF line. Some birch coming along road. Red pine regenerating along trails/roads. Very diverse stand, some cherry, red maple, white pine. 4 acre pocket of red pine along private in west/southwest of stand.																																																			
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6	330 - Low-Density Trees	Nonstocked	18.3		Unspecified	No	some aspen, conifer and cherry are filling in, particularly to the north																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
7	4130 - Aspen	Poletimber Well	141.6	38	Unspecified	N/A	Camp Swampy cut 1985; some red pine seedlings along road																																																	
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8	6220 - Alder/willow	Nonstocked	4.1	0	Unspecified	No	Camp Swampy cut 1985; some red pine seedlings along road																																																	
9	6120 - Lowland Cedar	Poletimber Well	47.9	96	Unspecified	N/A	fairly small diameters, diverse, multi storied																																																	
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10	4130 - Aspen	Sawtimber Well	67.9	62	Unspecified	N/A	Much conifer dead on ground. Stand breaking up; blowdown, tops out. Wetter on far north tip																																																	
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11	4119 - Mixed Northern Hardwoods	Poletimber Well	9.4	98	81-110	N/A	Low quality stand, multi-stemmed, knotty, bumpy trees.																																																	
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12	4110 - Sugar Maple Association	Poletimber Well	174.8	98	111-140	N/A	C-15 Contract Hardwood TS, cut 2006-2008. Trace white birch mostly on south edge but those are dying out. total of 21 BA plots: avg = 120 BA																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13	4130 - Aspen	Poletimber Well	28.4	35	Immature	N/A	Camp Swampy TS cut 1987
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	70	Pole	7	35	Red Maple	Medium	10 - 20 feet	Sapling
Balsam Fir	5	Pole/Sapling	5		Sugar Maple	Low	10 - 20 feet	Sapling
Red Oak	10	XLog/Log	16		Red Oak	Medium	< 5 feet	Seeding
Red Maple	15	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
					Hazelnut (American)	High	< 5 feet	Tall Shrub

14	4130 - Aspen	Sapling Well	67.3	8	Immature	N/A	Sidehill Seep TS cut summer 2015. South and east lobes were birch now are mostly stump sprout red maple with some aspen. As expected all WB seed trees dead. Fully stocked stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	2	Log	14	
Sugar Maple	3	Sapling	1	
Red Oak	5	Log	14	
Red Maple	20	Sapling	1	
Quaking Aspen	65	Sapling	1	8
White Pine	5	XLog/Log	16	

15	4130 - Aspen	Sapling Well	66.6	8	Immature	N/A	Sidehill Seep TS cut 2015. Well stocked. Good diversity with some white pine/red pine seeding in. There was a low east/west swale of tamarack that was cut and now absorbed into this stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Log/Pole	12		White Pine	Low	Variable	Sapling
Red Oak	10	Log	14		Balsam Fir	Medium	Variable	Sapling
White Spruce	5	Pole/Sapling	7		Red Pine	Low	5 - 10 feet	Sapling
Balsam Fir	5	Sapling/Pole	4		Red Oak	Low	5 - 10 feet	Sapling
Quaking Aspen	75	Sapling	1	8				

16	4139 - Aspen, Mixed Deciduous	Sawtimber Well	22.2	84	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	5	Log/Pole	12	
Red Maple	20	Log/Pole	11	
Paper Birch	15	Log/Pole	12	
Red Oak	10	Log/Pole	14	
Quaking Aspen	50	Log/Pole	12	84

17	4311 - Pine, Aspen Mix	Poletimber Medium	9.0	36	Unspecified	N/A	aspen clone in far west within 300 feet of Schwartz Creek; Much SBW mortality. Clump of nice red pine log in southwest
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Pole	7	36	Red Pine	Low	< 5 feet	Seeding
Balsam Fir	30	Pole/Sapling	6	36				
Red Pine	15	Pole	6					
White Pine	5	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
18	6120 - Lowland Cedar	Sawtimber Well	177.8	104	Unspecified	N/A	Many seeps in here. Birch/maple heavier along upland transitions																																						
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19	4130 - Aspen	Sapling Well	90.9	25	Immature	N/A	Hill & Dale TS, cut 1997. Conifer overstory heavier in far southeast lobe. Red pine seedlings in landings																																						
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20	6112 - Lowland Aspen	Poletimber Medium	18.5	32	Immature	N/A	Trickle Sale, cut 1990. Seepy throughout. East lobe is tag, lowland, some BF; old beaver activity on one of the seeps.																																						
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21	4130 - Aspen	Poletimber Well	23.0	57	Unspecified	N/A	90% of conifer is dead, especially on south edge along river.																																						
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22	4130 - Aspen	Poletimber Well	16.4	57	Unspecified	N/A	A lot of sugar maple saplings; may be ideal stand to allow aspen to fall out and recruit maple. Discussing with WLD, this may be an ideal "tail" of mature aspen until it falls out and becomes M3.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
23	4111 - S.Maple, Hard Mast Association	Sawtimber Well	119.0	101	81-110	N/A	C-15 Contract Hwd, cut 2006-2008. Understory in east half has more leatherwood; central and west heavy to hazel/raspberry/ironwood. White spruce scattered understory, some red oak seedlings/saplings along road. 14 plots = avg BA 115.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		40	Log	14	101	Red Oak	Low	Variable	Sapling
Red Oak		15	Log/XLog	16		White Spruce	Low	Variable	Sapling
Sugar Maple		35	Pole	9		Ironwood	Full	Variable	Sapling
Quaking Aspen		10	Log/Pole	12		Leatherwood	Low	< 5 feet	Tall Shrub
						Hazelnut (American)	Low	< 5 feet	Tall Shrub
						Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
24	4134 - Aspen, Spruce/Fir	Poletimber Well	70.0	50	Unspecified	N/A	Lots of rocks. Aspen to north has smaller diameters with heavy hardwood understory. Nice to see some live conifer understory but much mortality as well. More conifer in southwest lobe. Stand looks good and could hold another entry if needed.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		70	Pole	9	50	Basswood	Low	10 - 20 feet	Sapling
Balsam Fir		10	Pole	8		Hazelnut (American)	High	< 5 feet	Tall Shrub
White Spruce		15	Pole	7		Sugar Maple	Medium	10 - 20 feet	Sapling
Red Oak		5	Log	14		Leatherwood	Low	< 5 feet	Tall Shrub
25	4130 - Aspen	Sapling Well	53.2	8	Immature	N/A	Lonely Snow TS cut 2015		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		10	Sapling	1					
Quaking Aspen		90	Sapling	1	8				
26	4134 - Aspen, Spruce/Fir	Sawtimber Well	8.8	80	Unspecified	N/A	Retention for stand 25		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		10	Pole	9		Balsam Fir	High	Variable	Sapling
Quaking Aspen		70	Log/Pole	10	80	White Spruce	High	Variable	Sapling
Balsam Fir		10	Pole	8					
White Spruce		10	Pole	9					
27	622 - Lowland Shrub	Nonstocked	55.6		Unspecified	No			
28	6122 - Black Spruce	Poletimber Well	13.1	105	Unspecified	N/A	Trace amounts of cedar.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		3	Pole	8					
Black Spruce		97	Pole	7	105				
29	4130 - Aspen	Sapling Well	49.4	16	201+	N/A	Jack Left TS, cut 2007. Trace amounts of red oak overstory.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		10	Sapling	2					
Quaking Aspen		85	Sapling	2	16				
Red Oak		5	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
30	4130 - Aspen	Poletimber Well	18.3	50	Unspecified	N/A	A few scattered oaks and trace amounts of jack pine, red pine, white pine. Appears healthy and will easily hold another entry.																																							
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31	42110 - Planted Red Pine	Sawtimber Well	15.3	86	81-110	N/A	Schwartz Ck Plantation TS, 2007. Trace amounts of red oak. Thinned in Lonely Snow TS 2015																																							
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33	4133 - Aspen, Mixed Pine	Sapling Well	13.3	8	Immature	N/A	Lonely Snow TS cut 2015. South/SW is where the red pine is concentrated.																																							
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34	42110 - Planted Red Pine	Sawtimber Well	12.3	86	81-110	N/A	Lonely Snow TS thinned 2015. Most stems have room to grow. Need to plan for next steps.																																							
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35	4123 - Red Oak	Sawtimber Poor	40.1	83	1-50	N/A	We acquired this forty in June 2022 through large land exchange. Stand was cut between 2018-2020 and ages estimated. Likely to blend in well with stand 15, age wise.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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233 4111 - S.Maple, Hard Mast Association Sawtimber Medium 28.6 101 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	35	Pole	9	
Red Oak	15	Log/XLog	16	
Quaking Aspen	10	Log/Pole	12	
Basswood	40	Log	14	101

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Low	Variable	Sapling
Ironwood	High	Variable	Sapling
Quaking Aspen	Low	Variable	Sapling
Hazelnut (American)	Medium	< 5 feet	Tall Shrub
White Spruce	Low	Variable	Sapling
Blackberry/Raspberry	High	< 5 feet	Tall Shrub
Leatherwood	High	< 5 feet	Tall Shrub

C-15 Contract Hwd, cut 2006-2008. Understory in east half has more leatherwood; central and west heavy to hazel/raspberry/ironwood. White spruce scattered understory, some red oak seedlings/saplings
This stand was separated for a research project to study NHW regeneration. Gaps were cut in 2018. No scarification/herbicide was performed on this cut. Regeneration survey will occur next summer by research team.