



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12190

Entry Year 2025

Acreage: 1,344

County Iron

Management Area: Way Dam Complex

Stand Examiner: Ed Rice

Legal Description:

T45N R31W sections 25, 26, 34, 35, 36

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. It will be difficult to begin balancing aspen age classes over the next several entry cycles due to past harvesting over the allowable cut. There is a minimal aspen acreage over 30 years of age. Get the hardwood stands on a 20 year alternating cutting cycle towards regulation. Protect the riparian areas and transition zones during management activity.

Soil and topography:

Soils are fairly complex through this compartment, through generally ranging from fine sandy loams to areas of muck soils. In areas with more rolling hills soils move to a sandy - stony type. The topography ranges from fairly steep rolling to flat and low swamp land and river bottom.

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

The compartment is fairly contiguous in state ownership with blocks of private land along several sides. Active forest management has occurred and will continue within and surrounding the compartment. Deer hunting by far dominates the recreational use patterns.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None identified

Watershed and Fisheries Considerations:

The Fence River (trout stream) runs through the western block of the compartment. Hickman Creek also runs through the compartment. No aspen management is scheduled during this entry. This compartment contains Hickman Creek, the Fence River, unnamed tributaries and wetlands. Hickman Creek and the Fence River are Designated Type 1 Trout Streams and 300' buffers are recommended in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope. For all non-designated trout streams, waterbodies and wetlands, they should include a 100' buffer.

Wildlife Habitat Considerations:

The compartment falls within deer obligate winter range. Deer and large amounts of deer sign was observed utilizing the compartment for winter range. Any stand containing a considerable conifer component was being used for winter cover. The lowland spruce stands along Hickman Creek and the Fence River are notably used as snow intercept and thermal cover. Lowland conifer stands should be maintained to continue to provide quality winter cover.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Precambrian Michigamme Formation subcrops below the glacial drift. There is not an economic use for these rocks. The Porter and Warner abandoned iron mines are located twelve miles to the southwest. Gravel pits are not located nearby and potential appears to be limited. There is no economic oil and gas production in the UP.

Vehicle Access:

Access overall is good. The Spot Lake Road is a semi improved woods road. Several unimproved woods roads lead into and throughout the compartment.

Survey Needs:

Recreational Facilities and Opportunities:

None identified

Fire Protection:

Due to the high percentage of aspen and hardwoods, this compartment has slight large fire potential. Any fire likely would be surface fire and could be controlled by direct attack. There are many woods roads throughout this area that may be used as fire lines. Access for fire suppression equipment is good. Water sources may be several miles away.

Additional Compartment Information:

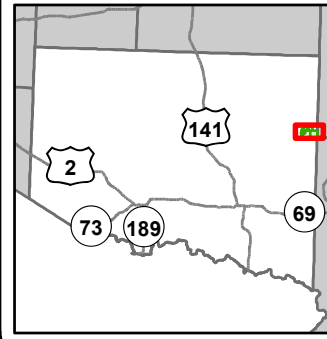
The following reports from the Inventory are attached:

- 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:

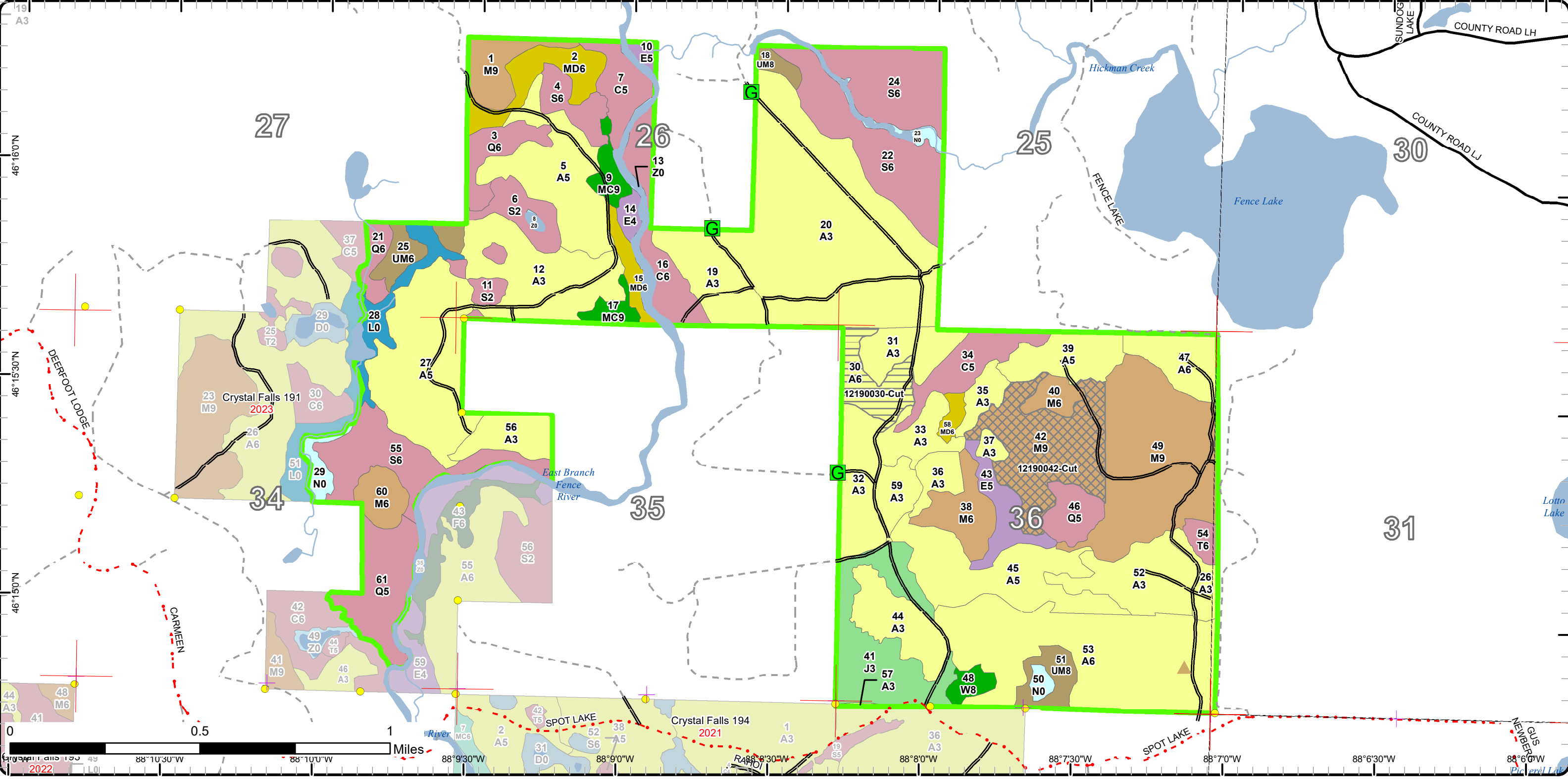
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



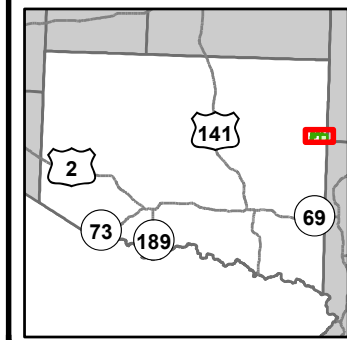
Compartment: 190
 T45N,R31W, Sec. 25-27, 34-36
 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Way Dam Complex
 YOE: 2025
 Acres: 1343.7 GIS Calculated
 Examiner: Ed Rice
 Map Revised: 8/1/2023
 Map Phase: Review

- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Berms
- Gate
- Lake/Pond
- Perennial River
- Swamp
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 500 - Water
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

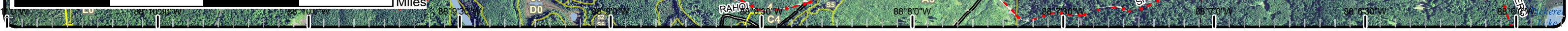
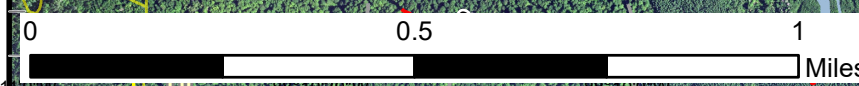
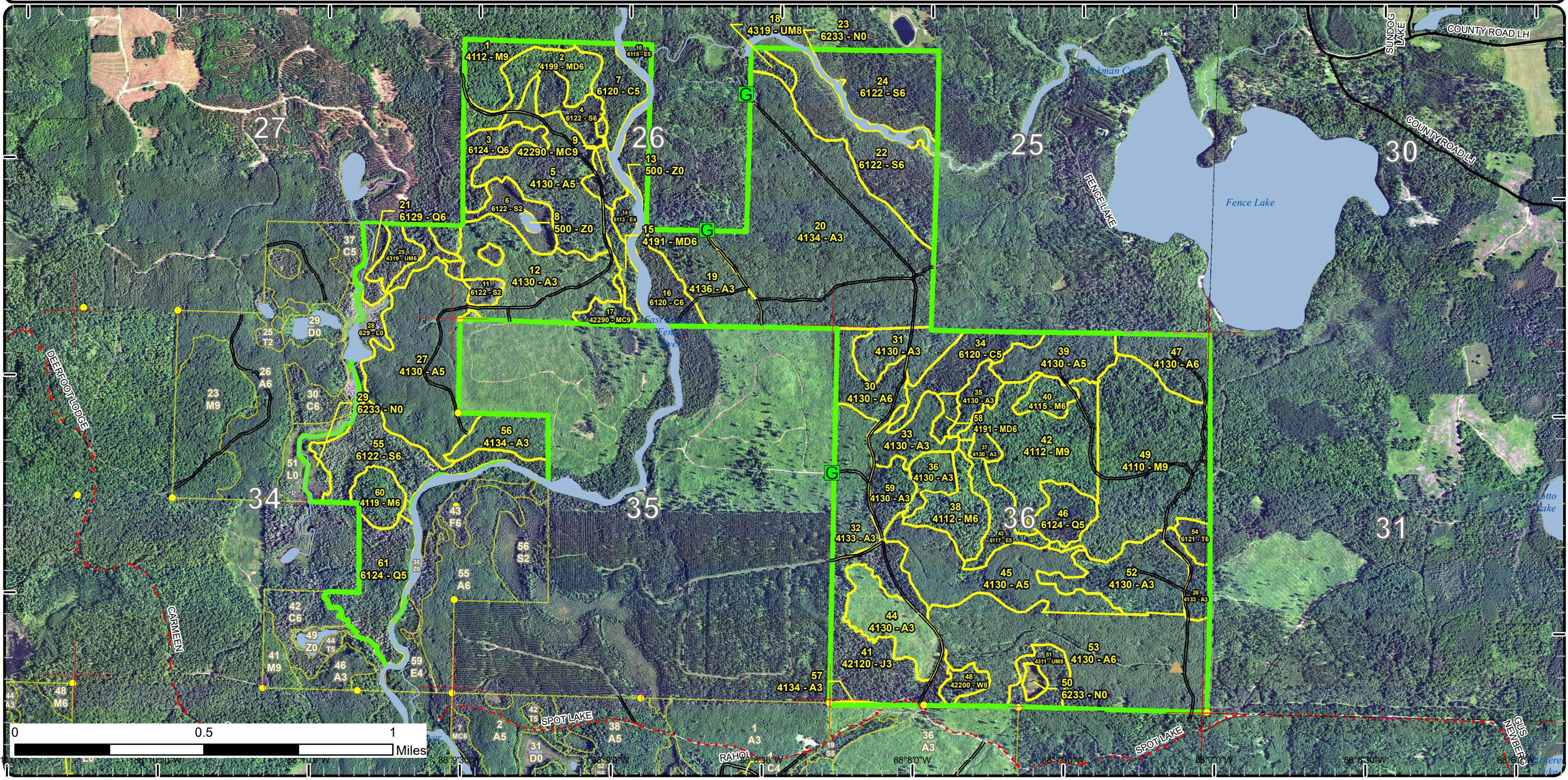


Stand Boundary Map

Compartment: 190
 T45N,R31W, Sec. 25-27, 34-36
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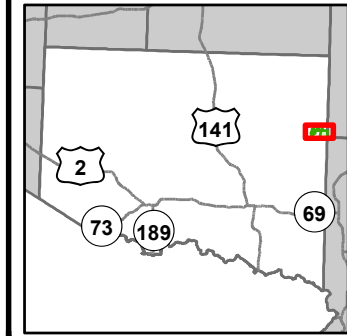


- Miris Corners
 - + Remonumented Section Corners
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 - Stand Boundaries
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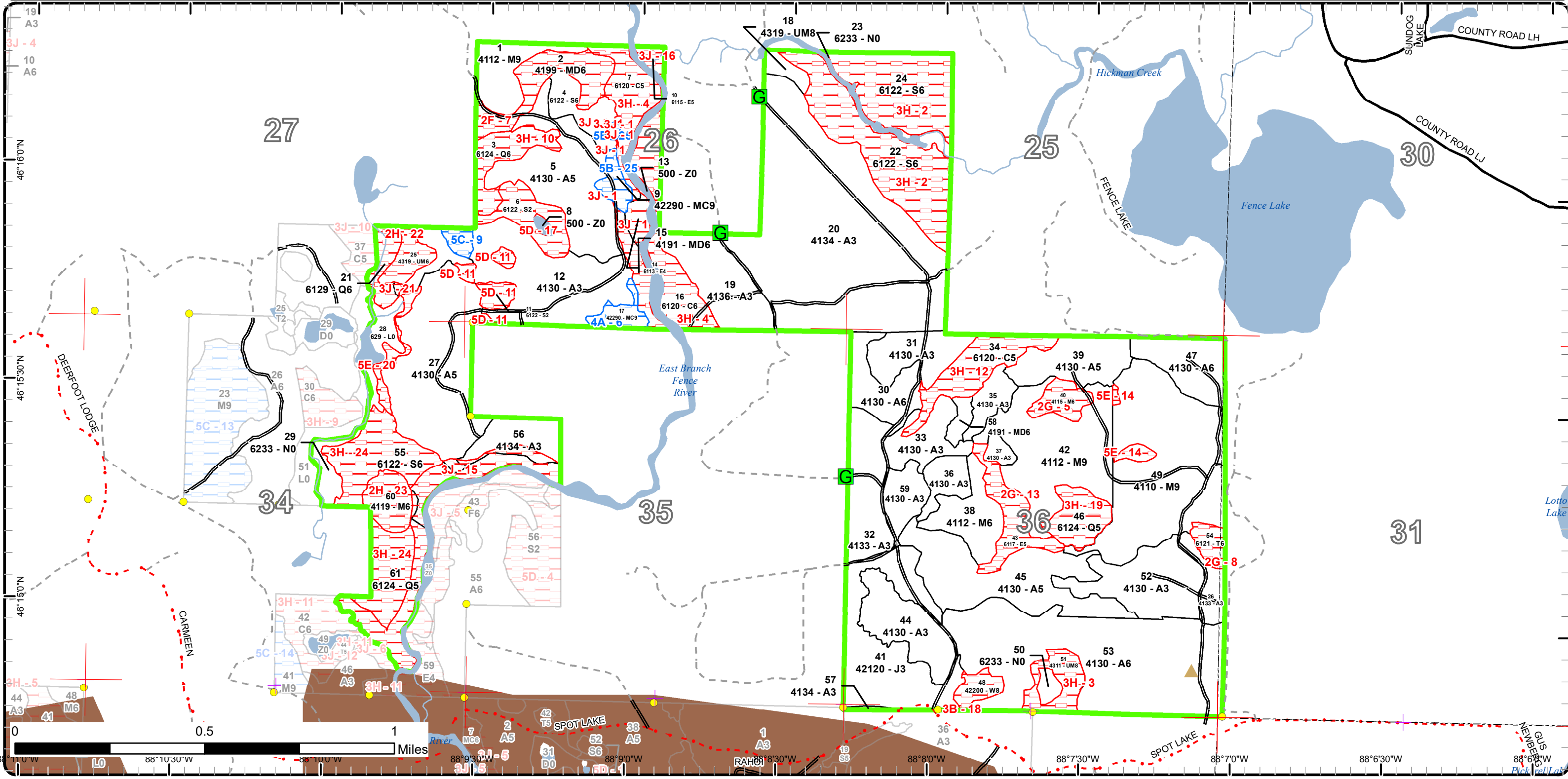


Special Conservation Areas

Compartment: 190
 T45N,R31W, Sec. 25-27, 34-36
 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Way Dam Complex
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- Miris Corners
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- Private - Dirt / Gravel Road
- Berms
- G Gate
- Lake/Pond
- Perennial River
- Swamp
- 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
- 2F: Too steep
- 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)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range



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+	Unseen-Aged	Total
Aspen	0	27	105	283	270	0	17	0	0	0	0	0	0	0	0	0	0	0	702
Cedar	0	0	0	0	0	0	0	0	19	0	23	15	0	0	0	0	0	0	57
Jack Pine	0	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Lowland Conifers	0	0	0	0	0	0	13	37	0	13	0	0	0	0	0	0	0	0	63
Lowland Deciduous	0	0	0	0	0	0	0	7	14	0	0	0	0	0	0	0	0	0	21
Lowland Shrub	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Spruce/Fir	0	0	0	0	0	20	0	82	0	44	0	0	0	0	0	0	0	0	146
Marsh	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	0	0	0	0	0	4	0	20	8	0	0	0	0	0	0	0	0	0	32
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	6	7	0	0	0	0	0	13
Northern Hardwood	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	175	186
Tamarack	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Upland Mixed Forest	0	0	0	0	0	0	0	11	10	4	0	0	0	0	0	0	0	0	25
Water	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
White Pine	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Total	44	72	105	283	270	24	30	168	56	61	23	27	7	0	0	0	0	175	1345



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 190
Total Compartment Acres: 1,344

Commercial Harvest - 68
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	17	0	0	0	0	0	0	0	0	17
Northern Hardwood	0	51	0	0	0	0	0	0	0	51
Total	17	51	0	0	0	0	0	0	0	68

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	68	0	0	0	0	0	0	0	0	68
Next Step	0	0	0	0	0	0	68	0	0	68
Total	68	0	0	0	0	0	68	0	0	137



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

30	12190030-Cut	17.4	4130 - Aspen	Poletimber Well	55	Unspec ified	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> cut merchantable aspen and cherry. cut spruce/fir 12" stump and larger. leave one cherry per cruise point where available. do not cut any other species other than listed above. protect conifer saplings and poletimber.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, spruce, fir</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
42	12190042-Cut	50.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	75	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> thin to 70 BA. keep all species and size classes in the stand - do not remove all of a species. protect advanced maple saplings/seedlings as much as possible. leave at least one large canopy maple per acre where available for seed source. Do not cut y birch, hemlock, pine, spruce/fir, or b ash. buffer vernal/low areas 100 feet. avoid thinning adjacent to hemlock that could potentially cause damage</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> N hardwood</p> <p><u>Other Comment:</u> 2025: r maple has prevalent defect. southern peninsula is a vernal area holding upland cedar. stand 100 BA 2015: r maple with fair quality sawtimber areas of M3 in small pockets. Hemlock scattered through and in small groves</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

Total Treatment 68.3
Acreage Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Compartment: 190

Ed Rice : Examiner

Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
694	967	15	362
72%	72%	1%	27%

Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions										
					4A	5B	5C	2F	2G	2H	3B	3H	3J	5D	5E
702	694	0	8	Aspen	0			0				0	4		5
57	0	0	57	Cedar				0				57			
45	45	0	0	Jack Pine											
63	0	0	63	Lowland Conifers				0				42	21		
21	0	0	21	Lowland Deciduous					14				7		
16	16	0	0	Lowland Shrub											
146	12	0	134	Lowland Spruce/Fir								103	11	20	
15	15	0	0	Marsh											
31	4	0	28	Mixed Upland Deciduous				20					8		
13	0	12	1	Natural Mixed Pines	6	6							1		
186	165	0	21	Northern Hardwood					7	10			1		3
5	0	0	5	Tamarack					5						
25	4	3	18	Upland Mixed Forest			3			7		10	0		
13	13	0	0	Water											
5	0	0	5	White Pine							5				
1,344	967	15	362	Total Forested Acres	6	6	3	20	27	18	5	212	53	20	7
	72%	1%	27%	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	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	79	Unspecified	Unspecified	Unspecified	Unspecified
Comments: lowland b spruce - no SBW							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 190

Year of Entry: 2025

3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	10	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: very little aspen remaining in stand due to windthrow several years ago. very slight amount of pine. stand left in past harvest as buffer to small bog pond. currently acting as only thermal cover in the immediate area, heavily used by deer.							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	38	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: much of stand is a series a vernal ponds. also heavily used by moose as thermal cover							
6	Available	4A: No Markets Available for these Forest Products	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: as shown in the previous YOE adjacent pine sale, pine this remote and small volume is extremely difficult to attract interest							
7	Unavailable	2F: Too steep	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 190

Year of Entry: 2025

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: reevaluate when adjacent aspen stands mature							
10	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5D: Unproductive Forest Land	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: stunted b spruce							
12	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: lowland hardwoods							
14	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 190

Year of Entry: 2025

15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5D: Unproductive Forest Land	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3B: Threatened, endangered, and special concern species	6	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 190

Year of Entry: 2025

21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.9	75	51-80	N/A	2025: scattered supercanopy h maple 18"dbh. stand 80 BA			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	2015: good poletimber with scattered sawtimber 16 - 18"dbh.
	Sugar Maple	70	Pole/Log	9	75	Sugar Maple	Low	>20 feet	Sapling	
	Paper Birch	10	Pole/Log	9		White Spruce	Low	10 - 20 feet	Sapling	
	Red Maple	15	Pole	8		Balsam Fir	Low	10 - 20 feet	Sapling	
	Basswood	5	Pole	8		Ironwood	Medium	10 - 20 feet	Sapling	
2	4199 - Other Mixed Upland Deciduous	Poletimber Well	19.6	66	Unspecified	N/A	2025: scattered pockets of fir			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	2015: W birch stand along steep hillsides, timber transition from quality N hardwoods to aspen.
	Sugar Maple	10	Pole	8		White Spruce	Low	5 - 10 feet	Sapling	
	Red Maple	35	Pole	8		Balsam Fir	Medium	>20 feet	Pole	
	Paper Birch	55	Pole/Log	9	66					
3	6124 - Lowland Spruce-Fir	Poletimber Well	13.3	81	Unspecified	N/A	fairly variable stand. B spruce 6 - 8" dbh 4 - 5 sticks tall and tamarack 8 - 12" dbh 6 - 7 sticks tall. Tag alder/swamp grass inclusion in NE of stand along with scattered j pine among b spruce in adjacent slightly higher ground. Inclusions of steep, high ground ridges with w birch and w spruce poletimber.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Paper Birch	15	Pole	8	65	Balsam Fir	Low	5 - 10 feet	Sapling	
	Quaking Aspen	5	Log/Pole	11		White Spruce	Low	10 - 20 feet	Sapling	
	White Spruce	15	Pole	8						
	Black Spruce	35	Pole	7	81					
	Tamarack	30	Pole/Log	10						
4	6122 - Black Spruce	Poletimber Well	11.9	60	Unspecified	N/A	highly stocked S6 3 - 6" dbh. N section of stand slightly larger dbh notably as the site quality increases in transition to higher ground.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Bigtooth Aspen	2	Pole	8		Black Spruce	Low	< 5 feet	Sapling	
	Northern White Cedar	3	Pole	8						
	Black Spruce	75	Pole/Sapling	5	60					
	Tamarack	20	Pole/Sapling	4						
5	4130 - Aspen	Poletimber Medium	43.6	23	Unspecified	N/A	2025: aspen just moving into poletimber size class, still high stocking of sapling. A5A3 2015: associated w spruce scattered throughout. R pine and w pine also throughout, heavier components on S end			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Red Pine	5	Log	14		White Spruce	Low	< 5 feet	Sapling	
	Quaking Aspen	85	Pole/Sapling	5	23	Quaking Aspen	High	>20 feet	Sapling	
	White Spruce	10	Sapling/Pole	4		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub	
6	6122 - Black Spruce	Sapling Medium	13.2	44	Unspecified	N/A	edges of stand hold better quality b spruce and tamarack poletimber but quickly transitions (within 20 - 30 feet) to b spruce saplings			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Black Spruce	70	Sapling/Pole	3	44	Black Spruce	Medium	5 - 10 feet	Sapling	
	Tamarack	30	Sapling/Pole	3						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
7	6120 - Lowland Cedar	Poletimber Medium	14.9	105	Unspecified	N/A	cedar 8 - 18" dbh with widely scattered large w pine and y birch poletimber. small, narrow high ground ridge inclusion holding submerch fir, w birch poletimber and large w pine. B ash saplings 1 - 2" dbh prevalent along river																																
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9	42290 - Natural Mixed Pine	Sawtimber Well	7.2	111	81-110	N/A	2025: fair to good w pine sapling/seedling recruitment from previous thinning 2015: good form on large w pine and r pine 14 - 22" dbh. associated w birch - tops are breaking up. cut in summer 2019																																
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10	6115 - Lowland Ash	Poletimber Medium	2.8	60	Unspecified	N/A	heavy b ash sapling understory																																
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11	6122 - Black Spruce	Sapling Medium	7.2	44	Unspecified	N/A	good b spruce and tamarack adjacent to uplands for 40 - 50' then transitions to younger timber on a lower quality site. b spruce 12 - 15' tall 1 - 2" dbh. widely scattered large w pine																																
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12	4130 - Aspen	Sapling Well	46.9	17	Unspecified	N/A	aspen 1-4" dbh, 12 - 16' tall, good regen throughout. NW of stand has large diameter w pine/r pine 12 - 28" dbh inclusion. small 1 - 2 acre b spruce/tamarack lowland inclusion. scattered r pine throughout																																
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14	6113 - Lowland Maple	Poletimber Poor	4.2	62	Unspecified	N/A	low quality r maple along Fence R floodplain																																
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15	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.0	72	51-80	N/A	from mid point of stand and S is heavier to w birch and spruce. widely scattered r pine and w pine. stand lies along high bank sloping to river																																						
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18	4319 - Mixed Upland Forest	Sawtimber Medium	4.1	81	51-80	N/A	top die back prevalent in w birch. E end of stand heavier to spruce/fir saplings/small poletimber.																																						
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19	4136 - Aspen, Mixed Conifer	Sapling Well	26.6	28	Unspecified	N/A	aspen 16 - 25' tall. NW of stand has inclusion of larg w pine 16 - 30" dbh along with very good w pine seedling establishment. scattered w pine and r pine throughout the stand																																						
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20	4134 - Aspen, Spruce/Fir	Sapling Well	147.6	32	Unspecified	N/A	aspen 25 - 30' tall 2 - 3" dbh. good amounts of spruce/fir small poletimber mixed throughout with pockets of thicker spruce/fir. very good mix of cover with aspen and mix softwood. heavy deer usage in 2013																																						
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21	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	7.0	60	Unspecified	N/A																																										
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22	6122 - Black Spruce	Poletimber Well	44.2	82	Unspecified	N/A	b spruce 4 - 8" dbh, tamarack 4 - 8" dbh small areas of windthrow creating 20 - 30' openings have good b spruce regen 8 - 12' tall. center part of stand has areas of younger, smaller poletimber (b spruce 60 yrs). 1 - 2 acre S3 T3 inclusion in SE center of stand. heavy sphagnum																																									
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23	6233 - Wet Meadow	Nonstocked	6.2		Unspecified	No	Hickman Creek drainage. series of old beaver meadows, some areas of marginal water or creek flow																																									
24	6122 - Black Spruce	Poletimber Well	35.1	67	Unspecified	N/A	b spruce 3 - 6" dbh 3 - 4 sticks tall with scattered older 9 - 10"dbh spruce (70 yrs old). NE of stand is younger and lower quality 2 - 4" b spruce - short, open grown S3 S4. small high ground ridge running NNW to SSE through center of stand with fir saplings 10 - 20' tall and associated w spruce poletimber F3 F4. scattered cedar																																									
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25	4319 - Mixed Upland Forest	Poletimber Well	10.7	60	51-80	N/A	isolated stand with drainages and creek along its perimeter. scattered low areas																																									
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26	4133 - Aspen, Mixed Pine	Sapling Well	8.0	5	Immature	N/A	2015: S end of stand heavier to w pine, aspen regenerating cut in 2018																																									
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27	4130 - Aspen	Poletimber Medium	65.3	26	Unspecified	N/A	conifers mainly along road edges																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
28	629 - Mixed non-forested wetland	Nonstocked	15.7		Unspecified	No	open meadows, series of old beaver meadows. N end has component of b ash					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tamarack	Trace		Seeding	
								Black Spruce	Trace		Seeding	
29	6233 - Wet Meadow	Nonstocked	6.2	0	Unspecified	No	old beaver meadows					
30	4130 - Aspen	Poletimber Well	17.4	55	Unspecified	N/A	2025: quality of aspen shows it to be a pine site 2015: mainly a pure aspen stand, very little understory. pockets of spruce/fir along road edge					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	5	Pole	9	
								White Spruce	10	Pole/Sapling	6	
								Quaking Aspen	85	Pole/Log	9	55
Sub-Canopy Species	Density	Avg. Height	Size									
White Spruce	Medium	5 - 10 feet	Sapling									
Hazelnut (Spp.)	Medium	< 5 feet	Tall Shrub									
Balsam Fir	Medium	5 - 10 feet	Sapling									
31	4130 - Aspen	Sapling Well	17.9	25	Unspecified	N/A	Aspen 2-5" dbh. scattered, small openings throughout the stand where spruce/fir was predominate in past cut.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Spruce	5	Pole	6	
								Red Maple	10	Sapling	2	
								Quaking Aspen	85	Sapling	3	25
Sub-Canopy Species	Density	Avg. Height	Size									
White Spruce	Low	< 5 feet	Tall Shrub									
Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub									
32	4133 - Aspen, Mixed Pine	Sapling Well	25.0	15	Unspecified	N/A	aspen saplings 8 - 10' tall. S end of stand heavier to r pine overstory with A3 from cut.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	5	Log	16	
								Quaking Aspen	70	Sapling	1	15
								Red Pine	20	Log	14	65
White Spruce	5	Sapling	2									
33	4130 - Aspen	Sapling Well	14.8	25	Unspecified	N/A	2025: aspen 2-6" dbh A3A5 2015: associated spruce/fir 20 - 25' tall					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	5	XLog	20	
								Paper Birch	5	Sapling/Pole	4	
								Red Maple	10	Sapling	2	
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								Hazelnut (Beaked)	High	< 5 feet	Tall Shrub	
34	6120 - Lowland Cedar	Poletimber Medium	19.0	75	Unspecified	N/A	fair to good quality b spruce and tamarack poletimber adjacent to uplands but transitions quickly to heavy tag alder, cedar, spruce/fir saplings.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern White Cedar	70	Pole/Log	9	75
								Black Spruce	20	Pole	7	
								Tamarack	10	Pole	7	
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35	4130 - Aspen	Sapling Well	8.1	6	Immature	N/A	2015: cut under Wispy Spruce 1207615 in winter of 2018. aspen regen with scattered fir																																																			
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38	4112 - Maple, Beech, Cherry Association	Poletimber Well	17.9	77	51-80	N/A	2025: scattered large w pine 28" dbh. good recruitment of h maple saplings/small poletimber 2-3" dbh. stand 80 BA 2015: low quality r maple, fair to good form on h maple. scattered areas of hazel with the W end of stand having lower stocking levels and a higher prevalence of ironwood saplings. fir saplings throughout with widely scattered w birch.																																																			
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39	4130 - Aspen	Poletimber Medium	21.4	25	Unspecified	N/A	2025: stand is just moving into poletimber size class, 4-5" dbh aspen. A5A3 2015: widely scattered 4 stick aspen among saplings. large w spruce was left from previous cut - not showing SBW. small pocket of b cherry in W end.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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40	4115 - Y.Birch, Hemlock NH	Poletimber Well	7.4	75	81-110	N/A	2025:interior of the stand is spruce/fir/y birch inclusion - heavily used by moose as shelter. much of the stand is a vernal area. no winter deer 2015: poor r maple poletimber with sawtimber size trees of pulp quality. scattered w birch and aspen. pockets of interior areas heavier to fir. this is a low quality stand that will never produce sawtimber. good deer usage 2/12/13
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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	5	Log	18	
Yellow Birch	15	Pole/Log	9	
Hemlock	5	Log	16	
Red Maple	60	Log/Pole	10	75
Sugar Maple	5	Pole	7	
White Pine	5	XLog	24	
White Spruce	5	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	10 - 20 feet	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling

41	42120 - Planted Jack Pine	Sapling Well	44.9	3	Immature	N/A	2025: j pine planting was successful - 2' tall 2015: Stand cut in 2016 under Wispy Spruce 1207615. JP planted - 906 TPA density mid May 2020
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	90	Sapling	1	3
Balsam Fir	5	Sapling	2	
Black Spruce	5	Sapling	2	

42	4112 - Maple, Beech, Cherry Association	Sawtimber Well	50.9	75	81-110	N/A	2025: r maple has prevalent defect. southern peninsula is a vernal area holding upland cedar. stand 100 BA 2015: r maple with fair quality sawtimber areas of M3 in small pockets. Hemlock scattered through and in small groves
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Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5	Pole/Log	10	
Black Cherry	5	Pole/Log	10	
Sugar Maple	45	Log/Pole	10	75
Hemlock	5	Log	14	
Red Maple	40	Log/Pole	11	75

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	>20 feet	Sapling
White Spruce	Low	10 - 20 feet	Sapling
Leatherwood	Low	< 5 feet	Tall Shrub

43	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	14.2	77	81-110	N/A	portions of stand are a mix of upland and lowland that have been thinned through heavily in past management - pockets of swamp grass prevalent, b ash regen present with other areas of stand showing little growth or regeneration response from past cut. S end of stand is heavier to b ash and cedar
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Pole	6	
Red Maple	30	Pole	8	77
Black Ash	20	Pole	4	
Yellow Birch	30	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Hazelnut (Beaked)	High	< 5 feet	Tall Shrub
Black Ash	High	10 - 20 feet	Sapling

44	4130 - Aspen	Sapling Well	23.4	10	Immature	N/A	widely scattered r pine
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	XLog	18	
Quaking Aspen	85	Sapling	1	10
Black Spruce	5	Sapling	3	
Jack Pine	5	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Hazelnut (Spp.)	Low	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
45	4130 - Aspen	Poletimber Medium	47.7	28	Unspecified	N/A	stand just moving into poletimber size class. A5A3. spruce/fir 3-7" dbh throughout																																														
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46	6124 - Lowland Spruce-Fir	Poletimber Medium	12.7	52	Unspecified	N/A	edges of stand have mix of hemlock, r maple, fir, b spruce. interior of stand progress to higher stocking of b spruce small poletimber and saplings																																														
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47	4130 - Aspen	Poletimber Well	19.6	34	Unspecified	N/A	2025: small inclusion with 2-3" dbh aspen. component of 9-10" aspen 2015: aspen 2 - 3 sticks tall with submerchantable h maple 2 - 4" dbh. scattered spruce/fir saplings throughout with pockets of higher stocking																																														
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48	42200 - Natural White Pine	Sawtimber Medium	5.5	102	81-110	N/A	good w pine sawtimber - fairly clear, straight boles. widely scattered r pine sawtimber throughout. windthrow at edges of stand from several years ago.																																														
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49	4110 - Sugar Maple Association	Sawtimber Well	82.5	75	51-80	N/A	2025: very scattered h maple saplings from previous cut 2015: fair to good h maple sawtimber in areas 12 - 18"dbh. areas of stand heavier to r maple of fair to poor quality. eutypella present. light raspberry and b cherry brush in more open areas from previous thinning. pockets of well established M3. small lowland conifer inclusions with cedar, fir and tag alder. scattered hemlock																																														
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50	6233 - Wet Meadow	Nonstocked	2.8		Unspecified	No	open leatherleaf marsh - seasonally flooded																																														



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51	4311 - Pine, Aspen Mix	Sawtimber Medium	10.4	72	1-50	N/A	heavy windthrow on aspen from several years ago - most of aspen is down. variable stand with small well stocked areas of r pine/w pine to more open areas with aspen windthrow and hazel.																																										
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52	4130 - Aspen	Sapling Well	30.9	26	Unspecified	N/A	aspen saplings with pockets of aspen poletimber 5 - 6 sticks tall (65yr old) throughout. scattered spruce/fir saplings and 1 stick trees																																										
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53	4130 - Aspen	Poletimber Well	99.8	33	Unspecified	N/A	2025: aspen 4-8" dbh with scattered 9-10" aspen at edges. pockets/inclusions of spruce/fir. stand is pine ground - aspen generally low quality 2015: aspen just beginning moving into 1 stick product class - A3 A4. scattered inclusions of w pine sawtimber 10 - 16" dbh with aspen sapling and hazel understory in those areas.																																										
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54	6121 - Tamarack	Poletimber Well	5.2	70	Unspecified	N/A	good b spruce and tamarack poletimber 3 - 8" dbh. fairly dense b spruce saplings 3 - 20' tall. S end of stand spruce and tamarack runs smaller in dbh																																										
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55	6122 - Black Spruce	Poletimber Well	34.8	60	51-80	N/A																																											
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56	4134 - Aspen, Spruce/Fir	Sapling Well	15.0	24	Unspecified	N/A	scattered 3-4 stick 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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57	4134 - Aspen, Spruce/Fir	Sapling Well	0.7	10	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		60	Sapling	2	10	Black Spruce	Full	5 - 10 feet	Sapling
Balsam Fir		40	Pole/Sapling	6		White Spruce	Full	5 - 10 feet	Sapling

58	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	3.7	45	51-80	N/A	mixed b ash, balm, small fir with tag alder. wet with interspersed rock ground		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		20	Pole	8		Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Poplar		10	Pole/Sapling	6	72	Tag Alder	Full	5 - 10 feet	Tall Shrub
White Pine		5	Log	16					
Black Ash		65	Pole/Sapling	5	45				

59	4130 - Aspen	Sapling Well	10.7	7	Immature	N/A	2025: aspen saplings regenerating with associated w birch residual poletimber 2015: good deer usage 2/11/13, adjacent stands to the N and S are currently being cut.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		5	Log	14			
Quaking Aspen		65	Sapling	1	7		
Paper Birch		25	Pole	8	55		
White Pine		5	Log	16			

60	4119 - Mixed Northern Hardwoods	Poletimber Well	10.9	65	81-110	N/A	island surrounded by lowland conifers		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		50	Pole/Log	8	65	Ironwood	Low	Variable	Seeding
Sugar Maple		25	Pole	9		Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir		10	Pole/Sapling	7					
Paper Birch		15	Pole	9					

61	6124 - Lowland Spruce-Fir	Poletimber Medium	30.4	60	Unspecified	N/A	areas throughout heavier tag alder		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		2	Log/Pole	10		Balsam Fir	Medium	Variable	Seeding
Tamarack		25	Pole	8		Black Spruce	Low	Variable	Seeding
Northern White Cedar		18	Pole/Log	10	97	Tag Alder	Low	Variable	Tall Shrub
Balsam Fir		20	Pole	7					
Black Spruce		35	Pole	7	60				