



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12152

Entry Year 2022

Acreage: 895

County Iron

Management Area: Panola Plains

Revision Date: 2020-10-19

Stand Examiner: Scott Sebero

Legal Description:

T43N, R31W, Sections 19 and 30.

Identified Planning Goals:

Our management goals in this compartment are to develop age class distribution in aspen types, maintain health of conifer types and increase acreage where possible.

Soil and topography:

Land is nearly level to hilly with a mix of Karlin and Vilas soils that are excessively drained to well-drained, loamy and sandy soils on ground moraines, end moraines and outwash plains. Some areas contain rock outcrops that may be 50 to 100 feet in height. Some narrow depressions contain Cathro soils that are poorly drained black muck.

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

Ownership patterns in this compartment consist mostly of State lands with some private parcels and a few year round residents. Lands in and around this compartment are used mainly for hunting and managed for forest products.

Unique Natural Features:

Kurkura Creek and Minnehaha Creek flow through this compartment.

Archeological, Historical, and Cultural Features:

None.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

Kukura Creek runs through the southern portion of the compartment and should have 100' buffers. There is also an unnamed trout stream in the northeast portion of the compartment.) and should have a 300' buffer for areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' buffer plus 5' per 1% increase in slope.

Wildlife Habitat Considerations:

This compartment is part of the east half of the Mansfield Cutoff Deeryard. This DWC has suffered extensive losses of thermal cover, largely due to spruce budworm and associated harvests. Heavy winter deer use of the all of the stands currently prescribed for harvest is evident and conservation of existing thermal cover stands is critical until the regenerating conifer component recovers and provide that component of the DWC. Movement corridors should remain intact throughout the compartment.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium sometimes thin to discontinuous over bedrock. The glacial drift thickness varies between 0 and 50 feet. The Precambrian Hemlock Formation subcrops below the glacial drift. The abandoned Crystal Falls iron mines are located six miles to the west. Parts of this compartment were previously leased for metallic exploration. The Randville Dolomite is quarried three miles to the east. The nearest gravel pit is four miles to the west, but potential appears to be limited. There is no economic oil and gas production in the UP.

Vehicle Access:

Vehicle access is from Mansfield Cutoff Road and associated trail roads.

Survey Needs:

None.

Recreational Facilities and Opportunities:

This area is used heavily by deer hunters as well as grouse and turkey hunters.

Fire Protection:

None.

Additional Compartment Information:

None.

The following reports from the Inventory are attached:

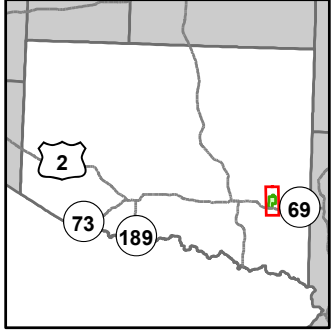
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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

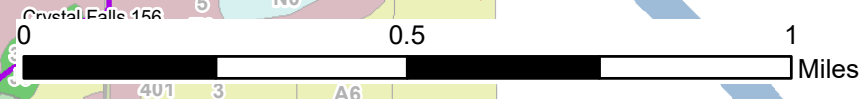
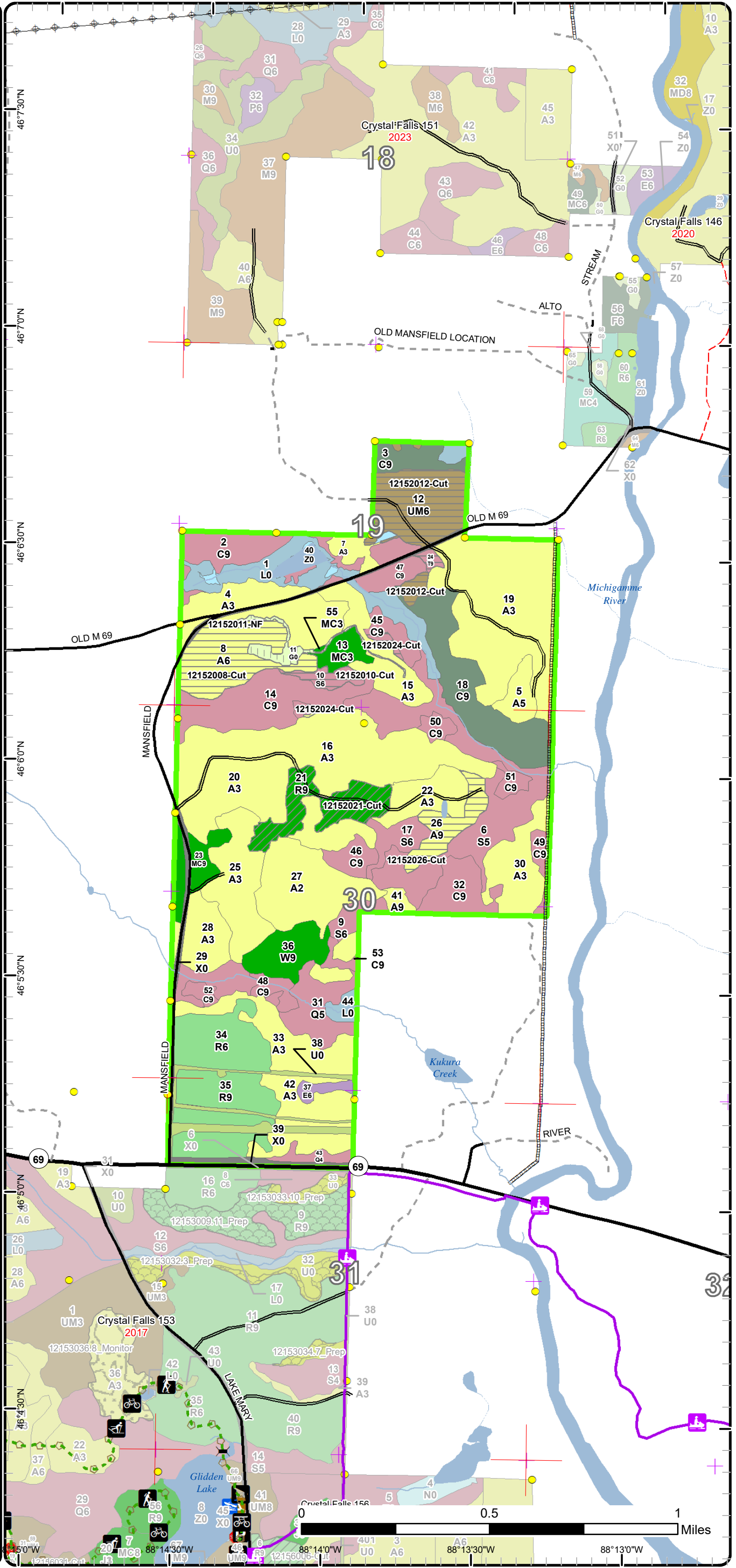
Base feature information, stand boundaries, cover types, and numbers
Proposed treatments
Site condition boundaries
Details on the road access system

Cover Type & Treatments Map

Compartment: 152
 T43N, R31W, Sec. 19, 30, 31
 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Panola Plains
 YOE: 2022
 Acres: 894.9 GIS Calculated
 Examiner: Scott Sebero
 Map Revised: 1/26/2021
 Map Phase: Post-Review



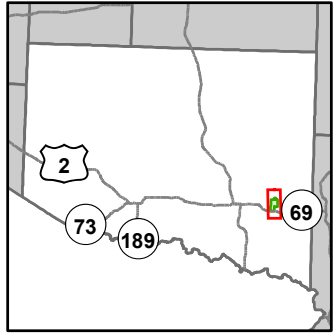
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Bike Trails
- Ski Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Toilet
- Boating Access Site
- Bridges
- Campground
- Parking Lot
- Sign
- Trailhead
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub



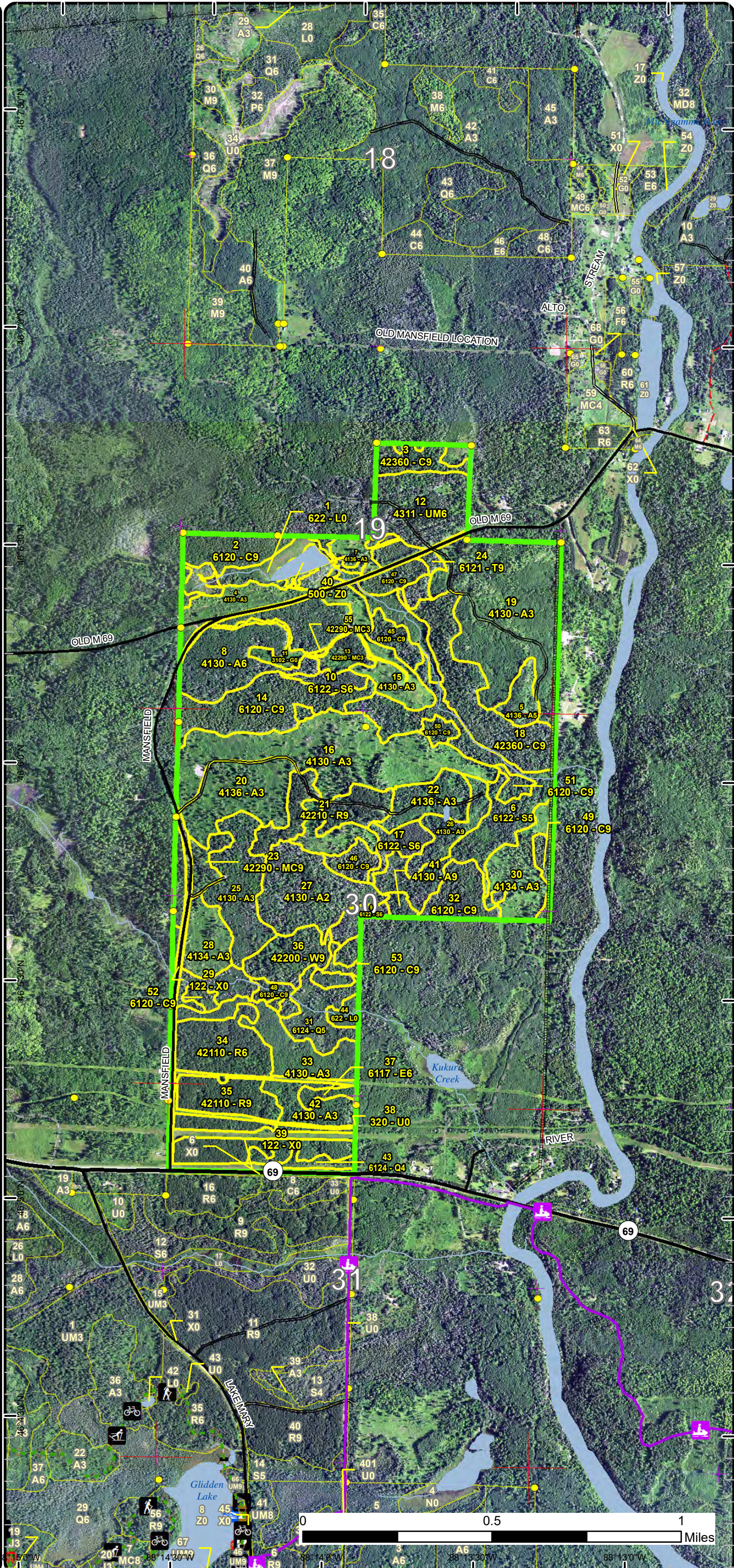
88°14'30"W 88°13'30"W 88°13'0"W
 46°50'N 46°43'30"N 46°40'N 46°33'30"N 46°30'N 46°23'30"N 46°20'N 46°13'30"N 46°10'N 46°3'30"N

Stand Boundary Map

Compartment: 152
 T43N, R31W, Sec. 19, 30, 31
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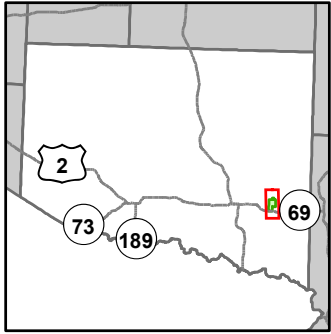


- Miris Corners
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- 🚲 Bike Trails
- 🏂 Ski Trails
- 🚙 Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Designated Snowmobile Trails
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- 🚤 Boating Access Site
- 🌉 Bridges
- 🏕️ Campground
- 🅑 Parking Lot
- 🛑 Sign
- * Trailhead
- Pipeline
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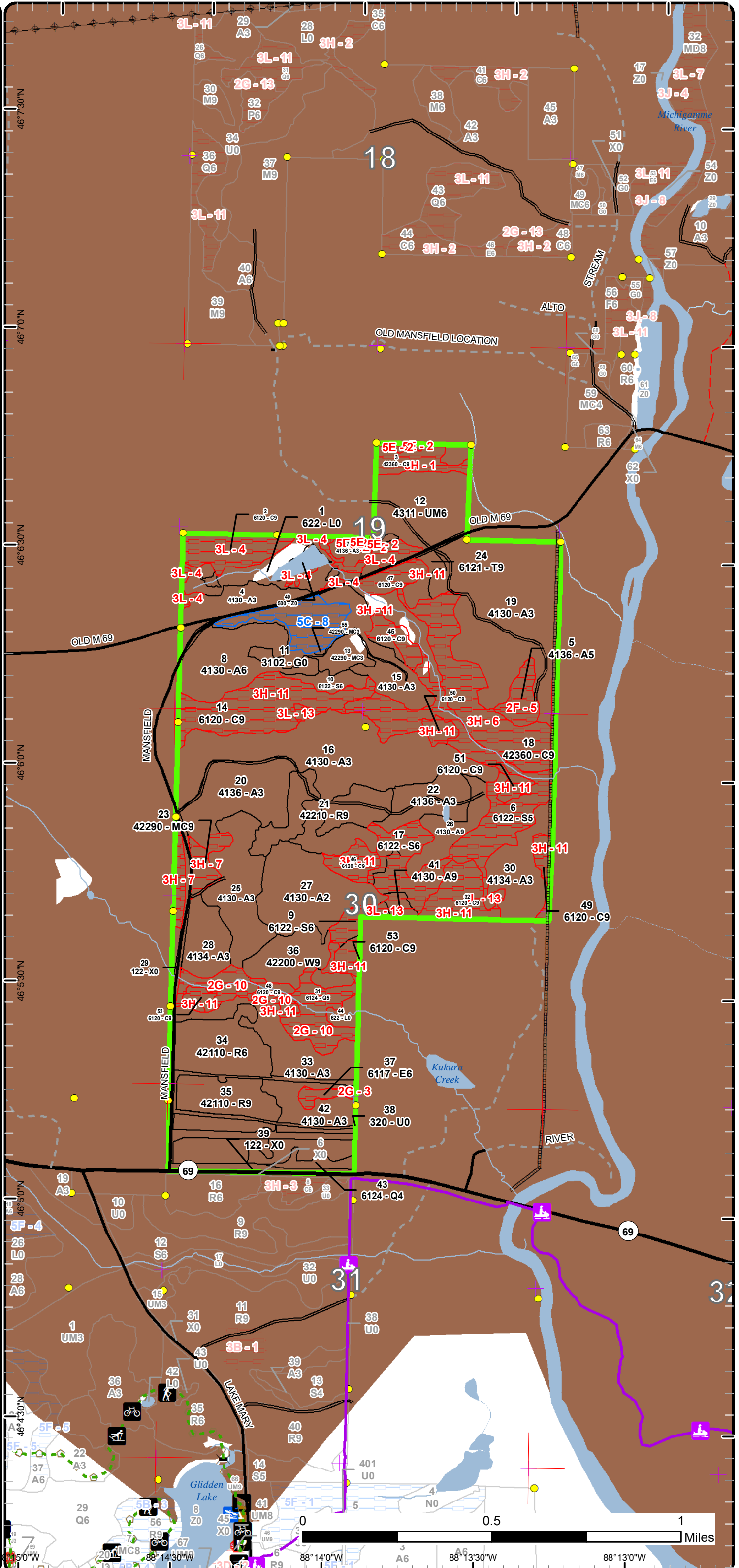


Special Conservation Areas

Compartment: 152
 T43N, R31W, Sec. 19, 30, 31
 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Panola Plains
 YOE: 2022
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- Bridges
- Campground
- Parking Lot
- Sign
- Trailhead
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3L: Other wildlife concerns
- 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+	Uneven-Aged	Total
Aspen	0	118	182	66	0	12	43	7	0	0	5	0	0	0	0	0	0	0	433
Cedar	0	0	0	0	0	0	0	0	0	0	150	0	0	0	0	0	0	0	150
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	0	0	0	0	0	4	0	25	0	0	0	0	0	0	0	28
Lowland Deciduous	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Lowland Shrub	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	67	0	0	0	0	0	0	0	67
Natural Mixed Pines	0	0	0	7	0	0	0	0	0	0	11	0	0	0	0	0	0	0	18
Red Pine	0	0	0	0	0	0	0	54	0	0	20	0	0	0	0	0	0	0	74
Tamarack	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	32
Upland Shrub	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Urban	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	15
Total	70	118	182	73	0	12	75	64	4	0	295	0	0	0	0	0	0	0	892



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2022

Compartment 152
Total Compartment Acres: 895

Acres of Harvest

Commercial Harvest - 100
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	40	0	0	0	0	0	0	0	0	40
Lowland Spruce/Fir	5	0	0	0	0	0	0	0	0	5
Red Pine	0	0	0	0	20	0	0	0	0	20
Tamarack	3	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	32	0	0	0	0	0	0	0	0	32
Total	80	0	0	0	20	0	0	0	0	100

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	100	0	0	0	0	0	0	5	0	105
Next Step	0	0	0	0	0	80	0	0	0	80
Total	100	0	0	0	0	80	0	5	0	185



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:

8	12152008-Cut	27.9	4130 - Aspen	Poletimber Well	51	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and mixed hardwood 2" DBH or greater, except cut no oak. Cut all spruce, balsam, tamarack and jack pine with two or more pulpwood stick. No red or white pine, cedar hemlock or oak will be cut. Leave black spruce edge.</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> Mix of aspen, spruce, balsam and pine.</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 /2021</p>											
10	12152010-Cut	4.9	6122 - Black Spruce	Poletimber Well	91	81-110	Harvest	Clearcut with Retention	6124 - Lowland Spruce-Fir	Even-Aged	No
<p><u>Prescription</u> Cut all spruce, balsam, tamarack, aspen and mixed hardwood, except oak, with two or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut. Leave black spruce edge.</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> Mix of spruce, balsam and tamarack.</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 /2021</p>											
11	12152011-NF	5.4	3102 - Grass	Nonstocked	0	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		No
<p><u>Prescription</u> Opening maintenance</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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> 5 /1 /2020</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
12 12152012-Cut	31.7	4311 - Pine, Aspen Mix	Poletimber Well	51	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all aspen and maple 2" or greater DBH. Cut all birch, balsam, spruce, tamarack and jack pine with two or more pulpwood sticks. Mark clumps of red pine to 50 BA. No cedar, hemlock, black ash, white pine or oak will be cut. Leave legacy red pine. Leave rock knob. Mark one aspen or cherry per acre as wildlife leave trees.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of aspen, jack pine and red pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
21 12152021-Cut	20.2	42210 - Natural Red Pine	Sawtimber Well	91	141-170	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Thin to 120 BA. Leave white pine and large diameter red pine. Leave leave hemlock, cedar, spruce and balsam. Leave one cherry or aspen per acre. Leave rock outcrop.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Mix of red and white pine.</p> <p><u>Other Comment:</u> DWC looking for 75% crown closure.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
24 12152024-Cut	3.1	6121 - Tamarack	Sawtimber Well	91	81-110	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all tamarack, aspen, maple, spruce and balsam with two or more pulpwood stick. No red or white pine, cedar, hemlock or oak will be cut.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of tamarack, spruce and balsam.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
26 12152026-Cut	12.0	4130 - Aspen	Sawtimber Well	47	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all aspen and mixed hardwood 2" DBH or greater, except cut no oak or paper birch. Cut all spruce, balsam, tamarack and jack pine with two or more pulpwood stick. No red or white pine, cedar hemlock, paper birch or oak will be cut. Save flagged wildlife trees. Leave one aspen, cherry or birch per acre.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of aspen, spruce, balsam and pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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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Total Treatment
Acreage Proposed: 105.2



Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions						
		With Condition				5C	2F	2G	3H	3L	5E	
434	407	15		12	Aspen	15	7				5	
150	1	0		149	Cedar				126		22	
5	5	0		0	Herbaceous Openland							
28	4	0		25	Lowland Conifers			25				
3	0	0		3	Lowland Deciduous			3				
30	30	0		0	Lowland Shrub							
67	5	0		62	Lowland Spruce/Fir						62	
18	7	0		11	Natural Mixed Pines				11			
75	75	0		0	Red Pine							
2	2	0		0	Tamarack							
32	32	0		1	Upland Mixed Forest							1
12	12	0		0	Upland Shrub							
18	18	0		0	Urban							
5	5	0		0	Water							
15	15	0		0	White Pine							
895	617	15		263	Total Forested Acres	15	7	28	137	90		1
	69%	2%		29%	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	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Scott Sebero : Examiner

Compartment: 152
 Year of Entry: 2022



3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3L: Other wildlife concerns	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer wintering area.							
5	Unavailable	2F: Too steep	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 152

Year of Entry: 2022



10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	82	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer wintering area.							
13	Unavailable	3L: Other wildlife concerns	68	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
Comments				

**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	622 - Lowland Shrub	Nonstocked	26.9		Unspecified	No	Beaver marsh.
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2	6120 - Lowland Cedar	Sawtimber Well	22.4	91	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Log/Pole	10		Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole	6		Black Spruce	Low	5 - 10 feet	Sapling
Black Spruce	15	Pole/Log/Sap	8		Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	70	Log/Pole	10	91				
Black Ash	5	Pole	6					

3	42360 - Upland Cedar	Sawtimber Well	9.2	91	51-80	N/A	Mostly upland with wet drain along southern edge. Some rock outcrops.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Log/Pole	10	91	Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	10	Pole/Sap/Log	8	91	Black Spruce	Low	5 - 10 feet	Sapling
Red Maple	5	Pole/Sap/Log	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	80	Log/Pole	10	91				

4	4130 - Aspen	Sapling Well	13.7	12	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	85	Sapling	2	12	Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	5	Sapling	2		Black Spruce	Low	5 - 10 feet	Sapling
Black Spruce	5	Sapling	2					
Northern White Cedar	5	Log/Pole	10	91				

5	4136 - Aspen, Mixed Conifer	Poletimber Medium	7.3	61	51-80	N/A	Steep rock hill with trees.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	55	Pole/Log	8	61	Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole/Sapling	6					
Black Spruce	5	Pole/Sap/Log	8					
Northern White Cedar	10	Log/Pole	10	91				
Red Pine	5	Log/Pole	14	91				
Red Maple	20	Pole/Sap/Log	8					

6	6122 - Black Spruce	Poletimber Medium	49.4	91	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	70	Pole/Log/Sap	8	91	Balsam Fir	Medium	10 - 20 feet	Sapling
Northern White Cedar	20	Log/Pole	10	91	Black Spruce	Medium	10 - 20 feet	Sapling
Black Ash	10	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
7	4136 - Aspen, Mixed Conifer	Sapling Well	5.1	12	Immature	N/A																																														
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8	4130 - Aspen	Poletimber Well	42.8	51	81-110	N/A	Balsam and most of the large spruce are dead and blown over. Strip of older aspen along south side of stand in poor condition with some blow down.																																													
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11	3102 - Grass	Nonstocked	5.4	0	Unspecified	Managed Opening	Mansfield Cutoff Hunter Walking Trail/Opening																																													
12	4311 - Pine, Aspen Mix	Poletimber Well	32.2	51	51-80	N/A	Pockets of 90 year old jack pine and aspen.																																													
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13	42290 - Natural Mixed Pine	Sapling Well	6.5	26	Immature	N/A																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
14	6120 - Lowland Cedar	Sawtimber Well	30.5	91	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		10	Pole/Log/Sap	8	91	Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar		90	Log/Pole	10	91	Black Spruce	Low	5 - 10 feet	Sapling
						Tag Alder	Low	5 - 10 feet	Tall Shrub
15	4130 - Aspen	Sapling Well	17.3	12	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		90	Sapling	2	12	Balsam Fir	Low	5 - 10 feet	Sapling
Balsam Fir		5	Sapling	2		Black Spruce	Low	5 - 10 feet	Sapling
Black Spruce		5	Sapling	2					
16	4130 - Aspen	Sapling Well	63.8	8	Immature	N/A	Gray Fir t-sale (12-62-12)		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		75	Sapling	2	8	Balsam Fir	Low	5 - 10 feet	Sapling
White Pine		5	Log/Pole	16	91	Black Spruce	Low	5 - 10 feet	Sapling
Red Pine		10	Log/Pole	14	91				
Red Maple		10	Sapling	2					
17	6122 - Black Spruce	Poletimber Well	7.8	91	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		70	Pole/Log/Sap	8	91	Black Spruce	Low	10 - 20 feet	Sapling
Northern White Cedar		10	Log/Pole	10	91	Tag Alder	Low	5 - 10 feet	Tall Shrub
Tamarack		20	Log/Pole/Sap	10	91				
18	42360 - Upland Cedar	Sawtimber Well	34.7	91	111-140	N/A	Almost entire stand is upland. Steep rocky ground.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		5	Log/Pole	12		Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce		5	Log/Pole	12		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar		85	Log/Pole	12	91				
Red Pine		5	Log/Pole	16	91				
19	4130 - Aspen	Sapling Well	72.9	17	Unspecified	N/A	Lots of rock bluffs mixed throughout stand. Scattered log sized red pine. A couple of small ash drains. One in SW portion of stand and one North central.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		85	Sapling/Pole	3	17	Black Ash	Medium	< 5 feet	Sapling
Balsam Fir		5	Sapling/Pole	3	17	Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce		5	Sapling/Pole	3	17				
Red Pine		5	Log/Pole/Sap	12	91				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
20	4136 - Aspen, Mixed Conifer	Sapling Well	38.0	12	1-50	N/A																																													
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21	42210 - Natural Red Pine	Sawtimber Well	20.2	91	141-170	N/A																																													
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23	42290 - Natural Mixed Pine	Sawtimber Well	10.9	91	111-140	N/A	East side of road has had spruce, balsam and aspen removed. Gray Fir t-sale (62-12)																																												
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25	4130 - Aspen	Sapling Well	29.1	27	Immature	N/A																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
26	4130 - Aspen	Sawtimber Well	12.0	47	81-110	N/A	Balsam and spruce mostly deed and blown over. Aspen starting to break up and some blown over.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		85	Log/Pole	10	47	Balsam Fir	
Black Spruce		10	Log/Pole/Sap	10	47	Low	
Red Maple		5	Log/Pole/Sap	10	47	5 - 10 feet	
						Sapling	
27	4130 - Aspen	Sapling Medium	32.0	4	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		10	Log/Pole	14	91	Balsam Fir	
Red Maple		20	Sapling	1	4	Low	
Quaking Aspen		70	Sapling	1	4	5 - 10 feet	
						Sapling	
28	4134 - Aspen, Spruce/Fir	Sapling Well	14.9	12	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		70	Sapling	1	12	Balsam Fir	
Balsam Fir		10	Sapling	1		Low	
Black Spruce		10	Sapling	1		5 - 10 feet	
Red Pine		10	Log/Pole	14	111	Sapling	
29	122 - Road/Parking Lot	Nonstocked	12.9		Unspecified	No	Mansfield Cutoff Road. (County Road)
30	4134 - Aspen, Spruce/Fir	Sapling Well	20.2	12	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		65	Sapling	1	12	Balsam Fir	
Balsam Fir		10	Sapling	1		Low	
Black Spruce		10	Sapling	1		5 - 10 feet	
Northern White Cedar		15	Pole/Log	10	111	Sapling	
31	6124 - Lowland Spruce-Fir	Poletimber Medium	24.5	91	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		30	Pole/Sap/Log	6		Balsam Fir	
Black Spruce		35	Pole/Log/Sap	8	91	Low	
Northern White Cedar		10	Log/Pole	10	91	5 - 10 feet	
Black Ash		10	Pole/Sap/Log	8		Sapling	
Balsam Poplar		10	Pole/Sapling	6		Alder	
Paper Birch		5	Log/Pole	10	91	Medium	
						5 - 10 feet	
						Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
32	6120 - Lowland Cedar	Sawtimber Well	13.9	91	111-140	N/A																																												
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34	42110 - Planted Red Pine	Poletimber Well	23.2	65	81-110	N/A																																												
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36	42200 - Natural White Pine	Sawtimber Well	15.0	91	111-140	N/A																																												
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37	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	3.2	61	51-80	N/A																																												
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38	320 - Upland Shrub	Nonstocked	12.3		Unspecified	No	Pipelines.																																											
39	122 - Road/Parking Lot	Nonstocked	5.4		Unspecified	No	M69																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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40 500 - Water Nonstocked 5.1 Unspecified No Beaver ponds.

41 4130 - Aspen Sawtimber Well 5.1 91 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	70	Log/Pole	10	91	Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	5	Log/Pole/Sap	10	91	Red Maple	Medium	10 - 20 feet	Sapling
Red Maple	5	Log/Pole/Sap	10	91				
Paper Birch	20	Log/Pole	10	91				

42 4130 - Aspen Sapling Well 22.6 3 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	95	Sapling	1	3	Balsam Fir	Low	10 - 20 feet	Sapling
Red Pine	5	Pole	8		Red Pine	Low	5 - 10 feet	Sapling

43 6124 - Lowland Spruce-Fir Poletimber Poor 3.7 71 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	40	Pole/Log	8	71	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	20	Pole/Sapling	6					
Black Spruce	30	Pole/Sapling	6					
Tamarack	5	Pole/Sapling	6					
Quaking Aspen	5	Pole/Sapling	6					

44 622 - Lowland Shrub Nonstocked 3.3 Unspecified No

45 6120 - Lowland Cedar Sawtimber Well 6.9 91 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole/Log/Sap	8	91	Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar	90	Log/Pole	10	91	Black Spruce	Low	5 - 10 feet	Sapling
					Tag Alder	Low	5 - 10 feet	Tall Shrub

46 6120 - Lowland Cedar Sawtimber Well 6.2 91 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole/Log/Sap	8	91	Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar	90	Log/Pole	10	91	Black Spruce	Low	5 - 10 feet	Sapling
					Tag Alder	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
47	6120 - Lowland Cedar	Sawtimber Well	6.2	91	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		10	Pole/Log/Sap	8	91	Balsam Fir	
Northern White Cedar		90	Log/Pole	10	91	Black Spruce	
						Tag Alder	
						Density	Avg. Height
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
							Size
							Sapling
							Sapling
							Tall Shrub
48	6120 - Lowland Cedar	Sawtimber Well	4.4	91	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		10	Pole/Log/Sap	8	91	Balsam Fir	
Northern White Cedar		90	Log/Pole	10	91	Black Spruce	
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							Sapling
							Sapling
							Tall Shrub
49	6120 - Lowland Cedar	Sawtimber Well	4.3	91	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		10	Pole/Log/Sap	8	91	Balsam Fir	
Northern White Cedar		90	Log/Pole	10	91	Black Spruce	
						Tag Alder	
						Density	Avg. Height
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
							Size
							Sapling
							Sapling
							Tall Shrub
50	6120 - Lowland Cedar	Sawtimber Well	3.3	91	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		10	Pole/Log/Sap	8	91	Balsam Fir	
Northern White Cedar		90	Log/Pole	10	91	Black Spruce	
						Tag Alder	
						Density	Avg. Height
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
							Size
							Sapling
							Sapling
							Tall Shrub
51	6120 - Lowland Cedar	Sawtimber Well	3.2	91	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		10	Pole/Log/Sap	8	91	Balsam Fir	
Northern White Cedar		90	Log/Pole	10	91	Black Spruce	
						Tag Alder	
						Density	Avg. Height
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
							Size
							Sapling
							Sapling
							Tall Shrub
52	6120 - Lowland Cedar	Sawtimber Well	2.5	91	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		10	Pole/Log/Sap	8	91	Balsam Fir	
Northern White Cedar		90	Log/Pole	10	91	Black Spruce	
						Tag Alder	
						Density	Avg. Height
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
							Size
							Sapling
							Sapling
							Tall Shrub
53	6120 - Lowland Cedar	Sawtimber Well	2.2	91	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		10	Pole/Log/Sap	8	91	Balsam Fir	
Northern White Cedar		90	Log/Pole	10	91	Black Spruce	
						Tag Alder	
						Density	Avg. Height
						Low	5 - 10 feet
						Low	5 - 10 feet
						Low	5 - 10 feet
							Size
							Sapling
							Sapling
							Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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55	42290 - Natural Mixed Pine	Sapling Well	0.2	26	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Sapling/Pole	3	26
Black Spruce	15	Sapling/Pole	4	26
Red Pine	30	Sapling/Pole	4	26
Jack Pine	50	Sapling/Pole	4	26