



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12048

Entry Year 2025

Acreage: 1,459

County Dickinson

Management Area: Ralph Moraine

Stand Examiner: Ed Rice

Legal Description:

T43N-R29W Sections 18, 19, 20, 29 and 30

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue to sustainably balance the aspen age class acres. Get the hardwood stands on a 20 year alternating cutting cycle towards regulation. Protect the riparian areas and transition zones during management activity. Promote recruitment of conifer.

Soil and topography:

Land is nearly level to hilly with a mix of Pemene and Emmet soils that are well drained loamy and sandy soils on ground moraines, end moraines and outwash plains. 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 and around this compartment consist mostly of State lands with private parcels and camps.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

Archeological potential exists.

Special Management Designations or Considerations:

This compartment should be included within a DWC. High populations of wintering deer were observed throughout the compartment

Watershed and Fisheries Considerations:

The northern region of this compartment borders the Main Branch Ford River. The Main Branch Ford River is designated a Type 1 trout stream less than 50-foot width and has a predicted mean July temperature of 65.3°F (cold stream). A 300-foot buffer is recommended for the Main Branch Ford River 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.

The southern portion of the stand which includes the headwaters of the East Branch of the Sturgeon River, wetlands and springs. Best management practices should be implemented which include a 100' buffer.

Wildlife Habitat Considerations:

This compartment has had aspen age-class distribution for grouse and summer range for deer. The Ford River corridor provides valuable riparian habitat for wetland associated species and also is an important movement corridor for species such as deer and bear. Mesic and lowland conifers in this compartment provide critical winter habitat for deer, hare and bobcat. Transitions zones between uplands and lowlands are important for wintering deer to access upland food sources. Lowland conifers and lowland hardwoods types are important habitats for black bear. There are hunter walking trails that will be maintained in this compartment.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 50 and 100 feet. The Cambrian Munising Formation and the Precambrian Michigamme Formation subcrop below the glacial drift. There is no current economic use for these rocks. The Groveland Iron mine is located approximately six miles to the south. A gravel pit is located in Section 20 and there should be potential. There is no economic oil and gas production in the UP.

Vehicle Access:

Good access.

Survey Needs:

one corner needed

Recreational Facilities and Opportunities:

Snowmobile trail

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

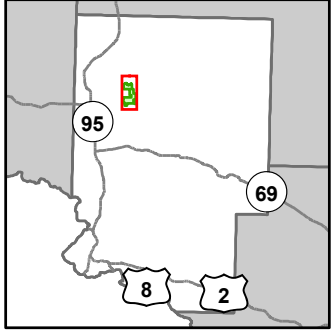
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

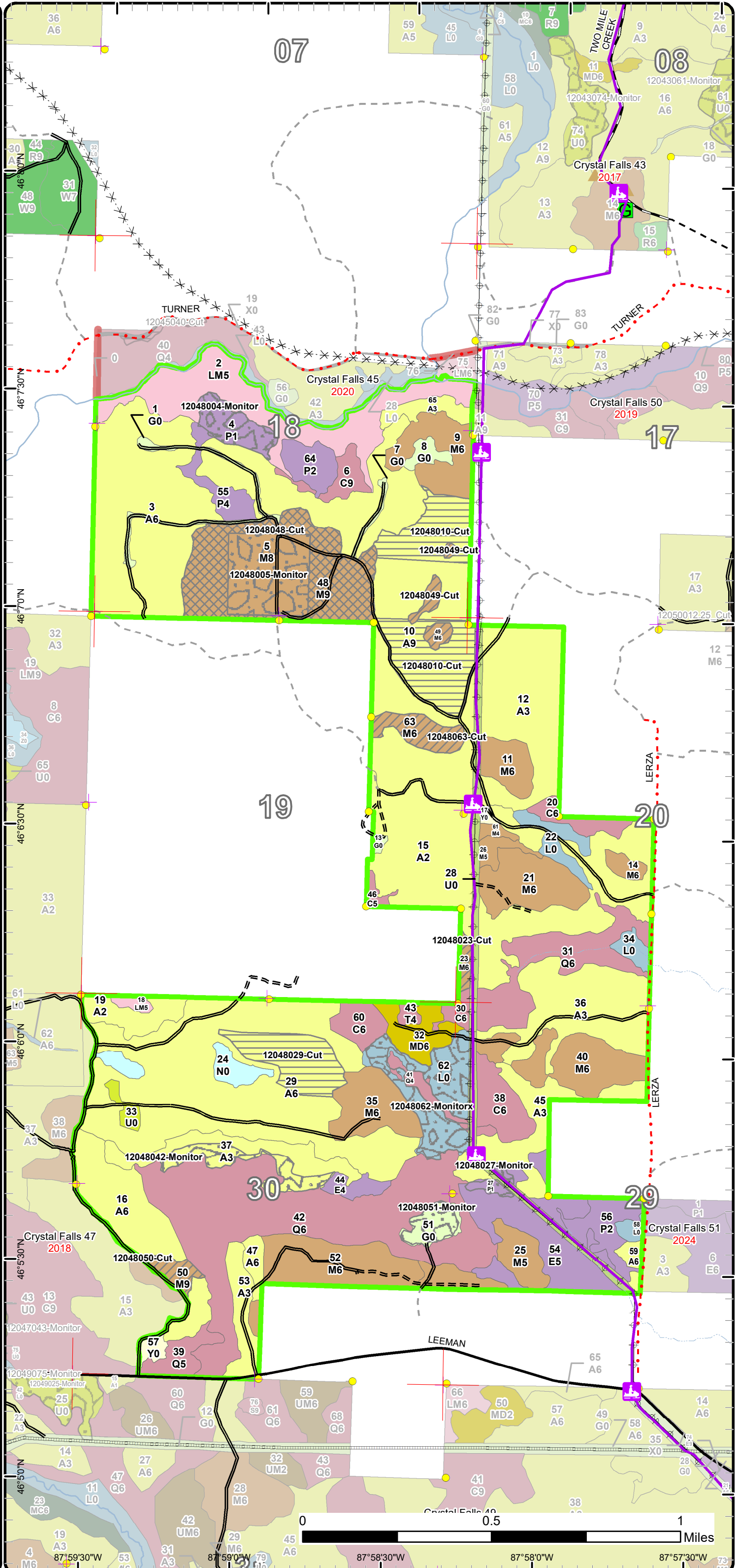
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Cover Type & Treatments Map

Compartment: 48
 T43N, R28W, Sec. 18-20, 29-30
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Moraine
 YOE: 2025
 Acres: 1458.5 GIS Calculated
 Examiner: Ed Rice
 Map Revised: 8/1/2023
 Map Phase: Review

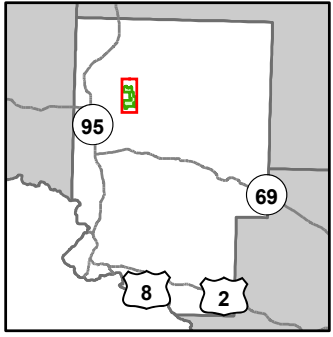


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- ✕ Abandoned Railroads
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Perennial River
- Berms
- G Gate
- Pipeline
- Powerline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil

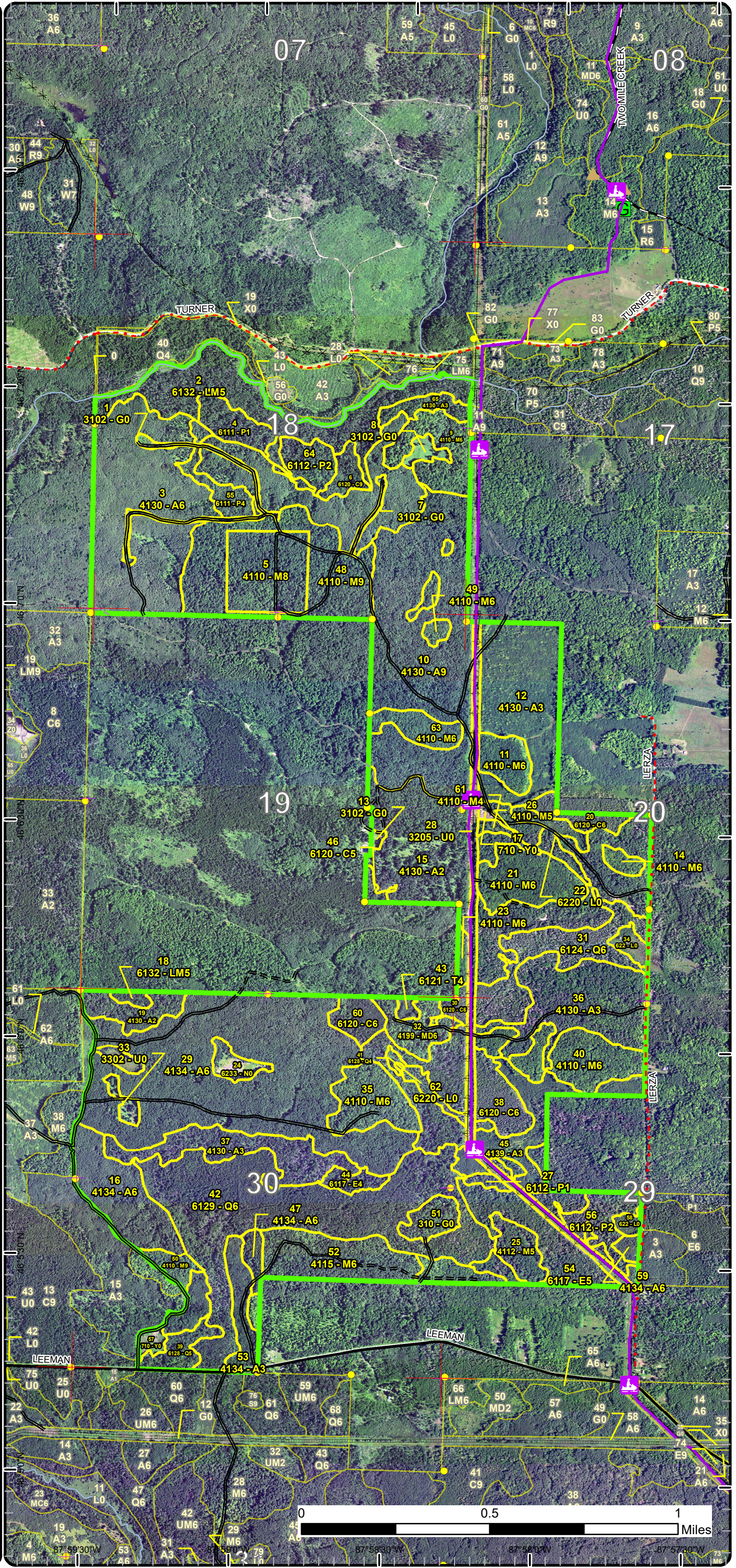


Stand Boundary Map

Compartment: 48
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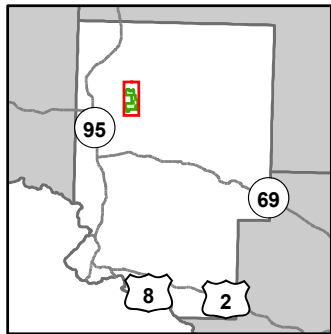


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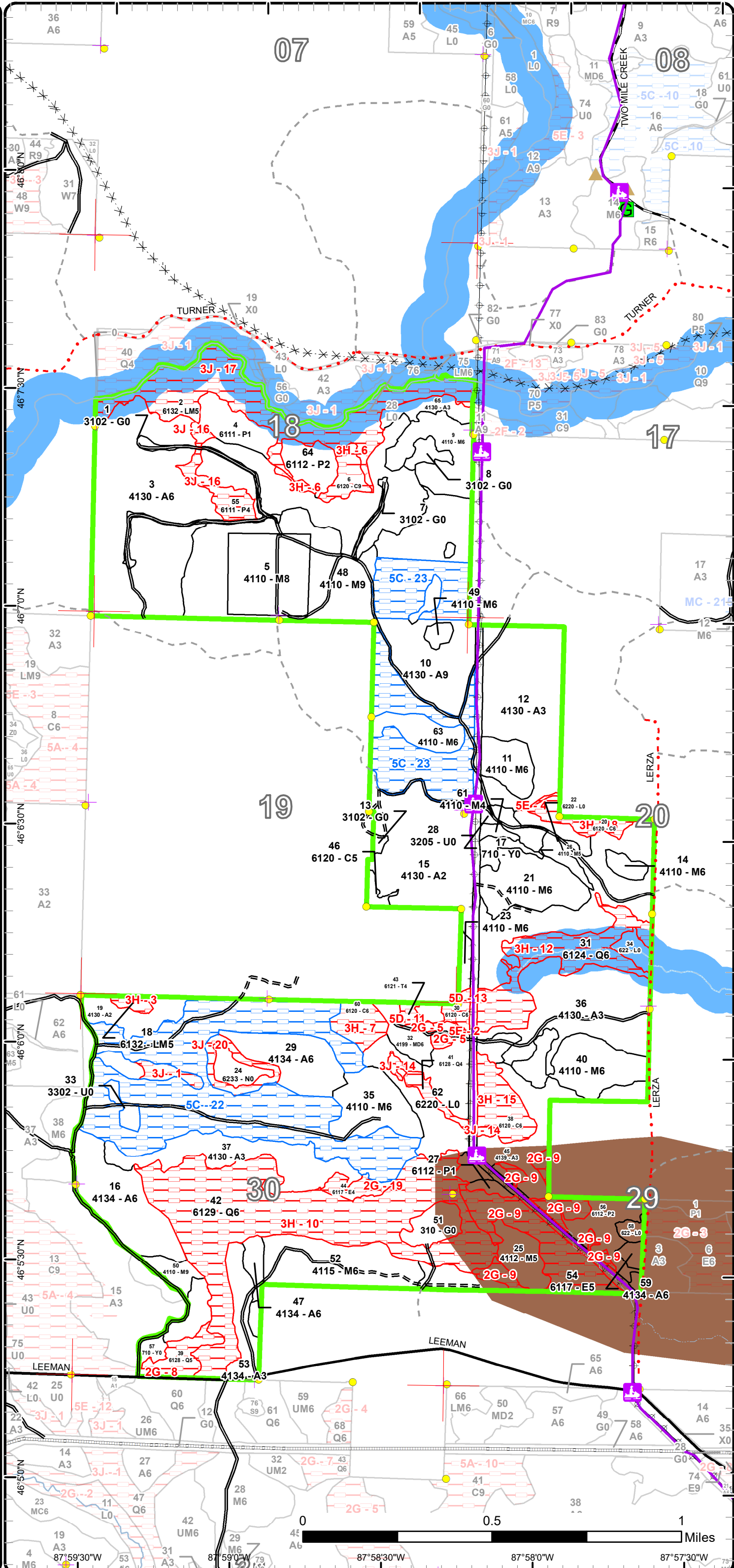


Special Conservation Areas

Compartment: 48
 T43N, R28W, Sec. 18-20, 29-30
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Moraine
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 Acres: 1458.5 GIS Calculated
 Examiner: Ed Rice
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- Miris Corners
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- Survey Grade Corners
- Counties
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- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Perennial River
- Berms
- G Gate
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- 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	193	79	13	136	42	264	0	0	0	0	0	0	0	0	0	0	0	727
Cedar	0	0	0	0	0	0	0	14	3	7	18	0	0	0	0	0	0	0	42
Herbaceous Openland	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	37	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Lowland Conifers	0	0	0	0	0	32	0	0	0	0	130	0	0	0	0	0	0	0	162
Lowland Deciduous	0	0	0	0	0	0	5	37	0	0	0	0	0	0	0	0	0	0	42
Lowland Mixed Forest	0	0	0	0	0	0	2	0	0	0	55	0	0	0	0	0	0	0	57
Lowland Shrub	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Marsh	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	13
Northern Hardwood	0	0	0	0	0	0	44	8	30	0	0	0	0	0	0	0	0	182	264
Sand, Soil	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Tamarack	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Upland Shrub	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Total	105	230	79	13	145	74	330	59	33	7	203	0	0	0	0	0	0	182	1460



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 48
Total Compartment Acres: 1,459

Commercial Harvest - 142
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	69	0	0	0	0	0	0	0	0	69
Northern Hardwood	0	49	0	0	0	24	0	0	0	73
Total	69	49	0	0	0	24	0	0	0	142

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	142	0	0	0	0	0	90	0	0	231
Next Step	0	0	0	0	0	0	117	0	0	117
Total	142	0	0	0	0	0	207	0	0	349



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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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Proposed Treatments:

10 12048010-Cut	47.7	4130 - Aspen	Sawtimber Well	55	Unspecified	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> cut merchantable aspen. cut spruce, fir 12" stump diameter and larger do not cut tree species except listed above. maple may only be cut for</p> <p><u>Specs:</u> equipment access where necessary but should be kept to a minimum.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, hardwoods</p> <p><u>Other Comment:</u> as transitions to stand 63, hardwood component increases. component of larger aspen 14-16" dbh. very little conifer in stand. h maple 4-6" dbh throughout with associated basswood and cherry. scattered hills/knobs where higher stocking of N hwd is present. highly stocked h maple in N 1/4 of the stand 2-5" dbh. small inclusion of lower quality h maple and w birch in NW. aspen concentrations mainly follow the understory hazel</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
23 12048023-Cut	2.9	4110 - Sugar Maple Association	Poletimber Well	55	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to 70 BA. keep all tree species and sizes represented. do not remove all aspen, w birch, or conifer if present. avoid creating a flush of aspen in understory if aspen is found in concentrations. Do not cut oak, hemlock, pine, y birch, b ash, or elm if present. capture value of high grade basswood logs where available without removing all basswood. keep at least one large crowned h maple per acre as seed sources.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> N hardwoods</p> <p><u>Other Comment:</u> good basswood logs 11-16" dbh. stand 110 BA</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
29 12048029-Cut	21.1	4134 - Aspen, Spruce/Fir	Poletimber Well	51	Unspecified	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> cut merchantable aspen. cut spruce/fir 12" stump and larger. do not cut any other species. if smaller conifer are needed to be cut for</p> <p><u>Specs:</u> equipment access, keep to absolute minimum. buffer any vernal/low area minimum 100 feet</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> conifer, aspen</p> <p><u>Other Comment:</u> W end has higher stocking of ironwood/hazel. multiple small vernal ponds near to edge of stand 60. fir 4-7" dbh. small inclusions of h maple/cherry component throughout very heavy winter deer use - cover and food</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
48 12048048-Cut	48.5	4110 - Sugar Maple Association	Sawtimber Well	73	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Thin to 70 BA. keep all tree species and sizes represented. do not remove all aspen, w birch, or conifer if present. avoid creating a flush of aspen in understory if aspen is found in concentrations. Do not cut oak, hemlock, pine, y birch, b ash, or elm if present. capture value of high grade basswood logs where available without removing all basswood. keep at least one large crowned h maple per acre as seed sources. if vernal or low areas are found, buffer a minimum of 100 feet.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> N hardwoods</p> <p><u>Other Comment:</u> center of stand heavier to ironwood. stand 110 BA</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
49 12048049-Cut	5.6	4110 - Sugar Maple Association	Poletimber Well	55	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Thin to 70 BA. keep all tree species and sizes represented. do not remove all aspen, w birch, or conifer if present. avoid creating a flush of aspen in understory if aspen is found in concentrations. Do not cut oak, hemlock, pine, y birch, b ash, or elm if present. capture value of high grade basswood logs where available without removing all basswood. keep at least one large crowned h maple per acre as seed sources. if vernal or low areas are found, buffer a minimum of 100 feet.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> N hardwoods</p> <p><u>Other Comment:</u> small n hdwd island among a larger mixed aspen stand. good basswood logs. stand 110 BA</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
50 12048050-Cut	5.5	4110 - Sugar Maple Association	Sawtimber Well	64	81-110	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Thin to 70 BA. keep all tree species and sizes represented. do not remove all aspen, w birch, or conifer if present. avoid creating a flush of aspen in understory if aspen is found in concentrations. Do not cut oak, hemlock, pine, y birch, b ash, or elm if present. capture value of high grade basswood logs where available without removing all basswood. keep at least one large crowned h maple per acre as seed sources. if vernal or low areas are found, buffer a minimum of 100 feet.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> N hardwoods</p> <p><u>Other Comment:</u> very scattered y birch 12-16" dbh. average stand 110 BA</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
63 12048063-Cut	10.3	4110 - Sugar Maple Association	Poletimber Well	56	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to 70 BA. keep all tree species and sizes represented. do not remove all aspen, w birch, or conifer if present. avoid creating a flush of aspen in understory if aspen is found in concentrations. Do not cut oak, hemlock, pine, y birch, b ash, or elm if present. capture value of high grade basswood logs where available without removing all basswood. keep at least one large crowned h maple per acre as seed sources. if vernal or low areas are found, buffer a minimum of 100 feet.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> N hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u> stand composition is very similar to nearby n hdwd stands, much higher BA in this area. stand 130 BA</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

Approved Treatments:

4 12048004-Monitor	11.5	6111 - Lowland Balsam Poplar	Sapling Poor	5	Immature	Monitoring	Natural Regen (Re-Inventory)	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> monitor for regen*2023 regen was not successful in many areas of the stand to date - tag alder/cattail</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of aspen, fir and hardwood.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 12/7 /2017</p>										
5 12048005-Monitor	29.4	4110 - Sugar Maple Association	Sawtimber Medium	73	51-80	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> monitor for maple regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> maple</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</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
27 12048027-Monitor	0.7	6112 - Lowland Aspen	Sapling Poor	5	Immature	Monitoring	Natural Regen (Re-Inventory)	6124 - Lowland Spruce-Fir	Even-Aged	No
<p><u>Prescription</u> monitor. 3/1/23: much of stand has very poorly regenerated to this point - tag alder/cattail</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of softwood, hardwood and aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>										
37 12048042-Monitor	11.3	4130 - Aspen	Sapling Well	5	Immature	Monitoring	Natural Regen (Re-Inventory)	6129 - Mixed Coniferous Lowland Forest	Even-Aged	No
<p><u>Prescription</u> monitor - regeneration has failed up to now 2/6/23 - tag alder and cattail</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of mixed softwood and aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>										
27 12048049-Monitor	2.0	6112 - Lowland Aspen	Sapling Poor	5	Immature	Monitoring	Natural Regen (Re-Inventory)	6130 - Fir, Aspen, Maple	Even-Aged	No
<p><u>Prescription</u> monitor - as of 2023 inventory, stand has regenerated poorly, most of the harvest area is new growth tag alder</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of aspen, hardwood and softwood.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>										
51 12048051-Monitor	7.0	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4113 - R.Maple, Conifer	Even-Aged	No
<p><u>Prescription</u> monitor.</p> <p><u>Specs:</u> stand is failed regen at this point, 2/6/23. very scattered r maple stump sprouts, most of the area is raspberry</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of hardwood, aspen and softwood.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</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
62 12048062-Monitorx	27.7	6220 - Alder/willow	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> monitor - stand has not regenerated well during 2023 inventory.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of softwood, hardwood and aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>										

Total Treatment Acreage Proposed: 231.2

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 48

Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions						
		With Condition			5C	2G	3H	3J	5D	5E	
727	534	182		11	Aspen	182			10		0
42	2	0		40	Cedar			37		3	
21	21	0		0	Herbaceous Openland						
3	3	0		0	Low-Density Trees						
46	37	0		9	Lowland Aspen/Balsam Poplar				9		
161	0	0		161	Lowland Conifers		9	147	6		
42	0	0		42	Lowland Deciduous		42				
57	0	0		57	Lowland Mixed Forest			2	55		
43	43	0		0	Lowland Shrub						0
9	9	0		0	Marsh						
13	11	0		1	Mixed Upland Deciduous		1				
263	263	0		0	Northern Hardwood						
4	4	0		0	Sand, Soil						
2	0	0		2	Tamarack					2	
25	25	0		0	Upland Shrub						0
1,459	953	182		324	Total Forested Acres	182	52	186	80	5	1
	65%	12%		22%	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)	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: drainage towards open marsh							
2	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Ed Rice : Examiner

Compartment: 48

Year of Entry: 2025

3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: vernal area							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	115	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5D: Unproductive Forest Land	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	32	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: heavy winter deer use. creek/drainage and multiple open springs							
13	Unavailable	5D: Unproductive Forest Land	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: low SI - high water table							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	5D: Unproductive Forest Land	5E: Long-Term Retention	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Compartment: 48

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15	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	14	Unspecified	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
Comments:							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
Comments: creek originates and flows through stand							
17	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	55	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
Comments:							
18	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	7	Unspecified	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
Comments:							
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	5E: Long-Term Retention	<input type="text" value="Unspecified"/>	Unspecified	Unspecified
Comments: buffer to low ground area							

Report 4 – Site Conditions

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Compartment: 48

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22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	120	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: only remaining older aged aspen stand in this area of the compartment. extremely heavy winter deer use as cover and food</p>							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	62	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: retain for age class distribution. only older aged stand in area</p>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



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.
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	3102 - Grass	Nonstocked	6.6		Unspecified	No	hunter walking trail																																																						
2	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	54.9	95	Unspecified	N/A	areas with open canopy having heavy tag alder. river buffer mix of low ground with small high ground knobs.																																																						
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3	4130 - Aspen	Poletimber Well	135.9	35	Unspecified	N/A	Ironwood throughout stand, with higher stocking in E half. E half also has higher component of h maple saplings and small poletimber. areas in W - central with denser spruce/fir. small, scattered tag alder inclusions in W end of the stand.																																																						
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4	6111 - Lowland Balsam Poplar	Sapling Poor	11.4	5	Immature	N/A	multiple small drainages throughout the stand,- no buffers were applied in previous cut. many areas non stocked growing into heavy tag alder and/or cattail																																																						
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5	4110 - Sugar Maple Association	Sawtimber Medium	29.5	73	51-80	N/A	ironwood, aspen saplings regenerating from previous cut.																																																						
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13	3102 - Grass	Nonstocked	1.0		Unspecified	No	small field																																										
14	4110 - Sugar Maple Association	Poletimber Well	3.5	60	51-80	N/A	edges of stand hold heavier component of ironwood, spruce, fir in understory. stand BA 70																																										
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16	4134 - Aspen, Spruce/Fir	Poletimber Well	37.7	43	Unspecified	N/A	aspen 4-9" dbh. heavy fir understory. center of the stand is heavier to well stocked fir small poletimber. very heavy winter deer use - cover																																									
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17	710 - Sand, Soil	Nonstocked	1.1		Unspecified	No	old gravel pit																																									
18	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	2.3	51	Unspecified	N/A	heavy winter deer use																																									
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22	6220 - Alder/willow	Nonstocked	8.5	0	Unspecified	No	tag alder with dead snags. small Q6 inclusion S of woods road																																									



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24	6233 - Wet Meadow	Nonstocked	9.0		Unspecified	No	small marsh opening - wet. edged with spruce/fir																																														
25	4112 - Maple, Beech, Cherry Association	Poletimber Medium	17.2	56	1-50	N/A	thinned heavily last entry. all aspen was removed and regenerated in small edge areas, many areas are nonstocked with raspberry. average 50 BA																																														
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26	4110 - Sugar Maple Association	Poletimber Medium	4.0	55	51-80	N/A	aspen removed last entry - has highly stocked aspen understory																																														
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27	6112 - Lowland Aspen	Sapling Poor	2.8	5	Immature	N/A	stand to this point has regenerated poorly - most area is new tag alder.																																														
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28	3205 - Mixed Upland Shrub	Nonstocked	25.2		Unspecified	No	Transmission line ROW																																														
29	4134 - Aspen, Spruce/Fir	Poletimber Well	151.4	51	Unspecified	N/A	W end has higher stocking of ironwood/hazel. multiple small vernal ponds near to edge of stand 60. fir 4-7" dbh. small inclusions of h maple/cherry component throughout very heavy winter deer use - cover and food																																														
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30	6120 - Lowland Cedar	Poletimber Well	3.4	70	Unspecified	N/A	N end of stand is transition area with small b ash sapling/small poletimber component. low SI - cedar is of low quality, high water table																																															
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31	6124 - Lowland Spruce-Fir	Poletimber Well	32.0	49	Unspecified	N/A	areas of open canopy with tag alder. open springs winter deer use																																															
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32	4199 - Other Mixed Upland Deciduous	Poletimber Well	12.8	56	51-80	N/A	much of the fir in the understory has died out. overall lower quality hardwoods, mixed stand. very scattered small diameter h maple. stand averages 80 BA																																															
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33	3302 - Low Density Conifer Trees	Nonstocked	3.3		Unspecified	No	small opening growing into spruce/fir. scattered cherry saplings																																															
34	622 - Lowland Shrub	Nonstocked	4.2		Unspecified	No	marsh, alder with multiple creek channels																																															
35	4110 - Sugar Maple Association	Poletimber Well	20.1	61	81-110	N/A	average stand 100 BA																																															
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36	4130 - Aspen	Sapling Well	45.7	5	Immature	N/A	areas adjacent to lowland conifer edges did not regenerate well - grew in heavier to tag alder																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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37	4130 - Aspen	Sapling Well	29.1	5	Immature	N/A	areas adjacent to swamp to the S where lowland spruce was removed did not regenerate - tag alder and cattail	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Sapling	1	5	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Poplar	10	Sapling	1		Cattail spp.	Medium	Unspecified	Non-Wood

38	6120 - Lowland Cedar	Poletimber Well	13.6	67	Unspecified	N/A	very scattered balm heavy winter deer use	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	8		Balsam Fir	Medium	10 - 20 feet	Sapling
Northern White Cedar	80	Pole/Log	9	67				
Black Spruce	10	Pole	7					

39	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	8.8	95	Unspecified	N/A		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	25	Log/Pole	10		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Poplar	5	Log/Pole	10		Ash (spp.)	Low	Variable	Sapling
Tamarack	10	Pole	7		Balsam Fir	High	10 - 20 feet	Sapling
Paper Birch	5	Pole	7					
Red Maple	20	Pole/Sapling	6					
Northern White Cedar	35	Pole/Log	9	95				

40	4110 - Sugar Maple Association	Poletimber Well	27.9	55	81-110	N/A	very scattered hemlock. N and E edges of the stand have a heavy fir component - saplings to 7-8" poletimber. basswood has good log quality 11-16"dbh. scattered h maple log trees- fair to low quality. very scattered w birch. stand 90 BA low winter deer use - mainly along edges adjacent to conifer	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	7		Sugar Maple	Low	>20 feet	Sapling
Red Maple	5	Pole	7		Balsam Fir	High	10 - 20 feet	Sapling
Sugar Maple	65	Pole/Log	8	55	Ironwood	Medium	>20 feet	Sapling
Basswood	25	Log/Pole	13		Leatherwood	Medium	< 5 feet	Tall Shrub

41	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	5.5	90	Unspecified	N/A	areas denser to cedar. overall the stand is low quality balm with associated fir and cedar. drainage	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Sapling	6		Tag Alder	High	5 - 10 feet	Tall Shrub
Paper Birch	10	Pole	6		Balsam Fir	High	10 - 20 feet	Sapling
Northern White Cedar	40	Pole/Log	9	90				
Black Spruce	5	Pole	6					
Balsam Fir	25	Pole/Sapling	6					
Black Ash	5	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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42	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	114.9	95	Unspecified	N/A	areas higher stocked to tamarack scattered throughout, generally associated with pockets of small diameter cedar 4-6" dbh. W side of the stand has inclusion/higher stocking to b ash and w birch. S edge has a lowland transitional area of w birch, spruce, fir, and cedar.																																									
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Balsam Fir	Medium	10 - 20 feet	Sapling																																													

43	6121 - Tamarack	Poletimber Poor	1.9	55	Unspecified	N/A	stunted bog tamarack, small diameter. non productive forestland. adjacent vernal areas																						
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44	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	4.9	51	Unspecified	N/A	semi open - heavy tag alder with scattered b ash, w birch, and fir. E end has a small inclusion of balm. lowland w birch with cedar in E side																																									
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45	4139 - Aspen, Mixed Deciduous	Sapling Well	25.7	18	Unspecified	N/A	inclusions of b ash saplings in lower ground areas. interior of the stand has fairly dense fir saplings. small drainage/creek running between stands 38 - 54																																																		
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46	6120 - Lowland Cedar	Poletimber Medium	2.3	95	Unspecified	N/A	SE end is open tag alder																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
47	4134 - Aspen, Spruce/Fir	Poletimber Well	4.4	45	Unspecified	N/A	very scattered r maple saplings 3-4" dbh
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		70	Pole	8	45	Red Maple	
Balsam Fir		30	Pole/Sapling	7		Balsam Fir	
						Ironwood	
						Density	
						Avg. Height	
						Size	
						Low	
						Variable	
						Sapling	
						Medium	
						>20 feet	
						Sapling	
						Low	
						Variable	
						Sapling	
48	4110 - Sugar Maple Association	Sawtimber Well	48.6	73	81-110	N/A	center of stand heavier to ironwood. stand 110 BA
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		5	Log	12		Sugar Maple	
Basswood		15	Log	12		Ironwood	
Sugar Maple		70	Log/Pole	10	73	Leatherwood	
Yellow Birch		5	Pole/Log	9			
Quaking Aspen		5	Log	14			
						Density	
						Avg. Height	
						Size	
						Medium	
						>20 feet	
						Sapling	
						Medium	
						10 - 20 feet	
						Sapling	
						Low	
						< 5 feet	
						Tall Shrub	
49	4110 - Sugar Maple Association	Poletimber Well	5.6	55	81-110	N/A	small n hdwd island among a larger mixed aspen stand. good basswood logs. stand 110 BA
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		60	Pole/Log	8	55	Sugar Maple	
Basswood		35	Log	12			
Quaking Aspen		5	Log	12			
						Density	
						Avg. Height	
						Size	
						Medium	
						>20 feet	
						Sapling	
50	4110 - Sugar Maple Association	Sawtimber Well	5.5	64	81-110	N/A	very scattered y birch 12-16" dbh. average stand 110 BA
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Basswood		10	Log	12		Ironwood	
Sugar Maple		90	Log/Pole	10	64	Leatherwood	
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						Density	
						Avg. Height	
						Size	
						Medium	
						>20 feet	
						Sapling	
						Low	
						< 5 feet	
						Tall Shrub	
						Low	
						>20 feet	
						Sapling	
51	310 - Herbaceous Openland	Nonstocked	8.2	0	Unspecified	4116 - Mixed N. Hardwood - Aspen	small clumps of cedar residual after last entry's cut. very scattered r maple stump sprouts. stand overall has failed regeneration, mainly a raspberry opening
52	4115 - Y.Birch, Hemlock NH	Poletimber Well	31.9	65	81-110	N/A	average stand 100BA
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		40	Log/Pole	10	65	Leatherwood	
Basswood		35	Log	12		Sugar Maple	
Yellow Birch		25	Log	12		Ironwood	
						Density	
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						Tall Shrub	
						Low	
						>20 feet	
						Sapling	
						Medium	
						10 - 20 feet	
						Sapling	
53	4134 - Aspen, Spruce/Fir	Sapling Well	12.7	26	Unspecified	N/A	scattered aspen just moving into small poletimber size class 4-5" dbh
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		25	Pole/Sapling	6		Hazelnut (American)	
Quaking Aspen		70	Sapling/Pole	3	26	Balsam Fir	
White Spruce		5	Pole	7			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
54	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	37.1	62	51-80	N/A	widely scattered large w pine. areas in stand that are open with heavy tag alder. areas in S of stand have a higher cedar component. wet ground																																																				
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55	6111 - Lowland Balsam Poplar	Poletimber Poor	9.1	35	Unspecified	N/A	very scattered tamarack small poletimber. N end has component of higher stocked spruce/fir. S end is heavier to balm/aspen. creek originates in stand, flowing N																																																				
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56	6112 - Lowland Aspen	Sapling Medium	13.2	5	Immature	N/A	low ground cut from last cycle. many areas growing into new growth tag alder																																																				
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57	710 - Sand, Soil	Nonstocked	2.9		Unspecified	No	old gravel pit. growing into spruce/fir at the edges. scattered r pine and tamarack. small clumps of aspen																																																				
58	622 - Lowland Shrub	Nonstocked	2.4		Unspecified	No	tag alder with small diameter, 2-4" dbh b ash along the E side																																																				
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61	4110 - Sugar Maple Association	Poletimber Poor	1.8	60	1-50	N/A	N end of stand has lower overstory stocking - M4A3 with dense aspen sapling understory. S end hdwd stocking increases - M5A3 - as stand transitions to adjacent N hdwd stand. small lowland pockets that were included in previous cut																																
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62	6220 - Alder/willow	Nonstocked	28.2	0	Unspecified	6128 - Lowland Coniferous, Mixed Deciduous	most of the stand has not regenerated well - new growth tag alder, cattails, and swamp grass. isolated areas of r maple stump sprouts. small areas in the SE, NW, and NE in the slightly higher areas have regenerated to aspen less than 1" dbh																																
63	4110 - Sugar Maple Association	Poletimber Well	10.3	56	111-140	N/A	stand composition is very similar to nearby n hdwd stands, much higher BA in this area. stand 130 BA																																
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64	6112 - Lowland Aspen	Sapling Medium	9.7	5	Immature	N/A	areas poorly regenerated from previous cut, notably in W end.																																
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