



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12127

Entry Year 2023

Acreage: 1,491

County Iron

Management Area: Michigamme Reservoir

Revision Date: 2021-07-21

Stand Examiner:

Legal Description:

T44N, R32W, Sections 1, 2 T45N, R32W, Sections 34, 35 and 36

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue to sustainably balance the aspen age class acres. Continue moving hardwoods stands towards regulation. Protect the riparian areas and transition zones during management activity.

Soil and topography:

This compartment has a mix of nearly level to hilly, somewhat excessively drained to moderate well drained loamy soils on outwash plains. There are some rolling areas on ground moraines and end moraines with rock. Poorly drained Cathro soils are dominant in low areas.

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

The compartment has blocks of private hunt camps and industrial forest owners adjacent to and within the boundary. Timber harvesting has been ongoing.

Unique Natural Features:

None identified

Archeological, Historical, and Cultural Features:

None identified

Special Management Designations or Considerations:

Deer winter range

Watershed and Fisheries Considerations:

Waterbodies include McCutcheon Creek and unnamed tributaries that are designated Type 1 trout streams less than 50' in width. A 300' buffer is recommended in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope. Any unnamed waterbodies should receive a 100ft. buffer.

Wildlife Habitat Considerations:

This compartment is located in the core of the Deerfoot Lodge Deeryard. Protecting and enhancing lowland conifer stands is critically important to maintaining the quality of this deeryard. Portions of this yarding complex have been degraded by harvest of both upland and lowland conifer so wildlife dependent on these types, such as wintering deer, rely more heavily on those intact stands on state ownership. Uplands are largely aspen and have been intensively managed. Restoring the conifer component in the uplands, particularly white pine and hemlock, will enhance species and structural diversity, improving the compartment for a wide variety of wildlife species. This area is comprised of excellent habitat for grouse, woodcock, bear, wolves and a full complement of furbearers.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and end moraines of coarse-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Precambrian Hemlock Formation, the Randville Dolomite, Archean granite/gneiss and intrusives subcrop below the glacial drift. The Randville is used as a building stone. The other formations do not have a current economic use. The Porter and Warner abandoned iron mines are located six miles to the southwest. The nearest gravel pit is located two miles to the south. There should be gravel potential in the compartment. There is no economic oil and gas production in the UP.

Vehicle Access:

Overall, good to fair access. The Deerfoot Lodge Road is the main road to access the compartment. Multiple side two track roads are present.

Survey Needs:

S 1/16 sec 1,6. S1/16 sec 1 SW1/16 sec 1 S1/16 sec 1,2

Recreational Facilities and Opportunities:

None

Fire Protection:

Fire occurrence should be low in this compartment given the fuel types. Access is good and multiple water sources available.

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

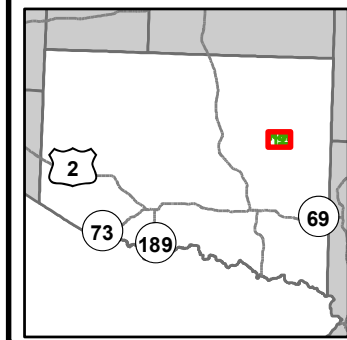
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

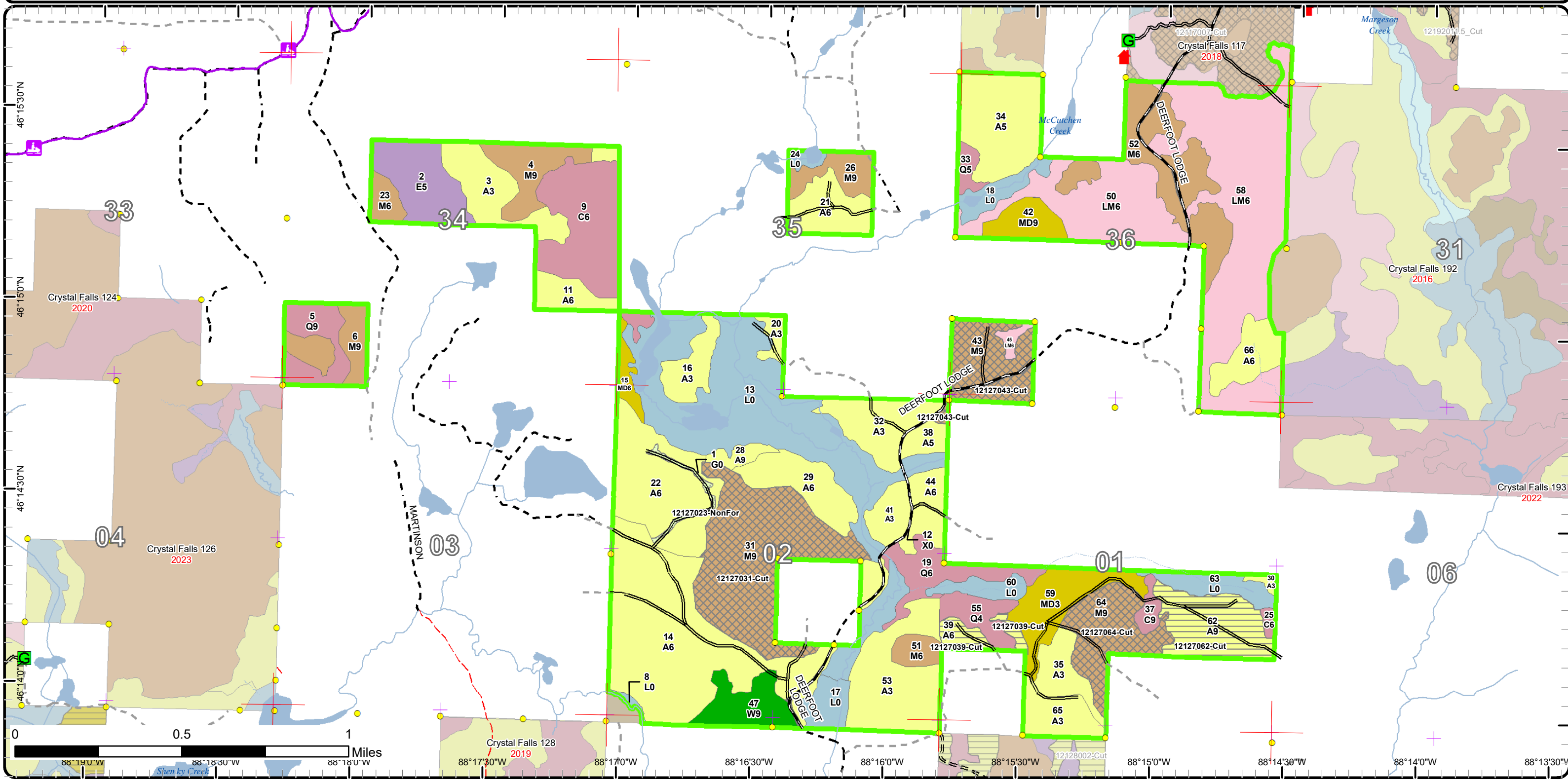
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 127
 T45N, R32W, Sec. 25, 34-36
 T44N, R32W, Sec. 1, 2
 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Michigamme
 Reservoir
 YOE: 2023
 Acres: 1491.4 GIS Calculated
 Examiner: Ed Rice
 Map Revised: 12/28/2021
 Map Phase: Post-Review

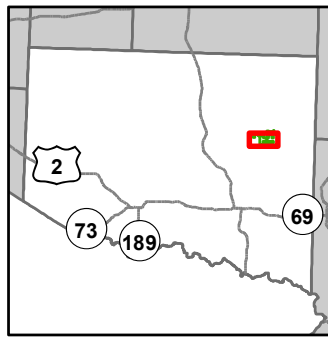


- | | | |
|--|----------------------------------|-----------------------------------|
| — Miris Corners | — Intermittent Stream | ■ 611 - Lowland Deciduous Forest |
| ✚ Remonumented Section Corners | — Island in Lake or River | ■ 612 - Lowland Coniferous Forest |
| ● Survey Grade Corners | — Lake/Pond | ■ 613 - Lowland Mixed Forest |
| --- Counties | — Perennial River | ■ 122 - Roads/Parking Lot |
| — DNR - Primary Forest Road | — Swamp | ■ 310 - Herbaceous Openland |
| — DNR - Secondary Forest Road | — Lakes and Rivers | ■ 622 - Lowland Shrub |
| — DNR - Forest Access Route | ■ Compartment Boundary | |
| - - - Federal / State - Dirt / Gravel Road | ▨ Selection (Group, Single Tree) | |
| - - - County - Dirt Road (Seasonal) | ▨ Clearcut (w/Reserves) | |
| - - - Private - Dirt / Gravel Road | ▨ Mowing | |
| 🚡 Snowmobile Trails | ■ 411 - Northern Hardwood | |
| 🚡 Designated Snowmobile Trails | ■ 413 - Aspen | |
| 🏠 Cabin | ■ 419 - Mixed Upland Deciduous | |
| | ■ 422 - Natural Pines | |

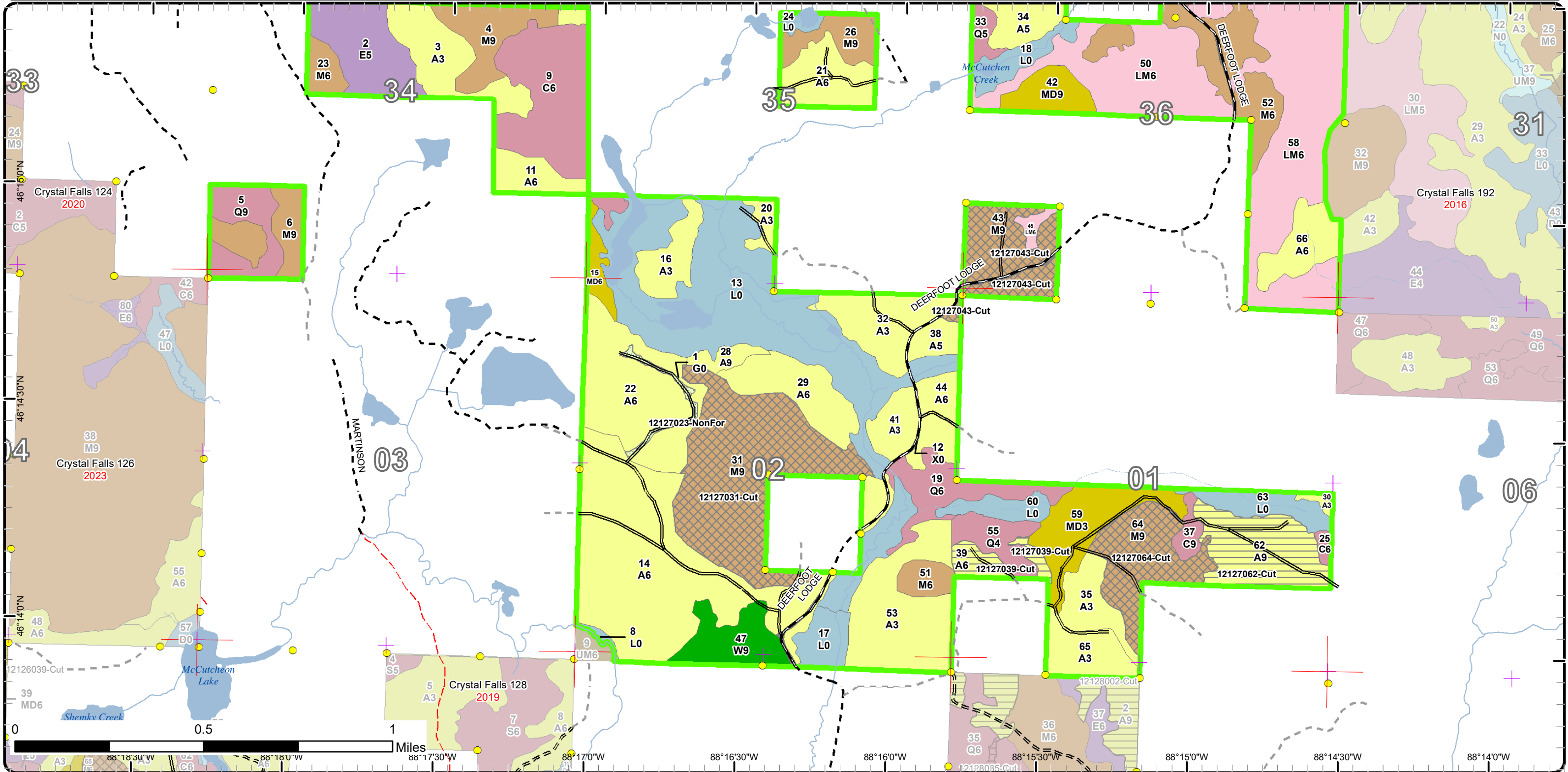


Cover Type & Treatments Map

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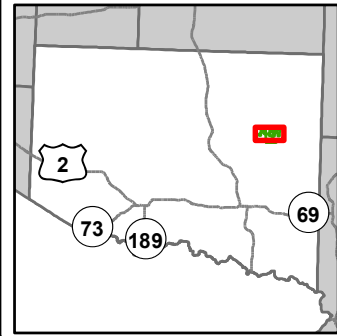


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- Survey Grade Corners
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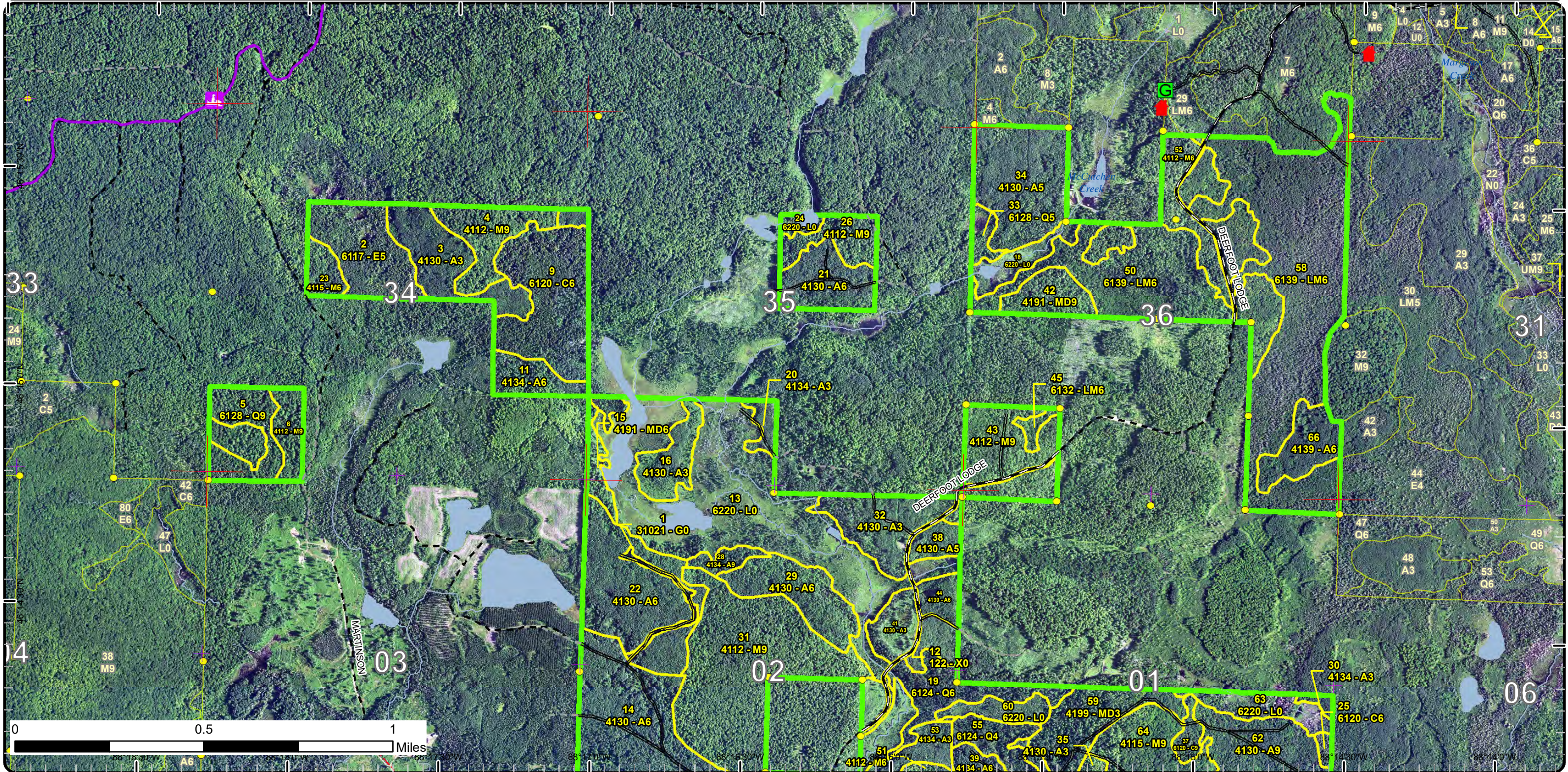
Stand Boundary Map

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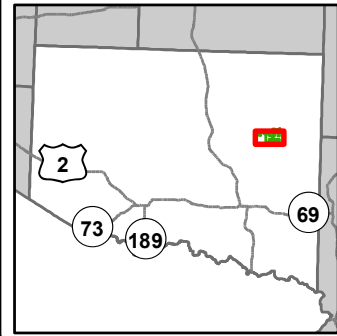
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622 - Lowland Shrub

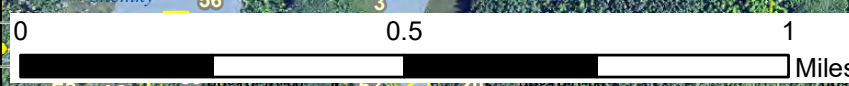
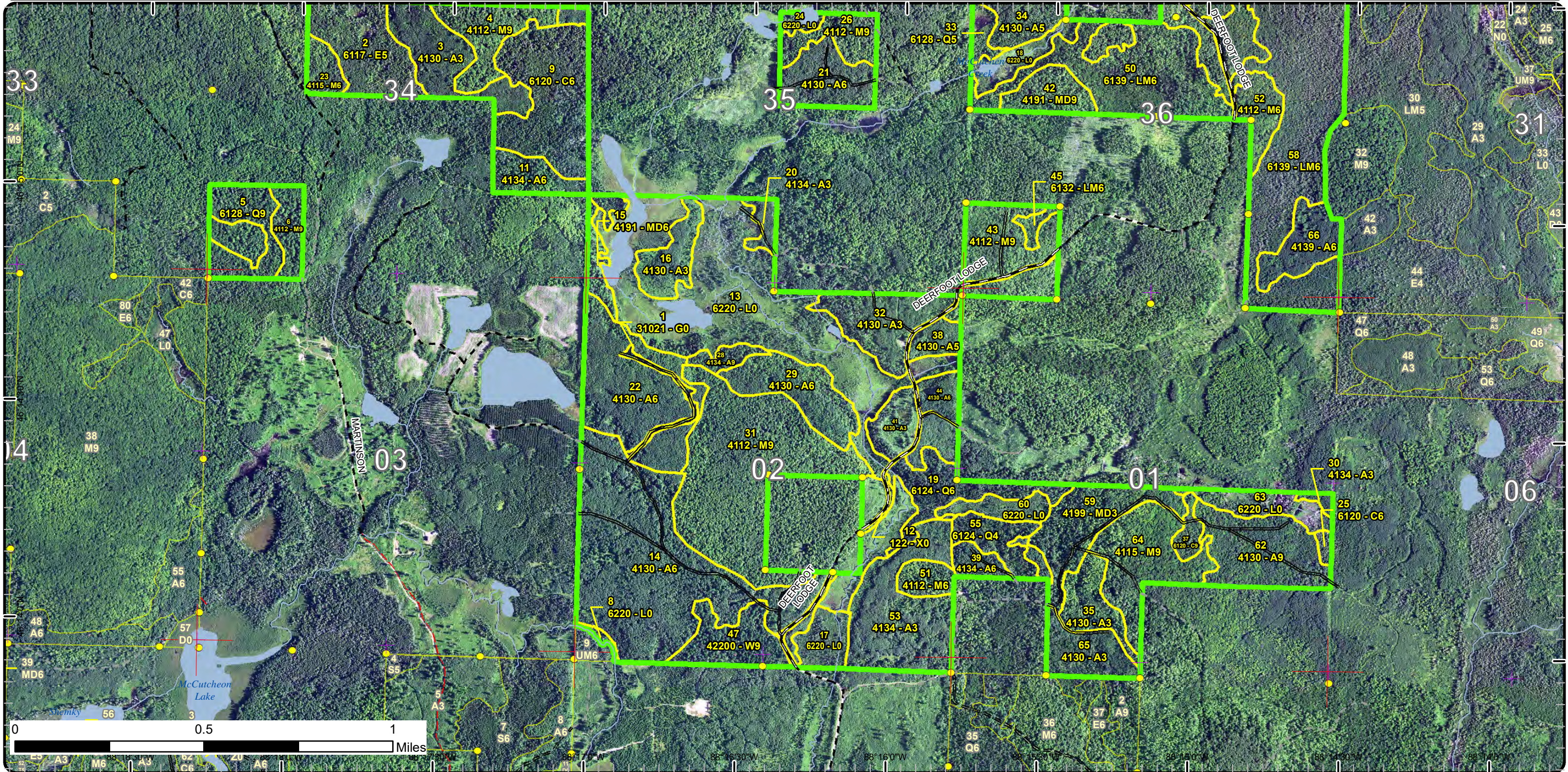


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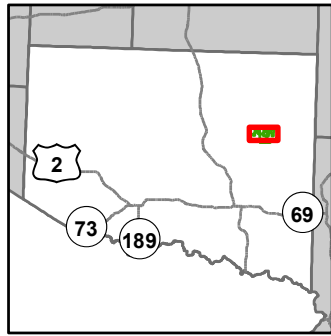
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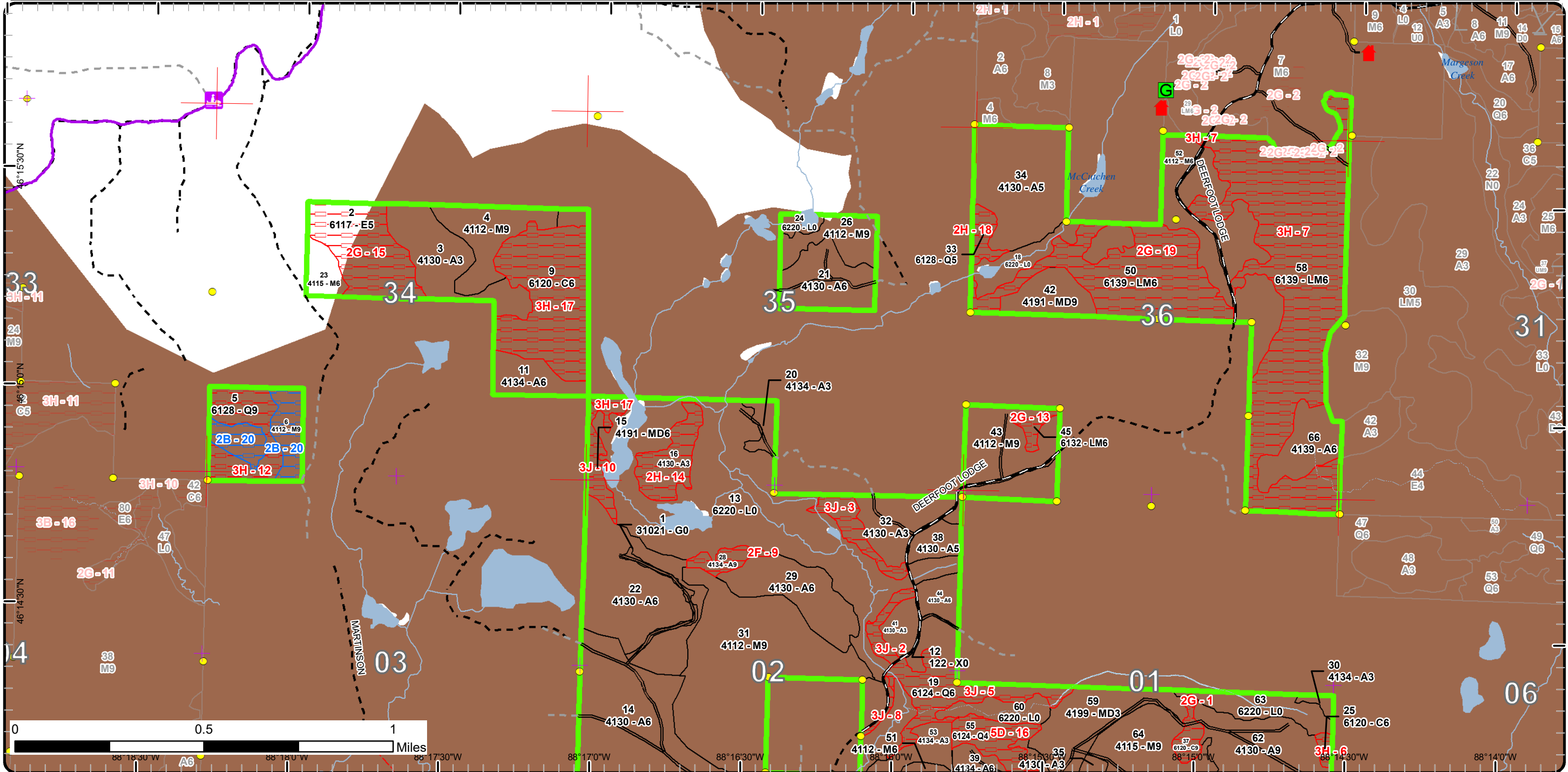
Map coordinates: 88° 16' 30" W, 88° 16' 0" W, 88° 15' 30" W, 88° 15' 0" W, 88° 14' 30" W, 88° 14' 0" W

Special Conservation Areas

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- ▲ Cabin
- Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Swamp
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 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
- 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	18	35	138	235	83	10	6	37	0	0	0	0	0	0	0	0	0	562
Cedar	0	0	0	0	0	0	0	0	0	0	7	54	0	0	0	0	0	0	61
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	14	0	24	0	0	0	5	20	0	0	0	0	0	0	63
Lowland Deciduous	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	0	0	33
Lowland Mixed Forest	0	0	0	0	0	3	136	57	0	0	0	0	0	0	0	0	0	0	196
Lowland Shrub	199	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	199
Mixed Upland Deciduous	0	0	0	0	30	0	0	7	0	0	0	0	0	0	0	0	0	15	52
Northern Hardwood	0	0	0	0	0	0	0	8	91	0	0	0	0	0	0	0	0	193	292
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
White Pine	0	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	22
Total	210	18	35	138	279	119	170	78	128	0	12	96	0	0	0	0	0	208	1491



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2023

Compartment 127
Total Compartment Acres: 1,491

Acres of Harvest

Commercial Harvest - 213
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	47	0	0	0	0	0	0	0	0	47
Northern Hardwood	0	166	0	0	0	0	0	0	0	166
Total	47	166	0	0	0	0	0	0	0	213

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	213	0	0	0	0	0	0	4	0	217
Next Step	0	0	0	0	0	213	0	0	0	213
Total	213	0	0	0	0	213	0	4	0	430



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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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Approved Treatments:

1	12127023-NonFor	3.6	31021 - Cool Season Grass	Nonstocked	0	Unspecified	NonForestMgt	Mowing	3105 - Mixed Upland Herbaceous	No	
<p><u>Prescription</u> Mow hunter walking trail</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> 11/9 /2020</p>											
31	12127031-Cut	93.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	65	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to 70 BA. Remove in order of priority, high risk trees and trees that will decrease in value before the next cutting cycle. leave large crowned h maple component for viable seed source. Keep all species and size classes represented in residual stand. Do not cut y birch, b ash or basswood. protect any advanced maple regeneration pockets. protect and buffer any vernal areas found during sale set up by not marking within one tree length.</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> N hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u> scattered vernal areas, one larger area N of Sartori's forty holding cedar, b ash, r maple. R maple, H maple 14-20" dbh and poletimber 4-7" dbh. scattered hemlock along W edge of stand. 110 BA</p> <p><u>Comment:</u> underplanted with w pine several inventory cycles ago.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
39	12127039-Cut	9.5	4134 - Aspen, Spruce/Fir	Poletimber Well	58	Unspecified	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> remove merchantable aspen, r maple, spruce, balsam fir, w birch and cherry. where available leave at least one w birch and/or cherry per cruise point. do not cut y birch, cedar, b ash. protect advanced maple regeneration. exclude low/vernal areas.</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> upland mix. aspen, maple, spruce, fir</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 /2022</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
43 12127043-Cut	36.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	75	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to 70 BA. Remove in order of priority, high risk trees that will not survive or will decrease in value before the next cutting cycle, Try to capture value of r maple logs before they deteriorate. Keep all species and sizes represented in residual stand. Leave large crowned h maple component for viable seed source. Do not cut oak, hemlock, cedar, or yellow birch. avoid/buffer any vernal areas found during sale set up.</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> N hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u> areas of highly stocked h maple poletimber 5-9"dbh. r maple has prevalent defect. 140 BA</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
62 12127062-Cut	37.4	4130 - Aspen	Sawtimber Well	71	Unspecified	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> remove merchantable aspen, maple, w birch, balsam fir, spruce. where available leave 1 w birch and h maple per cruise point. leave the small inclusions of r maple/fir. exclude inclusions of b ash and conifers. do not cut y birch, b ash, hemlock, cedar, or w pine. protect as much as possible advanced maple regeneration</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed upland, aspen, maple, spruce/fir</p> <p><u>Regen:</u></p> <p><u>Other</u> highly stocked maple understory. areas of b ash drainages through stand. large diameter w pine component in NW of stand</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
64 12127064-Cut	37.2	4115 - Y.Birch, Hemlock NH	Sawtimber Well	65	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin to 70 BA. remove in order of priority, high risk trees and/or trees that will decrease in value before the next cutting cycle (20 yrs). Keep a large crowned h maple component for a viable seed source. Avoid thinning into hemlock groves. Do not cut y birch, w pine hemlock, cedar, b ash. exclude/buffer any vernal areas found during sale set up. protect advanced h maple regeneration through marking methods.</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> N hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u> Hemlock groves and single trees throughout stand. pockets of advanced h maple regeneration. very scattered basswood. N end of stand heavier to ironwood regeneration. scattered w birch, notably in E end. Avg BA 120</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment 216.8
Acreage Proposed:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 127

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
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Dominant Site Conditions

	Availability for Management			Dominant Site Conditions								
	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	2B	2F	2G	2H	3H	3J	5D	5E
562	522	0	40	Aspen		6		16		15		3
61	0	0	61	Cedar			5		56			
4	4	0	0	Herbaceous Openland								
64	0	0	64	Lowland Conifers				5	20	24	14	
33	0	0	33	Lowland Deciduous			33					
197	0	0	197	Lowland Mixed Forest			61		136			
199	199	0	0	Lowland Shrub								
52	45	0	7	Mixed Upland Deciduous						7		
292	273	19	0	Northern Hardwood	19							
7	7	0	0	Urban								
22	0	0	22	White Pine					22			
1,491	1,049	19	423	Total Forested Acres	19	6	98	21	234	46	14	3
	70%	1%	28%	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	2G: Too wet (sensitive soils, does not include access issues)	5	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 127

Year of Entry: 2023

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	136	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: deer winter use, very wet notably in b ash areas							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Ed Rice : Examiner

Compartment: 127
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9	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	22	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments: oversized w pine, little to no market value							
12	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: surrounded by water, bog and creeks							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 127

Year of Entry: 2023

15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	33	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5D: Unproductive Forest Land	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: isolated, small non productive stand							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	57	Unspecified	Unspecified	Unspecified	Unspecified
Comments: vernal ponds prevalent throughout the stand							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 127

Year of Entry: 2023

20	Available	2B: Unknown if access through adjacent landowner(s) is possible	19	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	31021 - Cool Season Grass	Nonstocked	3.6	0	Unspecified	Managed Opening	maintained hunter walking trail																																													
2	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	32.6	49	51-80	N/A	lowland interspersed with slightly higher ground knobs. well stocked w birch in areas. inclusions heavy to cedar throughout																																													
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3	4130 - Aspen	Sapling Well	31.5	25	Unspecified	N/A																																														
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4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	22.1	76	51-80	N/A	steep hill leading down to swamp. maple 7-18" dbh. 80 BA																																													
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5	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	20.3	102	Unspecified	N/A	areas with lower stocking scattered throughout. inclusions more heavily stocked to hemlock, yellow birch, r mapleheavy winter deer use																																													
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6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	19.1	75	111-140	N/A	variable maple diameters, 7 - 24" dbh. good h maple regen 10-20' tall in pockets. scattered hemlock. 120 BA																																													
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8	6220 - Alder/willow	Nonstocked	1.5		Unspecified	No	tag alder to Margesson Creek																																													



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9	6120 - Lowland Cedar	Poletimber Well	54.0	102	Unspecified	N/A	winter deer use																																														
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11	4134 - Aspen, Spruce/Fir	Poletimber Well	12.9	36	Unspecified	N/A	stand small poletimber, still fairly well stocked with submerchantable trees																																														
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12	122 - Road/Parking Lot	Nonstocked	7.0	0	Unspecified	No	Deerfoot Lodge Rd																																														
13	6220 - Alder/willow	Nonstocked	146.2		Unspecified	No	tag alder, open marsh and swamp grass with Margesson Creek																																														
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14	4130 - Aspen	Poletimber Well	120.6	35	Unspecified	N/A	aspen 3-10" , 3-4 sticks tall. stand is fairly open in understory. scattered upland b spruce with N1/2 of stand heavier to conifer component. small groves of r pine, w pine. very scattered w birch and j pine																																														
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15	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	7.2	60	81-110	N/A	small, narrow stand adjacent to bog pond																																														
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Sub-Canopy Species	Density	Avg. Height	Size																																																		
Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	4130 - Aspen	Sapling Well	15.5	25	Unspecified	N/A	edges cut off by beavers in past, upland brush, fir.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	2	
Paper Birch	5	Sapling	2	
Quaking Aspen	70	Sapling/Pole	3	25
Balsam Fir	10	Sapling/Pole	4	
White Spruce	5	Sapling/Pole	3	
Black Cherry	5	Sapling	3	

17	6220 - Alder/willow	Nonstocked	11.9		Unspecified	No	heavy tag alder, scattered cedar, tamarack. Margesson Creek
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18	6220 - Alder/willow	Nonstocked	11.6	0	Unspecified	No	creek, old beaver flowages and tag alder. scattered lowland conifers
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19	6124 - Lowland Spruce-Fir	Poletimber Well	23.5	56	51-80	N/A	lowland conifer stand adjacent to Margesson Creek and offshoot creek/drainage
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	30	Pole	7	56	Balsam Fir	Low	Variable	Seeding
Northern White Cedar	30	Log/Pole	10		Black Spruce	Low	Variable	Seeding
Tamarack	20	Pole	8		Tag Alder	High	5 - 10 feet	Tall Shrub
Balsam Fir	20	Pole	7					

20	4134 - Aspen, Spruce/Fir	Sapling Well	5.4	25	Immature	N/A	tamarack sapling regeneration at swamp edge of stand
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Sapling	3	25	Hazelnut (Spp.)	Low	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole/Sapling	6					

21	4130 - Aspen	Poletimber Well	22.9	35	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Sapling/Pole	4		Black Cherry	Medium	10 - 20 feet	Sapling
Paper Birch	5	Pole/Sapling	5					
Quaking Aspen	70	Pole	7	35				
White Spruce	5	Pole/Sapling	5					

22	4130 - Aspen	Poletimber Well	56.6	44	Unspecified	N/A	almost pure aspen stand. spruce/fir scattered in understory. very widely scattered oak. component of 10-12" aspen
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Pole/Sapling	7	44	Balsam Fir	Low	10 - 20 feet	Sapling
White Spruce	5	Pole/Sapling	6		Red Maple	Low	10 - 20 feet	Sapling
Red Maple	5	Pole/Sapling	6		Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
23	4115 - Y.Birch, Hemlock NH	Poletimber Well	7.9	55	81-110	N/A	W portion of stand highly stocked to h maple small poletimber and saplings. E 1/2 of stand holds more y birch, hemlock and aspen. scattered upland cedar. Transition stand to swamp to the E. 100BA																																						
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24	6220 - Alder/willow	Nonstocked	3.5		Unspecified	No	tag alder and swamp grass, old beaver meadows, creek																																						
25	6120 - Lowland Cedar	Poletimber Well	2.1	95	Unspecified	N/A	wintering deer																																						
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26	4112 - Maple, Beech, Cherry Association	Sawtimber Well	14.1	76	81-110	N/A	fair to good h maple sapling regen in pockets. W 1/2 higher stocked with ironwood saplings. scattered fir saplings. 110 BA																																						
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28	4134 - Aspen, Spruce/Fir	Sawtimber Well	5.6	65	Unspecified	N/A	much of stand is along steep ridge side																																						
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29	4130 - Aspen	Poletimber Well	26.8	45	81-110	N/A	aspen with fairly well stocking of maple, stand is variable but much of stand is in self conversion to n hardwoods. N end has higher percentage of maple understory.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30 4134 - Aspen, Spruce/Fir Sapling Well 2.0 25 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	70	Sapling	3	25
Balsam Fir	15	Sapling	3	25
White Spruce	15	Sapling	3	25

31 4112 - Maple, Beech, Cherry Association Sawtimber Well 93.0 65 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Log/Pole	11	65
Red Maple	30	Log/Pole	11	
Yellow Birch	5	Log	12	
Black Cherry	5	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	Pole
Ironwood	Medium	10 - 20 feet	Sapling

scattered vernal areas, one larger area N of Sartori's forty holding cedar, b ash, r maple. R maple, H maple 14-20" dbh and poletimber 4-7" dbh. scattered hemlock along W edge of stand. 110 BA underplanted with w pine several inventory cycles ago.

32 4130 - Aspen Sapling Well 35.3 16 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	
Paper Birch	10	Sapling	2	
Quaking Aspen	80	Sapling	2	16

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling

33 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 5.4 95 Unspecified N/A

N1/2 is old beaver pond, overtaken road

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Log/Pole	10	
Paper Birch	10	Pole	8	
Black Spruce	15	Pole	7	
Northern White Cedar	35	Log/Pole	10	95
Black Ash	5	Pole/Sapling	6	
Balsam Fir	20	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Seeding
White Spruce	Low	Variable	Seeding

34 4130 - Aspen Poletimber Medium 45.2 35 Unspecified N/A

stand just moving into poletimber size class, A5/A3

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Sapling	2	
Red Maple	15	Pole/Sapling	5	
Paper Birch	5	Sapling	3	
Quaking Aspen	70	Pole/Sapling	5	35
Balsam Fir	5	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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35 4130 - Aspen Sapling Well 16.1 24 Immature N/A along side and on top of rock ridge

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	65	Sapling	2	24
Red Maple	10	Sapling/Pole	3	
Sugar Maple	10	Sapling/Pole	3	
Paper Birch	10	Sapling	2	
Balsam Fir	5	Pole/Sapling	5	

37 6120 - Lowland Cedar Sawtimber Well 5.3 95 Unspecified N/A perched drainage, leading north

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	60	Log	11	95	Balsam Fir	Medium	10 - 20 feet	Sapling
White Spruce	5	Log/Pole	11					
Balsam Fir	20	Pole	7					
Yellow Birch	5	Log	11					
Black Ash	10	Pole	6					

38 4130 - Aspen Poletimber Medium 7.4 36 Unspecified N/A stand just moving into poletimber size class, A5

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling	3		Sugar Maple	Medium	5 - 10 feet	Sapling
Paper Birch	5	Sapling	3					
Quaking Aspen	70	Pole/Sapling	5	36				
Balsam Fir	5	Pole/Sapling	6					
White Spruce	5	Pole/Sapling	6					

39 4134 - Aspen, Spruce/Fir Poletimber Well 9.5 58 Unspecified N/A scattered y birch component

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	60	Pole/Log	9	58	Black Cherry	Low	10 - 20 feet	Sapling
Balsam Fir	10	Pole	7		Hazelnut (Spp.)	High	5 - 10 feet	Tall Shrub
White Spruce	10	Log	12		Red Maple	Low	10 - 20 feet	Sapling
Red Maple	10	Log/Pole	10		Paper Birch	Low	10 - 20 feet	Sapling
Paper Birch	10	Log	12					

41 4130 - Aspen Sapling Well 17.5 7 Immature N/A Harvested 2014- Clearcut for aspen regeneration along with spruce and fir. Retained a buffer around wetland area.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	85	Sapling	1	7
Balsam Fir	5	Pole/Sapling	5	
White Spruce	5	Sapling/Pole	4	
White Pine	5	XLog	18	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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42 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 14.7 75 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Pole/Log	9	
Red Maple	30	Log/Pole	10	75
Yellow Birch	10	Log	12	
Quaking Aspen	10	Log	10	
Balsam Fir	10	Pole/Sapling	7	
White Spruce	10	Pole	9	
Black Ash	10	Pole/Sapling	7	
Northern White Cedar	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling

43 4112 - Maple, Beech, Cherry Association Sawtimber Well 36.1 75 111-140 N/A

areas of highly stocked h maple poletimber 5-9"dbh. r maple has prevalent defect. 140 BA

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	40	Pole/Log	9	75
Red Maple	35	Log/Pole	10	
Yellow Birch	5	Log	12	
Basswood	5	Log	14	
Hemlock	5	Log	16	
Black Cherry	5	Log	12	
Northern White Cedar	5	Log/Pole	10	

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

44 4130 - Aspen Poletimber Well 7.8 36 Unspecified N/A

much of stand on hillside

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	5	
Quaking Aspen	80	Pole	6	36
Balsam Fir	5	Pole	7	
Black Cherry	5	Pole	5	
White Spruce	5	Pole	6	

45 6132 - Mixed Lowland Forest with Cedar Poletimber Well 3.2 45 51-80 N/A

low, vernal area

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Log/Pole	10	45
Yellow Birch	15	Pole	8	
Northern White Cedar	20	Log/Pole	10	
Hemlock	15	Log	16	
Black Ash	20	Pole/Sapling	7	
Balsam Fir	10	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Blue Ash	High	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
47	42200 - Natural White Pine	Sawtimber Well	21.8	102	111-140	N/A	small component of aspen/w birch/cherry in center of stand
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		5	XLog	20		Quaking Aspen	
White Pine		90	XLog	18	102	Hazelnut (Spp.)	
Quaking Aspen		5	Sapling/Pole	4		White Spruce	
						Density	
						Avg. Height	
						Size	
						winter deer use	
50	6139 - Mixed Lowland Forest	Poletimber Well	57.3	60	81-110	N/A	areas heavier stocked to b ash and tag alder, very wet in most areas - stand full of vernal ponds
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		25	Pole	8	60	Balsam Fir	
Yellow Birch		10	Log	12		Tag Alder	
White Spruce		20	Pole/Log	9			
Northern White Cedar		5	Log/Pole	10			
Hemlock		10	Log	16			
Balsam Fir		20	Pole/Sapling	7			
Black Ash		10	Pole/Sapling	7			
51	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.3	65	81-110	N/A	very scattered w pine and y birch. r maple has prevalent defect. 110 BA
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		45	Pole/Log	8		Sugar Maple	
Red Maple		55	Pole/Log	9	65	White Spruce	
						Density	
						Avg. Height	
						Size	
52	4112 - Maple, Beech, Cherry Association	Poletimber Well	54.5	75	81-110	N/A	pockets of good h maple regeneration. scattered hemlock. good y birch regeneration in areas. 90 BA
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		55	Pole/Log	9	75	Sugar Maple	
Red Maple		30	Log/Pole	10		Yellow Birch	
Yellow Birch		10	Log	12			
Black Cherry		5	Log	12			
53	4134 - Aspen, Spruce/Fir	Sapling Well	49.4	26	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		70	Sapling	3	26	Balsam Fir	
Balsam Fir		10	Sapling	3			
White Spruce		10	Sapling	3			
Red Maple		10	Sapling	2			
55	6124 - Lowland Spruce-Fir	Poletimber Poor	14.2	35	1-50	N/A	low to no productivity, very wet
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		25	Log/Pole	12	95	Tag Alder	
Balsam Fir		30	Pole/Sapling	6	35		
Black Spruce		25	Pole/Sapling	6			
Black Ash		20	Pole/Sapling	6			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
58	6139 - Mixed Lowland Forest	Poletimber Well	136.3	52	Unspecified	N/A	fingers of b ash, lowland hardwoods in W portion of stand leading out to and along Deerfoot Lodge Rd																																																
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59	4199 - Other Mixed Upland Deciduous	Sapling Well	30.2	33	Immature	N/A	very variable, open stand. stand had maple cut out in past, leaving oak and aspen to act as natural shelterwood. small pockets of spruce/fir. rolling hillswinter deer use																																																
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60	6220 - Alder/willow	Nonstocked	9.5		Unspecified	No	tag alder with creek																																																
62	4130 - Aspen	Sawtimber Well	37.4	71	Unspecified	N/A	highly stocked maple understory. areas of b ash drainages through stand. large diameter w pine component in NW of stand																																																
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63	6220 - Alder/willow	Nonstocked	14.5	0	Unspecified	No	series of old beaver ponds and marshes. scattered spruce/fir/cedar																																																
64	4115 - Y.Birch, Hemlock NH	Sawtimber Well	37.2	65	111-140	N/A	Hemlock groves and single trees throughout stand. pockets of advanced h maple regeneration. very scattered basswood. N end of stand heavier to ironwood regeneration. scattered w birch, notably in E end. Avg BA 120																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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65 4130 - Aspen Sapling Well 18.3 24 Unspecified N/A small lowland in S of stand

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Sapling	3	
Quaking Aspen	60	Sapling/Pole	3	24
Balsam Fir	5	Sapling/Pole	4	
Red Maple	25	Sapling	2	

66 4139 - Aspen, Mixed Deciduous Poletimber Well 18.2 34 Unspecified N/A aspen 4-6" dbh with well stocked r maple saplings in areas. very wet, rocks, boulders

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Sapling	3	34	Tag Alder	Medium	< 5 feet	Tall Shrub
Balsam Poplar	10	Sapling	3					
Balsam Fir	5	Sapling/Pole	4					
Red Maple	30	Sapling	2					
Paper Birch	5	Sapling	3					