



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12126

Entry Year 2023

Acreage: 1,523

County Iron

Management Area: Michigamme Reservoir

Revision Date: 2021-08-16

Stand Examiner:

Legal Description:

T44N R 32W Sections 4, 5, 8, 9, 16, 17

Identified Planning Goals:

Optimize sustainable timber production while enhancing and protecting wildlife habitat. Continue to sustainably balance the aspen age class acres. Continue northern hardwood management on a 20 year cycle. Protect the riparian areas and transition zones during management activity.

Soil and topography:

Soils are generally silt loams and sandy loams with areas of muck soils in the low ground areas. There are rocky outcrops in the west of the compartment. The topography ranges from fairly steep rolling to flat and drainages.

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

Contiguous block of state land, bounded on all sides by private. Access is available and has been no issue in the past.

Unique Natural Features:

The compartment is slightly in state ownership. Parcels of private ownerships border and are inside the compartment boundary. Active forest management has occurred and will continue within and surrounding the compartment.

Archeological, Historical, and Cultural Features:

Several previously identified.

Special Management Designations or Considerations:

Deer Wintering Complex

Watershed and Fisheries Considerations:

The Deer River (cold water trout stream) runs north – south through the compartment. It is largely bordered by tag alder flats and mixed swamp conifer. 300 foot buffer set backs should be applied during aspen stand management. There are multiple creeks running throughout the compartment.

Waterbodies within this compartment include Deer River and Shenky Creek. Both 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. Liver Lake borders the south portion and should receive a 100 foot buffer. Any other unnamed waterbodies should also receive 100ft buffer.

Wildlife Habitat Considerations:

Deer numbers are fair in the area. Wolves also use the compartment and the surrounding area. The compartment falls within the Deerfoot Deeryard Complex and is heavily utilized by wintering deer. Lowland conifer stands should be maintained and enhanced to continue to provide good winter cover.

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 and intrusives subcrop below the glacial drift. There is not a current economic use for these rocks. The Porter and Warner abandoned iron mines are located four miles to the west. Part of this compartment was previously leased for metallic exploration and potential may still exist. The nearest gravel pit is located in Section 16. There should be gravel potential in the compartment. There is no economic oil and gas production in the UP.

Vehicle Access:

Fair to poor. Access is severely limited during spring breakup. Much of the interior is accessed by winter only unimproved roads. Many are not drivable by 4x4 trucks. Access is also limited from private landowners.

Survey Needs:

Recreational Facilities and Opportunities:

None

Fire Protection:

Much of the compartment is composed of aspen timber types with balsam fir and hazel understory. Northern hardwoods and mixed conifer swamps also predominate. Access for fire suppression is fair overall. There also exist large expanses of bog and tag alder flats. Access for fire suppression vehicles in those forest types is severely limited. Fire suppression in these areas may wish to consider allowing fire to burn through these low ground areas and prevent its spread into the uplands. There are multiple private camps immediately adjacent to the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

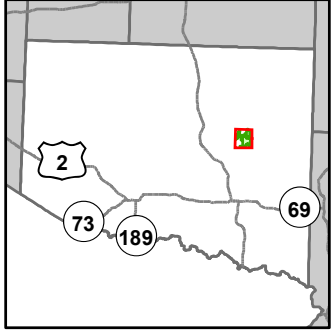
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

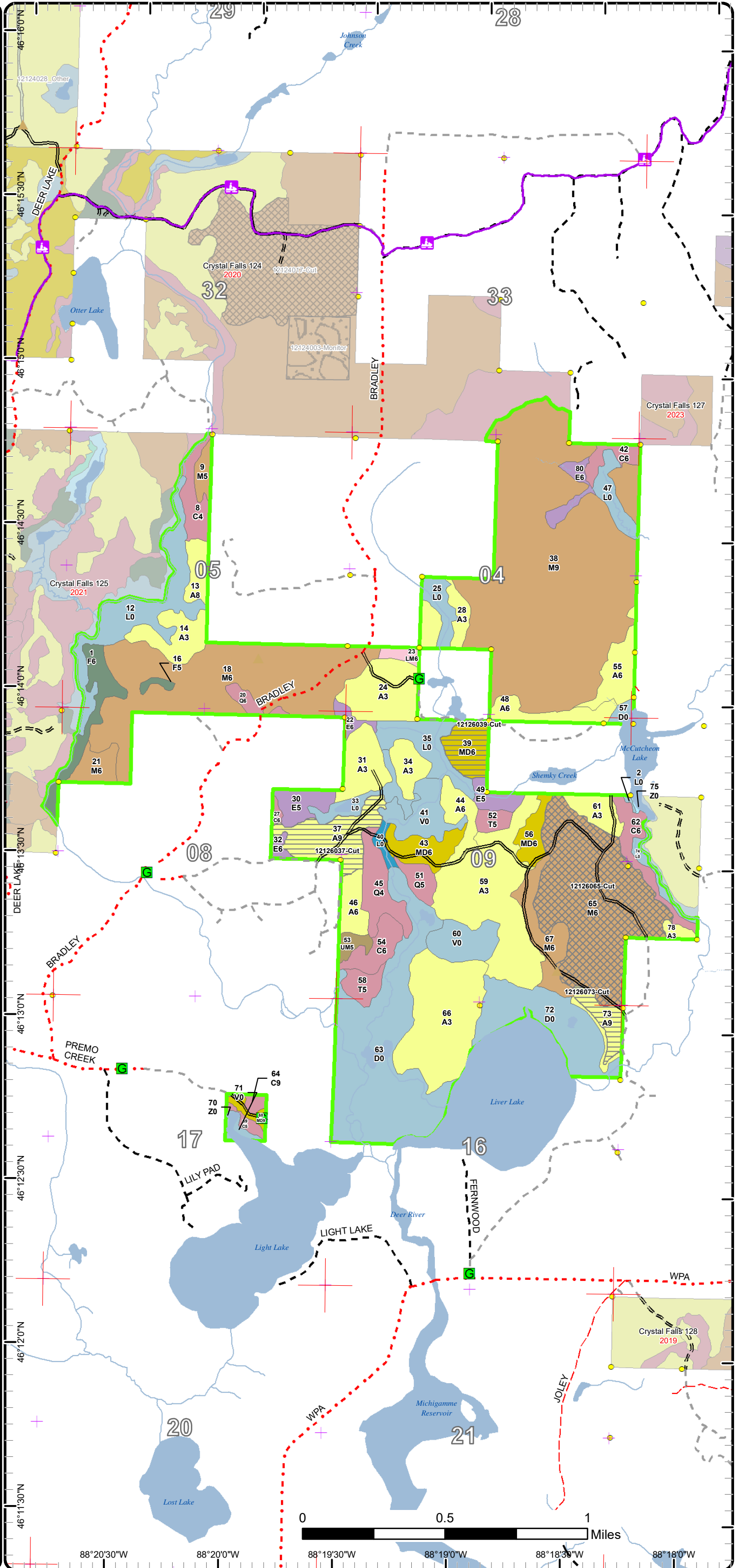
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 126
 T44N, R32W, Sec. 4, 5, 7-10, 16, 17
 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Michigamme Reservoir
 YOE: 2023
 Acres: 1523.1 GIS Calculated
 Examiner: Ed Rice
 Map Revised: 12/28/2021
 Map Phase: Post-Review

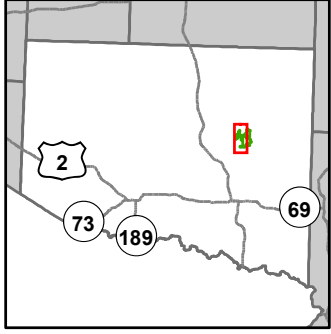


- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Drain
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- G Gate
- Compartment Boundary
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland

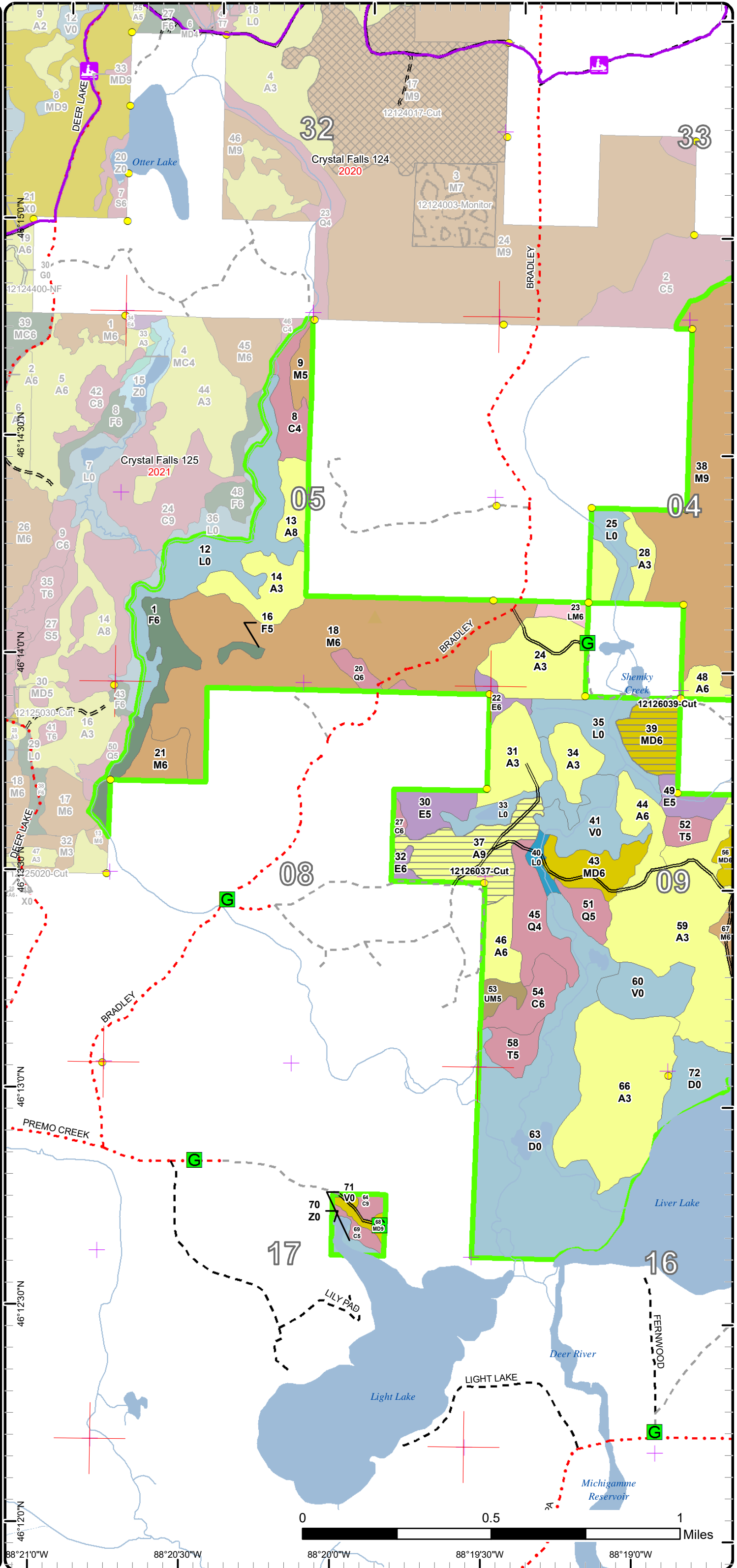


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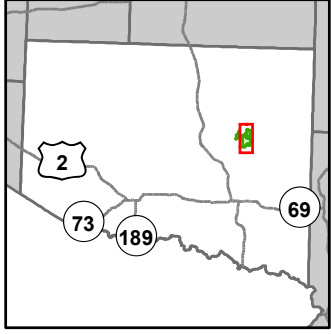


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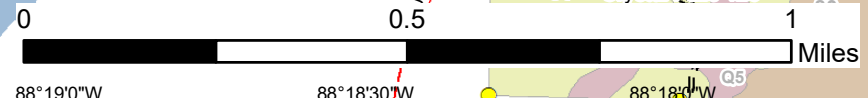
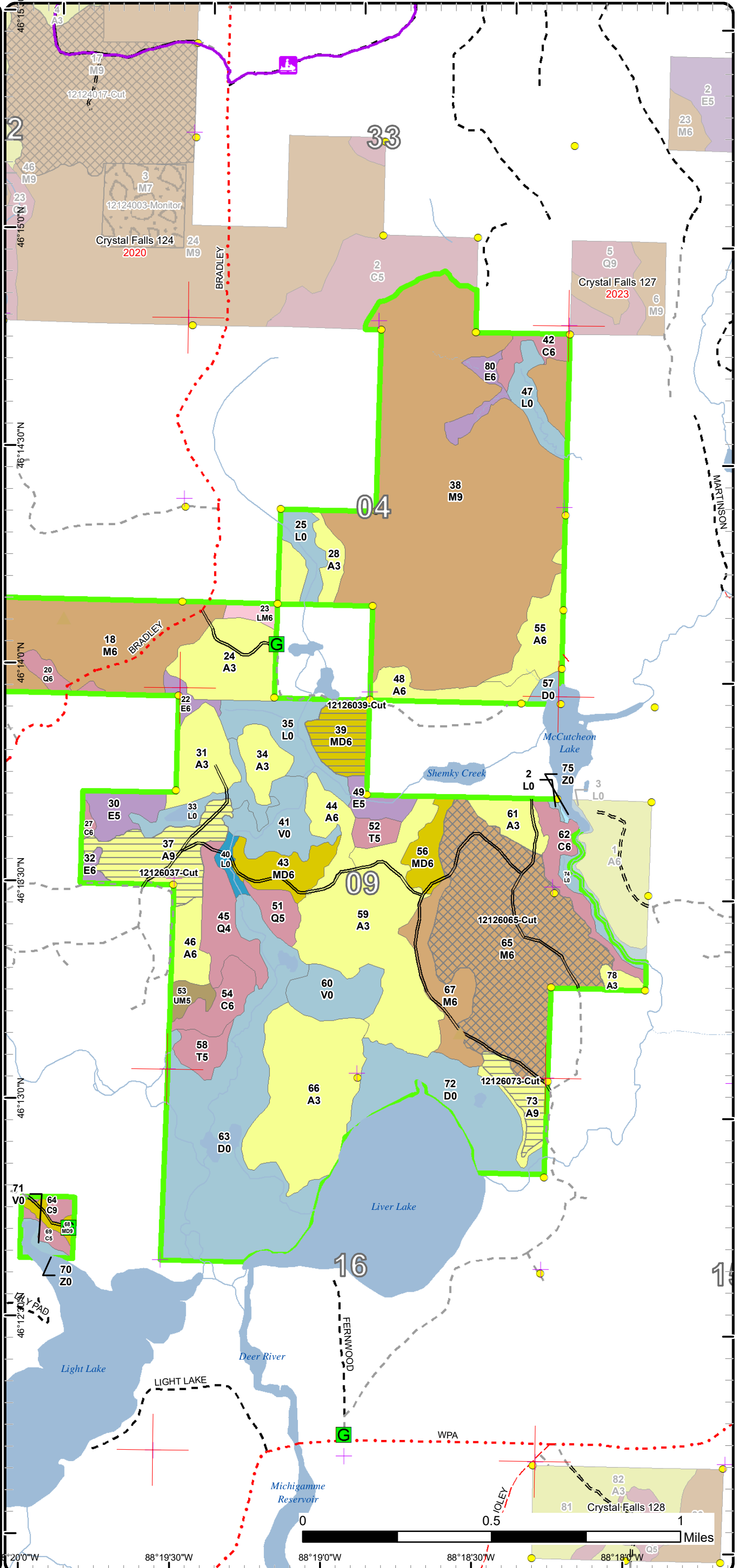


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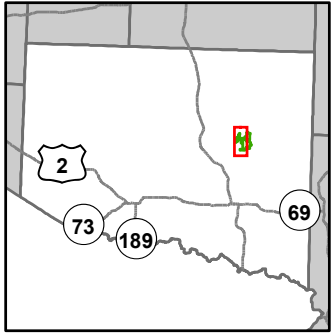


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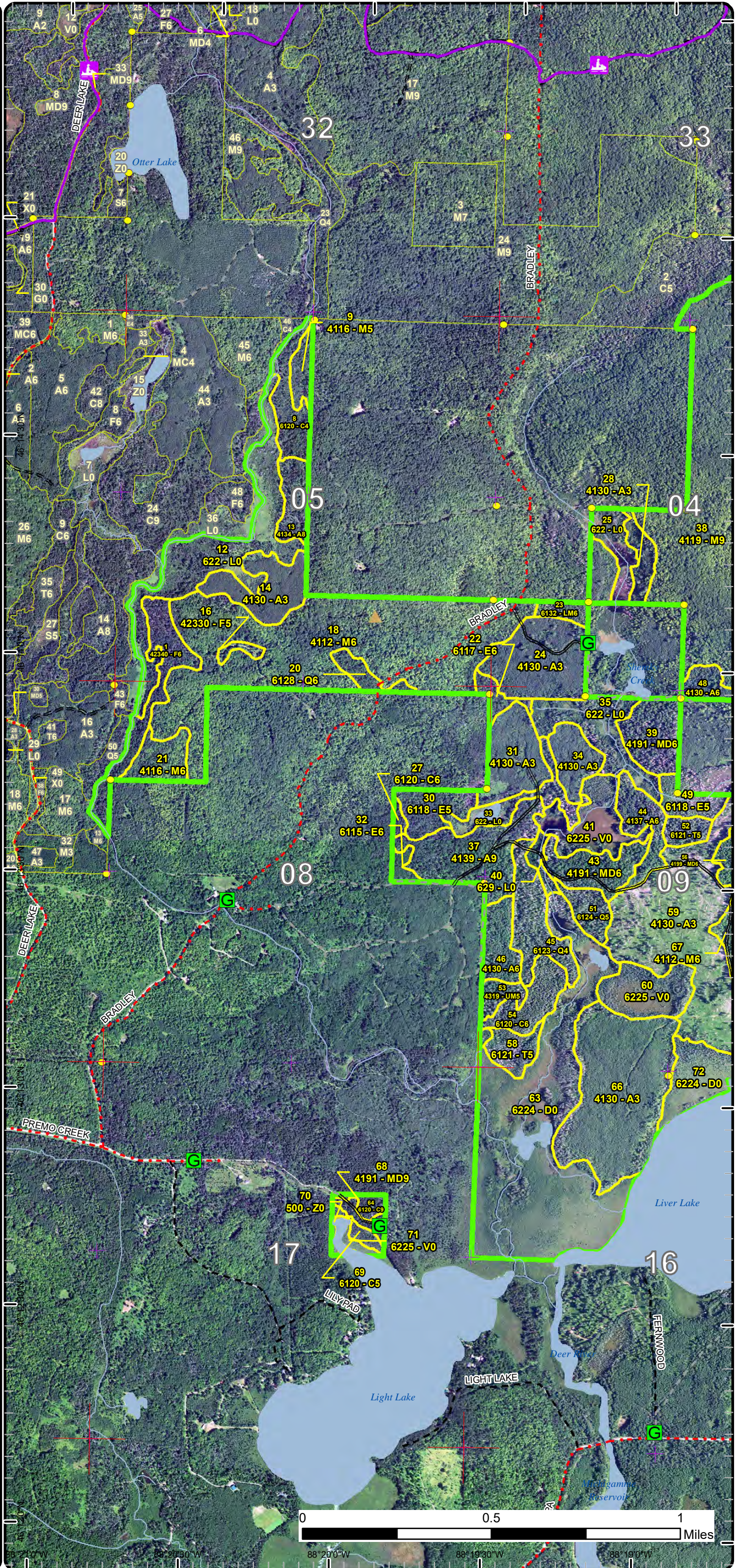


Stand Boundary Map

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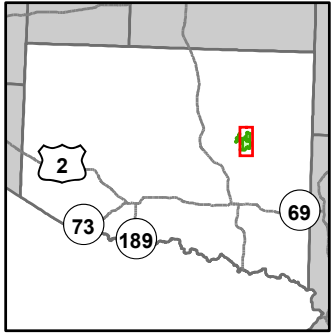


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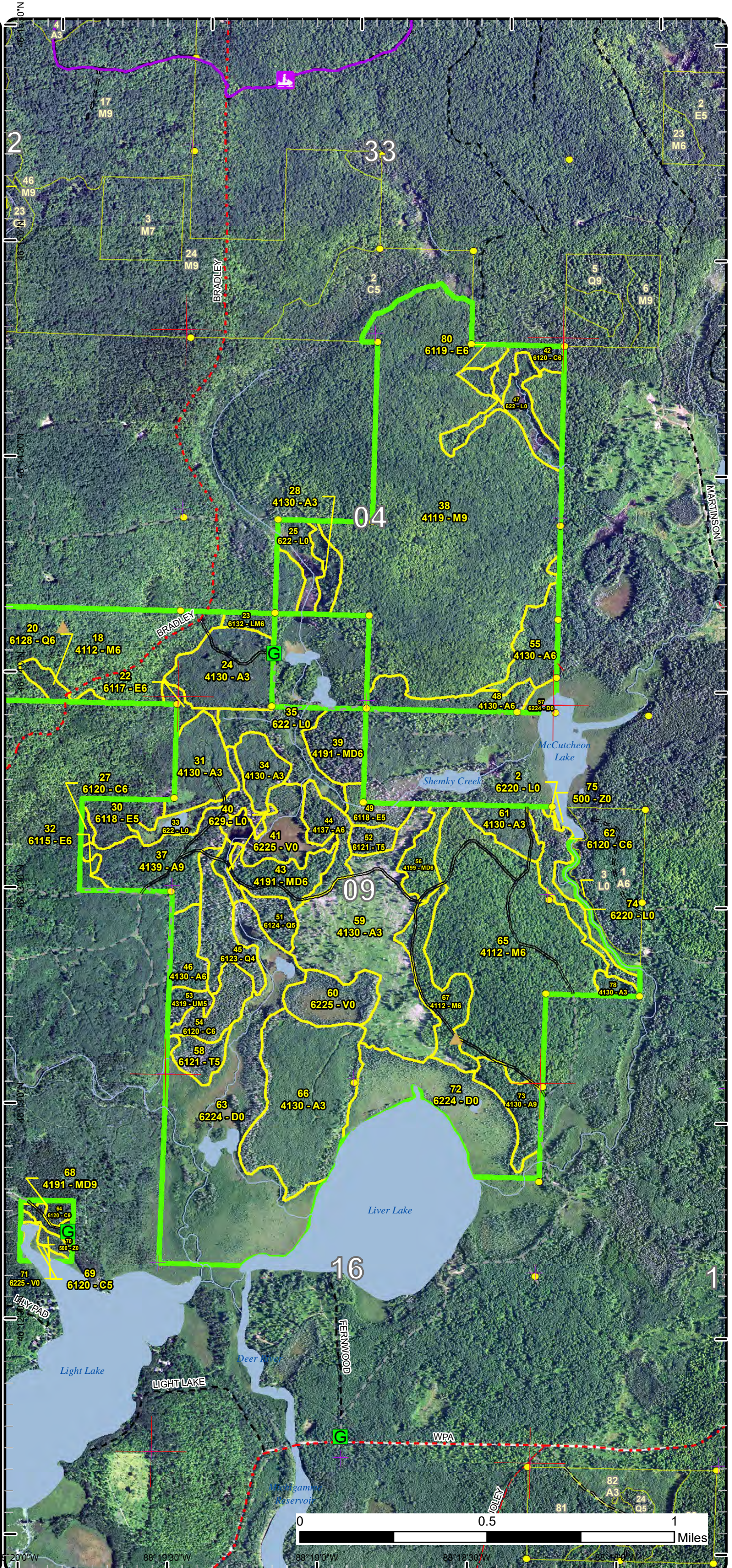


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Report 1 – Total Acres by Cover Type and Age Class



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	79	117	66	0	33	25	0	15	32	10	0	0	0	0	0	0	0	374
Bog	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Cedar	0	0	0	0	0	0	0	0	3	0	3	15	0	0	36	0	0	0	57
Lowland Conifers	0	0	0	0	0	0	20	0	14	0	0	0	0	0	0	0	0	0	34
Lowland Deciduous	0	0	0	0	0	0	8	15	12	0	0	0	0	0	0	0	0	0	35
Lowland Mixed Forest	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
Lowland Shrub	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114
Mixed Upland Deciduous	0	0	0	0	0	0	16	11	17	0	0	4	0	0	0	0	0	0	48
Northern Hardwood	0	0	0	0	0	0	17	283	0	0	0	0	0	0	0	0	0	289	589
Tamarack	0	0	0	0	0	0	0	9	6	0	0	0	0	0	0	0	0	0	15
Treed Bog	180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	180
Upland Mixed Forest	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Upland Spruce/Fir	0	0	0	0	0	0	2	20	0	0	0	0	0	0	0	0	0	0	22
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	340	79	117	66	0	33	88	342	67	37	13	19	0	0	36	0	0	289	1523



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 126
Total Compartment Acres: 1,523

Commercial Harvest - 184
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	43	0	0	0	0	0	0	0	0	43
Mixed Upland Deciduous	17	0	0	0	0	0	0	0	0	17
Northern Hardwood	0	124	0	0	0	0	0	0	0	124
Total	60	124	0	0	0	0	0	0	0	184

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	184	0	0	0	0	0	0	0	0	184
Next Step	0	0	0	0	0	184	0	0	0	184
Total	184	0	0	0	0	184	0	0	0	368



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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Approved Treatments:

37	12126037-Cut	32.0	4139 - Aspen, Mixed Deciduous	Sawtimber Well	82	Unspec ified	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> remove merchantable aspen, w birch, spruce, balsam fir, r maple, cherry. where available leave at least 1 w birch and/or cherry per cruise</p> <p><u>Specs:</u> point. do not cut y birch, b ash, w pine, r pine, cedar, or hemlock. protect/buffer any vernal areas found during sale set up. protect advanced sapling regeneration</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> upland mixed, aspen, maple, spruce/fir</p> <p><u>Regen:</u></p> <p><u>Other</u> very little understory. aspen is mature. areas with higher component of w birch, yet aspen still present. larger w spruce is mainly dead. very</p> <p><u>Comment:</u> scattered r pine, w pine, cherry S end has an inclusion of smaller aspen 7 - 9" dbh</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
39	12126039-Cut	17.0	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	77	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> remove merchantable aspen, maple, w birch, cherry, tamarack, spruce and balsam fir. where available, leave 1 w birch and/or cherry per</p> <p><u>Specs:</u> cruise plot. do not cut hemlock, w pine, r pine or oak. if any vernal areas are found, protect/buffer. protect as much as possible advanced sapling regeneration</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> upland mixed, aspen, maple spruce/fir</p> <p><u>Regen:</u></p> <p><u>Other</u> mature aspen. larger spruce has mainly fallen out. W end of stand heavier to w birch. scattered windthrow throughout. widely scattered</p> <p><u>Comment:</u> large w pine, cherry and tamarack. good winter deer usage.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
65	12126065-Cut	123.7	4112 - Maple, Beech, Cherry Association	Poletimber Well	67	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Thin to 70 BA. concentrate removals on high risk trees that will not survive, or will decrease in value to the next cutting cycle (20 yrs),</p> <p><u>Specs:</u> financially mature sawtimber/veneer, and if needed to reduce BA to target, thin from below. Keep and promote all age/size classes and species in the residual stand. Keep large crowned h maple component for viable seed source. Do not cut oak, y birch, basswood, cedar or w pine. buffer any vernal areas found by not marking within one tree length.</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> Fair to good quality hardwoods. open understory. areas of large boulders and rock. scattered oaks. BA 110</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
73 12126073-Cut	11.4	4130 - Aspen	Sawtimber Well	72	Unspecified	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> remove merchantable aspen, maple, w birch, spruce, balsam fir. where available, leave at least one w birch and/or cherry per cruise point.</p> <p><u>Specs:</u> do not cut oak, w pine, r pine, cedar. buffer adjacent lowlands - leave travel and cover corridor</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> upland mixed. aspen, maple, spruce/fir</p> <p><u>Other Comment:</u> mature aspen, fairly good h maple saplings/poles on higher hillside along the road. Aspen in SE corner of stand is of an older age class but will hold.heavily used by wintering deer, notably in transition area</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 184.1

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 126

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
375	331	35	9
43	43	0	0
58	0	0	58
34	0	0	34
35	0	0	35
4	0	0	4
114	113	0	0
48	28	0	20
588	560	6	22
14	0	0	14
180	180	0	0
5	5	0	0
23	2	0	20
3	3	0	0
1,523	1,265	41	217
	83%	3%	14%

Dominant Site Conditions

	Dominant Site Conditions												
	2B	5C	2A	2G	3B	3H	3J	3L	5D	5E			
Aspen	10	25					0	3				6	
Bog													
Cedar			0			30	28						
Lowland Conifers				6		8			20				
Lowland Deciduous				12		15	8						
Lowland Mixed Forest				4									
Lowland Shrub	0						0						
Mixed Upland Deciduous			4			16							
Northern Hardwood	6				22		0						
Tamarack				9			6						
Treed Bog													0
Upland Mixed Forest													
Upland Spruce/Fir						20							
Water							0						
Total Forested Acres	16	25	4	30	22	90	42	3	20	6			
Relative Percent													

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	2B: Unknown if access through adjacent landowner(s) is possible	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 126

Year of Entry: 2023

3	Unavailable	5D: Unproductive Forest Land	20	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2A: Adjacent landowner denied access	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	75	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	2B: Unknown if access through adjacent landowner(s) is possible	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: road needed through private land, stand bounded by private and swamp							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 126

Year of Entry: 2023

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: springs with boulders							
12	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 126

Year of Entry: 2023

13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3B: Threatened, endangered, and special concern species	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
hold to harvest with stand 37 next cutting cycle							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Ed Rice : Examiner

Compartment: 126

Year of Entry: 2023

19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: harvest next cutting cycle with stand 56							
21	Unavailable	3L: Other wildlife concerns	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: travel/transition corridor							

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.
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	42340 - Upland Spruce/Fir	Poletimber Well	20.4	60	81-110	N/A	mix of upland transitioning to lowland conifer and river floodplain.																																													
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2	6220 - Alder/willow	Nonstocked	0.6	0	Unspecified	No	heavy tag alder																																													
8	6120 - Lowland Cedar	Poletimber Poor	14.0	135	Unspecified	N/A	scattered large w. spruce. thick alder. pockets of nearly pure cedar with individual cedar scattered throughout. trace amounts of y. birch and w pine																																													
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9	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	6.2	58	51-80	N/A	fairly heavy red and hard maple saplings with pockets of good aspen saplings in more open areas. scattered w. birch snags. aspen has about all fallen out of the stand. heavy windthrow																																													
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12	622 - Lowland Shrub	Nonstocked	46.2		Unspecified	No	swamp grass openings interspersed among thick tag alder. widely scattered pockets of cedar, spruce, fir, and tamarack. Deer R. runs through stand. stand was heavily influenced by old logging dam activity.																																													
13	4134 - Aspen, Spruce/Fir	Sawtimber Medium	10.2	90	Unspecified	N/A	Aspen 6 - 7 sticks tall. w spruce 4 - 5 sticks. high % of windthrow on spruce/fir and aspen. heavy deer browse on r. maple seedlings/saplings																																													
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14	4130 - Aspen	Sapling Well	19.7	25	Unspecified	N/A	almost a pure aspen stand. widely scattered spruce/fir																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	42330 - Upland Fir	Poletimber Medium	2.2	50	Unspecified	N/A	old landing area growing in. pockets of A3 with scattered low quality, open grown maple and r. oak. scattered w. birch saplings. raspberries
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		20	Log	12		Quaking Aspen	
Red Oak		5	Log	14		Balsam Poplar	
Balsam Fir		75	Pole	8	50	White Pine	
						Density	
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18	4112 - Maple, Beech, Cherry Association	Poletimber Well	136.4	65	81-110	N/A	high stocking of h. maple saplings in areas. majority of stand has understory of dense ironwood saplings. very widely scattered w. pine sawtimber. Past thinning reduced areas of the stand to 40 - 50 BA, extremely thick component of ironwood, cherry and h. maple saplings. current BA 90
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		60	Pole/Log	10	65	Sugar Maple	
Red Maple		20	Pole	8		White Spruce	
Yellow Birch		5	Pole/Log	10		Ironwood	
Basswood		10	Log/Pole	12		Leatherwood	
Red Oak		5	Log	16			
20	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	5.6	78	Unspecified	N/A	scattered basswood. good cedar/hemlock at N. end of the stand. widely scattered tag alder. wet stand
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		15	Pole/Log	10		Yellow Birch	
Yellow Birch		5	Pole/Log	10		Balsam Fir	
Balsam Fir		5	Pole	8		Black Spruce	
Northern White Cedar		30	Log	12		Black Ash	
Hemlock		30	Log	14	78		
Black Ash		15	Pole	8			
21	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	11.0	50	81-110	N/A	fair form, W end of stand has higher % of aspen 100 BA
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		30	Pole/Log	10		Sugar Maple	
Red Maple		30	Pole	8	50	Red Maple	
Basswood		10	Pole	8		White Spruce	
Red Oak		5	Log	14		Ironwood	
Paper Birch		5	Log	12			
Quaking Aspen		20	Log/Pole	12	60		
22	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	4.4	62	Unspecified	N/A	SW corner had C6 inclusion. good amounts of b. ash saplings (E3)
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Pole	8		Black Spruce	
Yellow Birch		10	Pole	8		Black Ash	
Paper Birch		20	Pole/Log	8		Tag Alder	
Black Spruce		5	Pole	8			
Northern White Cedar		15	Pole/Log	10			
Black Ash		30	Pole	8	62		



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23	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	4.2	60	Unspecified	N/A	W. side heavier to cedar. very wet ground																																																			
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24	4130 - Aspen	Sapling Well	31.8	25	Unspecified	N/A	A3, 3-5" dbh, scattered trees just moving into poletimber size class. associated large diameter r. pine and w. pine, scattered w spruce, fir understory. H. maple stump sprouts. associated hazel understory																																																			
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25	622 - Lowland Shrub	Nonstocked	10.4		Unspecified	No	tag alder/beaver pond with creek. pockets of half - drowned cedar																																																			
27	6120 - Lowland Cedar	Poletimber Well	1.7	105	Unspecified	N/A	good cedar canopy. good winter deer usage																																																			
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28	4130 - Aspen	Sapling Well	14.1	25	Unspecified	N/A	scattered aspen just moving into poletimber size class. along edges of beaver pond where aspen had been cut off by beaver, pin cherry and heavier hazel predominate. Much of previously N end of the stand is converted to beaver dam																																																			
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30	6118 - Lowland Deciduous with Cedar	Poletimber Medium	12.4	72	Unspecified	N/A	good cedar 8 - 16" dbh. areas heavy to b ash saplings. thick tag alder understory. far W end has slightly higher ground																																																			
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31	4130 - Aspen	Sapling Well	21.0	16	Unspecified	N/A	widely scattered w pine and b cherry. heavy winter deer usage in riparian buffers																																																			
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32	6115 - Lowland Ash	Poletimber Well	3.0	62	Unspecified	N/A	wet ground, heavy b ash saplings																																																			
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33	622 - Lowland Shrub	Nonstocked	12.8		Unspecified	No	tag alder. scattered b. cherry, aspen, fir/spruce. wet drainage with intermittant creek																																																			
34	4130 - Aspen	Sapling Well	11.8	16	Unspecified	N/A	heavy winter deer usage in riparian buffer strips																																																			
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35	622 - Lowland Shrub	Nonstocked	22.9		Unspecified	No	series of old beaver dams and meadows. scattered pockets of cedar, b spruce, and tamarack. Shemky Creek runs through stand																																																			
37	4139 - Aspen, Mixed Deciduous	Sawtimber Well	32.0	82	Unspecified	N/A	very little understory. aspen is mature. areas with higher component of w birch, yet aspen still present. larger w spruce is mainly dead. very scattered r pine, w pine, cherry S end has an inclusion of smaller aspen 7 - 9" dbh																																																			
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39	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	17.0	77	51-80	N/A	mature aspen. larger spruce has mainly fallen out. W end of stand heavier to w birch. scattered windthrow throughout. widely scattered large w pine, cherry and tamarack. good winter deer usage.																																																
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41	6225 - Bog	Nonstocked	20.9		Unspecified	No	open bog. widely scattered stunted b spruce sapling sized trees.																																																
42	6120 - Lowland Cedar	Poletimber Well	7.9	130	Unspecified	N/A	good cedar. small deer "yard area" for thermal cover - good winter deer usage. W end of stand heavy to b ash and balm. multiple drainages.																																																
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43	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	16.1	58	Unspecified	N/A	w birch is healthy overall, scattered top die back, notably in E end of stand, 3 - 4 stick heights. fir/spruce saplings in small pockets. larger w spruce largely dead. Aspen 8 - 12" dbh. far N end of stand heavier to aspen																																																
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44	4137 - Aspen, Birch	Poletimber Well	13.2	53	Unspecified	N/A	w birch 7 - 12" dbh, showing some top die back. aspen 4 - 6 sticks 6 - 12" dbh. very dense fir/spruce saplings along old road leading N into stand.																																														
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45	6123 - Lowland Fir	Poletimber Poor	20.2	50	Unspecified	N/A	small cedar groves 12 - 18" dbh, thick tag alder. smaller, higher ground inclusions holding w spruce, fir, aspen, w birch. these areas are not big enough for commercial harvest and the access problems. stand overall is sparse with tag alder filling in between openings. good amounts of small balm 5 - 7" dbh in areas.																																														
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46	4130 - Aspen	Poletimber Well	11.8	53	Unspecified	N/A	Aspen 5 - 6 sticks tall. w spruce largely dead. pockets of F3. small area of old windthrow on spruce/fir along W edge of stand - heavier hazel understory in this area.																																														
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47	622 - Lowland Shrub	Nonstocked	11.6		Unspecified	No	heavy tag alder - old beaver meadows. creek runs through stand. Isolated pockets of cedar.																																														
48	4130 - Aspen	Poletimber Well	15.3	41	Unspecified	N/A	aspen 6 - 8" dbh, 3 - 4 sticks tall. scatted large w pine 18 - 22" dbh. heavier fir in transition area. fairly steep N. end - rock outcrops																																														
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49	6118 - Lowland Deciduous with Cedar	Poletimber Medium	8.1	50	Unspecified	N/A	very wet - thick tag alder understory																																														
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51	6124 - Lowland Spruce-Fir	Poletimber Medium	8.1	71	Unspecified	N/A	heavy tag alder. good b spruce, fir saplings 2 - 10' tall. scattered dead tamarack. occasional balm.																																																					
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52	6121 - Tamarack	Poletimber Medium	5.6	70	Unspecified	N/A	good tamarack 6 -12" dbh, 4 - 6 sticks tall. good associated b spruce 4 stick heights. very widely scattered cedar. thick tag alder understory in areas.																																																					
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53	4319 - Mixed Upland Forest	Poletimber Medium	5.1	80	51-80	N/A	Aspen 10 - 12" dbh in good shape. heavy windthrow several years ago on spruce/fir - heavy hazel in this area. very S end of stand the spruce/fir has held.																																																					
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54	6120 - Lowland Cedar	Poletimber Well	13.7	102	Unspecified	N/A	good cedar. heavy winter deer usage for thermal cover. Heavy tag alder along E edge of stand.																																																					
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55	4130 - Aspen	Poletimber Well	17.8	41	Unspecified	N/A	aspen 3 - 8" dbh, 3 - 5 sticks. heavy b ash saplings rock outcrop along W side with associated springs coming out of hill side																																																					
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56	4199 - Other Mixed Upland Deciduous	Poletimber Well	10.9	67	81-110	N/A	A6 M6, maple saplings throughout. Aspen is 7 - 9" dbh. areas of rock outcrop in N 1/2.																																																					
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57	6224 - Treed Bog	Nonstocked	3.6		Unspecified	No	spruce bog with tal alder along lake. b spruce stunted with scattered cedar.																																						
58	6121 - Tamarack	Poletimber Medium	8.7	65	Unspecified	N/A	tamarack 5 - 8" dbh, 4 sticks tall. very wet area - transition to open bog/creek. majority of associated cedar is dead due to high water.																																						
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59	4130 - Aspen	Sapling Well	78.5	6	Immature	N/A	stand cut winter 2016 per prescription below. regenerating to aspen																																						
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60	6225 - Bog	Nonstocked	18.9		Unspecified	No	leatherleaf bog ringed with b spruce and tamarack. fairly dense b spruce along edges but quickly transitions to open bog																																						
61	4130 - Aspen	Sapling Well	11.6	15	Unspecified	N/A	stand just starting to show growth into scattered poletimber. very widely scattered large w pine																																						
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62	6120 - Lowland Cedar	Poletimber Well	14.5	130	Unspecified	N/A	fairly thick fir sapling undestory. N end transitions to more upland with higher component of fir. heavy winter deer usage.																																						
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64	6120 - Lowland Cedar	Sawtimber Well	3.1	95	Unspecified	N/A	good cedar with areas of thick tag alder. very SW has heavy alder with balm, spruce/fir. heavy winter deer usage																																						
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65	4112 - Maple, Beech, Cherry Association	Poletimber Well	123.7	67	111-140	N/A	Fair to good quality hardwoods. open understory. areas of large boulders and rock. scattered oaks. BA 110																																							
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67	4112 - Maple, Beech, Cherry Association	Poletimber Well	22.5	67	51-80	N/A	Hardwoods are 4 - 7" dbh. very scattered r oak. Cut in the winter of 2016 following prescription below.																																							
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68	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	3.6	106	51-80	N/A	pocket of natural r pine (R9) in SW of stand - well formed trees 10 - 12 sticks high. old aspen 7 - 9 sticks tall 14 - 16" dbh. very scattered w pine poletimber. r pine sawtimber scattered throughout the stand.																																							
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69	6120 - Lowland Cedar	Poletimber Medium	3.1	70	Unspecified	N/A	cedar 1 - 3 sticks tall. good pure cedar stand. widely scattered b spruce. good winter deer usage																																							
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70	500 - Water	Nonstocked	1.6		Unspecified	No	Light Lake																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
71	6225 - Bog	Nonstocked	3.0		Unspecified	No	bog along edge of Light Lake																																	
72	6224 - Treed Bog	Nonstocked	50.7		Unspecified	No	heavy tag alder overall. as edges transition towards higher ground, pockets of tamarack and b spruce are present. otherwise widely scattered stunted single trees. leatherleaf bog along Light Lake.																																	
73	4130 - Aspen	Sawtimber Well	14.5	72	Unspecified	N/A	mature aspen, fairly good h maple saplings/poles on higher hillside along the road. Aspen in SE corner of stand is of an older age class but will hold. heavily used by wintering deer, notably in transition area																																	
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74	6220 - Alder/willow	Nonstocked	5.5		Unspecified	No	tag alder along creek																																	
75	500 - Water	Nonstocked	1.1		Unspecified	No	pond																																	
78	4130 - Aspen	Sapling Well	3.4	16	Immature	N/A	starting to grow into scattered small poletimber																																	
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80	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	7.4	60	Unspecified	N/A	E end heavy to mature balm right along a drainage. W end transitions to b ash/y birch with hemlock at edges																																	
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