



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12037

Entry Year 2023

Acreage: 1,613

County Dickinson

Management Area: Ralph Ground Moraine

Revision Date: 2021-08-16

Stand Examiner:

Legal Description:

T43N-R28W Sections 21-22, 27-28, & 33-34

Identified Planning Goals:

Manage for best tree species based on Kotar habitat recommendations. Maintain a sustainable, healthy forest with diversity. Optimize sustainable timber production while enhancing and protecting wildlife habitat, particularly deer winter range. Continue to sustainably balance the aspen age class acres. Protect the riparian areas and transition zones during management activity.

Soil and topography:

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

Has some corporate land as well as other private landowners surrounding the compartment.

Unique Natural Features:

Two underground pipelines cross the south portion of the compartment

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

Winter deer range

Watershed and Fisheries Considerations:

This compartment contains the Main Branch of the Ford River and an unnamed stream that serves as tributary to Pickerel Lake. The Main Branch of the Ford River is designated a Type 1 trout stream less than 50' width and has predicted mean July temperatures that range from 67.3 to 68.8 °F (cool stream). 300' buffers are recommended for the Main Branch of the Ford River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

The unnamed stream that serves as tributary to Pickerel Lake is a non-designated stream less than 50' width. 100' plus 5' per 1% increase in slope; buffers are recommended for this stream to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment includes the Pickerel Lake Deeryard. This is a very diverse deeryard that contains fir/spruce, natural red and white pine and significant amount of reproduction of each in the uplands and transition zones with cedar and black spruce in the lowlands. Interspersed forage areas are accessible from conifer cover and provide a valuable source of browse throughout the winter. Openings will be maintained as logistics allow.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The closest active sand/gravel pit is approximately five miles to the northeast. There may be some potential for sand & gravel within the compartment on the upland drumlins. Past iron ore exploration two to four miles southwest of the compartment, but no mining has occurred in the area. In addition, there was one metallic mineral test well drilled within the compartment in the early 1980s. Potential for metallic minerals beneath the compartment is considered low at this time, and there is no current metallic mineral leasing activity in the area. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights

Vehicle Access:

Accessed from County Road 581, Turner Road and various two-track dirt roads and trails.

Survey Needs:

Some will be needed

Recreational Facilities and Opportunities:

Hunting, fishing, camping, trapping.

Fire Protection:

Felch protection area.

Additional Compartment Information:

The following reports from the Inventory are attached:

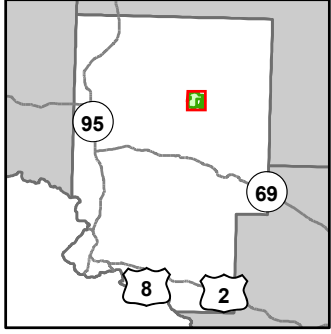
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

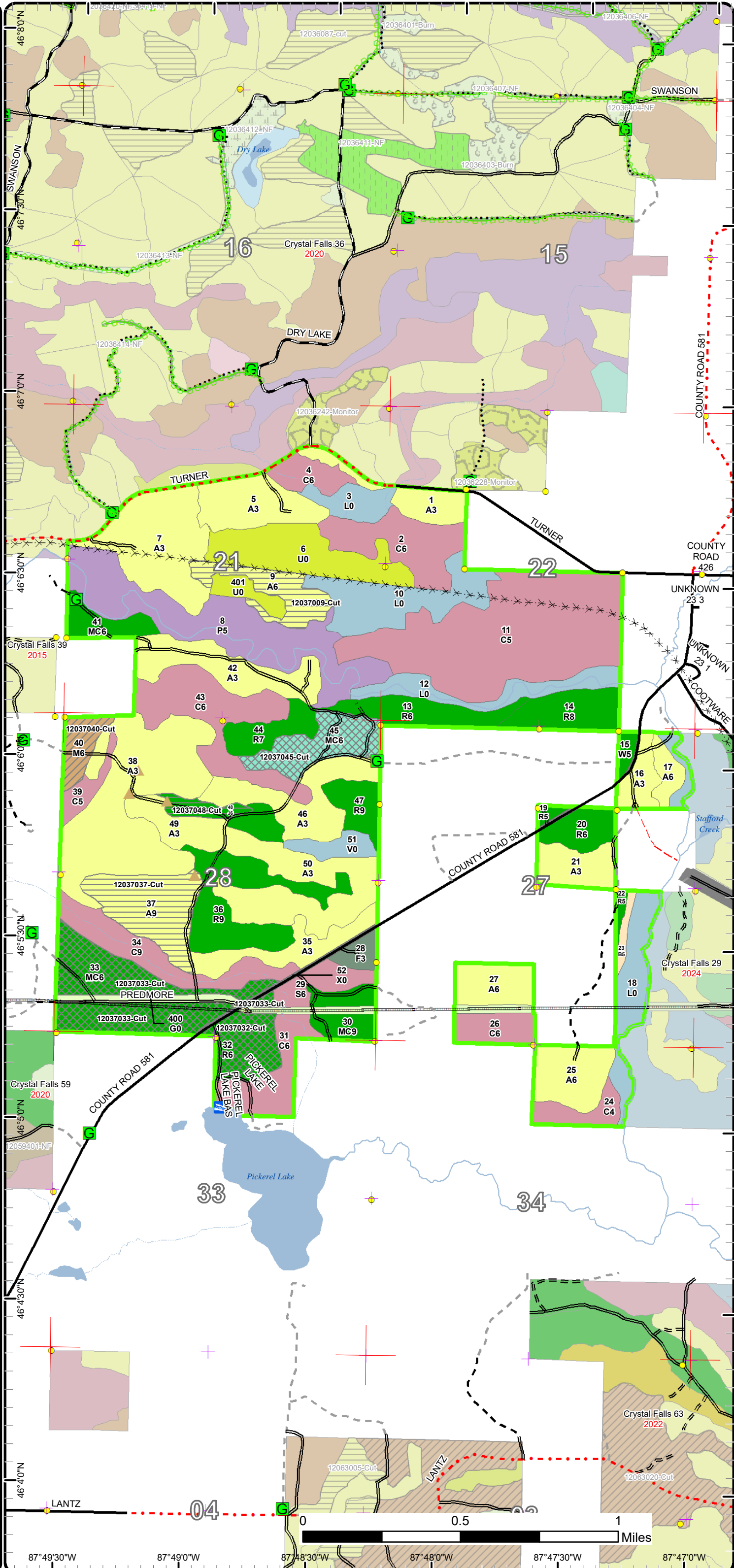
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 37
 T43N, R28W, Sec. 21, 22, 27, 28,
 33, 34
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2023
 Acres: 1613.2 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 12/28/2021
 Map Phase: Post-Review



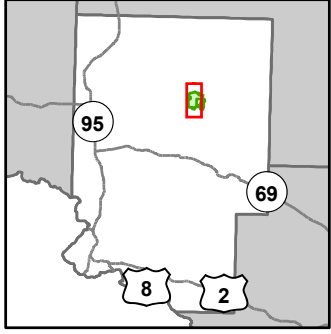
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
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- DNR - Secondary Forest Road
- DNR - Forest Access Route
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- Lakes and Rivers
- Berms
- Gate
- Boating Access Site
- Pipeline
- Airports
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 414 - Other Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub



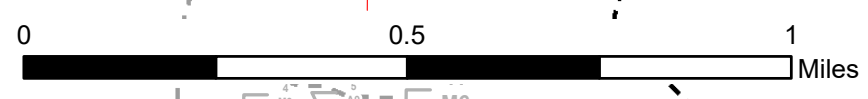
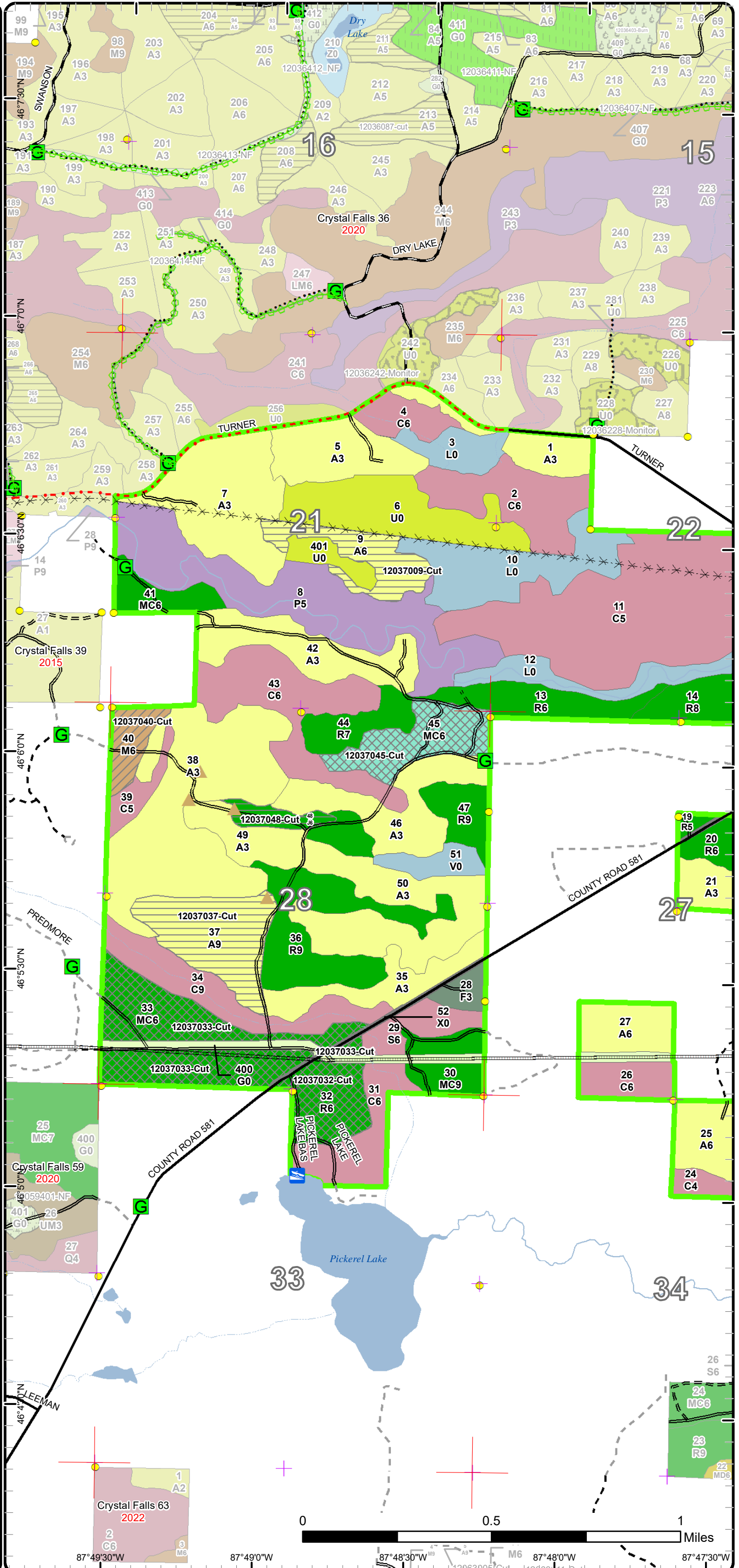
87°49'30"W 87°49'0"W 87°48'30"W 87°48'0"W 87°47'30"W 87°47'0"W

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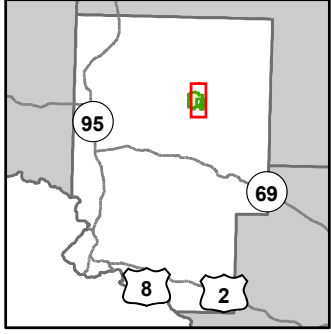
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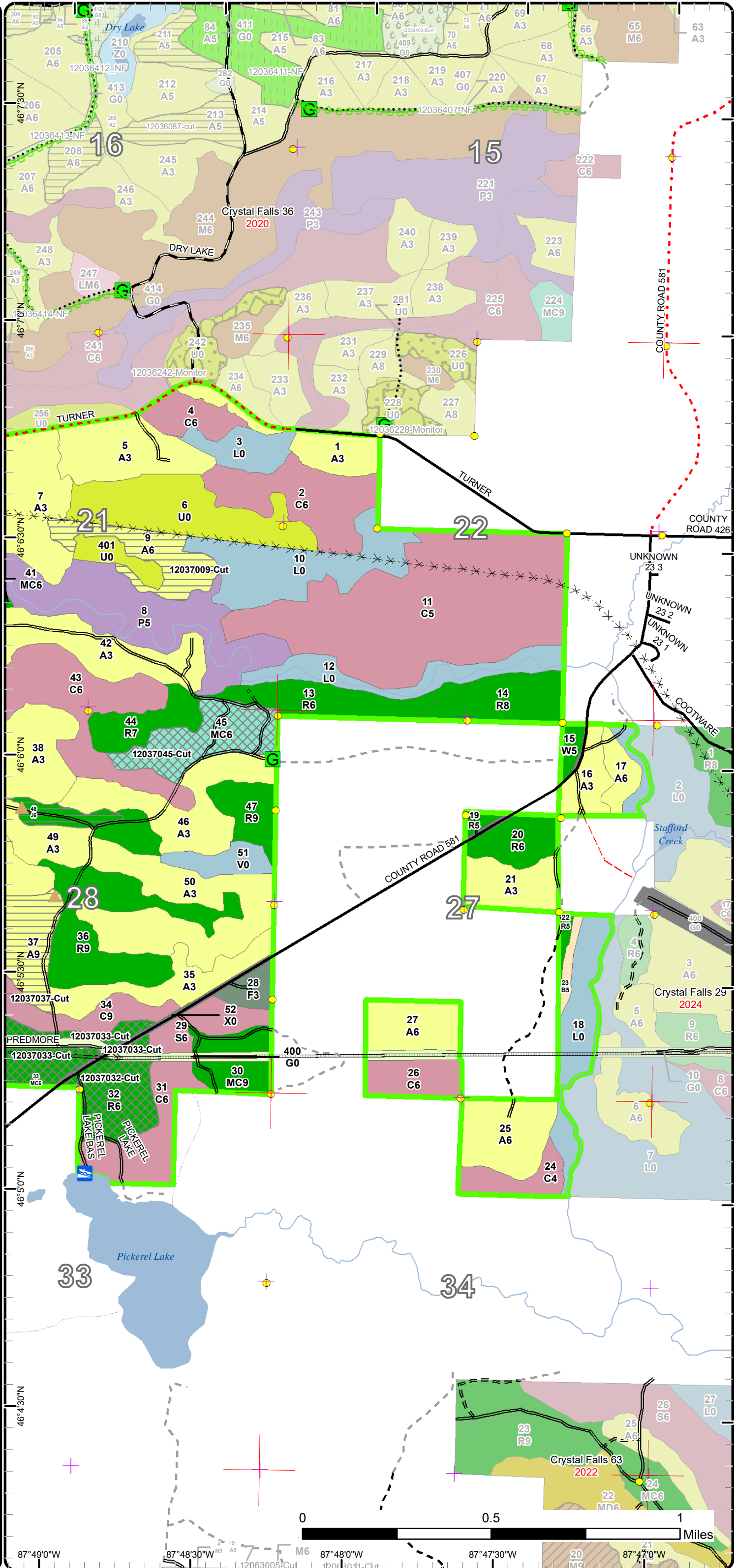
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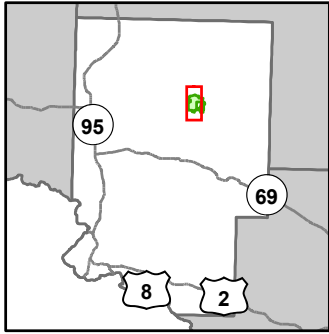


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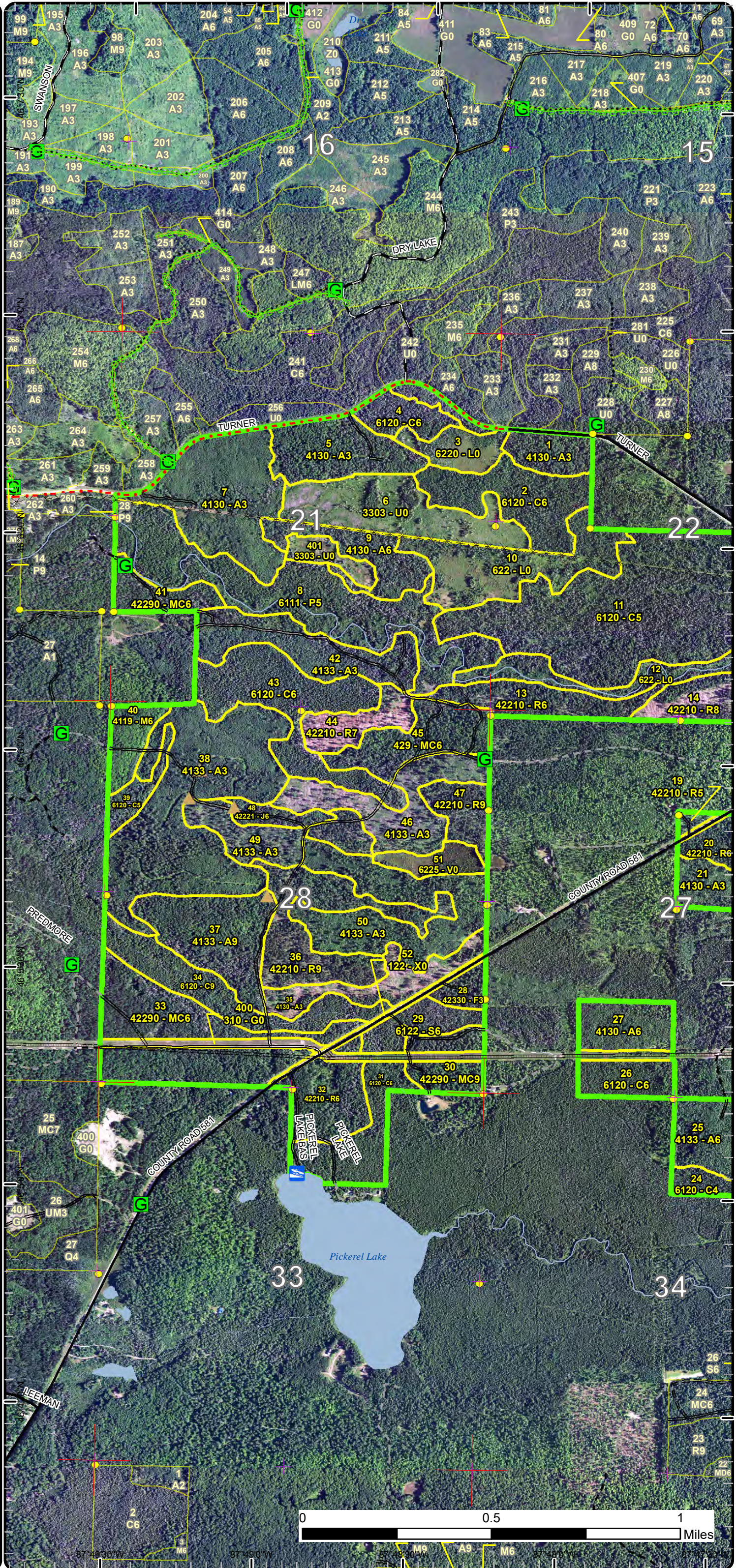


Stand Boundary Map

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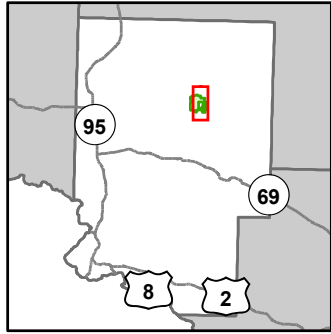


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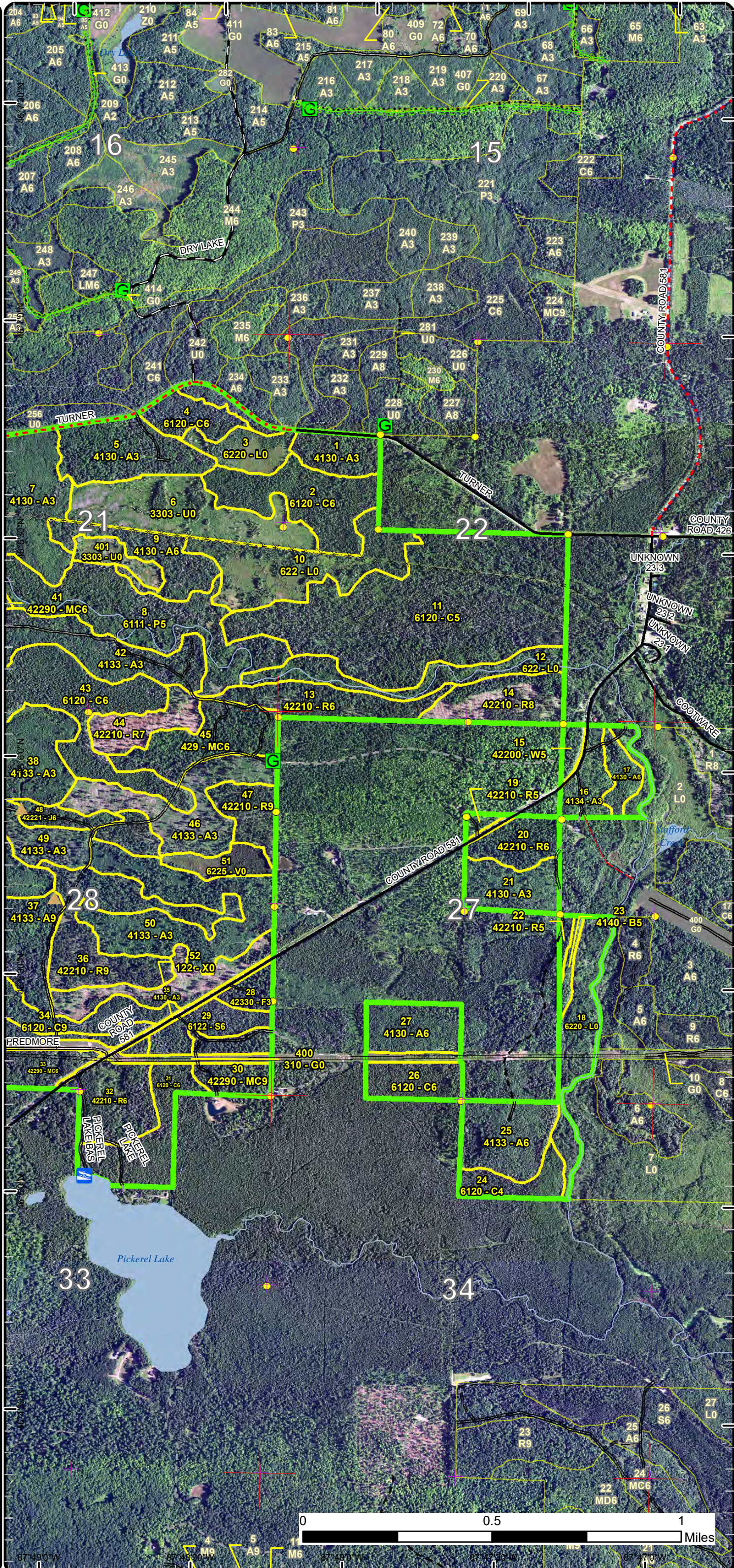


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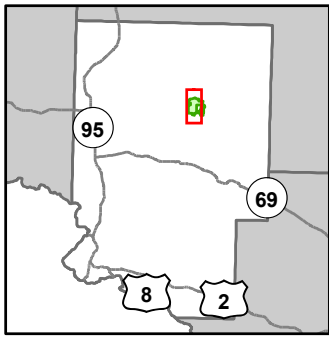


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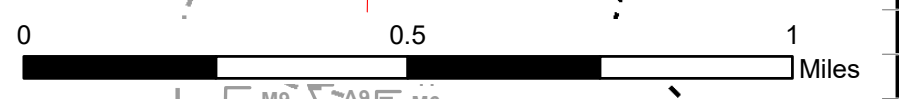
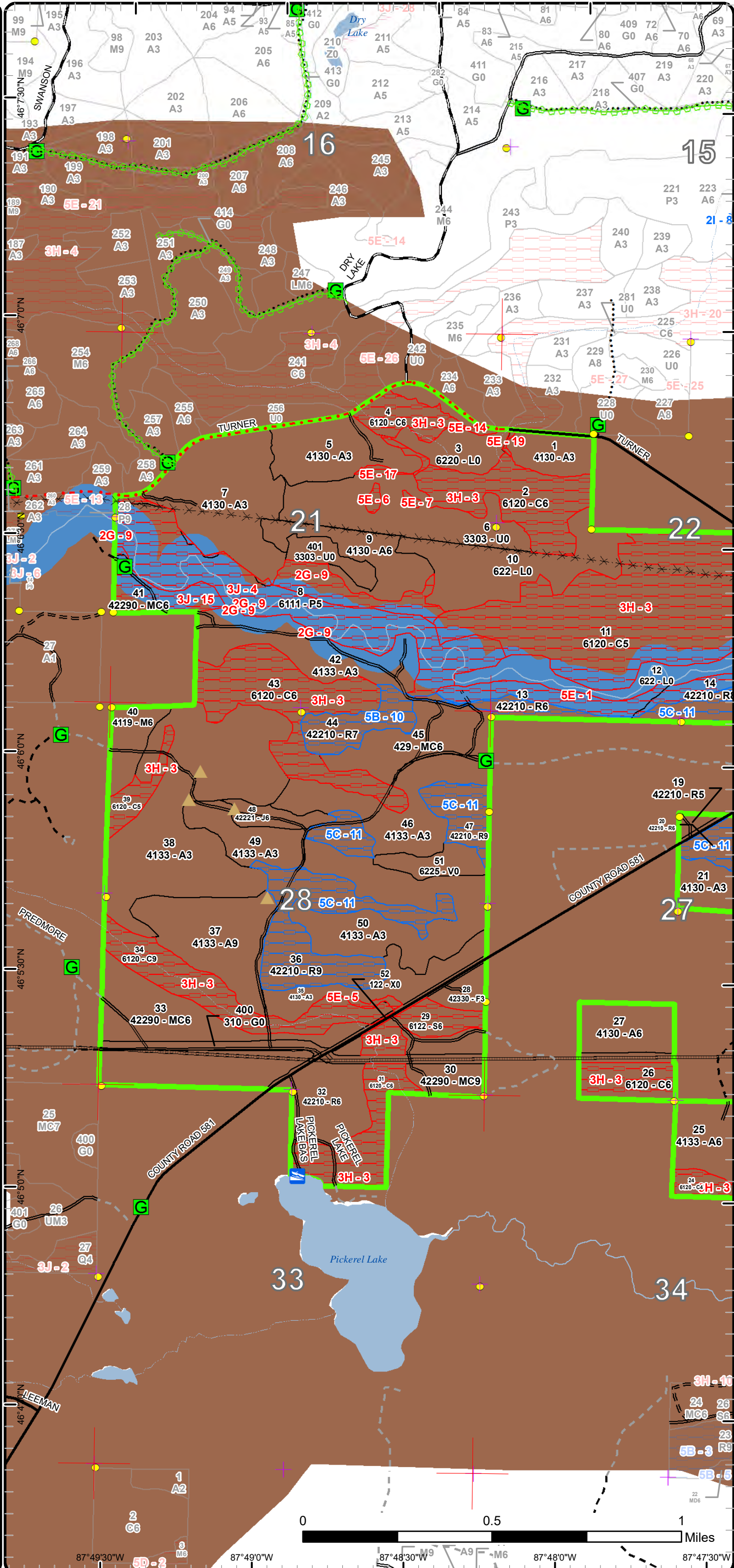


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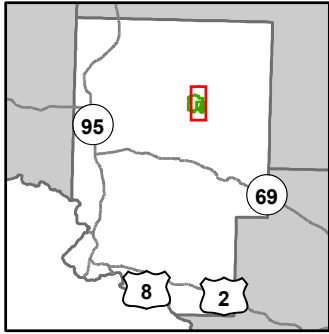
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- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range



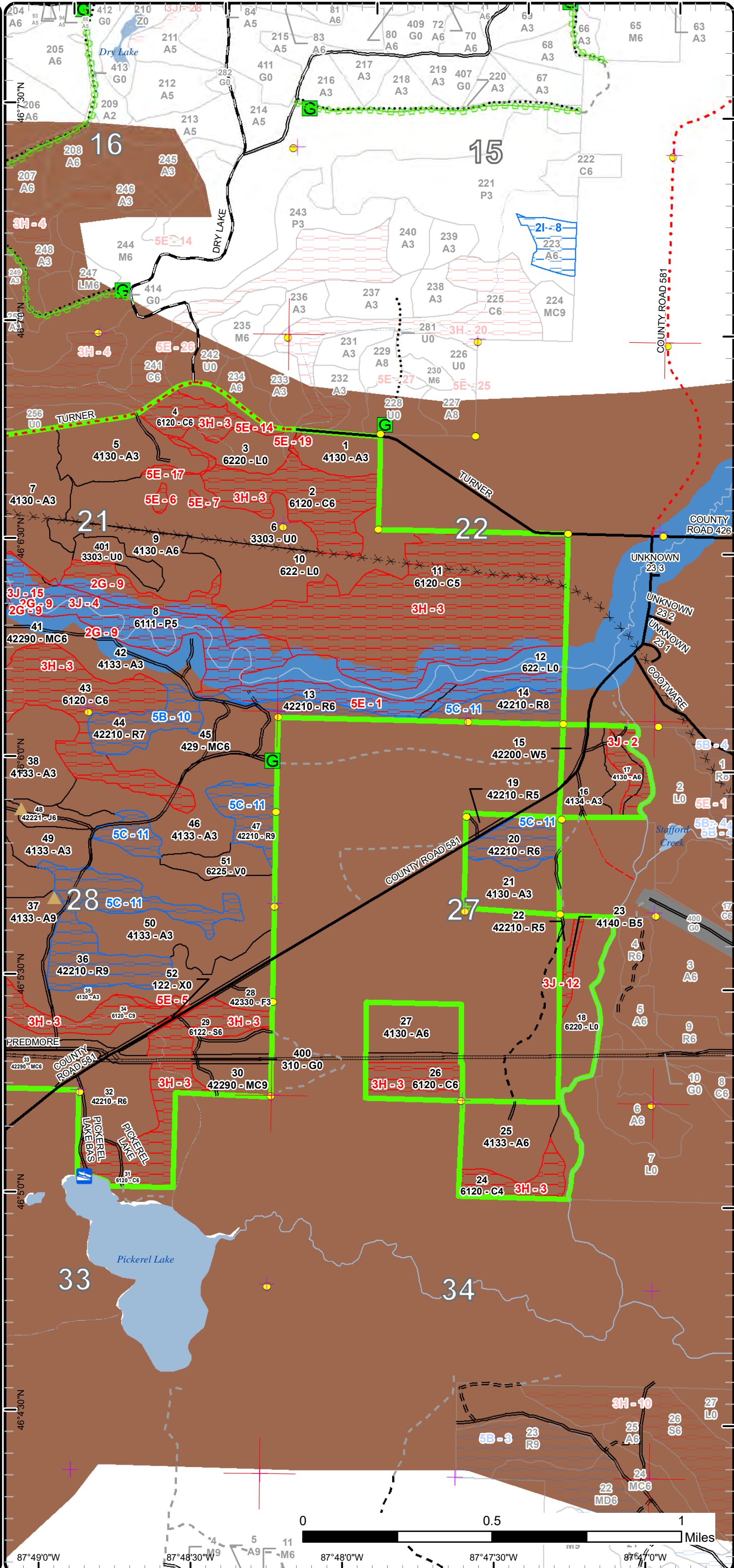
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Report 1 – Total Acres by Cover Type and Age Class



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	140	92	165	69	30	25	0	0	43	0	0	0	0	0	0	0	0	564
Bog	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Cedar	0	0	0	0	0	0	0	0	0	0	302	29	0	29	0	0	0	0	360
Herbaceous Openland	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Jack Pine	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
Low-Density Trees	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	0	93	0	0	0	0	0	0	93
Lowland Shrub	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	16
Natural Mixed Pines	0	0	0	0	0	0	0	15	71	18	0	0	0	0	0	0	0	0	104
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14
Paper Birch	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
Red Pine	0	0	0	0	0	0	0	0	3	79	108	0	0	0	0	0	0	0	190
Upland Conifers	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	31
Upland Spruce/Fir	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
White Pine	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
Total	220	140	92	173	69	38	25	15	78	160	455	122	0	29	0	0	0	0	1616



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 37
Total Compartment Acres: 1,613

Commercial Harvest - 218
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	68	0	0	0	0	0	0	0	0	68
Jack Pine	8	0	0	0	0	0	0	0	0	8
Natural Mixed Pines	0	71	0	0	0	0	0	0	0	71
Northern Hardwood	0	0	0	0	0	14	0	0	0	14
Red Pine	0	27	0	0	0	0	0	0	0	27
Upland Conifers	0	31	0	0	0	0	0	0	0	31
Total	76	129	0	0	0	14	0	0	0	218

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	218	0	0	0	0	0	0	0	0	218
Next Step	0	0	8	0	0	8	196	0	0	213
Total	218	0	8	0	0	8	196	0	0	431



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:

9	12037009-Cut	24.6	4130 - Aspen	Poletimber Well	50	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all stems 2" and greater except cedar, white/red pine, cherry (oak/hemlock if found). <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> mixed aspen, mixed softwood, mixed hardwood <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 12/8 /2021</p>											
32	12037032-Cut	26.6	42210 - Natural Red Pine	Poletimber Well	95	111- 140	Harvest	Group Selection	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Thin red pine to 100 BA, leave white birch 8" dbh and smaller (majority of it), remove other species. Retain most of white pine (oak if found). <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> red/white/jack pine, mixed hardwood, aspen, mixed softwood <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 12/8 /2021</p>											
33	12037033-Cut	70.6	42290 - Natural Mixed Pine	Poletimber Well	75	111- 140	Harvest	Group Selection	42260 - Natural Pine, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Harvest all stems 2" and greater except cedar, red pine, white pine (oak & hemlock if found). Pockets of heavy red or white pine regeneration <u>Specs:</u> can be lined out if damage would be likely from harvesting other stems. Recommend summer harvest to promote scarification for better pine recruitment. Leave some component of white birch. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> pine, maple, aspen, spruce, fir <u>Regen:</u> <u>Other</u> Merchantable Spruce and fir experiencing ~75% mortality from SBW in recent years. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 12/8 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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37	12037037-Cut	43.2	4133 - Aspen, Mixed Pine	Sawtimber Well	82	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Two-Aged	No
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Prescription Harvest all species 2" and greater except pine and cedar (oak, hemlock, if found) Great mortality in understory spruce/fir. Also leave a component of white birch.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable aspen, pine, spruce/fir, maple
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 12/8 /2021

40	12037040-Cut	13.8	4119 - Mixed Northern Hardwoods	Poletimber Well	96	81-110	Harvest	Crown Thinning	4199 - Other Mixed Upland Deciduous	Uneven-Aged	No
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Prescription Thin to 70 BA according to Compleat Marker.
Specs:

Next Step
Treatments:

Acceptable pine, birch, maple, basswood, oak
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 12/8 /2021

45	12037045-Cut	31.3	429 - Mixed Upland Conifers	Poletimber Well	90	1-50	Harvest	Group Selection	4221 - Natural Red Pine	Two-Aged	No
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Prescription Harvest all stems 2" and greater except red pine, white, cedar, (oak & hemlock if found). Leave some component of white birch. Great mortality of WS/BF understory.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable aspen, maple, spruce/fir, oak, pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 12/8 /2021

48	12037048-Cut	8.2	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	46	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest all stems. Herbicide and plant to red pine for cover.
Specs:

Next Step Pesticide, Skidder - Site Prep; Planting, Initial Plant
Treatments:

Acceptable red pine or jack pine to be planted
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 12/8 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Total Treatment Acreage Proposed: 218.3

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 37

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		5B	5C	2G	3H	3J	5E
564	551	0	12	Aspen				0	7	6
11	11	0	0	Bog						
360	2	0	358	Cedar				358		
20	20	0	0	Herbaceous Openland						
8	8	0	0	Jack Pine						
57	55	0	2	Low-Density Trees						2
93	0	0	93	Lowland Aspen/Balsam Poplar			17		76	0
123	117	0	6	Lowland Shrub					6	0
16	0	0	16	Lowland Spruce/Fir				16		
103	89	0	14	Natural Mixed Pines					14	
14	14	0	0	Northern Hardwood						
4	0	0	4	Paper Birch					4	
188	32	131	25	Red Pine	18	113			0	25
31	31	0	0	Upland Conifers						
8	8	0	0	Upland Spruce/Fir						
8	8	0	0	Urban				0		
4	4	0	0	White Pine						
1,613	951	131	531	Total Forested Acres	18	113	17	374	107	33
	59%	8%	33%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention		25	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

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2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	374	5A: Not able to obtain desirable regeneration	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	77	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	2I: Survey needed	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Aspen is young and most of the spruce/fir is in subcanopy/codominant position. MO is aspen.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 37

Year of Entry: 2023

9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5B: Maintain for regeneration purposes	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	114	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	2F: Too steep	3G: Other Influence zones - See comments	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for 64 year old A6 stand. Cut completed 06/22/18. Turner Road SBW (12-024-17).							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Most of this stand is within 300 ft of Ford River; needs to be managed selectively.							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell : Examiner

Compartment: 37

Year of Entry: 2023

17	Unavailable	5E: Long-Term Retention	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Retention for 51 year old A6 stand. Cut completed 06/12/18. Turner Road SBW (12-024-17).							
19	Unavailable	5E: Long-Term Retention	0	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Retention for 53 year old A6 stand. Cut completed 06/10/19. Turner Road SBW (12-024-17).							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water 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
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1	4130 - Aspen	Sapling Well	21.0	2	Immature	N/A	Turner Rd SBW cut 2019
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	80	Sapling	1	2
Red Maple	14	Sapling	4	
Red Pine	2	Log	12	
Balsam Fir	1	Sapling	3	
White Spruce	2	Sapling	3	
White Pine	1	Log	16	

2	6120 - Lowland Cedar	Poletimber Well	39.4	95	Unspecified	N/A	heavier pocket of white cedar to east,near private
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
White Spruce	5	Pole	9		Black Spruce	Low	< 5 feet	Sapling
Black Spruce	10	Pole	9		Tag Alder	Medium	< 5 feet	Tall Shrub
Northern White Cedar	50	Pole	9	95				
Tamarack	25	Pole	8					

3	6220 - Alder/willow	Nonstocked	15.1		Unspecified	No	
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4	6120 - Lowland Cedar	Poletimber Well	14.1	97	Unspecified	N/A	stream/drainage in here
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	10	Log	12		Balsam Fir	Low	Variable	Sapling
Black Spruce	10	Pole	8		Tag Alder	Low	< 5 feet	Tall Shrub
Northern White Cedar	60	Pole/Log	10	97				
Tamarack	20	Pole	9					

5	4130 - Aspen	Sapling Well	33.7	2	Immature	N/A	A6 stand cut under Turner Road SBW (12-024-17). Stand was cut 06/27/18. Scattered pine and smaller spruce fir with one stick or less left.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Sapling	1	2	Sugar Maple	Low	< 5 feet	Sapling
White Pine	5	Log/Pole	12					
Red Maple	5	Sapling	1					

6	3303 - Mixed Low Density Trees	Nonstocked	48.2	0	Unspecified	613 - Lowland Mixed Forest	Stand Alone Swamp cut 2014. cedar pockets of retention in center of stand. Very low stocking yet.
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Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	< 5 feet	Seeding
Tamarack	Low	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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7	4130 - Aspen	Sapling Well	60.7	26	Immature	N/A	Mattson Salvage cut 1995
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	85	Sapling	4	26
Balsam Fir	5	Sapling	3	
Jack Pine	10	Sapling/Pole	4	

8	6111 - Lowland Balsam Poplar	Poletimber Medium	93.2	100	Unspecified	N/A	Stand is along the Ford River; much of the Balm of gilead is falling down
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	50	Log	14	100
Balsam Fir	10	Pole	8	
Black Ash	40	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Medium	Variable	Sapling
Tag Alder	High	< 5 feet	Tall Shrub

9	4130 - Aspen	Poletimber Well	24.6	50	Unspecified	N/A	southeast of opening has smaller aspen and more dead conifer from SBW(between floodplain and opening). ready to be cut but could also hold with less conifer.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	90	Pole/Log	9	50
Black Spruce	2	Pole	7	
White Spruce	8	Log/Pole	12	

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

10	622 - Lowland Shrub	Nonstocked	45.1		Unspecified	No	
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11	6120 - Lowland Cedar	Poletimber Medium	147.5	95	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	5	Pole/Log	10	
Black Spruce	20	Pole	9	
Northern White Cedar	60	Pole/Log	9	95
Tamarack	15	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Tag Alder	High	< 5 feet	Tall Shrub

12	622 - Lowland Shrub	Nonstocked	26.8		Unspecified	No	
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13	42210 - Natural Red Pine	Poletimber Well	25.4	82	81-110	N/A	Pickere! Pipeline TS cut 2015. 300 ft buffer from Ford River was uncut. this buffer contains aspen, spruce, fir, birch, maple. BAs: 70,100,110,100,110,120 of RP/WP.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	30	Log/Pole	12	
Red Pine	70	Log/Pole	14	82

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Medium	5 - 10 feet	Sapling
Red Maple	Medium	5 - 10 feet	Sapling

14	42210 - Natural Red Pine	Sawtimber Medium	25.9	82	51-80	N/A	Pickere! Pipeline TS cut 2015. 300 ft buffer from Ford River was uncut. this buffer contains aspen, spruce, fir, birch, maple.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	30	Log/Pole	12	
Red Pine	70	Log/Pole	14	82

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	High	5 - 10 feet	Sapling
Red Maple	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
15	42200 - Natural White Pine	Poletimber Medium	4.4	70	1-50	N/A	Understory was cut spring 2018 with Insider TS as a supplement.																																										
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16	4134 - Aspen, Spruce/Fir	Sapling Well	13.6	19	Immature	N/A	West Branch Tsp TS cut 2002. Residual 5-6" WS/BF hit by SBW fairly hard. Some aspen is big tooth.																																										
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20	42210 - Natural Red Pine	Poletimber Well	16.2	92	111-140	N/A	Aspen and other species removed in West Branch Tsp TS 2002. Red pine has dbhs range from 6-14". BAs: 180,110,110,110,100																																										
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Red Oak	1	Log/Pole	11																																														
Sub-Canopy Species	Density	Avg. Height	Size																																														
Quaking Aspen	Medium	5 - 10 feet	Sapling																																														
Hazelnut (Spp.)	High	5 - 10 feet	Tall Shrub																																														
Red Oak	Trace	< 5 feet	Sapling																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
21	4130 - Aspen	Sapling Well	20.6	19	Immature	N/A	West Branch Tsp TS cut 2002.																																				
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22	42210 - Natural Red Pine	Poletimber Medium	2.6	89	1-50	N/A	Aspen, birch, maple removed from this sliver.																																				
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23	4140 - Other Upland Deciduous	Poletimber Medium	4.2	87	51-80	N/A	Stream buffer on steep hillside.																																				
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24	6120 - Lowland Cedar	Poletimber Poor	13.3	105	51-80	N/A	Low stocking, stunted trees																																				
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25	4133 - Aspen, Mixed Pine	Poletimber Well	29.0	37	51-80	N/A	Stand Year Origin was 1984. Island of pine on west end																																				
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26	6120 - Lowland Cedar	Poletimber Well	15.8	105	111-140	N/A	OPIC - FMD: OI Stand Year Origin was 1916																																				
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27	4130 - Aspen	Poletimber Well	21.2	43	51-80	N/A	OPIC - FMD: OI Stand Year Origin was 1978																																				
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28	42330 - Upland Fir	Sapling Well	7.6	29	Immature	N/A	OPIC - FMD: Stand contains a few residual pine sawlogs..																																				
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29	6122 - Black Spruce	Poletimber Well	15.7	88	81-110	N/A	Small diameter tamarack and spruce. Fair amount of mortality to understory balsam and spruce.																																																															
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30	42290 - Natural Mixed Pine	Sawtimber Well	17.9	89	81-110	N/A	Approximately 95% WS/BF mortality due to SBW, much on ground. Other than doing a re-start or re-plant, not much to do here. BA: 100,120,120,100,90,50.																																																															
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31	6120 - Lowland Cedar	Poletimber Well	28.6	127	141-170	N/A	OPIC - FMD: OI Stand Year Origin was 1894																																																															
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32	42210 - Natural Red Pine	Poletimber Well	26.6	95	111-140	N/A	Thin RP to 90-100 BA. Leave white birch less than 8" dbh (which is most of it) and remove all other species.																																																															
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33	42290 - Natural Mixed Pine	Poletimber Well	70.6	75	111-140	N/A	Red pine is heaviest in northwest; pockets of jack pine generally in center off pipeline & is not holding up well; aspen/red maple on far north edge and south of pipeline. Far north edge where aspen is has most of the WS/BF on ground. White pine mostly in 8-10"dbh with some 12, 20". Over 75% merchantable spruce/fir is dead. RP ranges from an average of 9" to average 12" in different places.																																																															
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34	6120 - Lowland Cedar	Sawtimber Well	36.7	95	Unspecified	N/A	Very nice cedar. Some cedar mortality along road going north on west side due to ponding over the summer of 2020.																																																		
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35	4130 - Aspen	Sapling Well	24.9	5	Immature	N/A	Pickrel Pipeline TS cut 2016.																																																		
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36	42210 - Natural Red Pine	Sawtimber Well	47.0	98	111-140	N/A	Pickrel Pipeline TS cut 2016. RP dbh ranges from 6-18", WP dbh ranges 5-20". BAs range from 70-170, generally 3/4 RP 1/4 WP																																																		
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37	4133 - Aspen, Mixed Pine	Sawtimber Well	43.2	82	Unspecified	N/A	North 1/3 has most of the red pine. SBW has killed MUCH of the BF/WS understory. Pockets of understory conifer and RM has damage/is bent over from ice & heavy snow, especially further west and interior.																																																		
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38	4133 - Aspen, Mixed Pine	Sapling Well	104.5	27	Immature	N/A	Picket Line TS cut 1994. Pine is residual overstory. Some aspen edge trees are close to 6"dbh. SBW impacting submerch BF/WS.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
39	6120 - Lowland Cedar	Poletimber Medium	9.4	95	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		5	Pole	8		Tag Alder	
Balsam Fir		5	Pole	8		Medium	
White Spruce		10	Pole	8		< 5 feet	
Black Spruce		5	Pole	7		Tall Shrub	
Northern White Cedar		60	Pole	9	95		
Black Ash		15	Pole	7			
40	4119 - Mixed Northern Hardwoods	Poletimber Well	13.8	96	81-110	N/A	White birch has evidence of previous bark peeling; is falling out of stand. Saw 1 hemlock and 2 basswood, 1 oak. Light thin
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		50	Pole/Log	8	96	Balsam Fir	
Basswood		5	Log/Pole	12		Low	
White Ash		5	Pole	9		Variable	
Paper Birch		40	Log/Pole	10		< 5 feet	
						Tall Shrub	
41	42290 - Natural Mixed Pine	Poletimber Well	14.9	65	51-80	N/A	95% of WS/BF dead, unsalvagable. Removal of JP, aspen., WS/BF would be a very low volume sale.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		5	Log	12			
White Spruce		10	Pole	9			
White Pine		15	Log/Pole	14			
Red Pine		50	Log/Pole	10	65		
Jack Pine		20	Pole	9			
42	4133 - Aspen, Mixed Pine	Sapling Well	39.8	35	Unspecified	N/A	Salvage harvest in 1985. East half has RP from 5-12" dbh, WS 8", WP 5-10". ~30% BF/WS dead beyond salvage (most submerchantable); lots of SBW activity in 2020.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		55	Sapling/Pole	4	35	Balsam Fir	
Balsam Fir		5	Pole/Sapling	5		Low	
White Spruce		10	Pole/Sapling	6		Variable	
Red Pine		10	Pole/Log	9		Sapling	
White Pine		5	Pole/Log	8		White Spruce	
Balsam Poplar		10	Sapling	4		Low	
Jack Pine		5	Pole	6		Variable	
						Sapling	
43	6120 - Lowland Cedar	Poletimber Well	55.2	96	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		2	Pole	7		Tag Alder	
White Spruce		3	Pole	9		Low	
Black Spruce		10	Pole	8		< 5 feet	
Northern White Cedar		85	Pole	10	96	Tall Shrub	



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44	42210 - Natural Red Pine	Sawtimber Poor	17.6	91	1-50	N/A	Pickereel Pipeline TS, this unit cut 2016. Was well scarified with a dozer, particularly on hill top. Stand received much storm damage in July 2017. Seedlings are not well stocked as of fall 2020																																																							
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45	429 - Mixed Upland Conifers	Poletimber Well	31.3	90	1-50	N/A	Appears that much of the current understory was cut in 1974 and left most of the red pine; may be a stand to move toward pine. Understory is still growing. Pine is scattered and not conducive to thinning.																																																							
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46	4133 - Aspen, Mixed Pine	Sapling Well	39.9	6	Immature	N/A	Pickereel Pipeline TS cut 2015																																																							
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47	42210 - Natural Red Pine	Sawtimber Well	24.4	85	111-140	N/A	Pickereel Pipeline TS cut 2016; no red or white pine harvested except for access. All diameter classes are represented in RP/WP from XL to Sapling.																																																							
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48	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	8.2	46	51-80	N/A	Jack pine showing mortality & breaking up. Small balsam and white spruce 1-3" dbh has much mortality from SBW.																																																							
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51	6225 - Bog	Nonstocked	11.1		Unspecified	No																					
52	122 - Road/Parking Lot	Nonstocked	7.7		Unspecified	No																					
400	310 - Herbaceous Openland	Nonstocked	19.8		Unspecified	No	Underground gas pipeline																				
401	3303 - Mixed Low Density Trees	Nonstocked	9.3		Unspecified	No																					