



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12161

Entry Year 2024

Acreage: 1,453

County Iron

Management Area: Panola Plains

Stand Examiner: Scott Sebero

Legal Description:

T42N, R32W, Sections: 21, 28, 29, 32, 33, 34.

Identified Planning Goals:

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

Soil and topography:

Land is nearly level to hilly with a mix of Sarona soils that are excessively drained to well-drained, loamy and sandy soils on ground moraines and end moraines and Cathro soils that are irregular depressions within these moraines that are poorly drained black muck.

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

Ownership patterns in this compartment consist mostly of State lands with some small private parcels and hunting camps. Lands in and around the compartment are used mainly for hunting and managed for forest products.

Unique Natural Features:

Ownership patterns in this compartment consist mostly of State lands with some small private parcels and hunting camps. Lands in and around the compartment are used mainly for hunting and managed for forest products.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Waterbodies include northern edge of Seven Springs Lake, Seven Springs Creek, unnamed tributaries, South Slough, and Stager Creek. All of the streams are designated Type 1 Trout Streams. 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 non-designated trout water body should have a 100 foot buffer.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. No active sand/gravel pits are known to exist in the area. Bedrock is at or very near the surface in places across the compartment. Potential for sand & gravel is good on uplands where glacial deposits overlie bedrock. The surficial geology has not been mapped in detail here. No known ground-based mineral exploration has occurred within the compartment, but extensive testing for iron ore has occurred to the west. No known potential for iron ore exists beneath the compartment. Potential for other metallic and critical minerals beneath the compartment is unknown but is considered low at this time. No current state mineral leasing activity exists in the compartment. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Access for the compartment is from US-2, Stager Lake Road and associated trail roads.

Survey Needs:

Recreational Facilities and Opportunities:

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

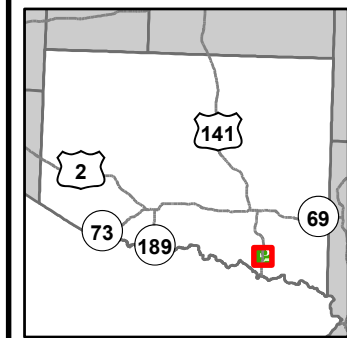
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

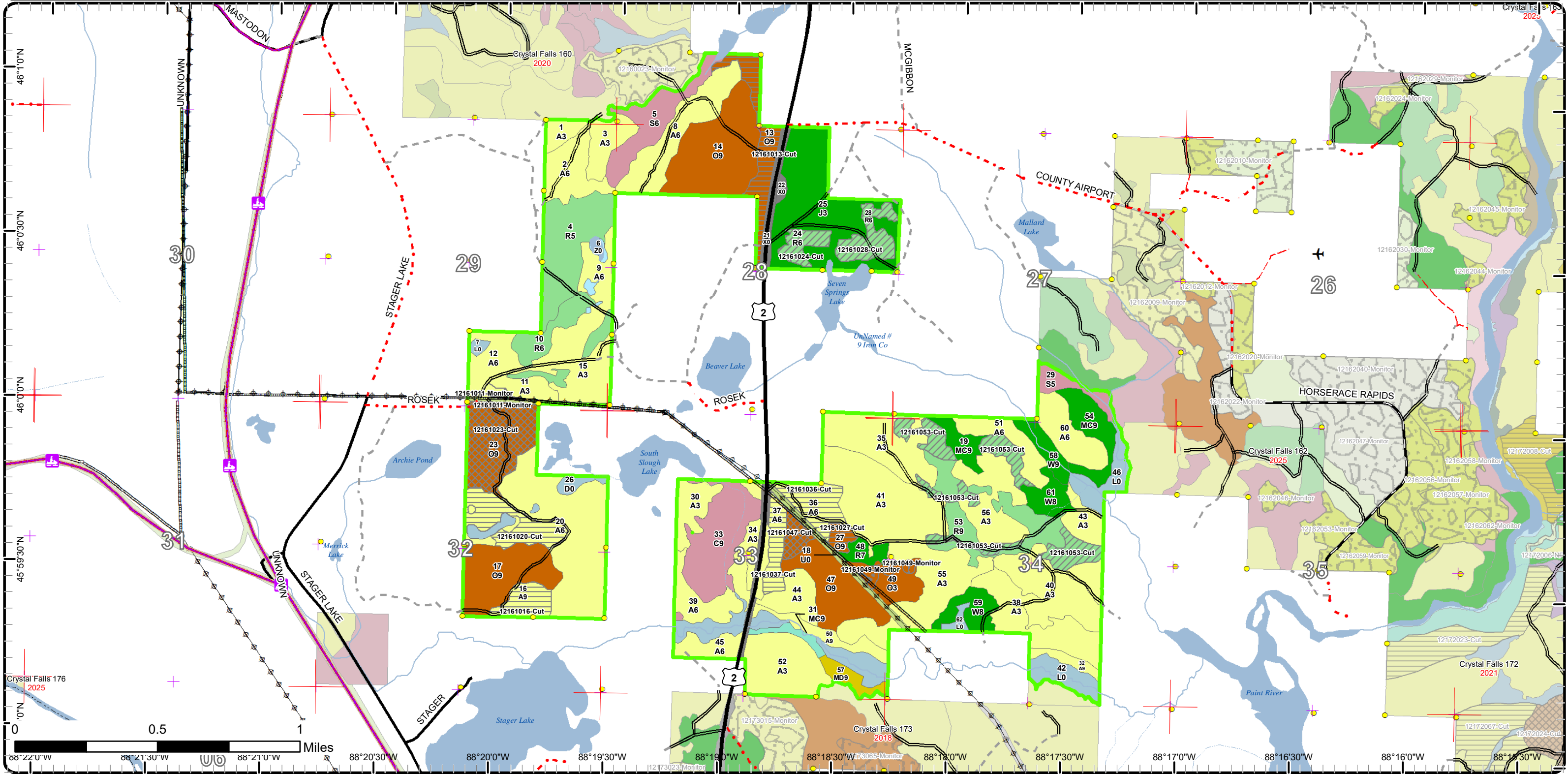
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 161
 T42N, R32W, Sec. 20, 21, 27-29,
 32-34
 County: Iron
 Unit: Crystal Falls
 Mgmt Area: Panola Plains
 YOE: 2024
 Acres: 1452.5 GIS Calculated
 Examiner: Scott Sebero
 Map Revised: 11/18/2022
 Map Phase: Post-Review

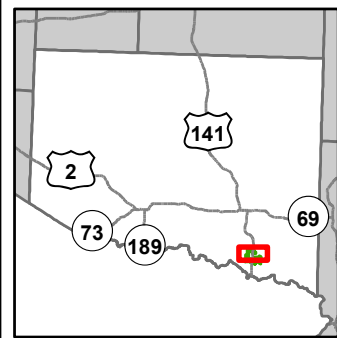


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- Powerline

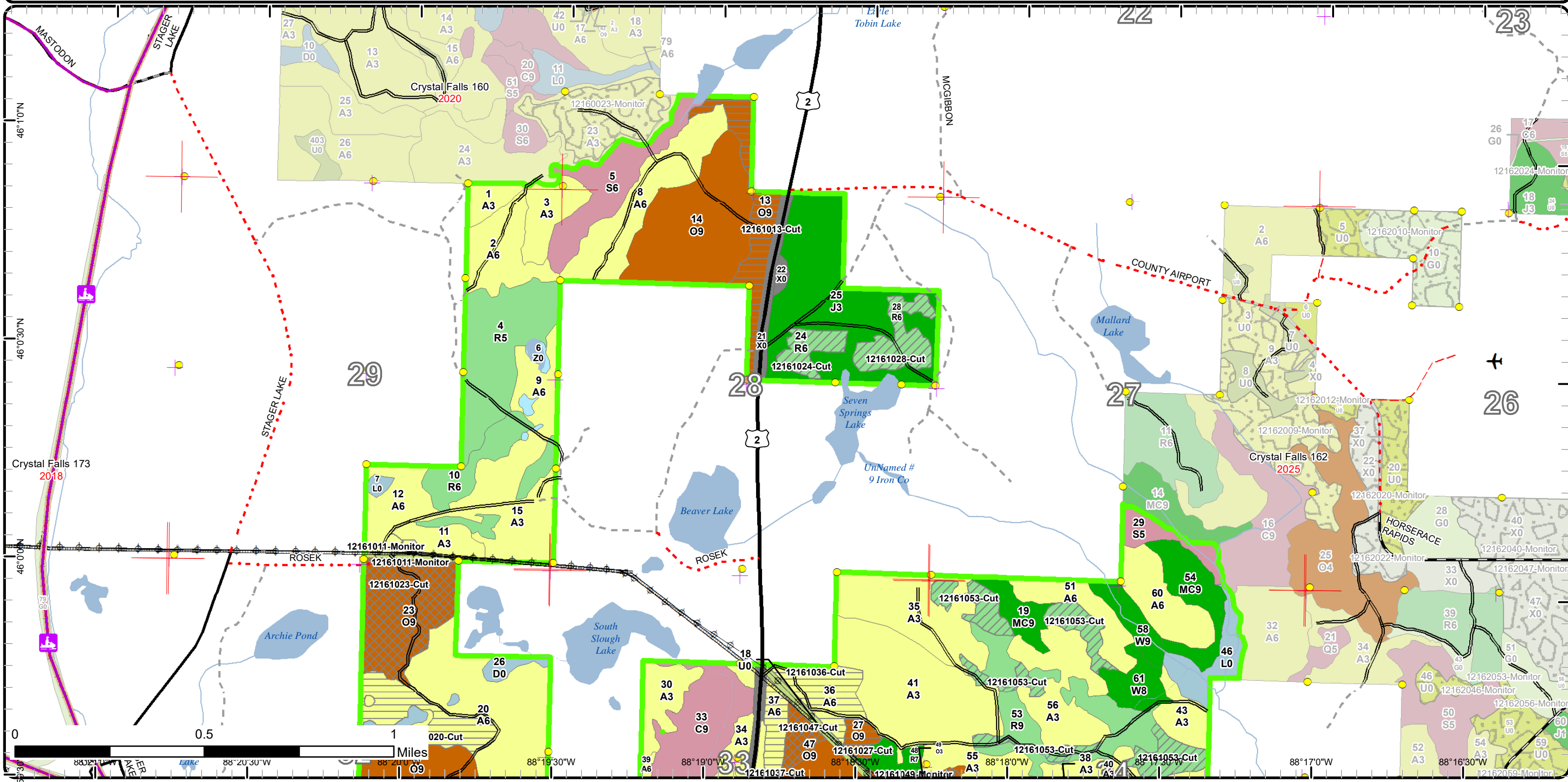


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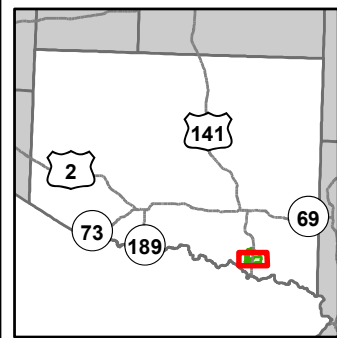


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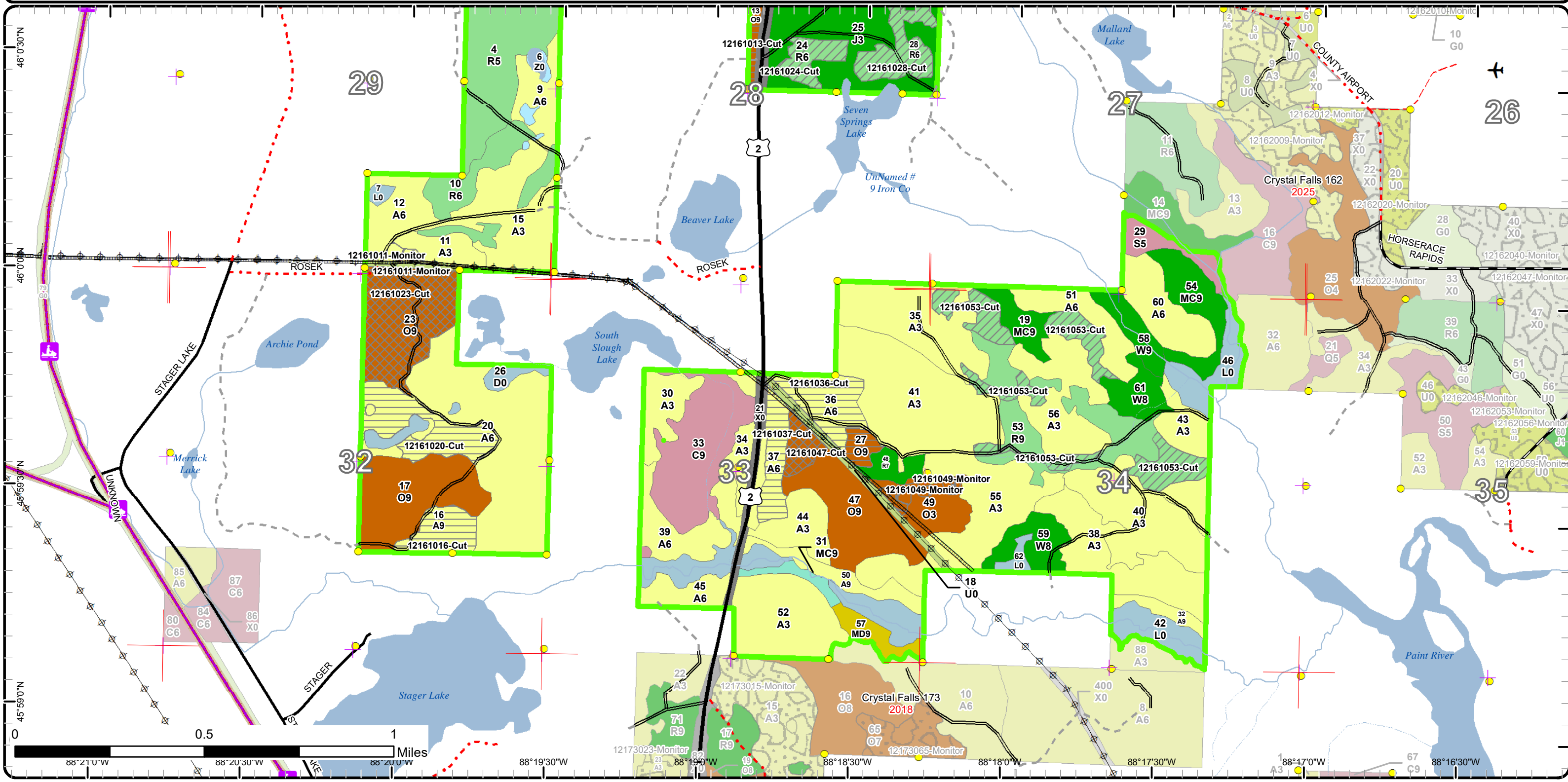


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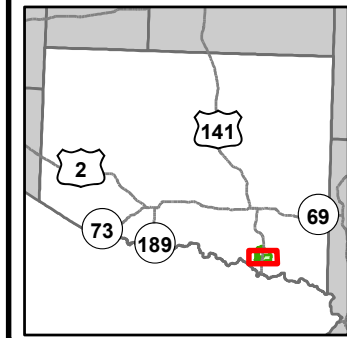


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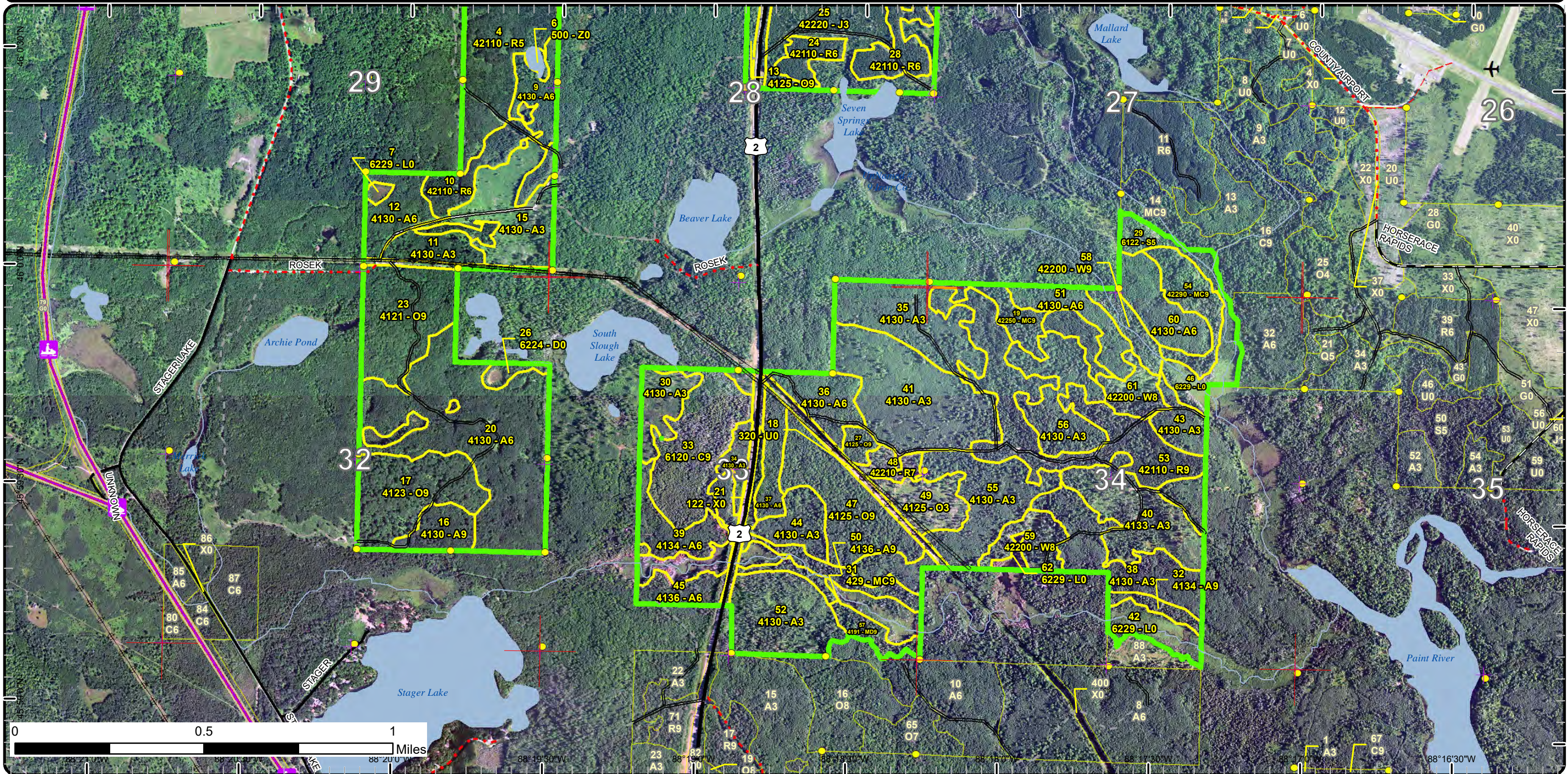


Stand Boundary Map

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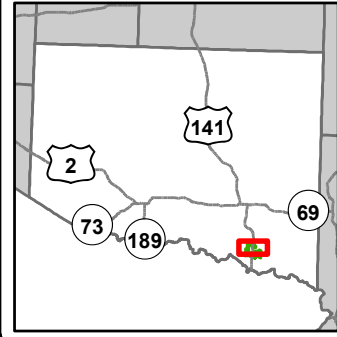


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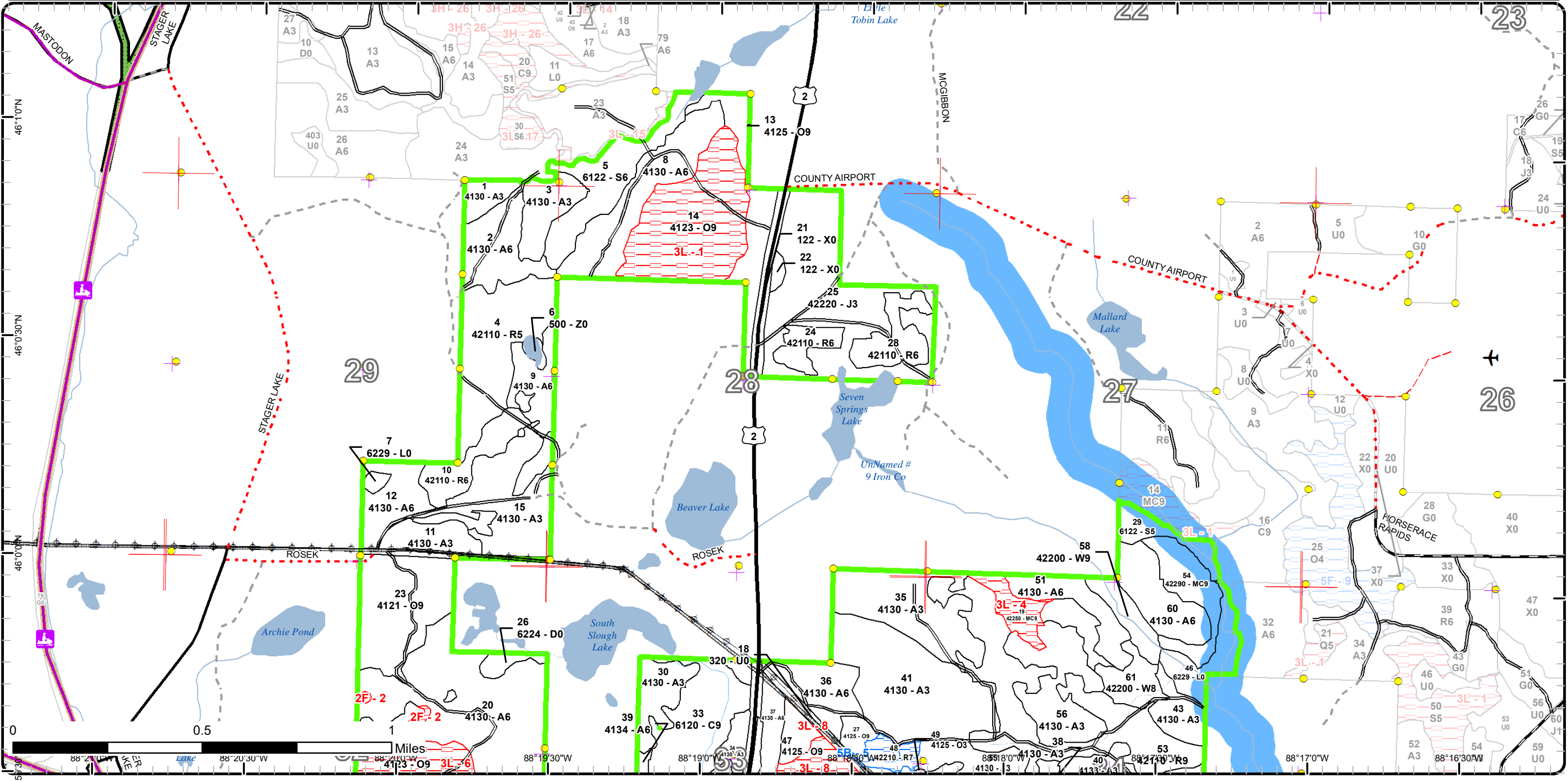


Special Conservation Areas

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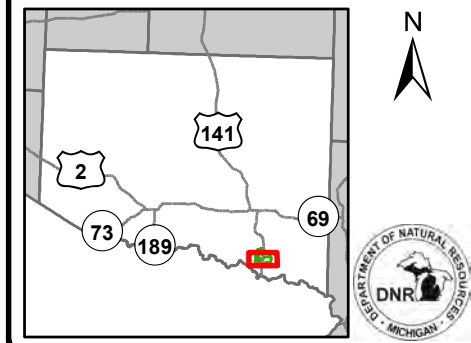
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- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Trail - Trail Corridor



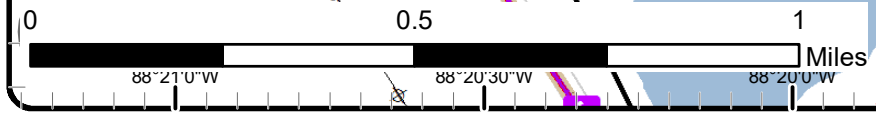
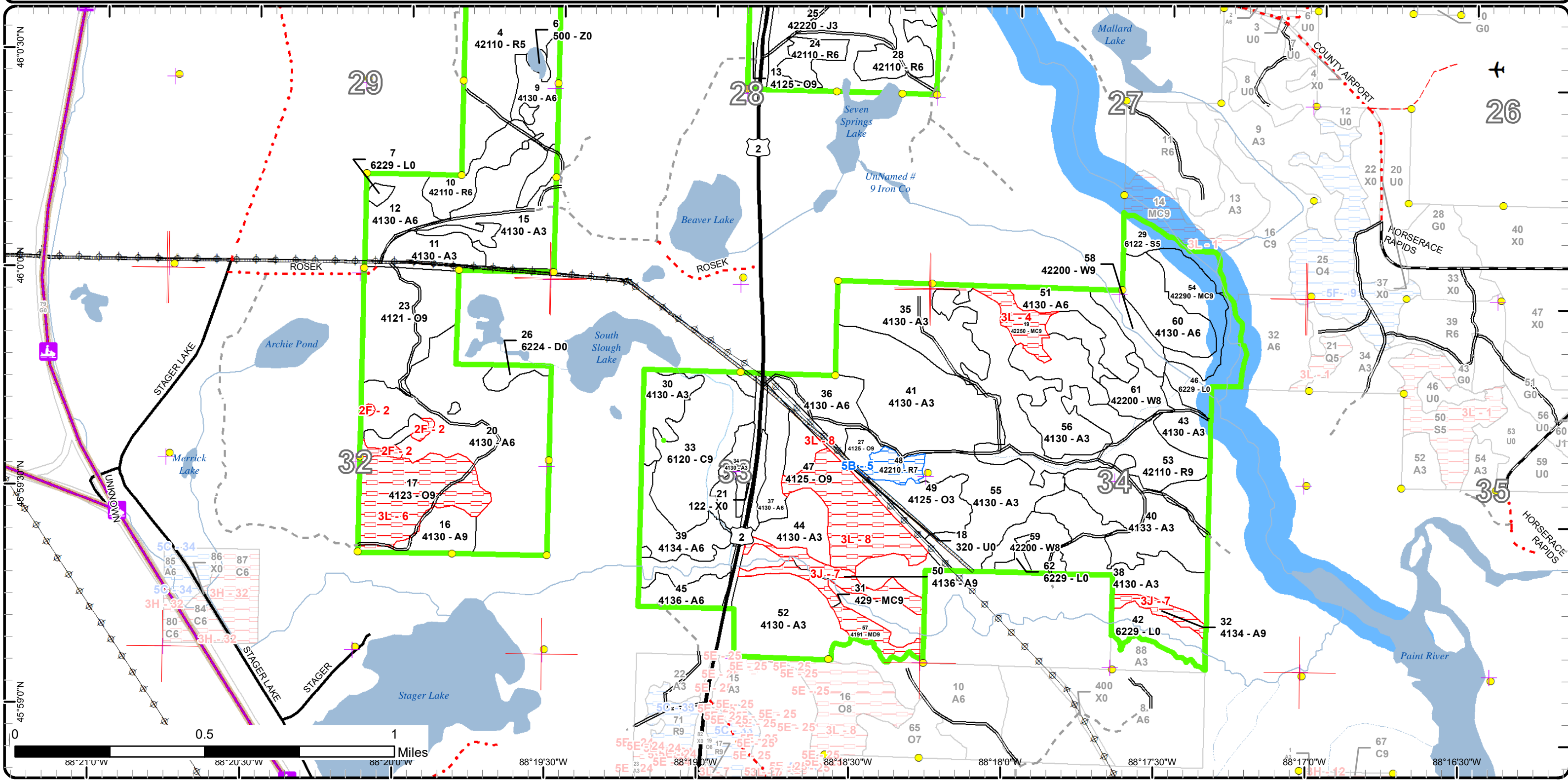
Map coordinates: 45°55'30" N, 88°21'00" W, 88°20'30" W, 88°19'30" W, 88°18'30" W, 88°17'00" W

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- ⊕ Powerline
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- Unavailable
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



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	121	208	106	102	165	13	0	0	17	0	0	0	0	0	0	0	0	731
Cedar	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	43
Jack Pine	0	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71
Lowland Shrub	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Lowland Spruce/Fir	0	0	0	0	0	0	10	0	29	0	0	0	0	0	0	0	0	0	39
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	28
Oak	0	17	0	0	0	0	0	0	5	199	0	0	0	0	0	0	0	0	220
Red Pine	0	0	0	0	0	0	0	164	0	0	7	0	0	0	0	0	0	0	170
Treed Bog	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Conifers	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	4
Upland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Urban	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0	0	35
Total	102	138	208	177	102	165	23	164	29	35	313	0	0	0	0	0	0	0	1451



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 161
Total Compartment Acres: 1,453

Commercial Harvest - 202
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	66	0	0	0	0	0	0	0	0	66
Oak	28	47	0	0	0	0	0	0	0	75
Red Pine	0	0	0	0	0	61	0	0	0	61
Total	94	47	0	0	0	61	0	0	0	202

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	202	0	0	0	0	0	7	0	0	209
Next Step	0	0	0	0	0	0	141	0	0	141
Total	202	0	0	0	0	0	148	0	0	350



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:

11	12161011-Monitor	2.8	4130 - Aspen	Sapling Well	16	1-50	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Look for oak wilt. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Mix of maple, oak, aspen and pine. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 4 /19/2022</p>											

13	12161013-Cut	23.3	4125 - Black, N. Pin Oak	Sawtimber Well	96	81-110	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees with one or more pulpwood stick, except red and white pine and red oak. Leave all red and white pine and northern red oak. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mix of oak and pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											

16	12161016-Cut	12.5	4130 - Aspen	Sawtimber Well	51	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and maple 2" DBH or greater. Cut all paper birch and cherry with one or more pulpwood sticks. Leave all oak and conifers. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mix of aspen, oak and pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</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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20	12161020-Cut	23.5	4130 - Aspen	Poletimber Well	42	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
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Prescription Cut all aspen and maple 2" DBH or greater. Cut all cherry and paper birch with one or more pulpwood sticks. Leave all oak and conifers.
Specs:

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

Acceptable Mix of aspen, oak and pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

23	12161023-Cut	40.4	4121 - Oak, Aspen	Sawtimber Well	94	111-140	Harvest	Group Selection	4122 - Oak, Pine	Even-Aged	No
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Prescription Cut all aspen and mixed hardwood, except oak, with one or more pulpwood sticks. Leave all oak and conifers. Cut and remove any pockets of oak wilt. Work with WLD on any oak wilt pockets found prior to harvest.
Specs:

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

Acceptable Mix of oak and pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

24	12161024-Cut	8.8	42110 - Planted Red Pine	Poletimber Well	63	141-170	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
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Prescription Thin red pine to 120 BA.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

27	12161027-Cut	4.5	4125 - Black, N. Pin Oak	Sawtimber Well	81	81-110	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	No
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Prescription Cut all trees with one or more pulpwood stick, except red and white pine and red oak. Leave all red and white pine and northern red oak.
Specs:

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

Acceptable Mix of oak and pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
28	12161028-Cut	15.2	42110 - Planted Red Pine	Poletimber Well	63	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin red pine to 120 BA. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
36	12161036-Cut	17.7	4130 - Aspen	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and maple 2" DBH or greater. Cut all spruce, balsam, jack pine and paper birch with one or more pulpwood sticks. No red or white pine or oak will be cut. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mix of aspen and oak. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
37	12161037-Cut	12.4	4130 - Aspen	Poletimber Well	44	51-80	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and maple 2" DBH or greater. Cut all spruce, balsam, jack pine and paper birch with one or more pulpwood sticks. No red or white pine or oak will be cut. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mix of aspen and oak. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
47	12161047-Cut	6.6	4125 - Black, N. Pin Oak	Sawtimber Well	90	81-110	Harvest	Group Selection	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and mixed hardwood, except oak, with one or more pulpwood stick. Cut all spruce, balsam and jack pine with two or more pulpwood sticks. No red or white pine or oak will be cut. Cut and remove any pockets of oak wilt. Work with WLD on any oak wilt found prior to harvest. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mix of oak and pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</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
49 12161049-Monitor	4.5	4125 - Black, N. Pin Oak	Sapling Well	7	Immature	Monitoring	Natural Regen (Re-Inventory)	4123 - Red Oak	Two-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of pine and oak.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 4 /19/2022</p>										
53 12161053-Cut	37.0	42110 - Planted Red Pine	Sawtimber Well	61	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin red pine to 120 BA.</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> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 209.2

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
Scott Sebero : Examiner

Compartment: 161
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions			
Acres	Available	With Condition	Not Available	5B	2F	3J	3L
730	710	0	20	Aspen		3	17
43	43	0	0	Cedar			
71	71	0	0	Jack Pine			
57	57	0	0	Lowland Shrub			
39	39	0	0	Lowland Spruce/Fir			
8	0	0	8	Mixed Upland Deciduous			8
28	18	0	10	Natural Mixed Pines			10
220	92	0	128	Oak			128
170	163	7	0	Red Pine	7		
8	8	0	0	Treed Bog			
5	0	0	5	Upland Conifers			5
13	13	0	0	Upland Shrub			
20	20	0	0	Urban			
4	4	0	0	Water			
35	35	0	0	White Pine			
1,453	1,275	7	171	Total Forested Acres	7	3	30
	88%	0%	12%	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	3L: Other wildlife concerns	57	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer, bear, squirrel, grouse, turkey.							
2	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Scott Sebero : Examiner

Compartment: 161

Year of Entry: 2024

4	Unavailable	3L: Other wildlife concerns	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer.							
5	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3L: Other wildlife concerns	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer, bear, squirrel, grouse, turkey.							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3L: Other wildlife concerns	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Deer, bear, squirrel, grouse, turkey.							

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	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	4130 - Aspen	Sapling Well	7.0	7	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		10	Log/Pole/Sap	12		Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen		10	Sapling	1	7	Red Maple	Medium	10 - 20 feet	Sapling
Quaking Aspen		70	Sapling	1	7				
Red Maple		10	Sapling	1	7				
2	4130 - Aspen	Poletimber Well	23.0	26	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		100	Pole/Sapling	5	26	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
						Cherry (spp.)	Low	5 - 10 feet	Sapling
3	4130 - Aspen	Sapling Well	14.9	7	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		5	Sapling	1	7	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		65	Sapling	1	7				
White Pine		5	Log/Pole	12	95				
White Spruce		5	Sapling	1	7				
Red Maple		20	Sapling	1	7				
4	42110 - Planted Red Pine	Poletimber Medium	44.5	64	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Pole	8	64	Quaking Aspen	High	10 - 20 feet	Sapling
5	6122 - Black Spruce	Poletimber Well	28.7	76	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		15	Pole/Log/Sap	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar		20	Log/Pole	10					
White Pine		5	Log/Pole/Sap	16					
Black Spruce		60	Pole/Log/Sap	8	76				
6	500 - Water	Nonstocked	3.6		Unspecified	No	Vernal ponds.		
7	6229 - Mixed lowland shrub	Nonstocked	1.9		Unspecified	No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	4130 - Aspen	Poletimber Well	36.0	47	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		30	Pole/Sapling	6	47	Red Maple	
Red Oak		10	Log/Pole/Sap	10		Hazelnut (American)	
Red Maple		10	Pole/Sap/Log	6		Density	
Bigtooth Aspen		40	Pole/Sap/Log	8	47	Avg. Height	
Balsam Fir		10	Pole/Sapling	6		Size	
9	4130 - Aspen	Poletimber Well	13.8	37	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		90	Pole/Sapling	6	37	Hazelnut (American)	
Red Pine		10	Pole/Sap/Log	8		Density	
						Avg. Height	
						Size	
10	42110 - Planted Red Pine	Poletimber Well	23.5	64	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		100	Pole	8	64	Hazelnut (American)	
						Quaking Aspen	
						Density	
						Avg. Height	
						Size	
11	4130 - Aspen	Sapling Well	11.9	16	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		10	Pole/Log/Sap	8		Hazelnut (American)	
Red Maple		5	Sapling	3		Density	
Red Pine		10	Log/Pole/Sap	10		Avg. Height	
Quaking Aspen		75	Sapling/Pole	3	16	Size	
12	4130 - Aspen	Poletimber Well	17.3	37	51-80	N/A	Oak wilt along powerline.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern Pin Oak		10	Pole/Log/Sap	6		Hazelnut (American)	
Red Pine		5	Log/Pole/Sap	12		Cherry (spp.)	
Bigtooth Aspen		30	Pole/Sapling	6	37	Density	
Red Maple		5	Pole/Sapling	6		Avg. Height	
Quaking Aspen		50	Pole/Sapling	6	37	Size	
13	4125 - Black, N. Pin Oak	Sawtimber Well	23.3	96	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		20	Log/Pole/Sap	12		Jack Pine	
Northern Pin Oak		60	Log/Pole/Sap	12	96	Red Maple	
Red Maple		5	Pole/Log/Sap	8		Hazelnut (American)	
Jack Pine		5	Log/Pole/Sap	10		Density	
Red Oak		10	Log/Pole/Sap	14	96	Avg. Height	
						Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
14	4123 - Red Oak	Sawtimber Well	56.5	96	111-140	N/A																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
20	4130 - Aspen	Poletimber Well	99.0	42	81-110	N/A																																										
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21	122 - Road/Parking Lot	Nonstocked	18.5		Unspecified	No	US-2																																									
22	122 - Road/Parking Lot	Nonstocked	1.8		Unspecified	No	Way side park.																																									
23	4121 - Oak, Aspen	Sawtimber Well	40.6	94	111-140	N/A	A couple pockets of oak wilt along powerline.																																									
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24	42110 - Planted Red Pine	Poletimber Well	8.8	63	141-170	N/A																																										
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25	42220 - Natural Jack Pine	Sapling Well	71.2	23	Immature	N/A																																										
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26	6224 - Treed Bog	Nonstocked	8.3	0	Unspecified	No																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
27	4125 - Black, N. Pin Oak	Sawtimber Well	4.5	81	81-110	N/A	Pockets of dead oak.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		5	Log/Pole/Sap	14		Red Maple	
White Pine		5	Log/Pole/Sap	14		Low	
Bigtooth Aspen		5	Log/Pole/Sap	10		5 - 10 feet	
Northern Pin Oak		75	Log/Pole/Sap	10	81	Sapling	
Red Maple		5	Pole/Sap/Log	6		Tall Shrub	
Red Oak		5	Log/Pole/Sap	12			
28	42110 - Planted Red Pine	Poletimber Well	15.2	63	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		100	Pole	8	63	Quaking Aspen	
						Low	
						5 - 10 feet	
						Sapling	
29	6122 - Black Spruce	Poletimber Medium	9.9	51	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		100	Pole/Sap/Log	8	51	Tag Alder	
						Low	
						5 - 10 feet	
						Tall Shrub	
30	4130 - Aspen	Sapling Well	16.2	7	Immature	N/A	Dirt Pile Aspen.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		90	Sapling	1	7	Hazelnut (American)	
Red Maple		5	Sapling	1		Medium	
Balsam Fir		5	Sapling	1		5 - 10 feet	
						Tall Shrub	
31	429 - Mixed Upland Conifers	Sawtimber Well	4.5	80	81-110	N/A	Buffer for stager creek.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		20	Pole/Sap/Log	8		Hazelnut (American)	
White Spruce		20	Log/Pole/Sap	10		Low	
White Pine		50	Log/Pole/Sap	14	80	5 - 10 feet	
Red Maple		5	Log/Pole/Sap	10		Tall Shrub	
		5	Log/Pole/Sap	10			
32	4134 - Aspen, Spruce/Fir	Sawtimber Well	5.5	80	81-110	N/A	Buffer for stager creek.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		5	Log/Pole/Sap	14		Hazelnut (American)	
White Spruce		15	Log/Pole/Sap	10		Low	
Balsam Fir		5	Pole/Sap/Log	8		5 - 10 feet	
Quaking Aspen		75	Log/Pole/Sap	10	80	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
33	6120 - Lowland Cedar	Sawtimber Well	43.4	95	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		30	Pole/Log/Sap	8		Tag Alder	
Balsam Fir		10	Pole/Sap/Log	8		Density	Avg. Height
Northern White Cedar		50	Pole/Log	10	95	Medium	5 - 10 feet
Balsam Poplar		10	Log/Pole/Sap	10			Tall Shrub
34	4130 - Aspen	Sapling Well	9.9	8	Immature	N/A	Harvested 2014- Retained red and white pine, cedar, hemlock and oak.
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		10	Sapling/Pole	2			
Quaking Aspen		90	Sapling	1	8		
35	4130 - Aspen	Sapling Well	38.1	18	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		10	Log/Pole/Sap	12		Hazelnut (American)	
Quaking Aspen		85	Sapling/Pole	3	18	Density	Avg. Height
Red Pine		5	Log/Pole/Sap	12		Medium	5 - 10 feet
							Tall Shrub
36	4130 - Aspen	Poletimber Well	17.7	44	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Pole/Sap/Log	6		Hazelnut (American)	
Red Oak		5	Log/Pole/Sap	12		Density	Avg. Height
Quaking Aspen		30	Pole/Log/Sap	8	44	Low	5 - 10 feet
Red Pine		5	Log/Pole/Sap	14			Tall Shrub
Bigtooth Aspen		40	Pole/Log/Sap	8	44		
Northern Pin Oak		10	Log/Pole/Sap	10			
White Pine		5	Log/Pole/Sap	14			
37	4130 - Aspen	Poletimber Well	12.4	44	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern Pin Oak		15	Pole/Log/Sap	8		Hazelnut (American)	
Quaking Aspen		60	Pole/Log/Sap	8	44	Density	Avg. Height
Balsam Fir		5	Pole/Sap/Log	6		Low	5 - 10 feet
Red Maple		10	Pole/Sap/Log	6			Tall Shrub
Red Pine		10	Log/Pole/Sap	10			
38	4130 - Aspen	Sapling Well	34.6	26	Immature	N/A	Tall Pine t-sale. 12-94
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		90	Sapling/Pole	4	26	Hazelnut (American)	
White Pine		10	Log/Pole/Sap	12	90	Density	Avg. Height
						Low	Variable
							Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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39	4134 - Aspen, Spruce/Fir	Poletimber Well	21.3	37	81-110	N/A	Sale # 12-030-84		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		20	Pole/Sapling	6	37	Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
Quaking Aspen		80	Pole/Sapling	6	37	Black Spruce	Full	10 - 20 feet	Sapling

40	4133 - Aspen, Mixed Pine	Sapling Well	36.7	7	Immature	N/A	Stager Mix 2015.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		5	Log/Pole/Sap	12		Red Maple	Medium	5 - 10 feet	Sapling
White Pine		15	Log/Pole/Sap	12		Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
Red Pine		5	Log/Pole/Sap	12					
Quaking Aspen		45	Sapling	1	7				
Bigtooth Aspen		30	Sapling	1	7				

41	4130 - Aspen	Sapling Well	60.0	15	Immature	N/A	Compartment 161 t-sale. 66-04		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		5	Log/Pole/Sap	10	90	Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
Quaking Aspen		95	Sapling	2	15				

42	6229 - Mixed lowland shrub	Nonstocked	37.9		Unspecified	No	Stand contains Stager Creek.
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43	4130 - Aspen	Sapling Well	18.0	23	Immature	N/A	Black Powder Aspen t-sale. 001-98		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		10	Log/Pole/Sap	12	90	Quaking Aspen	High	10 - 20 feet	Sapling
Quaking Aspen		85	Sapling/Pole	4	23				
Red Pine		5	Log/Pole/Sap	10	61				

44	4130 - Aspen	Sapling Well	14.9	16	Immature	N/A	Acorn Aspen t-sale. 55-04		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		5	Log/Pole/Sap	12	95	Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
Quaking Aspen		95	Sapling/Pole	3	16				

45	4136 - Aspen, Mixed Conifer	Poletimber Well	10.7	36	51-80	N/A	Stager Creek Sale. 11-84		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		80	Pole/Sapling	5	36	Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
Balsam Fir		10	Pole/Sapling	5					
White Pine		10	Log/Pole/Sap	12					

46	6229 - Mixed lowland shrub	Nonstocked	14.7		Unspecified	No	beaver pond on seven springs creek and lowlands next to it.
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
47	4125 - Black, N. Pin Oak	Sawtimber Well	39.4	90	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole/Sapling	5	44	Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
Red Oak		20	Log/Pole/Sap	12	90				
Northern Pin Oak		60	Log/Pole/Sap	10	90				
Quaking Aspen		15	Pole/Sapling	5	44				
48	42210 - Natural Red Pine	Sawtimber Poor	6.6	90	1-50	N/A	Stager Mix 2015.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		90	Log/Pole/Sap	16	90	Red Pine	Medium	Variable	Sapling
		10	Log/Pole/Sap	10		Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
49	4125 - Black, N. Pin Oak	Sapling Well	17.1	7	Immature	N/A	Stager Mix 2015.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak		80	Sapling	1	7	Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
Red Oak		20	Log/Pole/Sap	12	90				
50	4136 - Aspen, Mixed Conifer	Sawtimber Well	11.4	80	81-110	N/A	Buffer for stager creek.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		5	Log/Pole/Sap	14		Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
Quaking Aspen		70	Log/Pole/Sap	10	80				
White Spruce		10	Log/Pole/Sap	10					
White Pine		10	Log/XLog	16					
Red Oak		5	Log/Pole/Sap	10					
51	4130 - Aspen	Poletimber Well	16.7	34	51-80	N/A	Seven Springs Creek Sale. 7-84		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		10	Log/Pole/Sap	12	90	Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
Quaking Aspen		85	Pole/Sapling	5	34				
Red Pine		5	Log/Pole/Sap	12	90				
52	4130 - Aspen	Sapling Well	36.0	10	Immature	N/A	Declination Aspen t-sale. 59-11		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		10	Log/Pole/Sap	12	90	Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
White Pine		10	Pole/Log/Sap	10	95				
Quaking Aspen		80	Sapling	1	10				
53	42110 - Planted Red Pine	Sawtimber Well	71.1	61	141-170	N/A	Stager Mix 2015.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/Pole/Sap	12	61	Red Maple	High	>20 feet	Sapling
						Quaking Aspen	Low	>20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
54	42290 - Natural Mixed Pine	Sawtimber Well	18.5	90	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Spruce		10	Log/Pole/Sap	10		Balsam Fir	
White Pine		55	Log/Pole/Sap	14	90	White Pine	
Red Pine		30	Log/Pole/Sap	14	90		
Red Maple		5	Log/Pole/Sap	10			
						Density	Avg. Height
							Size
55	4130 - Aspen	Sapling Well	46.6	15	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern Pin Oak		15	Pole/Sap/Log	8		Hazelnut (American)	
White Pine		5	Sapling/Pole	3			
Quaking Aspen		80	Sapling	1	15		
						Density	Avg. Height
							Size
56	4130 - Aspen	Sapling Well	30.2	25	Immature	N/A	T.L.C. Aspen t-sale. 13-94
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		90	Sapling/Pole	4	25	Balsam Fir	
Red Pine		10	Log/Pole/Sap	10	61		
						Density	Avg. Height
							Size
57	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	8.3	80	81-110	N/A	Buffer for stager creek.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		5	Pole/Sap/Log	8		Hazelnut (American)	
White Spruce		5	Log/Pole/Sap	10			
White Pine		25	Log/Pole/Sap	12	80		
Red Maple		20	Log/Pole/Sap	10	80		
		20	Log/Pole/Sap	12	80		
Black Cherry		20	Pole/Log/Sap	8			
Quaking Aspen		5	Log/Pole/Sap	10			
						Density	Avg. Height
							Size
58	42200 - Natural White Pine	Sawtimber Well	10.4	90	141-170	N/A	Steep banks down to seven springs creek.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		10	Log/Pole/Sap	14		Red Maple	
Red Maple		10	Log/Pole/Sap	12		White Pine	
White Pine		70	Log/Pole/Sap	14	90		
White Spruce		10	Log/Pole/Sap	10			
						Density	Avg. Height
							Size
59	42200 - Natural White Pine	Sawtimber Medium	13.7	90	51-80	N/A	Stager Mix 2015.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		15	Log/Pole/Sap	14	90	White Pine	
White Pine		85	Log/Pole/Sap	12	90	Red Maple	
						Density	Avg. Height
							Size



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
60	4130 - Aspen	Poletimber Well	21.7	37	51-80	N/A	Tree Stand Sale. 8-84																													
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