



# Compartment Review Presentation

## Grayling Forest Management Unit

Compartment 72296

Entry Year 2024

Acreage: 2,027

County Crawford

Management Area: Ogemaw Hills

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**Stand Examiner:** Scott McClarren

### Legal Description:

T25N R02W sections 8, 17, 18, 19, 20, 29, South Branch Township

### Identified Planning Goals:

To manage and maintain species and structural diversity, health, productivity, and sustainability throughout the compartment. To incorporate visual management with any prescribed cutting along major county roads. Provide multiple uses of the land, for the public.

### Soil and topography:

Soils consist of well-drained Grayling and Graycalm sand with one small area of very poorly drained Lupton muck.

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

This compartment contains broken ownership with private residences along Stephan Bridge road. The majority of the land on the borders of this compartment is private. The SESW sec 19 was acquired in 2019. Its recommended that the isolated parcel located in the NESW of sec 29 be put up for disposal.

### Unique Natural Features:

The south half of sections 19 and 20 have been burned in 1968 and 1990 by wildfire. There is a potential for dry Prairie plants in grassy openings. They include Hill's thistle, Rough fescue, Prunus alleghaniensis, and pale agoseris. Dusted skipper, Grizzled skipper and Red legged spittlebug potential in grassy openings.

### Archeological, Historical, and Cultural Features:

Possibility of old logging camps in section 17.

### Special Management Designations or Considerations:

West half of stand 118 was treated with herbicide and contains deer enclosure to compare regen to untreated side.

### Watershed and Fisheries Considerations:

This compartment is in the South Branch Au Sable River watershed and contains the headwaters of Thayer Creek as well as some areas adjacent to the South Branch Au Sable River. The compartment also contains the Steckert Bridge Road Access to the South Branch Au Sable River. The prescribed treatments are appropriate for the protection of these waterbodies.

### Wildlife Habitat Considerations:

To maintain existing cover types and promote age class diversity where possible with commercial timber cuttings. The openings will be maintained to improve the grass types that various species of wildlife would benefit

### Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. Active sand/gravel pits are within two miles to the south and west. There appears to be good potential for additional sand & gravel within the compartment. The nearest significant hydrocarbon production, past or present, is the Hickey Creek Field three miles east. Only a couple wells are still producing and are in secondary recovery. There has been no recent well permitting activity in the area, and there is no current State mineral leasing activity in the area. Potential for oil & gas development in the compartment is considered low at this time. Within the last 10 years, Encana tested the Collingwood Formation several miles west. and while the formation did produce (and some of the wells are still producing), the play hasn't proven to be economical to date, and there has been no recent interest in developing the Collingwood. Interest in developing unconventional (horizontal drilling) plays in the Collingwood and Lucas (Richfield Member) formations in the recent past have dissipated.

### Vehicle Access:

Stephan Bridge Rd runs through the center of the compartment. The public land in sections 17 and 20 are best accessed from Chase Bridge Rd then west on W. Maplehurst trail. No new access roads are needed. All new roads created for

timber management should be closed upon completion of the management activities.

**Survey Needs:**

None

**Recreational Facilities and Opportunities:**

The Michigan Cross Country Cycle Trail occurs near Gobbler Trail for ORV enthusiasts. Other dispersed recreational pursuits common in this area are small game hunting, trapping, fishing, and wildlife viewing.

**Fire Protection:**

There is very little pine type. There are enough trails to get within 3/8 mile of any area in the compartment. The AuSable River is a half mile south of 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**

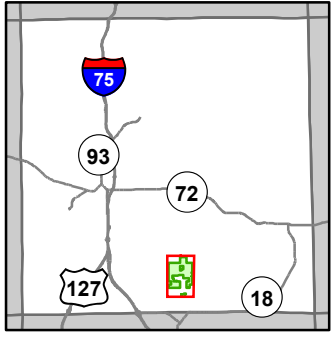
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

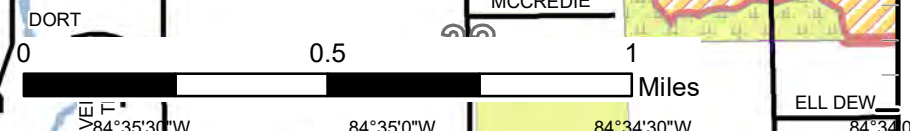
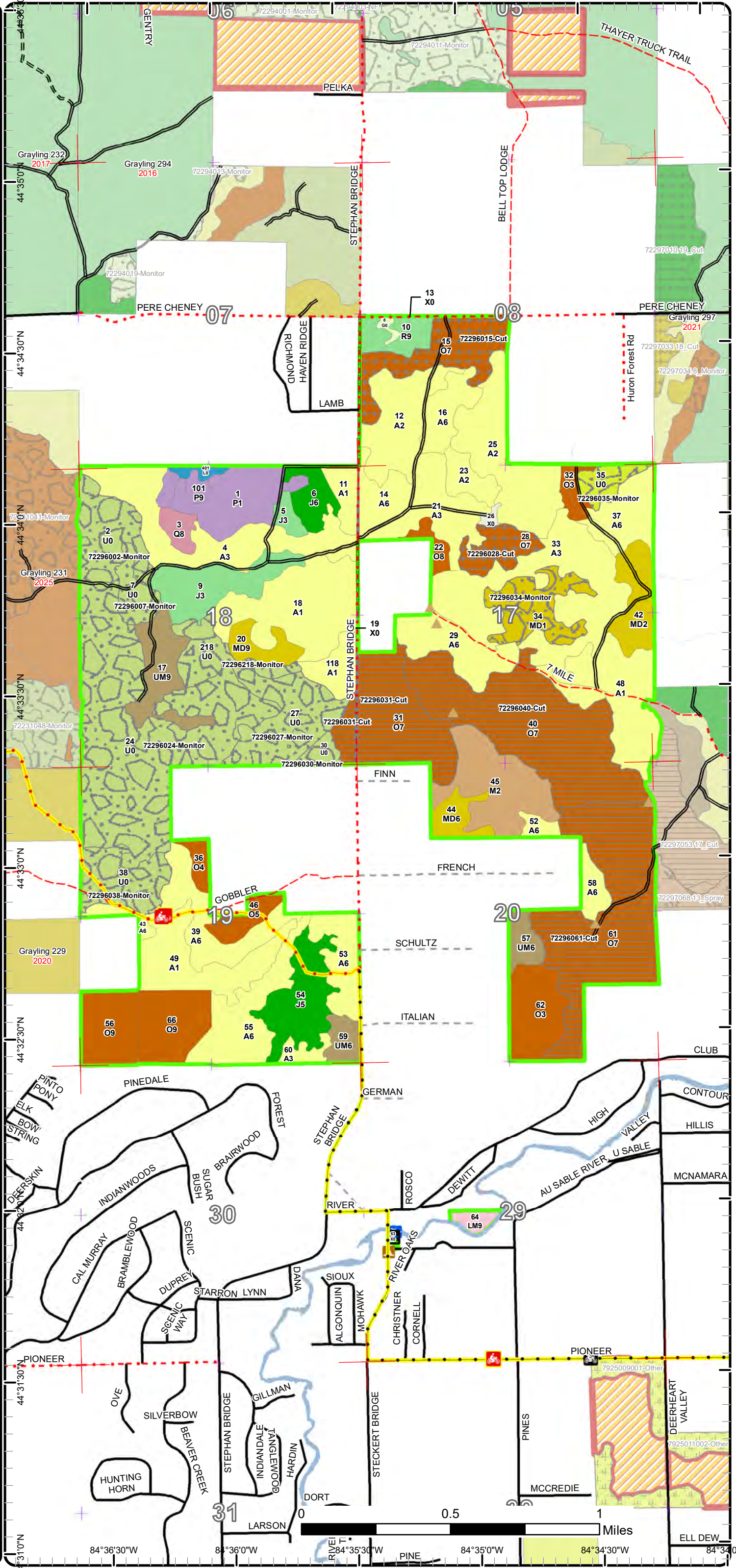


# Cover Type & Treatments Map

Compartment: 296  
 T25N, R02W, Sec. 8, 17-20, 29  
 County: Crawford  
 Unit: Grayling  
 Mgmt Area: Ogemaw Hills  
 YOE: 2024  
 Acres: 2026.5 GIS Calculated  
 Examiner: Scott McClarren  
 Map Revised: 12/27/2022  
 Map Phase: Post-Review



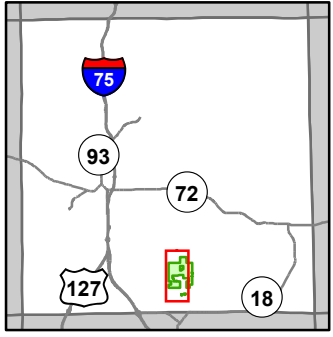
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🏍️ Motorcycle Trails (DNR License)
- 🏍️ MCCCT Trails
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- Perennial River
- Lakes and Rivers
- T Toilet
- B Berms
- Bo Boating Access Site
- Ca Campground
- Pipeline
- Compartment Boundary
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
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- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 629 - Mixed Non-forested Wetland
- 790 - Other Bare/Sparsely Vegetated



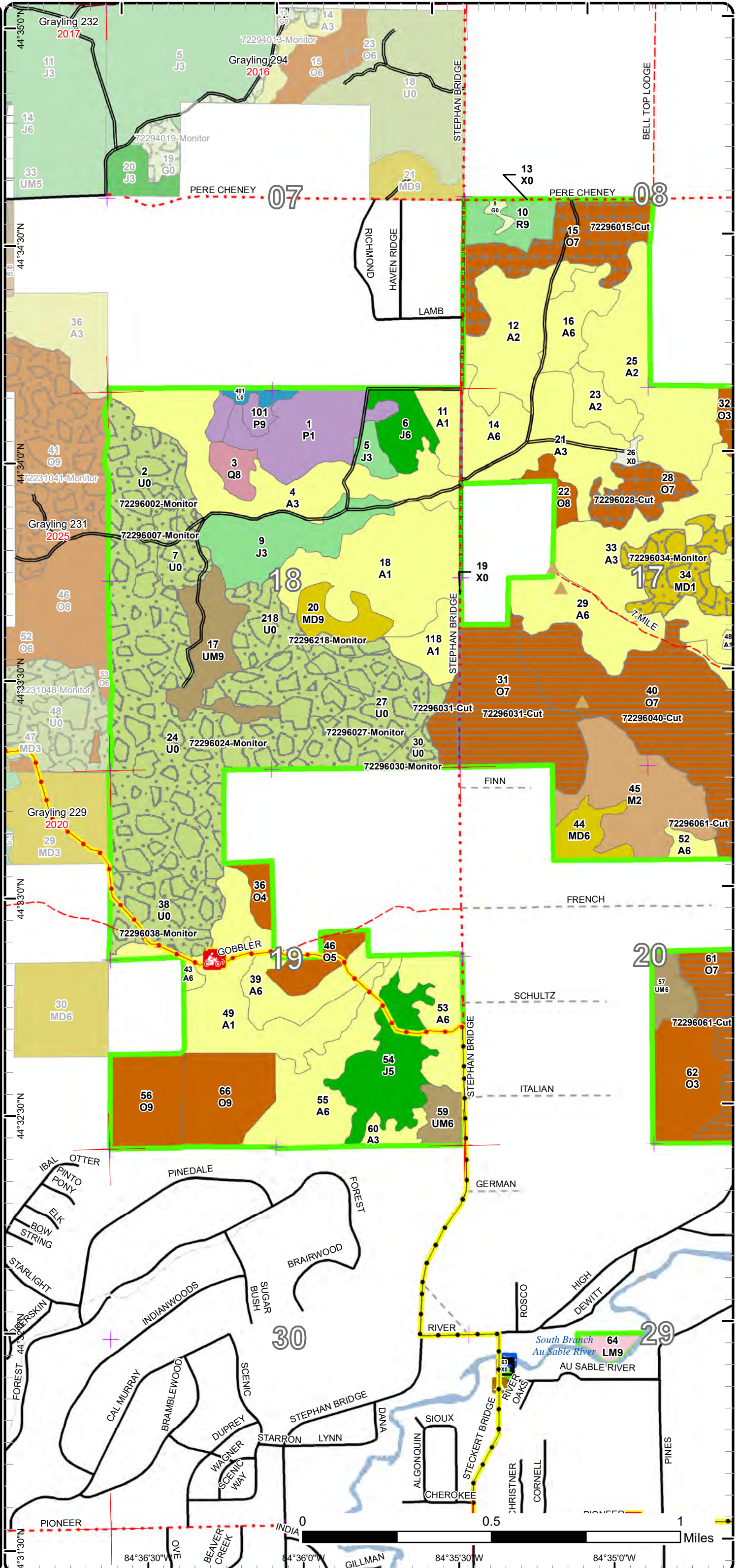


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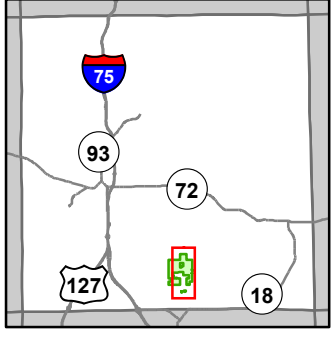
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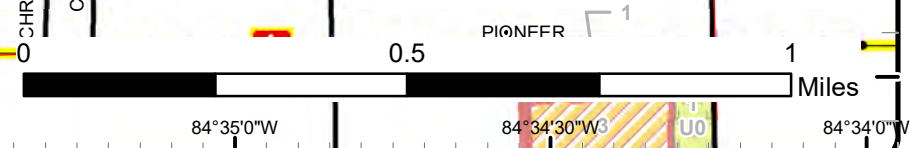
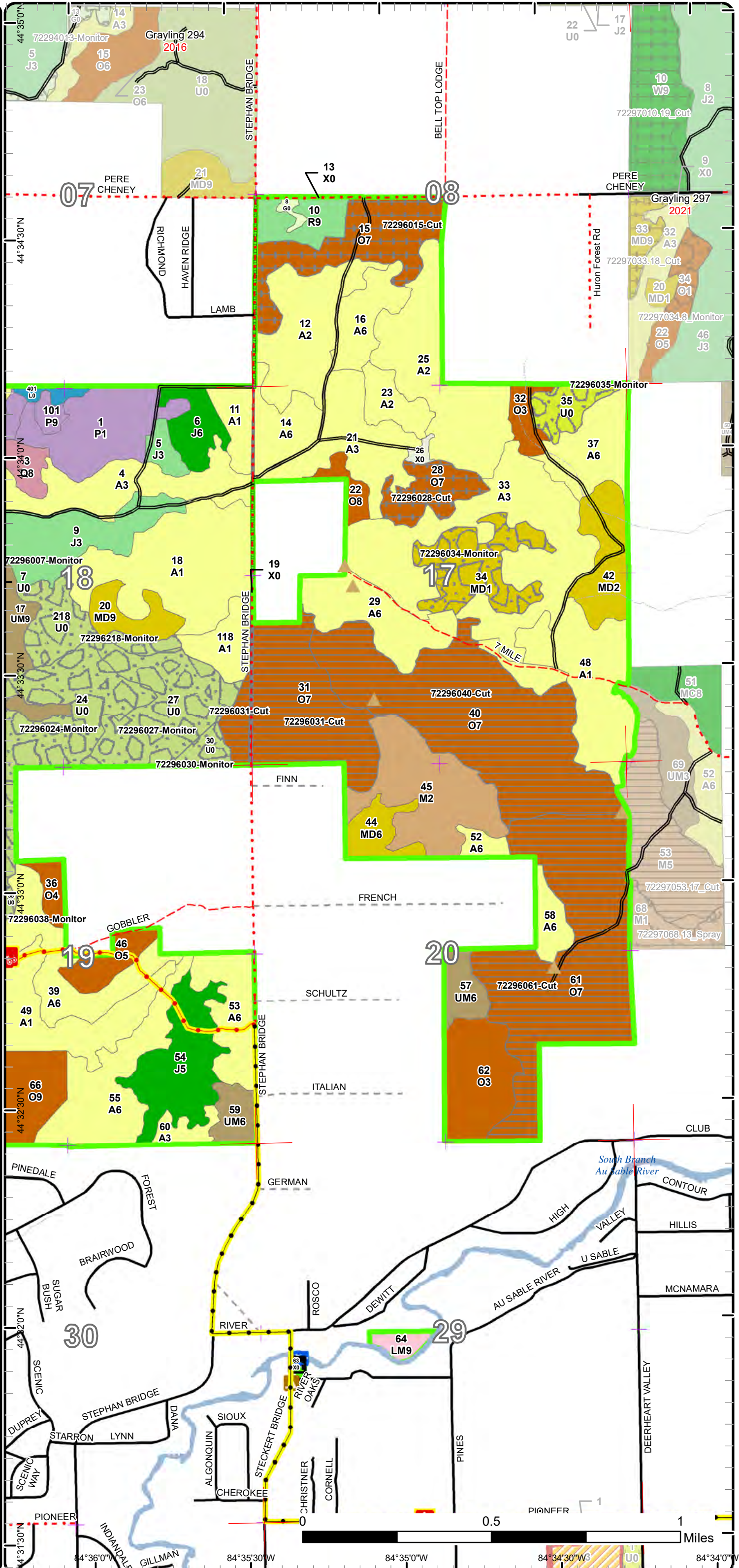


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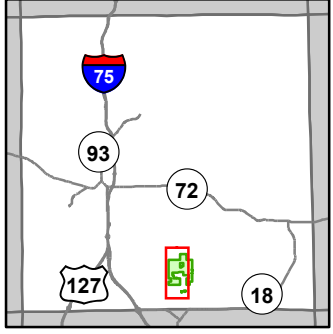
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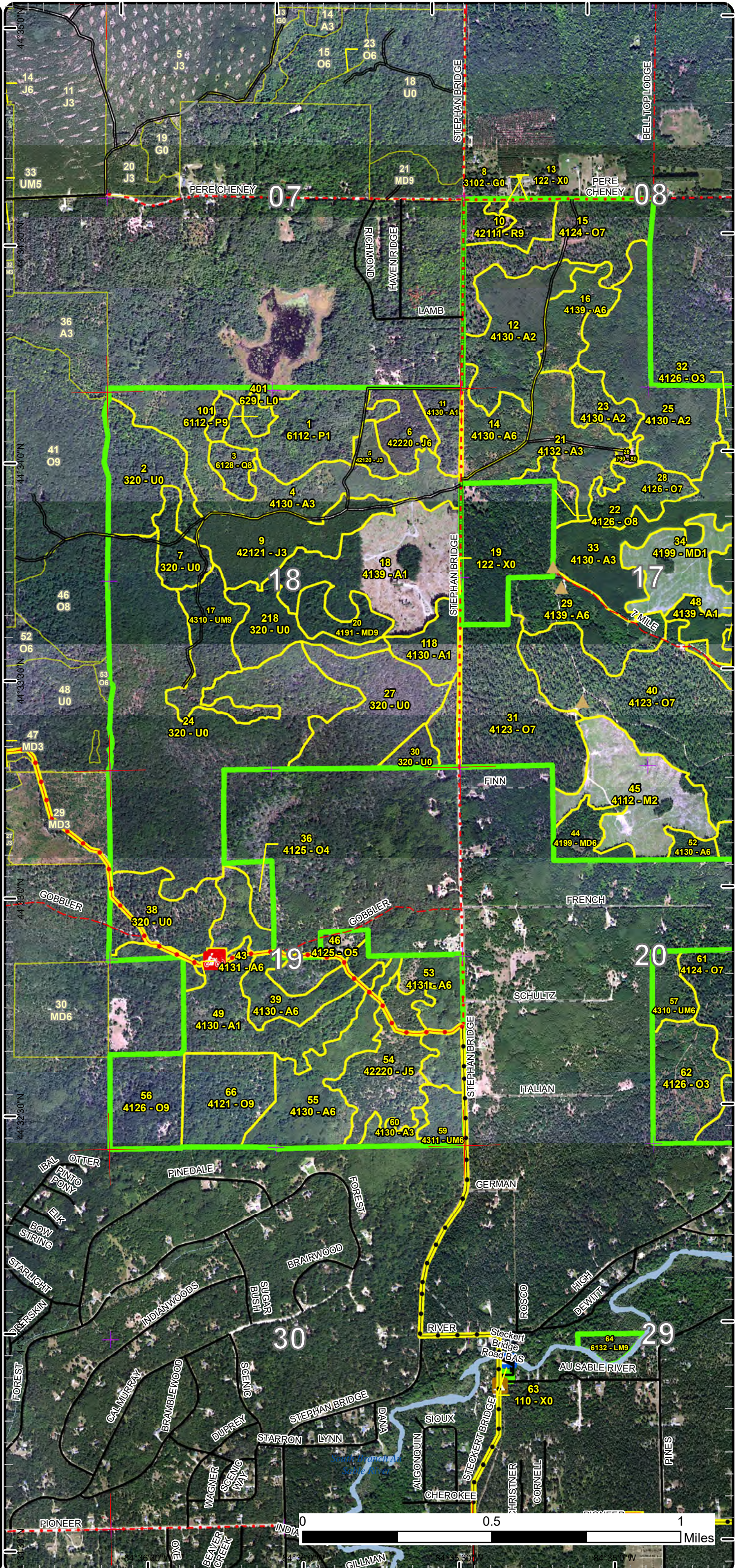


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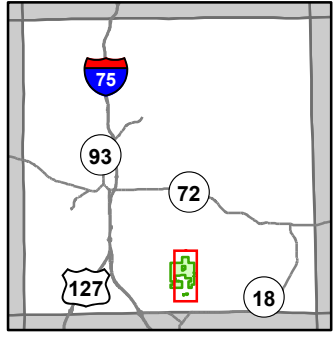
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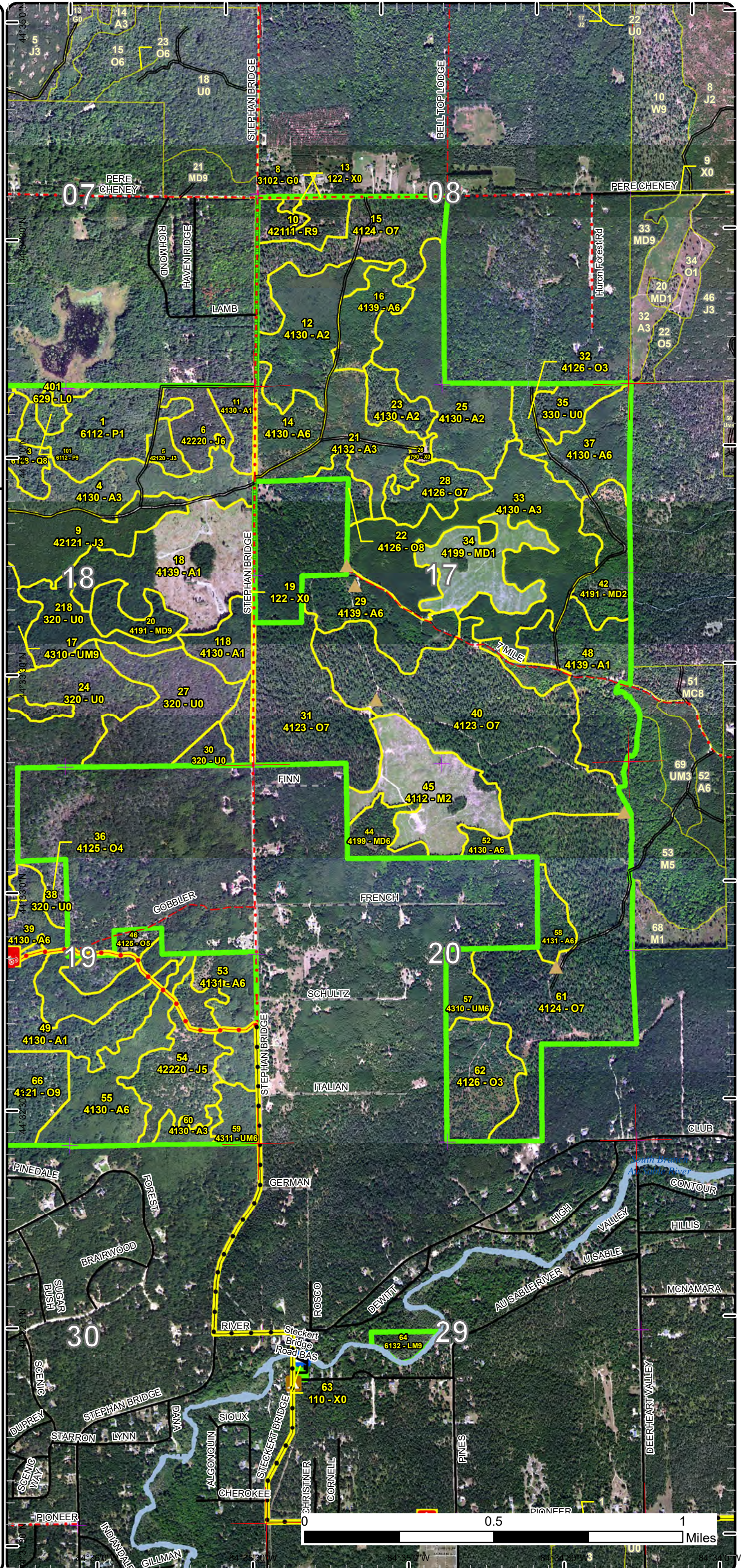


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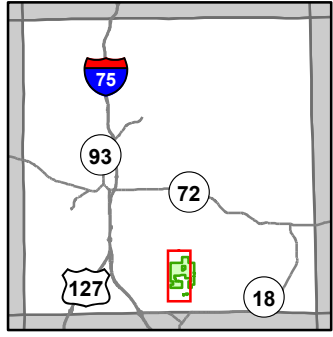
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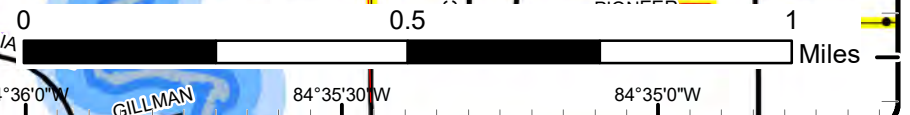
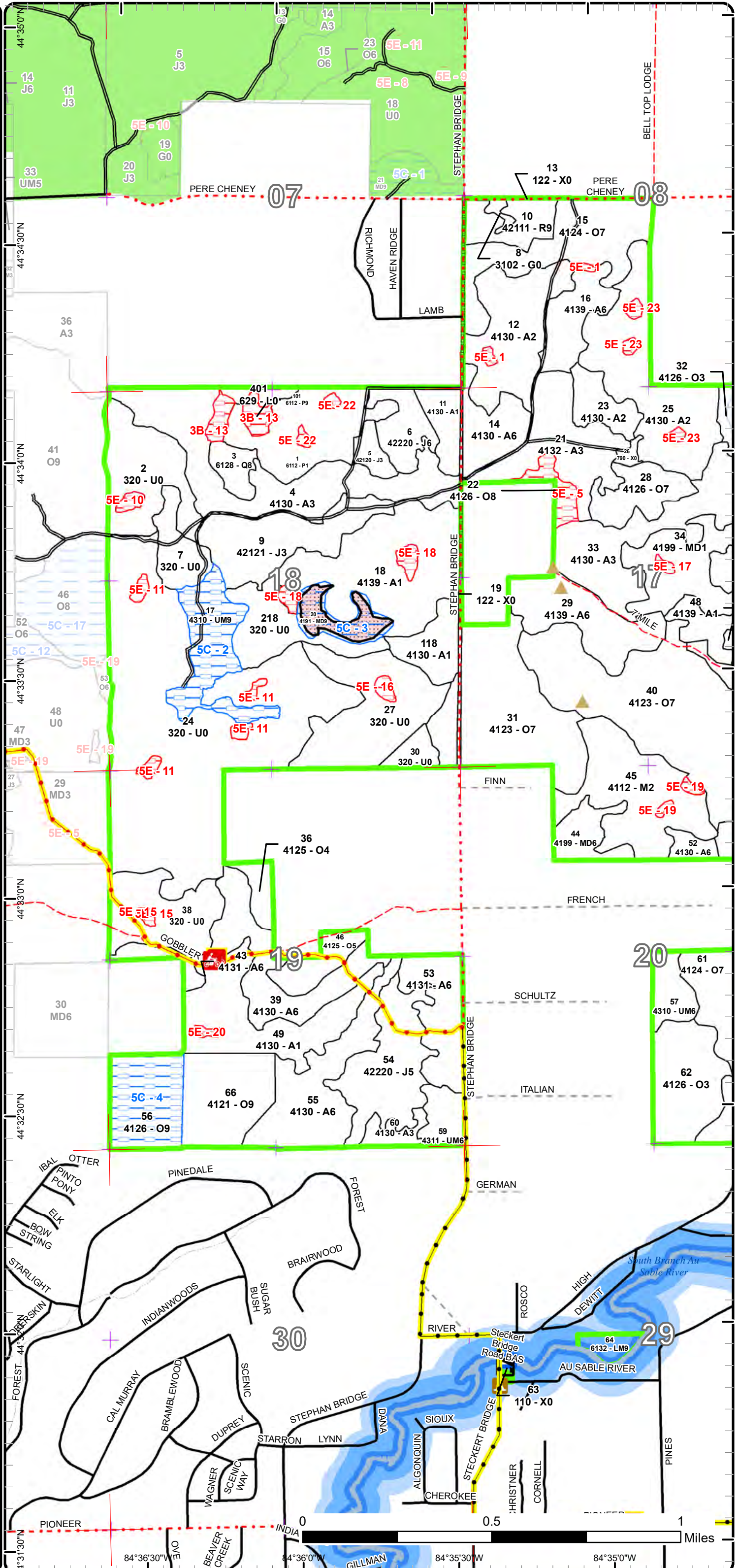


# Special Conservation Areas

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- 🏕️ Campground
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Contiguous Resource Area











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	310	197	107	92	44	0	0	0	0	0	0	0	0	0	0	0	0	750
Bare/Sparsely Vegetated	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	0	0	45	56	0	0	0	0	0	0	0	0	0	0	0	0	0	101
Low-Density Trees	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Aspen/Balsam Poplar	0	40	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	48
Lowland Conifers	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
Lowland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	34	0	26	13	0	0	0	0	0	0	0	14	0	0	0	0	0	87
Northern Hardwood	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Oak	0	0	35	9	35	20	0	0	89	164	128	44	0	0	0	0	0	0	524
Red Pine	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	16
Upland Mixed Forest	0	0	0	0	23	0	0	0	31	0	0	0	0	0	0	0	0	0	52
Upland Shrub	353	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	353
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
<b>Total</b>	<b>381</b>	<b>437</b>	<b>232</b>	<b>187</b>	<b>219</b>	<b>64</b>	<b>8</b>	<b>16</b>	<b>8</b>	<b>120</b>	<b>164</b>	<b>134</b>	<b>44</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2026</b>





## Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 296

Total Compartment Acres: 2,027

Commercial Harvest - 385  
 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	Overshoy Removal	Salvage	Other	Total Acres
Oak		323	0	0	0	0	63	0	0		385
	<b>Total</b>	<b>323</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>63</b>	<b>0</b>	<b>0</b>		<b>385</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		385	0	0	0	0	400	0	0		785
Next Step		0	255	128	0	0	128	469	128	0	1107
	<b>Total</b>	<b>385</b>	<b>255</b>	<b>128</b>	<b>0</b>	<b>0</b>	<b>128</b>	<b>869</b>	<b>128</b>	<b>0</b>	<b>1892</b>





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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Approved Treatments:**

<b>2</b>	<b>72296002-Monitor</b>	38.2	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4124 - Red with White Oak	Even-Aged	No
<p><u>Prescription</u> Stand had a good oak component when assessed in 2022. Check regen in FY 2027 to make sure it reaches the 6' threshold for acceptable regen.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Will accept a moderate to well stocking of Oak, Aspen and Red maple.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2026</p>											

<b>7</b>	<b>72296007-Monitor</b>	15.0	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Check regen in 2027.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed upland deciduous with 10% oak. Maple and aspen are acceptable as well</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2026</p>											

<b>15</b>	<b>72296015-Cut</b>	43.6	4124 - Red with White Oak	Sawtimber Poor	117	1-50	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Remove all merchantable stems. Follow standard retention guidelines. Include soft oak wilt spec for east boundary along pvt. Protect advanced regen (except along pvt line if cut during oak wilt restricted period, cut all stems &gt;1" within 100' of property line).</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, aspen, and white oak have already been established following previous harvest.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2023</p>											





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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
24	72296024-Monitor	186.0	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4124 - Red with White Oak	Even-Aged	No
<p><u>Prescription Specs:</u> Stand had a good oak component when assessed in 2022. Check regen in FY 2027 to make sure it reaches the 6' threshold for acceptable regen.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate to well stocked oak, aspen, and red maple.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2026</p>											
27	72296027-Monitor	49.8	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4126 - White, Black, N. Pin Oak	Even-Aged	No
<p><u>Prescription Specs:</u> Stand had a good oak component when assessed in 2022. Check regen in FY 2027 to make sure it reaches the 6' threshold for acceptable regen.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate to well stocked oak, aspen, and red maple.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2026</p>											
28	72296028-Cut	19.1	4126 - White, Black, N. Pin Oak	Sawtimber Poor	89	1-50	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all merchantable stems. Follow standard retention guidelines. Protect advanced regen.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen and maple have already been established through previous harvest and are acceptable species. Oak and pine will also be accepted species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
30	72296030-Monitor	6.5	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription Specs:</u> Stand had a good aspen/oak component when assessed in 2022. Check regen in FY 2027 to make sure it reaches the 6' threshold for acceptable regen.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen and oak</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2026</p>											





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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
31	72296031-Cut	69.5	4123 - Red Oak	Sawtimber Poor	85	1-50	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all stems greater than 2" DBH. Follow standard retention guidelines. Use retention to alleviate any green-up concerns with adjacent clearcut across Stephan Bridge Rd and areas of inoperability along south pvt line. Also include retention island near private dwelling to the north to break up visual. Include soft oak wilt restrictions. Protect oak regen.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mixed upland deciduous with at least 10% oak will be acceptable. Aspen, red maple, and pine will all be acceptable as well.</p> <p><u>Other Comment:</u> Stand may require more than standard 3-10% retention.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
34	72296034-Monitor	34.2	4199 - Other Mixed Upland Deciduous	Sapling Poor	7	Immature	Monitoring	Natural Regen (Intermediate)	4126 - White, Black, N. Pin Oak	Even-Aged	No
<p><u>Prescription Specs:</u> Stand had a good oak component when assessed in 2022. Check regen in FY 2027 to make sure it reaches the 6' threshold for acceptable regen.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Oak, aspen, and red maple.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2026</p>											
35	72296035-Monitor	13.0	330 - Low-Density Trees	Nonstocked		Immature	Monitoring	Natural Regen (Re-Inventory)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Check regen.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderately stocked mixed upland deciduous goal with 10% oak. Maple, aspen and pine all acceptable as well.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											





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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
38	<b>72296038-Monitor</b>	33.2	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Stand had a good oak component when assessed in 2022. Check regen in FY 2027 to make sure it reaches the 6' threshold for acceptable regen.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate to well stocked oak, aspen, and red maple.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2026</p>											
40	<b>72296040-Cut</b>	127.5	4123 - Red Oak	Sawtimber Poor	102	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all stems greater than 2" DBH. Follow standard retention guidelines. Include low stump specs and chipping specs for planting (no exceptions). Include soft oak wilt restrictions.</p> <p><u>Next Step Treatments:</u> ; SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Hand</p> <p><u>Acceptable Regen:</u> Site prep and plant red pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
61	<b>72296061-Cut</b>	125.6	4124 - Red with White Oak	Sawtimber Poor	93	1-50	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all stems greater than 2" DBH. Follow standard retention guidelines. Use retention to alleviate any green-up concerns with adjacent clearcut in compartment 297. Include soft oak wilt restrictions. Protect oak regen.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mixed upland deciduous with at least 10% oak will be acceptable. Aspen, red maple, and pine will all be acceptable as well.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
218	<b>72296218-Monitor</b>	23.9	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Monitor to check results of herbicide application. Stand was herbicided to kill maple before oak overstory was removed. Compare to stand 118 which didn't receive herbicide treatment.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Poorly stocked mixed deciduous. Any mix of species is acceptable.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><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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Total Treatment Acreage Proposed: 785.1



## Report 4 – Site Conditions

Grayling Mgt. Unit  
Scott McClarren : Examiner

Compartment: 296  
Year of Entry: 2024

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	3B	5E
		With Condition	Not Available				
751	741	0	10	Aspen			10
2	2	0	0	Bare/Sparsely Vegetated			
2	2	0	0	Herbaceous Openland			
100	100	0	0	Jack Pine			
13	12	0	1	Low-Density Trees			1
48	40	0	8	Lowland Aspen/Balsam Poplar		8	
8	8	0	0	Lowland Conifers			
6	6	0	0	Lowland Mixed Forest			
4	4	0	0	Lowland Shrub			
88	73	14	1	Mixed Upland Deciduous	14		1
53	51	0	2	Northern Hardwood			2
522	484	31	7	Oak	31		7
16	16	0	0	Red Pine			
53	22	30	0	Upland Mixed Forest	30		0
353	343	0	10	Upland Shrub			10
7	7	0	0	Urban			
2,027	1,913	76	38	Total Forested Acres	76	8	31
	94%	4%	2%	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	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Holding for green-up purposes. Stand is healthy and will hold another 10 years.							



## Report 4 – Site Conditions

Grayling Mgt. Unit

Compartment: 296

Scott McClarren : Examiner

Year of Entry: 2024

3	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Natural pine/oak stand with large diameter trees. Hold another 10 years for green-up purposes.							
4	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Delaying treatment to allow more aspen and white oak to get log size. Treat with stand 66 next entry.							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> According to timber sale proposal checklist from East 7 Mile Aspen #72-030-04, stand was left as long-term retention associated with stands 33 and 21.							
10	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>3B: Threatened, endangered, and special concern species</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 7.8 acres removed from treatment upon discovery of active eagle's nest (660' buffer). Crazy Coyote Cut (#72-059-15).							
15	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**Report 4 – Site Conditions**

**Grayling Mgt. Unit**  
**Scott McClarren : Examiner**

**Compartment: 296**  
**Year of Entry: 2024**

16	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**Report 4 – Site Conditions**

**Grayling Mgt. Unit**

**Compartment: 296**

**Scott McClarren : Examiner**

**Year of Entry: 2024**

26	Unavailable	5E: Long-Term Retention	3	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							





**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
<b>72296020</b>	Contiguous Resource Area	Contiguous Resource Area	<b>SCA</b>	10
<b>Comments</b>				
Previous inventory had proposed this as a "future old growth area" although it did not meet criteria for Type 1 or Type 2 OG. This is a natural oak/pine stand with some large trees but, I recommend removing this as a SCA.				
<b>72296020</b>	Habitat Area		<b>SCA</b>	10
<b>Comments</b>				
Previous inventory had proposed this as a "future old growth area" although it did not meet criteria for Type 1 or Type 2 OG. This is a natural oak/pine stand with some large trees but, I recommend removing this as a SCA.				





**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.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
1	6112 - Lowland Aspen	Sapling Poor	40.1	3	Immature	N/A	<p>Stand regenerated to fully stocked aspen. There are a few open areas in the west where it gets a lot wetter but, good regen overall. Stand cut winter 2018/2019, PU 2 of Crazy Coyote Cut (#72-059-15). 7.8 acres removed from treatment upon discovery of active eagle's nest. Some excessive rutting occurred in a few of the wetter areas.</p> <p>Old Comments- Lowland Aspen stand (Quaking) with scattered White and Red pine sawlogs. Also Red maple mixed in as well. Some scattered Balsam fir and White pine in understory. Recommend final harvest with patches for retention (2-3 1 acre in size). Expect to get Aspen back with other species in the mix.</p>																																																				
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2	320 - Upland Shrub	Nonstocked	38.2	0	Unspecified	4124 - Red with White Oak	<p>Big Buck Oak #72-036-14 harvested summer 2018 and closed Oct 2021. Stand has a really good oak component that is currently too small to count towards acceptable regen. Therefore, the re-inventory natural regeneration monitoring failed to meet minimum stocking requirements for regen objective with only 201 tpa of acceptable regen. Acceptable regen is listed as follows; RM=128 tpa, RO=55 tpa, RP=18 tpa. Acceptable regen that hasn't reached acceptable size is as follows; RM=2071 tpa, RO=201 tpa, WO=1283 tpa, Q. Aspen=183 tpa. Given the size of the clearcut and the high oak regen, I anticipate the stand to meet minimum stocking for oak over the next inventory cycle.</p> <p>Mixee Oak std that was thinned in 1995-96. A fair amount of Red maple and Oak regen. A portion of the west side may not have been thinned. Red maple regen overtopping Oak regen, but Oak regen is 2 to 6 ft tall. Remove overstory and see what happens.</p>																																																				
3	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	8.4	75	1-50	N/A		<p>Hummacky lowland that has some marginally operable ground on south side. Open alder and leatherleaf bog in north. Lots of standing water in spring when assessed. Old comments- New stand added. Small lowland spruce/fir stand.</p>																																																			
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4	4130 - Aspen	Sapling Well	65.8	17	Immature	N/A	<p>Stand is mostly immature aspen but, contains openings with open grown white pine/cherry/jack pine pole/logs. Old comments- Immature Aspen stand mixed with other deciduous species and some pine. Stand was last harvested in the spring of 2005, contract 720470401. Some individual Oak was left along Stephan Bridge Rd. No treatment recommended.</p>																																																				
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5	42120 - Planted Jack Pine	Sapling Well	6.2	24	1-50	N/A	Still overall sub-merchantable but there are scattered trees getting pole size. Pocket of pole size aspen in north. Old comments- Immature Jack pine plantation mixed with other deciduous species. Planted in 1998. Recommend no treatment. Small stand.																																							
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6	42220 - Natural Jack Pine	Poletimber Well	15.6	37	81-110	N/A	Natural Jack pine with pockets of aspen.																																							
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7	320 - Upland Shrub	Nonstocked	15.0	0	Unspecified	4199 - Other Mixed Upland Deciduous	Big Buck Oak #72-036-14 harvested summer 2018 and closed Oct 2021. Stand is mostly red maple with a decent aspen component and some oak that is currently too small to count towards acceptable regen. Therefore, the re-inventory natural regeneration monitoring failed to meet minimum stocking for regen objectives with only 466 tpa of acceptable regen. Acceptable regen is listed as follows; RM=357 tpa, RO=27 tpa, WO=55 tpa, Q Aspen=27 tpa. Acceptable regen spp that hasn't reached acceptable size is as follows; RM=2420 tpa, RO=82 tpa, Q Aspen=247 tpa. Given the size of the clearcut, I anticipate the stand to get above browse height and meet minimum stocking objective for mixed upland deciduous over the next inventory cycle. Old comment- Red pine/Oak std mixed with Red maple and some Aspen. Finger to the north less Red pine. Red maple understory.																																							
8	3102 - Grass	Nonstocked	1.9			No																																								
9	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	38.5	24	1-50	N/A	Stand is getting some pole size trees scattered throughout but, overall sub-merchantable still. There's a pocket of maple/aspen on south side that appears to have over-topped the planted jp. Some residual pole and log size white pine left from harvest. Previous comments- Immature Jack pine plantation mixed with other deciduous species. Planted in 1998.																																							
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10	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	15.6	65	141-170	N/A	Variable stand. pockets of planted red pine with ba at 200. Most pine is around 140-170. Cored pines show a dramatic slow down of diameter growth. Old comments- Stand is a planted Red pine with Oak and aspen surrounding it as well as scattered throughout. Stand borders Stephan bridge and Pere Cheney roads as well as private.																																														
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11	4130 - Aspen	Sapling Poor	11.5	3	Immature	N/A	Stand cut winter 2018/2019, PU 1 of Crazy Coyote Cut (#72-059-15). Stand didn't meet objective for Mixed Upland Deciduous with Conifer but, did meet objective for fully stocked aspen which was listed as an acceptable spp. Some pin oak present (220 tpa) that's under 6' and could not be counted as acceptable regen yet.  Old comment-New stand added.																																														
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12	4130 - Aspen	Sapling Medium	44.4	2	Immature	N/A	Harvested spring/summer 2020, Tire Licking Fawn #72-028-15. Stand regenerated to fully stocked aspen following harvest.  Old comments- Pole size Aspen stand mixed with Red maple and Oak. Some White pine in understory, but mostly Red maple. Std borders Pere Cheney and Stephann Bridge Rds. Thinned to 70 ba in Dec 2008 under contract 720480401 FTP72-698 in 2010.																																														
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13	122 - Road/Parking Lot	Nonstocked	1.2		Unspecified	No	Pere Cheney Rd																																														
14	4130 - Aspen	Poletimber Well	18.8	27	1-50	N/A	Harvested in 1995 Stephan-Cheney East #036-94.  Young Aspen/Jack pine stand mixed with Oak and cherry. West side of std borders Stephan Bridge rd.																																														
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15	4124 - Red with White Oak	Sawtimber Poor	43.6	117	1-50	N/A	Stand changed from red oak to white oak dominated due to significant oak mortality. Records showed stand was treated with a vibratory plow for oak wilt in 2010. Live white oak and live red oak are declining rapidly. Old comments- was thinned to a residual BA of 70 sqft/ac as part of a large harvest in 2008, 296 Oak #72-048-04. Aspen and red maple were designated for cutting as well.																																														
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16	4139 - Aspen, Mixed Deciduous	Poletimber Well	19.9	27	1-50	N/A	Aspen has white oak sub canopy component in places and maple/witch hazel in most others. JP/oak in south west. Harvested in 1995 Stephan-Cheney East #036-94. Old comments- Immature Aspen stand mixed with other deciduous species and some Jack pine in the south west. 2-3" dia 15-20 ft tall.																																																								
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17	4310 - Pine, Oak Mix	Sawtimber Well	30.5	89	111-140	N/A	Natural red pine stand. Legacy red pine seed trees scattered throughout stand. Mostly blueberry with some maple and oak seedlings under 1' tall. South half of stand is on a slope.																																																								
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18	4139 - Aspen, Mixed Deciduous	Sapling Poor	68.1	5	Immature	N/A	Final harvested in summer/fall of 2017, two retention islands left within the stand. Stand has dense pockets of white oak regen that are currently too small to count towards acceptable regen. Therefore, the re-inventory natural regeneration monitoring failed to meet minimum stocking for Red With White Oak regen objectives with only 66 oak per acre over 6' tall. Aspen is large component of the stand with more than 400 stems per acre. There was also dense white oak regen in areas that added up to 1,914 seedlings per acre across the stand that may recruit above browse height given more time. Regen objective change to Aspen, Mixed Deciduous approved through 2024 comp review.  Stand located on north facing slope. Mixed Oak stand with some Red maple mixed in and Aspen mixed in on east side of std along Stephan Bridge road. Heavy White pine understory.																																																								
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19	122 - Road/Parking Lot	Nonstocked	5.0			No	South Stephan Bridge Road.																																																								
20	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	14.1	120	111-140	N/A	Stand is located on an operable but, steep north facing slope. Changed cover type from white pine to mixed upland deciduous with pine. Good white pine component in the sub-canopy. Oak and maple seedlings are under 1'. Previous inventory had white pine age at 134 years old, but red oak dominates more of the canopy and a couple of the larger oaks were cored at 120 years old.																																																								
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<b>21</b>	4132 - Aspen, Jack Pine	Sapling Well	38.8	18	Immature	N/A	Old comments- Young Aspen stand with pockets of Jack pine. Also some stump sprouting Oak. Lots of cherry as well. Jack pine in understory. Final harvested in Dec 2004 under contract 720440401.																																														
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<b>22</b>	4126 - White, Black, N. Pin Oak	Sawtimber Medium	7.2	93	51-80	N/A	According to timber sale proposal checklist from East 7 Mile Aspen #72-030-04, stand was left as long-term retention associated with stands 33 and 21. Declining oak and aspen through stand with scattered mortality. Heavy maple in understory.																																														
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						Old comments- Small mixed Oak std with Red maple. Located around a private corner.																																															
<b>23</b>	4130 - Aspen	Sapling Medium	13.0	2	Immature	N/A	Stand regenerated to fully stocked aspen. Old comments- Most of stand harvested spring 2020 except south tip harvested spring 2019, Tire Licking Fawn #72-028-15. stand of Q. Aspen with some Jack pine. Stand on the low end of 75-100% crown closure. Std should be final harvested with no retention. Stand is not Oak as previous inventory. Estimate age based on adjacent Aspen std.																																														
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<b>24</b>	320 - Upland Shrub	Nonstocked	186.0	0	Unspecified	4124 - Red with White Oak	Big Buck Oak #72-036-14. Oak wilt buffer in south half of stand (PUs 3 and 6) cut Mar/Apr 2019 and interior cut summer of 2019. North half of stand (PU2) was cut July 2018 and 100' oak wilt buffer was cut later (March of 2019). Sale closed Oct 2021. Stand has a really good oak component that is currently too small to count towards acceptable regen. Therefore, the re-inventory natural regeneration monitoring failed to meet minimum stocking for regen objectives with only 417 tpa of acceptable regen. Acceptable regen is listed as follows; RM=73 tpa, RO=51 tpa, WO=7 tpa, Q Aspen=286 tpa. Acceptable regen spp that haven't reached acceptable size is as follows; RM=2310 tpa, RO=542 tpa, BT Aspen=381 tpa, and WO=4882 tpa. Given the size of the clearcut and heavy oak component, I anticipate the stand to get above browse height and meet minimum stocking objective for oak over the next inventory cycle.																																														
						Mixed Oak stand mixed with Aspen and Red maple on south facing slope. Lots of Oak seedlings in understory in north, but less in south. South end of stand involved in the 1968 Billman fire. North east borders private. West borders state that has been harvested.																																															
<b>25</b>	4130 - Aspen	Sapling Medium	60.9	2	Immature	N/A	Stand regenerated to fully stocked aspen. Red maple stump sprouts are heavily browsed. West 2/3 harvested spring/summer 2020, south east 1/3 harvested spring 2019, Tire Licking Fawn #72-028-15. Aspen stand mixed with Red maple and White Oak. Some Oak/aspen pockets Saw and pole timber. Can hold another entry yr if need be. Stand borders private. Recommend final harvest with retention patches.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26	790 - Other Bare/Sparsely Vegetated	Nonstocked	2.0			No	Opening was used as landing for adjacent sale. Old comment-Old well pad, dry hole plugged in 1984. No lease obligations, management falls on unit. New stand added. Stand swapped from Forested to Non-Forested. A square patch of grasses and sedge. Possibly an old oil/gas site.
							Mixes Sedges/Grasses Full Non-Wood

27	320 - Upland Shrub	Nonstocked	49.9	0	Unspecified	4126 - White, Black, N. Pin Oak	Big Buck Oak #72-036-14 harvested Oct 2019. Oak wilt buffer cut spring 2019. Sale closed Oct 2021. This unit had an overstory removal and there is small component of oak/aspens/pine with a jump on the rest of stand but not enough to call stand forested. Stand has a really good oak component that is currently too small to count towards acceptable regen. Therefore, the re-inventory natural regeneration monitoring failed to meet minimum stocking for regen objectives with only 94 tpa of acceptable regen. Acceptable regen is listed as follows; RO=27 tpa, WO=13 tpa, BT Aspen=27 tpa, WP=27 tpa. Acceptable regen spp that haven't reached acceptable size is as follows; RM=1320 tpa, RO=618 tpa, BT Aspen=302 tpa, and WO=6723 tpa. Given the size of the cut and heavy oak component, I anticipate the stand to get above browse height and meet minimum stocking objective for oak over the next inventory cycle.  Stand of Oak (dominately W. Oak) mixed with White pine pole timber. Heavy Oak seedling understory along with White pine. 1968 Billman fire went through this stand. Recommend final harvest with patches of retention.
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28	4126 - White, Black, N. Pin Oak	Sawtimber Poor	19.1	89	1-50	N/A	All white oak, white pine, and red pine was left (about 30-50 ba). SW corner has less residuals. Regen is sparse where ba is higher. Areas with less residual ba has fully stocked aspen. Heavy browse on regen.  Old comments- Harvested summer 2020, Tire Licking Fawn #72-028-15. I didn't want to call non-forested following harvest because there's enough residuals to leave stand forested (was supposed to be clearcut but looks like a shelterwood. Reassess next inventory. (SM)  Oak/aspens std with Red maple. Scattered pine within stand. Final harvest, but leave white oak, red pine and white pine for retention.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	Log/Pole	10	
White Oak	95	Log/Pole	10	89
Red Pine	3	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	High	5 - 10 feet	Sapling
Red Maple	Low	< 5 feet	Sapling

29	4139 - Aspen, Mixed Deciduous	Poletimber Well	41.0	27	Immature	N/A	Harvested in 1995 Stephan-Cheney East #036-94. Young Aspen stand. 2-3" in dia. 20-25ft tall
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Sapling/Pole	4	
Black/Red (Hybrid) Oak	15	Sapling/Pole	4	
Red Pine	5	Pole/Sapling	5	
Bigtooth Aspen	45	Pole	5	27

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Black/Red (Hybrid) Oak	Low	Variable	Sapling
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30	320 - Upland Shrub	Nonstocked	6.5	0	Unspecified	4131 - Aspen, Oak	<p>Big Buck Oak #72-036-14 harvested summer 2019. Oak wilt buffer cut in spring of 2019. Sale closed Oct 2021. Stand has a really good aspen/oak component that is currently too small to count towards acceptable regen. Therefore, the re-inventory natural regeneration monitoring failed to meet minimum stocking for regen objectives with only 182 tpa of acceptable regen. Acceptable regen is listed as follows; WP=36 tpa, BT Aspen=146 tpa. Acceptable regen spp that haven't reached acceptable size is as follows; RM=513 tpa, RO=696 tpa, BT Aspen=843 tpa, and WO=4766 tpa. Given the size of the cut and heavy oak component, I anticipate the stand to get above browse height and meet minimum stocking objective for oak over the next inventory cycle.</p> <p>Small stand of Aspen/Oak Aspen is younger in the crowns and Oak is much older. Recommend final harvest with stand 22. No retention.</p>																																						
31	4123 - Red Oak	Sawtimber Poor	69.6	85	1-50	N/A	<p>Changed stand age from 93 to 85 years old after coring a couple oaks. Heavy maple and cherry sub-canopy. According to compartment folder, west side of road had vibratory plow work done for oak wilt.</p> <p>Stand was thinned to a residual BA of 70 sqft/ac as part of a large harvest in 2008, 296 Oak #72-048-04. Aspen and red maple were designated for cutting as well.</p>																																						
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White Ash	Low	10 - 20 feet	Sapling																																										
32	4126 - White, Black, N. Pin Oak	Sapling Well	8.7	27	Immature	N/A	<p>Harvested in 1995 Stephan-Cheney East #036-94. Healthy oak stand with super-canopy red pine scattered throughout.</p> <p>Old comments- Young Oak stand mixed with Jack pine. Some Red pine logs. Two track traverses north and south through stand. North end borders private.</p>																																						
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33	4130 - Aspen	Sapling Well	92.8	17	Immature	N/A	<p>Aspen is pretty consistant throughout. High to full white oak sub canopy in portions but, medium overall.</p> <p>Old comments- Immature Aspen stand nmixed with other deciduous spieces. 1-2" dia 12 ft tall. Stand was cut in mid-Feb/May 20005 under contract 7220300401.</p>																																						
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<b>34</b>	4199 - Other Mixed Upland Deciduous	Sapling Poor	34.2	7	Immature	N/A	Stand harvested in fall of 2015 under 72-037-14-01. Stand has excellent oak regen throughout but, is considered poorly stocked due to oak being under 6'. Some oak, aspen and maple has gotten above browse height. I anticipate most of the oak will get above 6' if given a few more years and will then be considered fully stocked oak..  Old comment: Dominately a White Oak std with Red oak, BT Aspen and Red maple mixed throughout. Blanket of Oak seedlings. Some kind of treatment should be done to std. Leave all Aspen and Red maple and cut all the Oak. Leave one or two 1 acre patches.																																								
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<b>35</b>	330 - Low-Density Trees	Nonstocked	13.0		Immature	4199 - Other Mixed Upland Deciduous	Harvested summer 2019, Tire Licking Fawn #72-028-15. Stand contains pockets of good aspen regen but, heavy browse is keeping stump sprouted oak and maple from recruiting tall enough to count as regen. Stand overall is poorly stocked and contains large portions of non-stocked areas. Couldn't call stand forested at this time.																																								
<b>36</b>	4125 - Black, N. Pin Oak	Poletimber Poor	7.3	44	1-50	N/A	Lowered stand age from 54 to 44 to match adjacent aspen age. Stand is very open in a gentle valley visible from aerial imagery. Widely spaced stump sprout origin hybrid red/pin oak. Site index looks noticeably less than surrounding stands. Mostly sweet fern, grass, blueberry, and some sparse scattered oak/white pine seedlings for sub-canopy.Old comments- New stand added. Std is a result of the 1968 Billman fire. Young Oak pole/sapling stand.																																								
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<b>37</b>	4130 - Aspen	Poletimber Well	27.5	27	1-50	N/A	Pole size aspen mostly 5-6", oak and jack pine are still smaller and mostly in southwest. Harvested in 1995 Stephan-Cheney East #036-94.  Old comments- Young Aspen stand mixed with Oak, Red maple and Jack pine. Some BA exists within the stand.																																								
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<b>38</b>	320 - Upland Shrub	Nonstocked	33.2	0	Unspecified	4121 - Oak, Aspen	Big Buck Oak #72-036-14 harvested Apr 2020, closed Oct 2021. This unit had an overstory removal and there is small component of oak/aspen/pine with a jump on the rest of stand but not enough to call stand forested. Stand has a really good oak component that is currently too small to count towards acceptable regen. Therefore, the re-inventory natural regeneration monitoring failed to meet minimum stocking for regen objectives with only 132 tpa of acceptable regen. Acceptable regen is listed as follows; RO=88 tpa, WO=22 tpa, BT Aspen=22 tpa. Acceptable regen spp that haven't reached acceptable size is as follows; RM=264 tpa, RO=616 tpa, BT Aspen=40 tpa, and WO=5962 tpa. Given the size of the cut and heavy oak component, I anticipate the stand to get above browse height and meet minimum stocking objective for oak over the next inventory cycle.  New stand added. Stand is a result of the 1968 Billman fire and the 2005 and 2008 firewood sale. Fire wood sale not completed. Recommend final harvest, but protect advance Oak regen and aspen regen pockets. Cut with stand 60.																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
39	4130 - Aspen	Poletimber Well	38.0	44	111-140	N/A	Most aspen didn't look old enough to be 1968 origin. Cores showed aspen origin closer to 1978, changed age from 54 to 44. Mostly pole size with scattered log size trees. Merged stand 47 with stand 39 due to similar age and composition.																																					
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40	4123 - Red Oak	Sawtimber Poor	127.5	102	1-50	N/A	Ba around 50 most places																																					
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42	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	26.3	27	Immature	N/A	Maple, oak, and aspen concentrated on the higher grounds. Where stand drops to lower areas theres significant changes in covertype and turns to open and grassy with pin oak, cherry, and jack pine. Group of turkeys observed in stand. Harvested in 1995 Stephan-Cheney East #036-94.																																					
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43	4131 - Aspen, Oak	Poletimber Well	6.1	44	111-140	N/A	Changed age from 54 to 44 after coring a couple aspen. Changed from aspen-oak to aspen. Old comments- Small Aspen stand that as regenerated after 1968 fire (Billman Fire). South side of stand borders private.																																					
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44	4199 - Other Mixed Upland Deciduous	Poletimber Well	13.3	32	1-50	N/A	North half of stand is dominated by stump sprouted oak. South half is aspen with maple which changed covertype from oak to mixed deciduous. Stand has a few scattered fire scared oaks throughout. Old comments- Naural Oak std with a pocket of Aspen in south part of std as a result of 1990 Billman Fire. Aspen pocket is young poles about 4 inches in diameter.																																					
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45	4112 - Maple, Beech, Cherry Association	Sapling Medium	53.3	7	Immature	N/A	Harvested fall of 2015 under contract 72-037-14-01. Hilly stand that regenerated to fully stocked red maple. Stand failed to meet covertype objective for Red Oak with White Oak but, does meet fully stocked criteria for red maple which is listed as an acceptable species. There's some scattered oak saplings in west half of stand. Section corner and witness trees located in north side of stand.																																					
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<b>46</b>	4125 - Black, N. Pin Oak	Poletimber Medium	12.9	44	51-80	N/A	<p>Changed stand age from 54 to 44. Stand appears to be similar age to surrounding stands. Open sprout origin oak poles with pockets of aspen. Lower site oak than adjacent stands (similar to stand 36). Added 2.5 acres of open jack pine in north that was not previously part of compartment. Old comments- New stand added. Young Oak pole/sapling std as a result of the 1968 Billman fire.</p>																																												
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<b>48</b>	4139 - Aspen, Mixed Deciduous	Sapling Poor	50.6	3	Immature	N/A	<p>Harvested summer 2019, Tire Licking Fawn #72-028-15. There's large pockets of aspen with maple, cherry, and scattered oak between. Stand met forested objective of moderately stocked mixed upland deciduous. When more of the maple and oak get above browse height stand will likely be categorized as fully stocked.</p> <p>Old comments- Stand is dominantly Red maple saw/pole timber with a fair amount of Oak mixed in in pockets. Pockets of Aspen and pockets of Red maple pole timber. Stand borders private to the east.</p>																																												
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<b>49</b>	4130 - Aspen	Sapling Poor	45.9	2	Immature	N/A	<p>Big Buck Oak #72-036-14 harvested May 2020, closed Oct 2021. Monitoring results: Stand didn't meet white/black/n. pin oak objective but did come back to fully stocked aspen with an oak component. Aspen was listed as acceptable regeneration so, treatment met objective. Good oak component but has not quite gotten above browse height yet. Quite a bit of oak is about 4-5' right now and can't be counted according to standards. Oak under 6' takes up about 25% of canopy. I anticipate oak to reach that 6' level within the next couple years. Merged stand 51 with stand 49 following monitoring.</p> <p>Old comments: New stand added. Oak/Aspen stand mixed with younger aspen pockets as a result of the 1968 Billman fire. Recommend final harvest with a patch or two left for retention.</p>																																												
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<b>52</b>	4130 - Aspen	Poletimber Well	5.2	32	1-50	N/A	<p>Split off about 3 acres of the east side of stand and merged with stand 61. Stand is on a ridge that butts up to private to the south. There's a small pocket of mature oak in west finger. Old comments- Small stand of Aspen mixed with other deciduous species. A result of the 1990 Billman fire.</p>																																												
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<b>53</b>	4131 - Aspen, Oak	Poletimber Well	26.9	32	1-50	N/A	<p>Sparse understory consisting of mostly braken fern. 1 legacy size white oak observed just south of trail. Merged stand 50 with 53 to meet mapping standards. Stand 50 previous comments- Stand swapped from Non-Forested to Forested. Oak stump sprouts after several fires. Burned in 1968 and 1990 Billman fires and possibly again. Stand is somewhat sparse in center.</p> <p>Stand 53 old comments- Aspen stand mixed with some Oak and some Jack pine. Some Oak in logs. Stand was established as a result of the 1968/1990 Billman fires. Cycle trail traverses through the stand. East side of stand borders Stephan Bridge Rd.</p>																																											
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<b>54</b>	42220 - Natural Jack Pine	Poletimber Medium	40.0	32	1-50	N/A	<p>Stand goes back and forth between J6 and J4, so I kept it at J5. Understory is mostly grass and sweet fern. Some prairie willow in grassy openings.</p> <p>Natural Jack pine mixed with pockets of Aspen and Oak as well as scattered throughout the stand. Some areas Open as well. Stand established itself after the 1968 and 1990 Billman fires. Stand just reaching into pole size(1 stick trees). Designated cycle trail through stand. Winter 2011/12 lots of tops were broke off in snow storm.</p>																																											
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<b>55</b>	4130 - Aspen	Poletimber Well	42.9	32	1-50	N/A	<p>There's a lower site index in the southeast with sapling size aspen and jack pine. Stand has scattered white oak saw and x-log size trees with fire scars.Old comments- Young Aspen stand mixed with other deciduous species. Created by the 1968 and 1990 Billman fires. Stand has a designated cycle trail through it and an undesignated ATV trail.</p>																																											
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<b>56</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	31.0	95	81-110	N/A	<p>Stand now has legal access with purchase of 40 acre parcel to the east in 2019 and will no longer be subject to disposal. Changed age from even aged and 65 to two aged. White oak is around 95 years old and aspen poles look to be 32 and came up after the 1990 Billman fire</p> <p>Old comments- Stand has been approved for surplus at 2020 Comp Review.</p> <p>Mature Oak stand with pockets of Aspen and Jack pine. No legal access to stand. Std was in the 1968 Billman fire.</p>																																											
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<b>57</b>	4310 - Pine, Oak Mix	Poletimber Well	11.8	32	1-50	N/A	<p>Overall pole size but, stand has sapling sized areas.Old comments- Natural Jack pine std as a result of the 1990 Billman fire. Some Red pine/Jack pine saw and pole timber in the north end of std.</p>																																											
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<b>58</b>	4131 - Aspen, Oak	Poletimber Well	10.7	32	1-50	N/A	Split northern portion of stand into A6 and merged south portion with stand 61. 1990 Billman Fire origin.																																																		
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<b>59</b>	4311 - Pine, Aspen Mix	Poletimber Well	10.7	32	Immature	N/A	Old comments -Natural Jack pine mixed with Aspen and some Oak. Aspen in pockets. Trail traverses through stand in south end. East side of stand borders Stephan Bridge road. Stand established as a result of the 1968/1990 Billman fires.																																																		
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<b>60</b>	4130 - Aspen	Sapling Well	6.7	32	1-50	N/A	Aspen is still sapling size. Braken fern and grass for floor cover.Old comments- Immature Aspen std created as a result of the 1990 Billman fire. Mostly Quaking. South side borders private. Narrow trail traverses through std.																																																		
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<b>61</b>	4124 - Red with White Oak	Sawtimber Poor	125.6	93	1-50	N/A	Most of the trees have heavy fire scars on butt log with visible rot. Mixed upland deciduous sub-canopy.Old comments- Mixed Oak std shelterwood cut in winter 2005 thru 2008 under contract 720480401. FTP C72-698 follow up. Heavy regen of Red maple and Aspen, but also a fair amount of Oak regen too. Mostly stump sprout in origin. Rolling terrain.																																																		
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<b>62</b>	4126 - White, Black, N. Pin Oak	Sapling Well	34.6	15	1-50	N/A	Variable stand that has a 2 age appearance but called even aged for mifi standards. Oak saplings are dog-hair thick in places. Aspen pockets that were protected look to be 1990 Billman Fire origin. Pole size oaks throughout as well. Stand was harvested in 2007 with advanced regeneration protected. Old Jack Oak #72-053-04.  Old comments: New stand added. Oak regen with pockets of Aspen poles. Aspen scattered through out stand.																																																		
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<b>63</b>	110 - Low Intensity Urban	Nonstocked	0.9		Immature	Managed Opening	Public access site. Small graveled parking lot; boat launch; uni-sex toilet; info board and trash can. Includes a small strip of timber.																																																		



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<b>64</b>	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	6.3	100	81-110	N/A	Remote call 2-25-22. Stand is surrounded by private property without access.  Old comment- Fisheries access site. 6 acres																																																								
<b>66</b>	4121 - Oak, Aspen	Sawtimber Well	34.8	32	51-80	N/A	New stand acquired in 2019. Part of Billman Fire in 1990. Pole and sapling size aspen/oak has highest canopy percentage. White and hybrid oak residual saw size trees scattered and in fingers/pockets.																																																								
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<b>101</b>	6112 - Lowland Aspen	Sawtimber Well	7.8	59	51-80	N/A	New multi part stand split from parent stand 1 following harvest. Stand cut winter 2018/2019, PU 2 of Crazy Coyote Cut (#72-059-15). 7.8 acres removed from treatment upon discovery of active eagle's nest. Some excessive rutting occurred in a few of the wetter areas. East portion of stand is maple dominated while east side is aspen dominated. Spring time standing water throughout but wettest in east lobe.  Parent Stand 1 previous comments- Lowland Aspen stand (Quaking) with scattered White and Red pine sawlogs. Also Red maple mixed in as well. Some scattered Balsam fir and White pine in understory.																																																								
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<b>118</b>	4130 - Aspen	Sapling Poor	15.5	2	Immature	N/A	Stand added onto Big Buck Oak 72-036-14 and overstory was removed June 2020. Stand 218 was the portion of stand 118 that was sprayed and then split into new stand during 2024 inventory cycle. Stand 118 failed to meet regen objective for Red with White Oak but, does meet objective for fully stocked aspen (605 aspen/ac and 110 red maple/ac). There is a component of oak that is heavily browsed and less than 6' tall so could not be counted as acceptable regen. Regen under 6' height are as follows; rm=935 tpa, bc=522 tpa, ro=137 tpa, wo=467 tpa, aspen=522 tpa, w ash=27 tpa.  Previous comments- This was previously part of stand 18 to the north, this unit of the timber sale was designated as the strip harvest experiment as prescribed. Strips of oak are currently left, waiting for maple and aspen to sprout for herbicide treatment, treatment under FTP C72-817. West half and narrow connector were sprayed September 18, 2019; harvest can start after two weeks. Parent stand 18 comments- Stand located on north facing slope. Mixed Oak stand with some Red maple mixed in and Aspen mixed in on east side of std along Stephan Bridge road. Heavy White pine understory.																																																								
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218	320 - Upland Shrub	Nonstocked	23.9	0	Unspecified	4199 - Other Mixed Upland Deciduous	<p>Stand added onto Big Buck Oak 72-036-14 and overstory was removed June 2020. Stand 218 was split during 2024 inventory cycle. Stand 218 received herbicide treatment and stand 118 did not. Narrow strip on east side of stand is open grass without any seedlings. West side of stand is mostly red maple with some aspen/oak scattered throughout. All regen counted was under 6' during survey and can not be counted towards acceptable regen. Seedlings as follows; RM=2,502 tpa, B cherry=165 tpa, RO= 137 tpa, WO=330 tpa, BT aspen=220 tpa.</p> <p>Previous comments- This was previously part of stand 18 to the north, this unit of the timber sale was designated as the strip harvest experiment as prescribed. Strips of oak are currently left, waiting for maple and aspen to sprout for herbicide treatment, treatment under FTP C72-817. West half and narrow connector were sprayed September 18, 2019; harvest can start after two weeks.</p> <p>Parent Stand 18 comments- Stand located on north facing slope. Mixed Oak stand with some Red maple mixed in and Aspen mixed in on east side of std along Stephan Bridge road. Heavy White pine understory.</p>
401	629 - Mixed non-forested wetland	Nonstocked	4.1	0		No	Split from stand 1. Non-forested wetland associated with open marsh on private to the north.