



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72258

Entry Year 2021

Acreage: 1,329

County Crawford

Management Area: Camp Grayling

Revision Date: 2019-07-03

Stand Examiner: Scott McClarren

Legal Description:

T27N, R02W, Section 27, 34 and 35 and T26N, R02W, Section 2. Grayling Township.

Identified Planning Goals:

To provide an area that allows for National Guard training while maintaining forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment.

Soil and topography:

The soil types within the compartment consist of Grayling Sands and Graycalm/Grayling Sands with some small pockets of Graycalm Sands and Croswell-Augres Sands. The areas near Connors Flat Road and Barker Creek contain a mixture of Tawas-Lupton Muck. The topography within the compartment consists of gently rolling terrain with some valley and ridge tops. The south end of the compartment is level and gradually slopes to low wet areas near Barker Creek.

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

: The compartment is comprised mostly of state ownership. Lands in section 27, the E1/2 of section 34, and in section 35 are leased to the Michigan National Guard, Department of Military Affairs under L-1479 long term for the purpose of military training. The agreement provides for use by the military during their encampment, with no permanent buildings or improvements to be erected. Military needs take precedence over resource management needs on long-term lease lands. The DNR will coordinate all prescribed activities with the National Guard to ensure they are compatible with military training needs. This compartment is used heavily by the military except for lands located in section 35 and 2. There is a large block (200 acres) of private ownership in section 34 which is used for residential homes. The small blocks of state ownership within the compartment are surrounded by private ownership.

Unique Natural Features:

Evidence of the Stephan Bridge Fire still exists, which burned throughout most of the compartment in 1990, is natural and unique in itself. Rough Fescue, Hill's Thistle and Alleghany plum, rare and endangered or threatened grasses and plants have been found growing within several stands in this compartment. The Kirtland's Warbler, has also been found within stands in this compartment.

Archeological, Historical, and Cultural Features:

None known at this time.

Special Management Designations or Considerations:

The residents along Connor's Flat Road have expressed concern over visual management along the road in the past. This concern needs to be considered when performing management prescriptions. The military and their needs for training in sections 27 and 34 is to be considered in the management of this compartment.

Watershed and Fisheries Considerations:

This compartment is in the Au Sable River watershed, and contains a portion of Barker Creek just upstream of the its confluence with the mainstem Au Sable. Barker Creek is a designated trout stream.

Wildlife Habitat Considerations:

Maintain existing and preferred types for ruffed grouse, white-tailed deer, wild turkey, bear, squirrel and rabbits. Swamps in section 2 are near Connors Flat Marsh and the AuSable River and serve as a deer yard.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits exist in the area, and there is good potential for sand & gravel within the compartment. There is no oil & gas production, current or past, in the area. State mineral rights in the compartment were leased in the recent past by Marathon, but the company has since abandoned its development plans in the state. State mineral rights four miles to the east are currently leased and part of a Prairie du Chien (St. Peter Sandstone) unitized area. Oil & gas potential within the compartment is considered low at this time. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

The compartment is easily accessible from the county roads of North Down River Road, Wakeley Bridge Road, Connors Flat Road and Ketcham Truck Trail. There are several state two tracks in which branch off these roads. During military training, Wakeley Bridge Road, Ketcham Truck Trail and several two tracks that branch off these roads are closed to the public for safety. There are multiple landowners who access their property using state trail roads in Section 34. Currently, we have no legal access to the forty acres contained in section 34. Any newly created roads due to management treatments to stands within this compartment are to be closed upon completion of the treatments.

Survey Needs:

Some of the property corners have not been located in Sec. 02.

Recreational Facilities and Opportunities:

There are no designated recreational facilities or trails within the compartment. However, there is plenty of opportunity for dispersed recreational activities such as hunting, hiking, berry picking, bird watching and other wildlife viewing within this compartment.

Fire Protection:

The compartment contains lots of small dense jack pine, grasses, and dead standing snags that are very susceptible to fire. The road system is adequate to allow fire equipment to access fire prone types. A near by water source is available where Barker Creek flow under Wakeley Bridge Road. The fire protection in the compartment is the responsibility of the Michigan DNR and the Grayling Township Volunteer Fire Department. Stand 15, along North Down River Road, was cut last entry and serves as a fuelbreak.

Additional Compartment Information:

The following reports from the Inventory are attached:

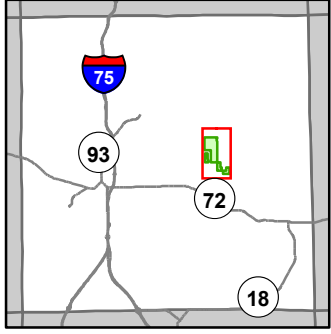
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

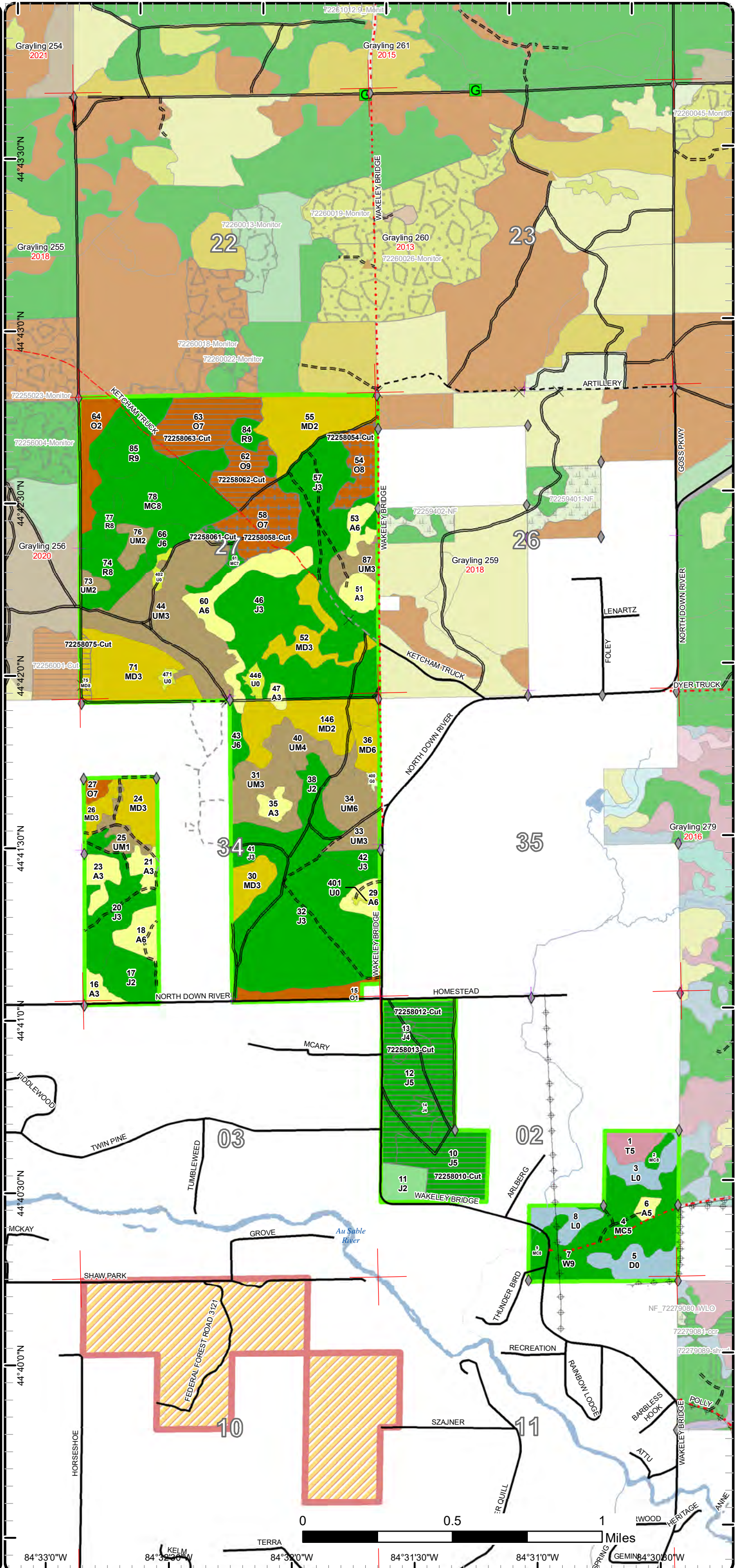
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 258
 T27N, R02W, Sec. 27, 34
 T26N, R02W, Sec. 2
 County: Crawford
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2021
 Acres: 1,329 GIS Calculated
 Examiner: Scott McClarren
 Map Revised: 11/27/2019
 Map Phase: Post-Review

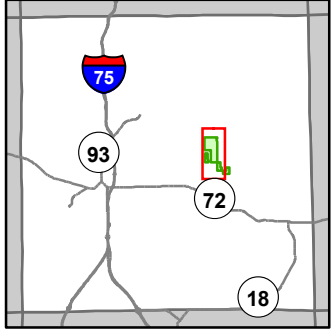


- Miris Corners
- Remonumented Section Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

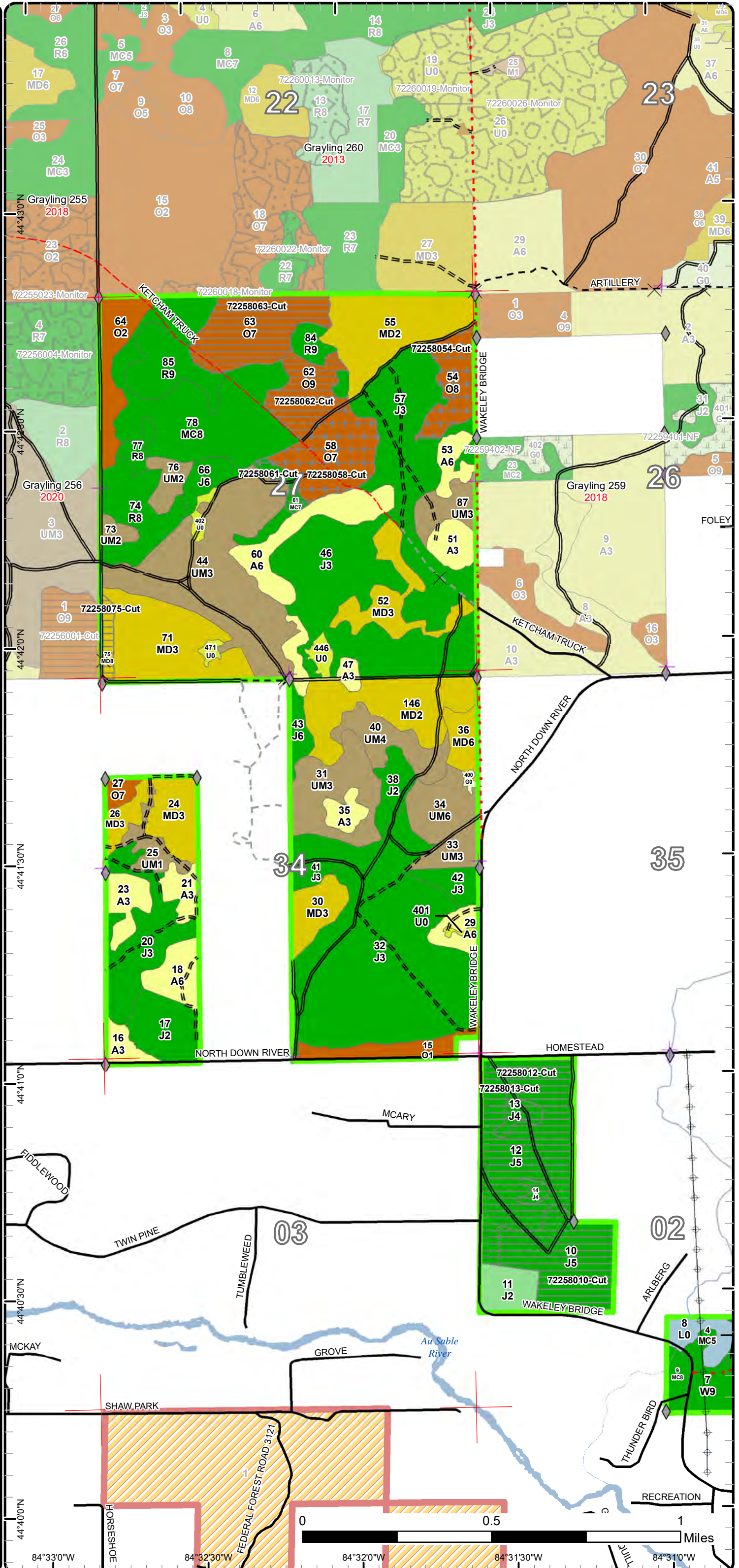


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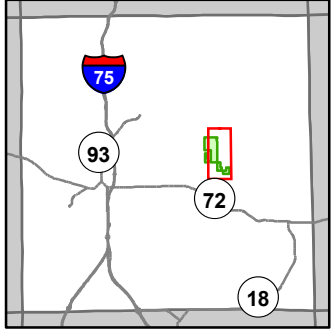


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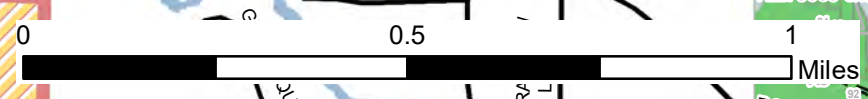
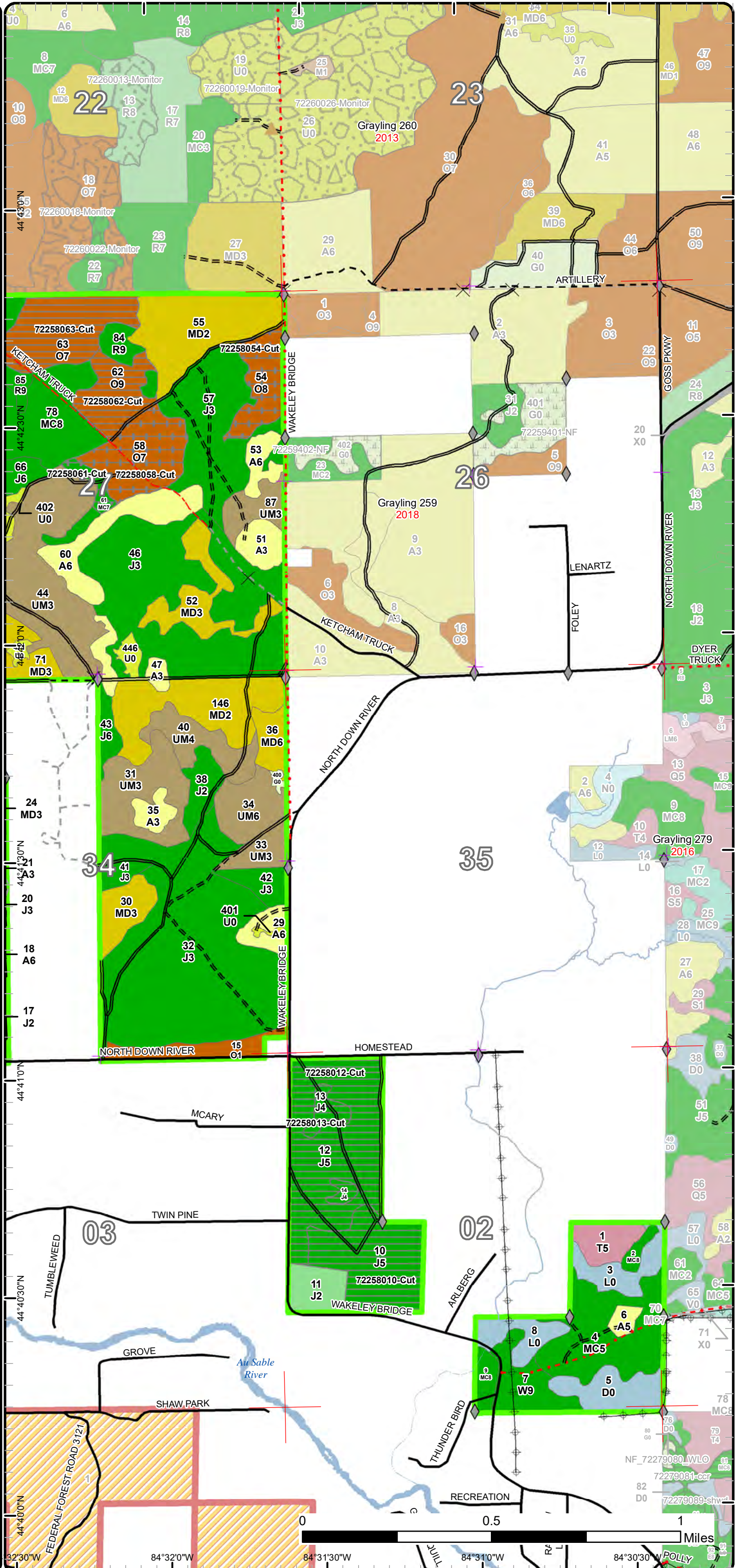


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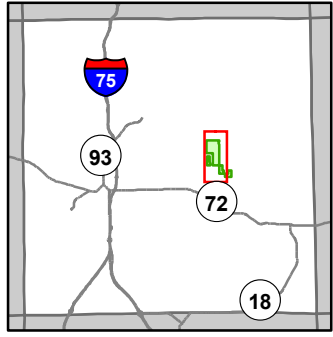
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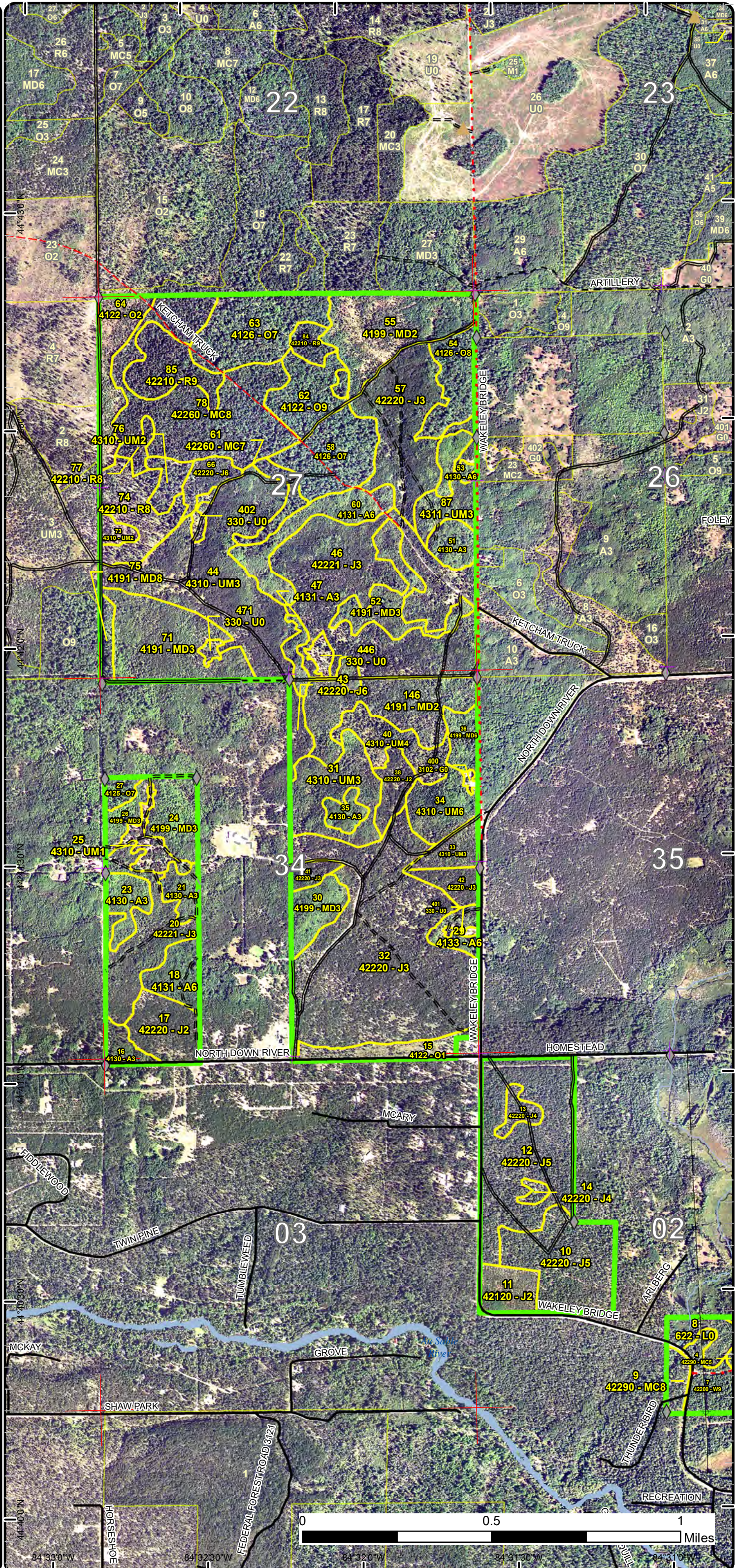
44°43'00"N 84°32'00"W 84°31'30"W 84°30'30"W

Stand Boundary Map

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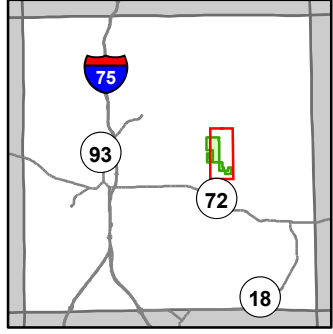
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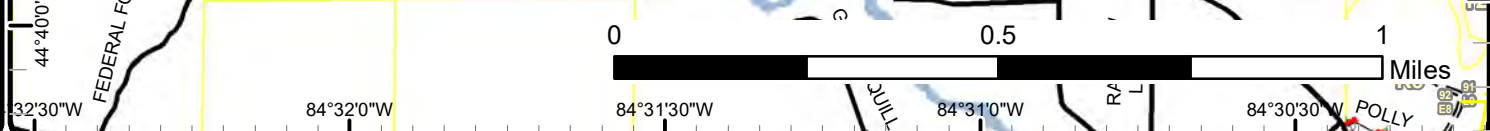
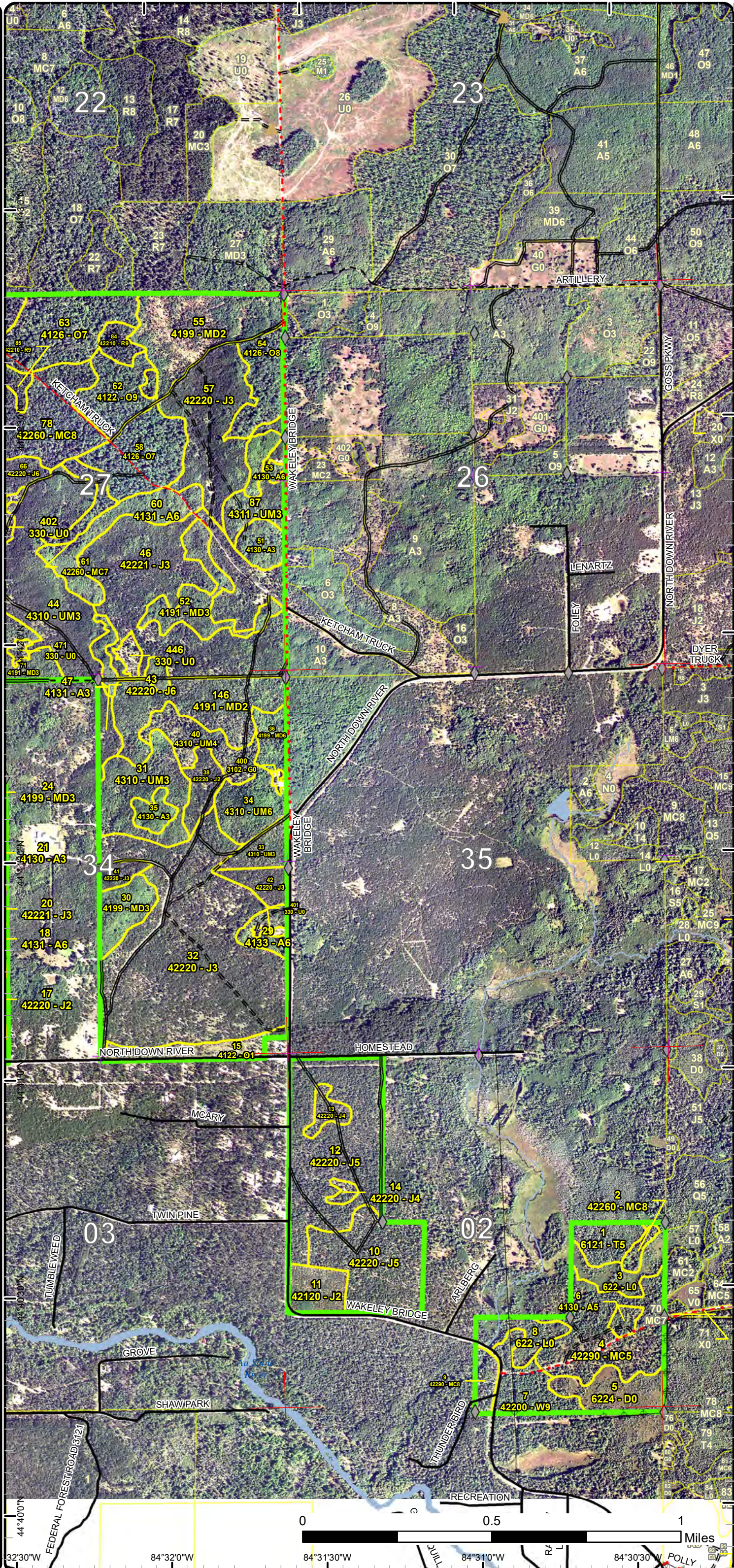
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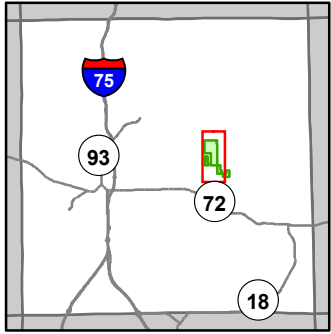


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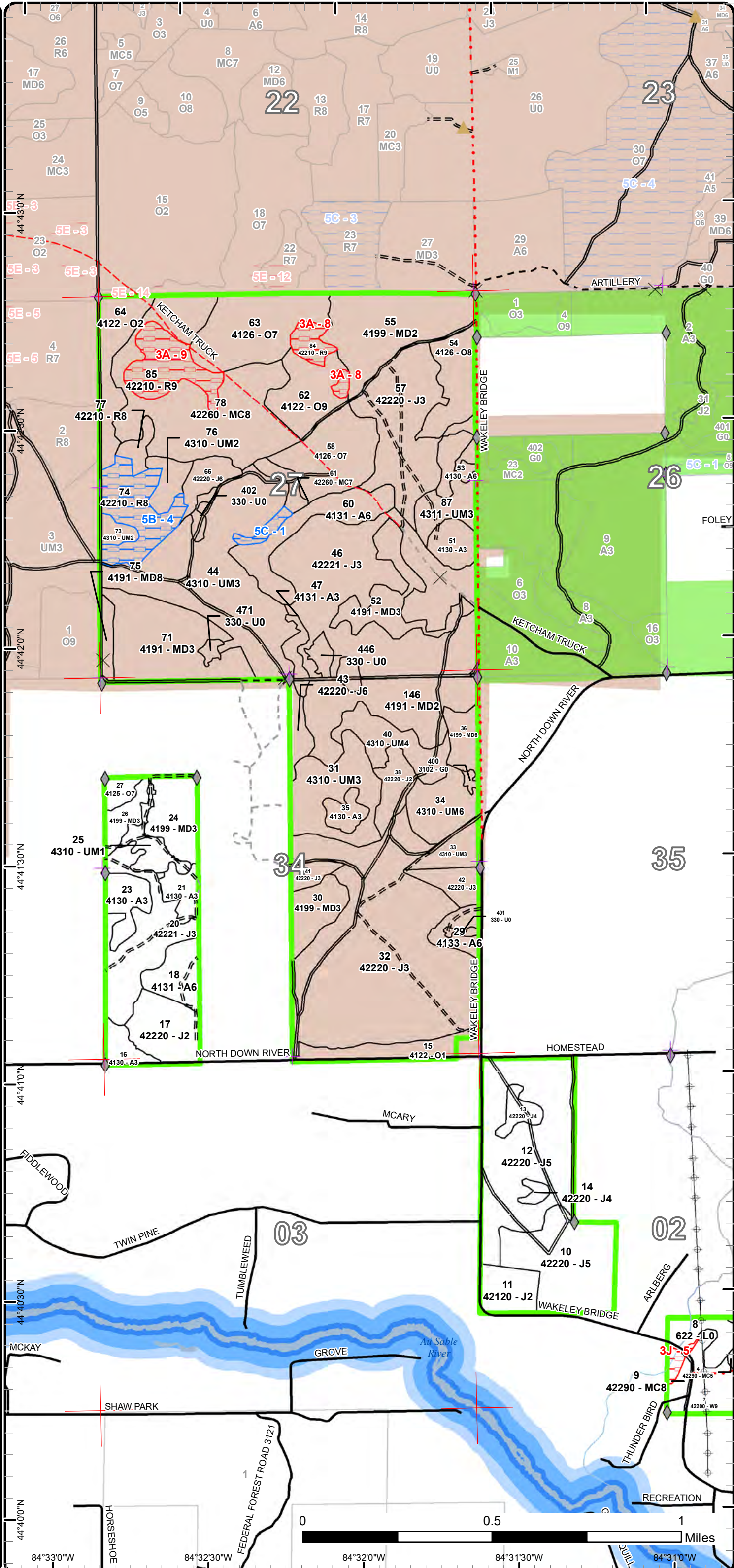


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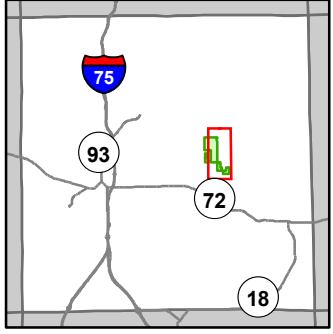


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands

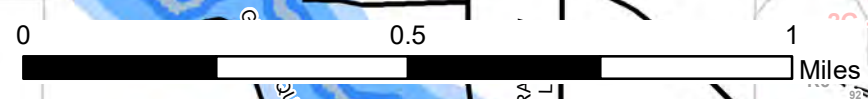
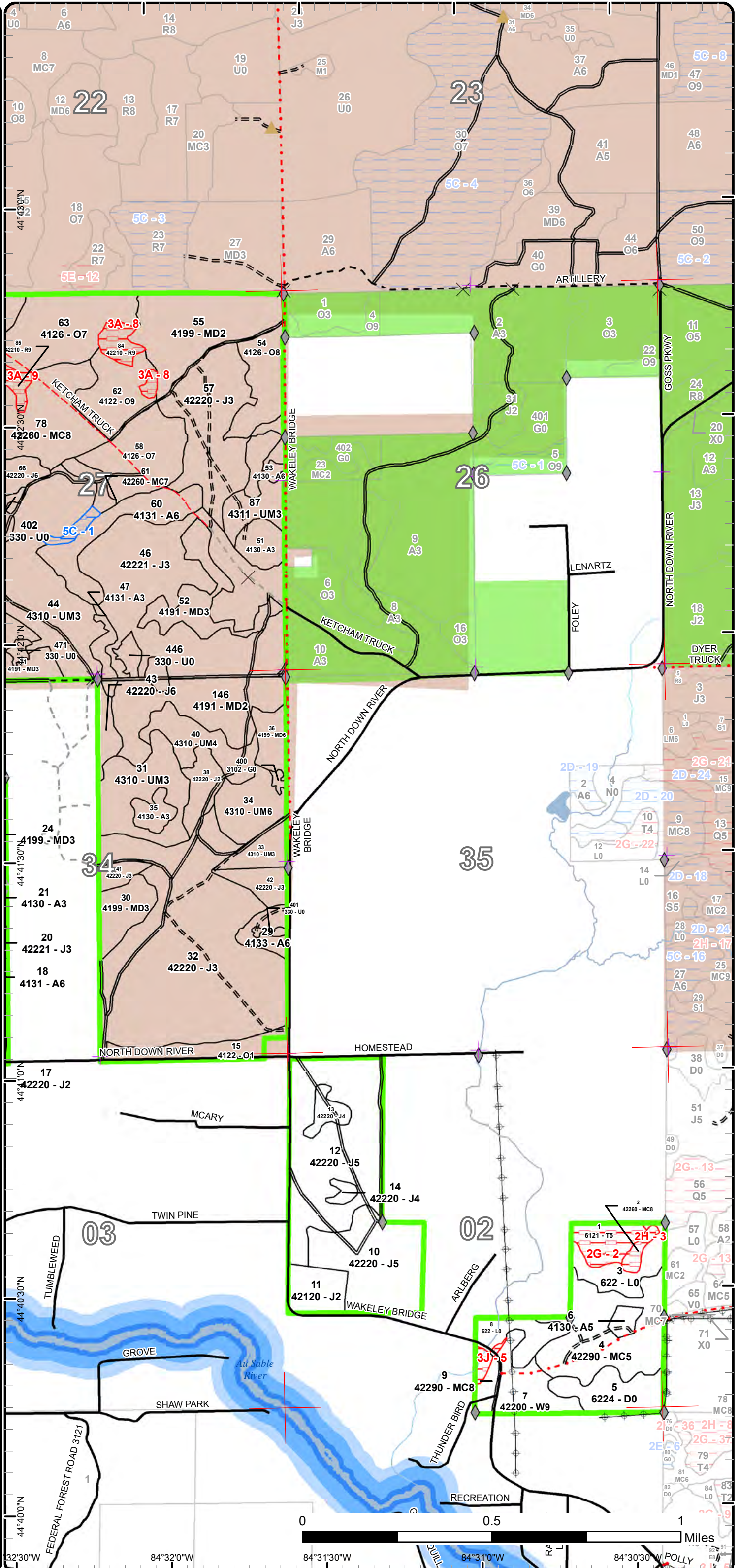


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- ◆ Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands



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Report 1 – Total Acres by Cover Type and Age Class

Grayling Mgt. Unit

Compartment 258 Year of Entry 2021

Scott McClarren : Examiner



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	0	6	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	96
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Jack Pine	0	0	12	351	8	0	46	65	0	0	0	0	0	0	0	0	0	0	482
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Shrub	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Mixed Upland Deciduous	0	0	40	142	0	0	0	0	0	0	0	5	0	0	0	0	0	0	187
Natural Mixed Pines	0	0	0	0	41	0	3	6	67	0	7	0	0	0	0	0	0	0	124
Oak	0	0	32	0	0	0	0	0	0	0	0	97	4	0	0	0	0	0	133
Red Pine	0	0	0	0	0	0	0	0	0	0	55	0	0	0	0	0	0	0	54
Tamarack	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	11
Treed Bog	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Upland Mixed Forest	0	0	4	172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	176
White Pine	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	17
Total	49	0	94	755	49	17	60	71	67	0	62	102	4	0	0	0	0	0	1329



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 258

Total Compartment Acres: 1,329

Commercial Harvest - 218
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	111	0	0	0	0	0	0	0	0	111
Mixed Upland Deciduous	5	0	0	0	0	0	0	0	0	5
Natural Mixed Pines	0	0	0	0	0	5	0	0	0	5
Oak	53	0	0	0	0	45	0	0	0	98
Total	169	0	0	0	0	49	0	0	0	218

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	218	0	0	0	0	0	0	0	0	218
Next Step	0	223	111	0	0	111	441	111	0	998
Total	218	223	111	0	0	111	441	111	0	1216



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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:

10	72258010-Cut	39.2	42220 - Natural Jack Pine	Poletimber Medium	54	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut with retention. Consider focusing island retention around some of the areas with lower site index and stunted pines. Retain legacy pines. Add low stump and chipping specs.

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial
Treatments: Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thi

Acceptable Regen: Goal is to naturally regenerate jack pine and oak. Stand must meet minimum stocking for fully stocked jack pine. A mix of jack pine and oak is expected. If jack pine regen fails to meet minimum stocking, site prep and plant red pine in failed locations (if greater than 20 acres).

Other Comment: Assess jack pine natural regen stocking 1-2 years post harvest. (Add date to Intermediate Monitoring Treatment after sale closure).

Site Condition

Proposed Start Date: 10/1 /2020

12	72258012-Cut	64.8	42220 - Natural Jack Pine	Poletimber Medium	65	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut with retention. Follow standard retention guidelines. Retain legacy pines. Add low stump and chipping specs.

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial
Treatments: Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thi

Acceptable Regen: Goal is to naturally regenerate jack pine and oak. Stand must meet minimum stocking for fully stocked jack pine. A mix of jack pine and oak is expected. If jack pine regen fails to meet minimum stocking, site prep and plant red pine.

Other Comment: Assess jack pine natural regen stocking 1-2 years post harvest. (Add date to Intermediate Monitoring Treatment after sale closure).

Site Condition

Proposed Start Date: 10/1 /2020

13	72258013-Cut	5.1	42220 - Natural Jack Pine	Poletimber Poor	54	1-50	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clearcut without retention due to small size. Add low stump and chipping specs.

Next Step Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant;
Treatments: Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning -

Acceptable Regen: Goal is to naturally regenerate jack pine and oak. This small stand is expected to come back poor to moderately stocked. A mix of jack pine and oak is expected. If jack pine regen fails to meet minimum stocking in surrounding stands, site prep and plant red pine in failed locations.

Other Low density trees, may be good landing location.

Comment: Assess jack pine natural regen stocking 1-2 years post harvest. (Add date to Intermediate Monitoring Treatment after sale closure).

Site Condition

Proposed Start Date: 10/1 /2020



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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
14	72258014-Cut	2.2	42220 - Natural Jack Pine	Poletimber Poor	54	1-50	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut without retention due to small size. Add low stump and chipping specs. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate); SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial <u>Treatments:</u> Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thi <u>Acceptable</u> Goal is to naturally regenerate jack pine and oak. This small stand is expected to come back poor to moderately stocked. A mix of jack pine and oak is expected. If jack pine regen fails to meet minimum stocking in surrounding stands, site prep and plant red pine in failed locations. <u>Regen:</u> <u>Other</u> Low density trees and centrally located, may be a good landing location. <u>Comment:</u> Assess jack pine natural regen stocking 1-2 years post harvest. (Add date to Intermediate Monitoring Treatment after sale closure). <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
54	72258054-Cut	17.3	4126 - White, Black, N. Pin Oak	Sawtimber Medium	101	51-80	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Overstory removal except leave all red pine, white pine, and oaks greater than 20" DBH. Military specs. Oak wilt specs. Protect regen. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Oak is the desired species, but any combination of oak maple, aspen, or pine is acceptable. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
58	72258058-Cut	27.3	4126 - White, Black, N. Pin Oak	Sawtimber Poor	108	1-50	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Overstory removal. Leave all red pine greater than 22" for structural diversity (consider leave tree marking since a lot of the red pine is in the <u>Specs:</u> 18-20" d-class). Leave white oak greater than 20 inches for mast. Add military specs, oak wilt specs, and protect advanced regen. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Oak is the desired species, but any combination of oak maple, aspen, or pine is acceptable. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
61	72258061-Cut	4.5	42260 - Natural Pine, Mixed Deciduous	Sawtimber Poor	91	51-80	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Overstory removal. Harvest north half of stand 61 with stand 58. Do not harvest south finger of stand 61. Leave all red pine greater than 22" <u>Specs:</u> for structural diversity (consider leave tree marking since a lot of the red pine is in the 18-20" d-class). Leave white oak greater than 20 inches for mast. Add military specs, oak wilt specs, and protect advanced regen. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Oak is the desired species, but any combination of oak maple, aspen, or pine is acceptable. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</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
62 72258062-Cut	19.1	4122 - Oak, Pine	Sawtimber Well	108	51-80	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Put retention islands around pockets of white pine regen. Harvest all stems greater than 2" dbh except, leave all red and white pine greater than 22" for structural diversity (consider leave tree marking since a lot of the red pine is in the 18-20" d-class). Leave white oak greater than 20 inches for mast. Add military specs and oak wilt specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak is the desired species, but any combination of oak maple, aspen, or pine is acceptable.</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 /2020</p>										
63 72258063-Cut	33.8	4126 - White, Black, N. Pin Oak	Sawtimber Poor	108	51-80	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Put retention islands around pockets of white pine regen. Harvest all stems greater than 2" dbh except, leave all red and white pine greater than 22" for structural diversity (consider leave tree marking since a lot of the red pine is in the 18-20" d-class). Leave white oak greater than 20 inches for mast. Add military specs and oak wilt specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak is the desired species, but any combination of oak maple, aspen, or pine is acceptable.</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 /2020</p>										
75 72258075-Cut	5.1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	103	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut without retention due to size. Harvest all stems greater than 2" DBH. Protect legacy trees and white pine regen. Harvest with stand 1 of compartment 256.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of maple, oak, aspen or pine is acceptable.</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 /2019</p>										

Total Treatment 218.4
Acres Proposed:

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 258
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5B	5C	2G	2H	3A	3J	
96	96	0	0	Aspen		0					
1	1	0	0	Herbaceous Openland							
482	482	0	0	Jack Pine							
8	8	0	0	Low-Density Trees							
24	24	0	0	Lowland Shrub							
186	186	0	0	Mixed Upland Deciduous							
124	116	3	5	Natural Mixed Pines		3		3		2	
133	133	0	0	Oak							
54	4	23	26	Red Pine	23				26		
11	0	0	11	Tamarack			11				
16	16	0	0	Treed Bog							
177	177	0	0	Upland Mixed Forest							
17	16	0	0	White Pine						0	
1,329	1,260	26	43	Total Forested Acres	23	3	11	3	26	3	
	95%	2%	3%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Proposed long-term retention for stands 61 and 58.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit

Scott McClarren : Examiner

Compartment: 258

Year of Entry: 2021

3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5B: Maintain for regeneration purposes	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3A: Conservation Values incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stands were visited in 2019 by Forest Inventory and Planning Specialist and the Timber Management Specialist. It was determined that harvesting stands at this time would not be appropriate. Healthy and mature natural red pine stands are somewhat rare in the area and harvesting would likely convert stand to oak or mixed upland deciduous at this time.							
9	Unavailable	3A: Conservation Values incompatible with harvest at this time	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stands were visited in 2019 by Forest Inventory and Planning Specialist and the Timber Management Specialist. It was determined that harvesting stands at this time would not be appropriate. Healthy and mature natural red pine stands are somewhat rare in the area and harvesting would likely convert stand to oak or mixed upland deciduous at this time.							

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	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
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. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
1	6121 - Tamarack	Poletimber Medium	10.6	56	81-110	N/A	Tamarack stand with dense alder through understory. Hummaky ground. Cattails also seen.Old comment- (OPIC - FMD: 2009 Lowland Swamp Conifer stand located north of Connors Flat Road and is leased by the military. The stand consists of lowland conifers (10 - 30 BA of Spruce and Balsam Fir).)																											
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2	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	3.0	56	51-80	N/A	Mixed upland pine with some hardwoods on a small ridge surrounded by lowlands. More red pine in the north with ba 110-140. A few older red pine in the 20" d-class. South half of stand more open hardwoods. Old comments- (OPIC - FMD: 2009: LOWLAND JACK PINE STAND FOUND NORTH OF CONNORS FLAT ROAD. ACCESSIBILITY FOR HARVESTING IS A PROBLEM.)																											
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3	622 - Lowland Shrub	Nonstocked	12.4			No	Changed from bog to low shrub. Old comments- (OPIC - FMD: 2009: BOG/ MUSKEG. CONSISTS OF TAG ALDER AND SHRUBBRY. EDGES SURROUNDED BY A STRIP OF SPRUCE/BALSAM FIR.)																											
4	42290 - Natural Mixed Pine	Poletimber Medium	40.8	35	51-80	N/A	Harvested in 1991 part of Jack Pine Bog Blk timber sale (015-91). Stand is very diverse and feels like it could be split into 5 or 10 smaller stands. Hummocky ground in places with uplands in others. Small open boggy area found towards the north side of stand. Wet drainages and tag alder patches scattered through stand as well. Stand goes back and forth between lowland conifer and upland jack pine/white pine depending on where you are in stand. Pockets of 4-5" aspen in the north. Stand borders a tag alder swamp to the north with spruce/tamarack/fir along the edge. A treed bog makes up the south boundary. Reproduction was protected during harvest in 1991, so there are some white pine, fir, and spruce that were released from the timber harvest that are 40-50 years old and there are aspen and jack pine that are 28 years old (I split the difference and called stand 35 years old). Looks like a buffer may have been left along the southern bog. Parts of stand are open (0-25% canopy cover). No sub-canopy to speak of.Old Comment- (OPIC - FMD: 1999: STAND IS DISECTED BY CONNORS FLAT ROAD.)																											
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5	6224 - Treed Bog	Nonstocked	16.4			No	Leatherleaf an hummaks through most of bog. A couple islands of jack pine/white pine. Spruce, tamarack, and fir saps/poles scattered at low densities through stand.Old comments- (OPIC - FMD: 2009: BOG/MUSKEG. EDGE SURROUNDED BY A STRIP OF SPRUCE AND BALSAM FIR.)																											
6	4130 - Aspen	Poletimber Medium	3.2	28	51-80	N/A	Harvested in 1991 part of Jack Pine Bog Blk timber sale (015-91). East side of stand is low alder with some spruce/fir/pine. Jack pine through the middle of stand.Old Comment- (OPIC - FMD: 2009 Small pocket of Aspen along Connors Flat Road.)																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
7	42200 - Natural White Pine	Sawtimber Well	16.7	46	81-110	N/A	Stand was harvested in 1991. Stand consists of the white pine understory that was released with the harvest. Stand looks like it just got into log size. Crown ratio looks good, trees still have room to grow. White pine still has a lot of lower limbs. White pine QMD is actually 9. Part of the northern portion falls within Barker Creek RMZ. A few spruce and tamarack along the edge of the alder swamp in the north. Utility corridor splits stand. Stand is adjacent to a treed bog in the southeast. Old Comments- (OPIC - FMD: 2009: SMALL STAND OF Natural WHITE PINE. STAND ALSO BORDERS CONNORS FLAT ROAD AND WAKELEY BRIDGE ROAD.)																													
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8	622 - Lowland Shrub	Nonstocked	11.3			No	Barker creek and associated wetland. Doesn't look like a bog, more of a tag alder swamp (Lowland shrub). Some aspen, fir, tamarack, and white pine along the edges and scattered throughout. Old comment- (OPIC - FMD: 2009: BOG/MUSKEG.)																													
9	42290 - Natural Mixed Pine	Sawtimber Medium	5.9	64	81-110	N/A	Difficult to nail down an age, Oi had it as 107 years old.. Stand appears to be 2 aged or more. Red pine and white pine greater than 20" was around 140 yo. Smaller white pine 10-12" and red pine 16" was 64. Pocket of youger white pine poles 6-8" in north side of stand. Legacy white and red pine in stand. Large snags present as well. Balsam fir and white pine saplings are especially dense along Barker Creek. Only erosion risk would be within RMZ (see old comments). Most of the oak and jack pine are dead or dieing. Old comments- (OPIC - FMD: 1999: STAND BORDERS WAKELEY BRIGE ROAD ON EAST SIDE AND BARKER CREEK ON THE WEST SIDE. WHITE PINE UNDERSTORY HAS A DISEASE OR INSECT PROBLEM. VISUAL MANAGEMENT AND EROSION IS A CONCERN IF AND WHEN STAND IS HARVESTED.)																													
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10	42220 - Natural Jack Pine	Poletimber Medium	39.2	54	51-80	N/A	Cutting records indicate removal of jack pine containing three sticks or more in 1984. Jack pine containing two or less sticks were left. Legacy pines found in stand. Very similar to stand 12, but with more open areas. Some parts of stand are smaller pulp size with very little volume. Small pockets of immature jack and white pine in places. North east corner of stand is red and white pine dominated. South half of stand has less red pine. Old Comments- (OPIC - FMD: 1999: SOMEWHAT SPARSE JACK PINE STAND IN THE PROCESS OF REGENERATING NATURALLY. SCATTERED OLDER TREES. NEW SITE INDEX WAS TAKEN ON ONE OF THESE OLDER TREES. OLD SITE INDEX IS PROBABLY A BETTER INDICATOR OF THE SITE AND AGE OF THE STAND. OLD SITE INDEX WAS 52 AND A STAND AS OF 1974. (JULY 10, 2001: CHANGES WERE MADE IN THIS STAND BASED ON FURTHER FIELD EXAMINATION. THIS STAND SHOULD BE TYPED AS (J3): J3 O1 J4 R4. Good vigorous well stocked jack pine and oak regeneration in this stand has resulted from a timber sale in 1982. No further treatment needs to occur at this time. Both Wildlife Division and FMFM Division concur with the changes. Refer to a copy of the notes in the Compartment file. Mark Monte, 07/10/2001.)																													
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11	42120 - Planted Jack Pine	Sapling Medium	11.9	15	Immature	N/A	Jack pine looks healthy (mostly 10-15' tall). Should fill into 75-100% canopy closure next yoe. Very tight spacing in some parts.Old comments- (OPIC - FMD: 2009: Immature Jack Pine plantation. Planted in summer of 2004. Small pocket of A3 in the southwest corner. Stand borders Wakely Bridge Road.(1999: RECOMMEND FINAL HARVEST AND REPLANT SITE TO JACK PINE.Old comment). Part of timber sale # 72-051-01-0, School House Jack Pine. Cut by Chris Muma during the fall of 2003. This stand will need to be replanted to jack pine. There was no planting season during the fall of 2003. mm 10/13/2003 Stand was trenched and planted to Jack Pine in accordance to FTP C72-477 in 7/2004.)																														
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12	42220 - Natural Jack Pine	Poletimber Medium	64.8	65	81-110	N/A	Age of stand was difficult to establish after last harvest. Jp pulp was 54 years old and jp saw weve upwards of 75 years old. Red pine saw trees are ditributed pretty evenly through stand (usually 10-20ba of red pine), but a little heavier on the west side. Some of the red pine is 70-90 years old, with scattered ones getting 18-20". Not much of a sub canopy. Pocket of white pine mixed with jack getting pole size in south east corner of stand. Cutting records indicate removal of jack pine containing three sticks or more in 1984. Jack pine containing two or less sticks were left. Jack pine and red pine are growing pretty good on site. Old Comment- (OPIC - FMD: 1999: HOLD STAND ANOTHER 10 YEARS AND THAN FINAL HARVEST. PRIVATE TO THE EAST AND WAKELEY BRIDGE ROAD TO THE WEST.)																														
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13	42220 - Natural Jack Pine	Poletimber Poor	5.1	54	1-50	N/A	Stand is similar to 14. Open with grass and blueberry. Cutting records indicate removal of jack pine containing three sticks or more in 1984. Jack pine containing two or less sticks were left. Old Comment- (OPIC - FMD: 1999: SEMI OPEN AREA OF JACK PINE SURROUND BY J6.)																														
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14	42220 - Natural Jack Pine	Poletimber Poor	2.2	54	1-50	N/A	Stand is very similar to 13,but with a small component of white pine. Grassy understory with blueberries. Cutting records indicate removal of jack pine containing three sticks or more in 1984. Jack pine containing two or less sticks were left. Old Comment- (OPIC - FMD: 1999: SEMI-OPEN JACK PINE SURROUNDED BY J6.)																														
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15	4122 - Oak, Pine	Sapling Poor	12.8	16	1-50	N/A	Scattered pole and saw sized oaks left from harvest. Oak and jack pine saplings are patchy in areas. Could call it 2 aged, but the mature timber does not take up enough canopy position to have its own age class. Old Comments- (OPIC - FMD: (2009: STAND FOUND BORDERING NORTH DOWN RIVER ROAD AND IS A NARROW STRIP ON THE NORTH SIDE OF THE ROAD. USE AS A FIRE BREAK, DO NOT REPLANT. FINAL HARVESTED LAST ENTRY YEAR BUT ALL THE OAK WAS LEFT. USE KW SEASONAL RESTRICTIONS. Old comment.) Part of timber sale 72-051-01-01 School House Jack Pine. Cut by Chris Muma during the fall of 2003. The oak was not cut in this stand. Residual oak is probably less than 10 square feet of basal area. Per the compartment review this area will not be planted back. The area will regenerate naturally as it is considered a hazardous fuel break. mm 10/13/2003. The area just west of the small private property (the old red school house) has a lot of junk on it. The location and description of the junk has been forwarded to Ada Takacs, Adopt-a-Forest, to be scheduled to be cleaned up. 11/02/2004 mm)																																			
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16	4130 - Aspen	Sapling Well	6.1	16	1-50	N/A	Some larger pole sized aspen in southeast. Fir and white pine through understory. Old comments- (OPIC - FMD: 2009: Small immature Aspen stand with scattered Red and White Pine in the overstory. Stand was final harvested in the fall of 2003 with the exception of Red and White Pine. Left for visual management. Stand is regenerating to Aspen naturally. South side of stand borders North Down River Road and the west side borders Killeen Road (Private 911 Road) and private property. Private road is being maintained seasonally across state land. (1999: STAND FOUND ALONG NORTH DOWN RIVER ROAD AND PRIVATE PROPERTY ON THE WEST SIDE OF STAND. RECOMMEND FINAL HARVEST, REMOVING ALL SPECIES EXCEPT RED PINE. LEAVE RED PINE FOR VISUAL MANAGEMENT. STAND HAS FIRE SCARS FROM STEPHAN BRIDGE FIRE IN 1990. Old comment.) The stand was part of timber sale # 72-051-01-01, School House Jack Pine. This was cut by Chris Muma during the fall of 2003. This stand will regenerate naturally to aspen. Mm 10/13/2003)																																			
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17	42220 - Natural Jack Pine	Sapling Medium	18.3	29	Immature	N/A	More open jack pine on the west side of stand. Some jack pine getting pole size, but still immature overall. Old comment- (OPIC - FMD: 2009: STAND IS REGENERATING NATURALLY AFTER STEPHAN BRIDGE FIRE IN 1990.)																																			
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18	4131 - Aspen, Oak	Poletimber Well	12.1	29	1-50	N/A	Oak dominates the west transition between aspen interior and jack pine in stand 20. Good mix of aspen and oak through stand. Large crowned oaks not killed by Stephan Fire providing mast and are super-canopy. Oak dominates in patches. Old comments- (OPIC - FMD: 2009: STAND REGENERATING NATURALLY AFTER STEPHAN BRIDGE FIRE. STAND CONSISTS OF OAK, JACK PINE AND ASPEN SEEDLINGS AND IS FULLY STOCKED. STAND ALSO HAS LOTS OF STANDING DEAD RED PINE AND OAK SNAGS.)																																			
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20	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	30.7	29	Immature	N/A	Jack pine with pockets of aspen. Oak scattered through most of stand. JP getting pole sized in some of the less dense areas. Heavier oak \ aspen in north finger. A few super-canopy red pine found from parent stand.Old comments- (OPIC - FMD: 2009: STEPHAN BRIDGE FIRE 1990 - SALVAGED IN 1991 STAND CONSISTS OF JACK PINE, ASPEN AND OAK. Used old site index.)																																																						
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21	4130 - Aspen	Sapling Well	7.0	29	Immature	N/A	Low quality quaking aspen through most of stand except for a pocket of healthier big-tooth aspen in north west corner.Old comments- (OPIC - FMD: 1999: STAND INVOLVED IN THE STEPHAN BRIDGE FIRE OF 1990. NATURALLY REGENERATING TO AN ASPEN STAND. Tree not big enough- USED OLD SITE INDEX.)																																																						
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23	4130 - Aspen	Sapling Well	9.7	29	Immature	N/A	Some aspen is just getting into pole size, but most is around 4" now. should be A6 next yoe. Jack pine uns up the north east corner.Old comments- (OPIC - FMD: 2009: STAND PART OF THE STEPHAN BRIDGE FIRE. STAND NATURALLY REGENERATING TO mixed hardwoods. Red Maple, Aspen and some Oak. Stand 22 of previos inventoy is now part of this stand. Used old site index.)																																																						
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24	4199 - Other Mixed Upland Deciduous	Sapling Well	16.4	28	Immature	N/A	Patchy species composition. Center of stand is sapling size and maple dominated with oak. West side is oak saplings. Jack pine in the drainage towards the north east corner. South side of stand contains aspen pole timber.old comment- (OPIC - FMD: 2009: SALVAGE CUT IN 1991- STEPHAN BRIDGE FIRE Used old site index.)																																																						
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25	4310 - Pine, Oak Mix	Sapling Poor	8.5	29	Immature	N/A	Stand has filled into a forested stand. Quite a few trees getting pole size, but overall still immature. Pockets of jack pine and oak scattered through the open areas.Old Comments- ((OPIC - FMD: 2009: STAND WAS PART OF THE STEPHAN BRIDGE FIRE - GRASSY OPEN AREAS BIRDHOUSES SCATTERED THROUGHOUT THE AREA.))																																																						
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26	4199 - Other Mixed Upland Deciduous	Sapling Well	6.7	29	Immature	N/A	Salvage cut after Stephan Bridge fire. Maple are mostly stump sprouted and most oaks look like the seeded naturally. Small component of white pine and heavily browsed white oak in sub-canopy. Aspen mixed in, but mostly along edges of stand. A couple legacy white pine found.Old comment- (OPIC - FMD: 1999: STAND PART OF STEPHAN BRIDGE FIRE. USED OLD SITE INDEX. Trees not big enough for si)																																																						
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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 Poor	4.1	117	1-50	N/A	Second age clas initiated after Stephan Bridge Fire. Stand is converting to maple for the most part. Heavy white pine in the understory on the south side of stand. White and hybrid oak scattered through stand but a little heavier on the north side. Most of the oak is starting to get some die-back in the crowns and epicormic branching. Large fire scars on all the tree boles. Old comment- (OPIC - FMD: 2009: STAND WAS PART OF THE STEPHAN BRIGE FIRE. SCATTERED MATURE OAK WITH AN HEAVY UNDERSTORY OF OAK, ASPEN AND RED MAPLE UNDERSTORY. STAND CONTINUES INTO PRIVATE PROPERTY AND IS VISABLE FROM A COUPLE OF HOUSES.)																																			
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29	4133 - Aspen, Mixed Pine	Poletimber Well	7.1	29	1-50	N/A	Aspen stand contains scattered wolffy 20"+ white pines that have seeded a solid understory of white pine beneath the aspen pole class . Some scattered 8-12" jack pine, red pine, and aspen throughout as well. Old comments- (OPIC - FMD: 1999: STAND WAS PART OF THE STEPHAN BRIDGE FIRE. FOUND ON AN OLD BORROW PIT SITE. STAND HAS AN OVERSTORY OF PINE AND ASPEN. UNDERSTORY IS THE MANAGEMENT OBJECTIVE WHICH CONSISTS OF AN A3. ALSO STAND PLAYS A ROLE IN VISUAL MANAGEMENT.)																																			
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30	4199 - Other Mixed Upland Deciduous	Sapling Well	12.5	29	Immature	N/A	Oak/aspen with super-canopy red/white pine. Ridge with a pretty steep east facing slope (still operable). Stand was typed as A3, but it looks to be heavier on the oak side now. Old comments- (OPIC - FMD: 2009: STAND WAS PART OF STEPHAN BRIDGE FIRE IN 1990. LAND IS LEASED BY THE MILITARY. USED OLD SITE INDEX,)																																			
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31	4310 - Pine, Oak Mix	Sapling Well	27.6	29	Immature	N/A	Stand has patchy planted red pine through north half and appears to have been planted around 1991 after Stephan Bridge Fire however, I was unable to find any planting record for this area. Oak and jack pine competition as well as snow on the ground during inventory made it difficult to locate furrows to see actual planted area. A few of the red pine patches contain obvious rows with 6"-7" red pine and BA around 100. Other parts of stand are jack pine/oak mixtures and don't appear to have been planted. Small pocket of red maple in the northern finger. Old Comment- (OPIC - FMD: 1999: STAND WAS PART OF THE STEPHAN BRIDGE FIRE. USED OLD SITE INDEX MILITARY LEASED LANDS.)																																			
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32	42220 - Natural Jack Pine	Sapling Well	132.6	29	Immature	N/A	Vortex strip in south east part of stand has some larger jack pine and a few saw size oaks. Used to be its own stand, but I merged it with stand 32 due to its small size. South side of stand as well as a patch towards the north are more open than the rest of stand and have canopy closure around 25-50%. More pole size trees in the openings. Most parts of stand are 100% canopy closure. Old comments- (OPIC - FMD: 2009: STAND SALVAGE IN 1991 AFTER THE STEPAN BRIDGE FIRE OF 1990. NATURALLY REGENERATED JACK PINE WITH SOME ASPEN AND OAK POCKETS THROUGHOUT THE STAND.)																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
33	4310 - Pine, Oak Mix	Sapling Well	9.1	29	Immature	N/A	Looks like red pine was planted in north part of stand, but was out competed by oak. There are some scattered red pine that made it into dominant canopy position, but most are over-topped and 0-5' tall. Some jack pine and oak getting into pole size class. Old comments- (OPIC - FMD: 2009: STAND WAS PART OF THE STEPHAN BRIDGE FIRE IN 1990. MILITARY LEASED LAND.)
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		45	Sapling/Pole	4			
Black/Red (Hybrid) Oak		50	Sapling/Pole	3	29		
34	4310 - Pine, Oak Mix	Poletimber Well	16.6	28	51-80	N/A	East 1/3 of stand is dominated by oak and planted red pine is lost or extremely suppressed. The west and south sides of stand have a mixture of competing red pine and oak. The middle of the stand has some good rows of red pine with diameters ranging from 5-8" and BA around 100. Old comments- (OPIC - FMD: 2009: STAND WAS PART OF THE STEPHAN BRIDGE FIRE IN 1990. PLANT TO RED PINE IN 1991. Oak/ Jack pine saplings over topping the Red pine in areas. Especially along Wakley Bridge Rd.)
Canopy Species		% Cover	Size Class	DBH	Age		
White Oak		40	Sapling	3			
Red Pine		45	Pole/Sapling	5	28		
Black/Red (Hybrid) Oak		7	Sapling/Pole	4			
35	4130 - Aspen	Sapling Well	5.5	29	Immature	N/A	Nice A3 stand, should be A6 next entry. Has a couple pockets of oak/jack pine mixed in with stand. Old Comment- (OPIC - FMD: 1999: STAND WAS SALVAGED IN 1991 AFTER THE STEPHAN BRIDGE FIRE IN 1990. MILITARY LEASED LANDS.)
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		72	Sapling/Pole	4	29		
Black/Red (Hybrid) Oak		15	Sapling/Pole	4			
36	4199 - Other Mixed Upland Deciduous	Poletimber Well	8.4	29	1-50	N/A	Patchy species composition through stand. Aspen is mostly pole sized. Pockets of dense immature red maple and oak. Basal area varies depending whether your standing in an aspen pocket or in immature oak or maple. Old Comments- (OPIC - FMD: 2009: STAND SALVAGE IN 1991- STAND WAS PART OF THE STEPHAN BRIDGE FIRE. Stand borders Wakley Bridge Rd. Immature Aspen mixed with Oak, Jack pine and some Red pine)
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		35	Pole/Sapling	5	29		
Red Maple		27	Sapling	2			
Black/Red (Hybrid) Oak		20	Sapling/Pole	4			
Red Pine		10	Pole/Log	8			
38	42220 - Natural Jack Pine	Sapling Medium	9.5	29	Immature	N/A	J3 in most parts of stand, but has decent size opening in the middle. Road that goes through stand is impassable by vehicle. Old Comment- (OPIC - FMD: 1999: STAND WAS PART OF THE STEPHAN BRIDGE FIRE. MILITARY LEASED LAND.)
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		95	Sapling/Pole	4	29		
40	4310 - Pine, Oak Mix	Poletimber Poor	16.9	29	1-50	N/A	East and west sides of stand are very open and barren-like. Sweet fern is high coverage through the openings and prairie willow are numerous. Shrubby defected red pine, oak, cherry and jack pine in the openings. Middle of stand is similar to stand 146. Old comments- (OPIC - FMD: 1999: STAND WAS PART OF THE STEPHAN BRIDGE FIRE. USED OLD SITE INDEX MILITARY LEASED LANDS.)
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		39	Pole/Sapling	5			
Black/Red (Hybrid) Oak		50	Pole/Sapling	5	29		
Sub-Canopy Species		Density	Avg. Height	Size			
Prairie Willow		Low	5 - 10 feet	Tall Shrub			
41	42220 - Natural Jack Pine	Sapling Well	4.5	28	Immature	N/A	Smsll J3 stand on a north facing slope with a couple of steep pitches. Old comments- (OPIC - FMD: 1999: STAND WAS PART OF THE STEPHAN BRIDGE FIRE. USED OLD SITE INDEX. MILITARY LEASED LAND.)
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		93	Sapling	4	28		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
42	42220 - Natural Jack Pine	Sapling Well	7.6	29	Immature	N/A	Stand is close to having enough 5" jack pine to call it pole size (still a lot of 3-4" trees). Very similar to other jack pine stands in compartment.Old Comments- (OPIC - FMD: 1999: STAND WAS PART OF THE STEPHAN BRIDGE FIRE IN 1990. USED OLD SITE INDEX. MILITARY LEASED LANDS.)	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		95	Sapling/Pole	4	29			
43	42220 - Natural Jack Pine	Poletimber Well	6.2	29	1-50	N/A	Looks like natural jack pine in most places, but there are some areas where it almost appears planted. West side against private. Small opening with limby jack pine towards middle of stand where it's more open. Old Comment- (OPIC - FMD: 1999: STAND WAS PART OF THE STEPHAN BRIDGE FIRE. USED OLD SITE INDEX. MILITARY LEASED LANDS.)	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		90	Pole/Sapling	5	29			
Black/Red (Hybrid) Oak		10	Sapling	3				
44	4310 - Pine, Oak Mix	Sapling Well	76.4	29	Immature	N/A	Stand is starting to get pole sized in areas, but overall is still immature. Small 1-3 acre aspen stands harvested same time as 44 that did not meet minimum mapping standards were merged into stand 44. Stand 69 merged with 44 due to similar jack pine cover type. Ketchum truck trail fire burned through part of the west lobe of stand 44 in 2-4" jp and oak in July of 2018. Red pine that survived Stephan Bridge Fire in 1990 act as super-canopy trees scattered through stand. Stand varies in covertime depending where you are. Pockets of aspen are present in stand and oak dominates over jack pine in certain areas. Heavy maple and oak under the "heel" of stand 60.Old Comment- (OPIC - FMD: 2009: STAND WAS PART OF THE STEPHAN BRIDGE FIRE. USED OLD SITE INDEX. MILITARY LEASED LANDS)	
Canopy Species		% Cover	Size Class	DBH	Age			
Black/Red (Hybrid) Oak		30	Sapling	4				
Jack Pine		56	Sapling/Pole	4	29			
Bigtooth Aspen		6	Pole	6				
46	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	94.8	29	Immature	N/A	Jack pine through most of stand with patches of oak dominated and aspen dominated pockets. Merged stand 50 with 46 due to similar species composition. Split 146 from 46 because 146 is oak dominated. Some sparser open grown jack pine in the southwest corner of stand has a barrens like appearance or possibly a frost pocket. Old Comment- (OPIC - FMD: 1999: STAND WAS PART OF THE STEPHAN BRIDGE FIRE.)	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		68	Sapling/Pole	4	29			
Black/Red (Hybrid) Oak		20	Sapling	3				
Bigtooth Aspen		7	Sapling	3				
Sub-Canopy Species		Density	Avg. Height	Size				
Black/Red (Hybrid) Oak		Medium	Variable	Sapling				
White Oak		Low	Variable	Sapling				
47	4131 - Aspen, Oak	Sapling Well	7.9	29	Immature	N/A	Quaking aspen and oak mix in south and east part of stand. Pole size bigtooth aspen north west side. Scattered log and x-log size red pine in and around edges in north west.Old comments- ((OPIC - FMD: 2009: Small immature Aspen pocket. Stand was part of the Stephan Bridge Fire in 1990. Stand is also under military lease. Used old site index.)	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		43	Sapling	4	29			
Black/Red (Hybrid) Oak		20	Sapling/Pole	4				
Bigtooth Aspen		30	Pole	6				
Sub-Canopy Species		Density	Avg. Height	Size				
Jack Pine		Low	5 - 10 feet	Sapling				
Black/Red (Hybrid) Oak		Low	Variable	Sapling				
51	4130 - Aspen	Sapling Well	8.4	29	Immature	N/A	Aspen with an oak component mixed in. A few log size oaks that survived fire found scattered through stand providing mast.Old comment- (OPIC - FMD: 1999: PART OF STEPHAN FIRE. USED OLD SITE INDEX. MILITARY LEASED LAND)	
Canopy Species		% Cover	Size Class	DBH	Age			
Bigtooth Aspen		87	Sapling/Pole	4	29			
Sub-Canopy Species		Density	Avg. Height	Size				
White Oak		Medium	< 5 feet	Sapling				
Black/Red (Hybrid) Oak		Low	< 5 feet	Sapling				



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52	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	19.8	29	Immature	N/A	Combined some of the smaller aspen stands that didn't meet minimum mapping standards and are connected by oak/jack pine covertype into 1 stand. Most of stand follows shallow ridges. A few x-log size pine and oak found scattered through stand. North finger has larger aspen in the 6" d-class. Old comments- (OPIC - FMD: 2009: Same as last entry year, but added stand 52 to it. Immature Aspen stand mixed with Red maple Oak and Jack pine. 1999: PART OF STEPHAN FIRE USED OLD SITE INDEX MILITARY LEASED LAND)																																	
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53	4130 - Aspen	Poletimber Well	7.0	29	51-80	N/A	Dense pole sized aspen just getting pole sized in the north, with small pockets of jack pine. Most of the jack pine fingers through stand have been removed and merged with stand 57. Very little sub-canopy interior of stand with medium to high density oak and jack pine around the edges and in the south. Aspen is smaller in the south. OPIC - FMD: 2009: Same as last entry year, but added stand 52 to it. Immature Aspen stand mixed with Red maple Oak and Jack pine. 1999: PART OF STEPHAN FIRE USED OLD SITE INDEX MILITARY LEASED LAND																																	
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54	4126 - White, Black, N. Pin Oak	Sawtimber Medium	17.3	101	51-80	N/A	Stand looks like an oak shelterwood and has excellent oak regen throughout most of it. Small pocket of dense immature jack pine on the south side of stand separates 53 from 54. Second cohort of oak likely germinated soon after firewood sale in 02 and has recruited out of browse height now. Xlog size oak and pine scattered through stand. Jack pine and aspen and smaller oaks are around 80-90 years old in this stand. Old comment- (OPIC - FMD: 2009: STAND WAS PART OF STEPHAN FIRE. DEAD OAK FIREWOOD SALE (037-98-02) EAST SIDE OF																																	
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55	4199 - Other Mixed Upland Deciduous	Sapling Medium	39.7	17	Immature	N/A	Aspen dominates canopy for about 8 acres in the east and west sides of the stand with 100% canopy closure. The middle of the stand is more open and dominated by oak with pockets of jack pine. Part of timber sale (Ketcham Truck Trail Jack Pine, #72-061-01). A few scattered pole size white pine and oak in stand. Old Comments- (OPIC - FMD: (1999: FINAL HARVEST AND MANAGE FOR ASPEN. Old comments.) Cut in Fall 2002. Natural regeneration to oak and aspen: O2A1. 11/19/2002 mm)																																	
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57	42220 - Natural Jack Pine	Sapling Well	46.8	28	Immature	N/A	Mostly dense immature jack pine with pockets of aspen and scattered oaks. Little to no sub-canopy under dense jack pine. Oak is a larger component in southwest. North/south roads that splits stand is overgrown and impassable. Stringer of mature jack pine with oak along north boundary of stand (south side of 2-track). Old comment- (OPIC - FMD: 2009: STAND AREA WAS PART OF STEPHAN FIRE IN 1990.)																																	
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58	4126 - White, Black, N. Pin Oak	Sawtimber Poor	27.3	108	1-50	N/A	Stand responded really well to cut in 2002. Great oak regen through entire stand (most above browse height). Scattered red pine mostly in 18" d-class and a few legacy trees scattered as well.																																							
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60	4131 - Aspen, Oak	Poletimber Well	22.2	29	1-50	N/A	Dense immature quaking aspen in the south with pockets of jack pine/oak mixed in. Rest of the stand jumps from oak/jack pine to big-tooth aspen in different places. Big-tooth aspen is pole sized, the rest of the stand is still immature for the most part. Red maple is pretty thick towards the heele of stand. Old comment- (OPIC - FMD: 2009: PART OF STEPHAN FIRE MILITARY LEASED LAND USED OLD SITE INDEX)																																							
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61	42260 - Natural Pine, Mixed Deciduous	Sawtimber Poor	7.4	91	51-80	N/A	Really good oak regen in sub canopy. Young cohort in sub canopy likely developed after the Stephan Fire. A small pocket of red pine found in sub-canopy. Most red pine is 18"+. Small pocket of pole size aspen in south finger.																																							
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62	4122 - Oak, Pine	Sawtimber Well	19.1	108	51-80	N/A	Stand is a mix of oak and red pine with scattered aspen. Legacy pines present. Good white pine regen around the 28" white pine. White oak in understory through most of stand. Maple in understory is getting pole sized. Most aspen regen as stated in old comments has died. Terminated prescribed burn treatment for stand since there is sufficient regen.																																							
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63	4126 - White, Black, N. Pin Oak	Sawtimber Poor	33.8	108	51-80	N/A	Thick maple regen 2-4" and 20-30 feet tall through middle of stand. White oak is present in good numbers in the east and south. Jackpots of down dead wood from declining oak and over mature aspen in the middle where maple is taking over. Stand contains legacy trees.																																							
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64	4122 - Oak, Pine	Sapling Medium	18.9	17	Immature	N/A	Part of timber sale (Ketcham Truck Trail Jack Pine, #72-061-01). North side of stand is pretty open. Old Comments- (OPIC - FMD: (1999:FINAL HARVEST AND CHIP TOPS AND SLASH. MILITARY LEASED LANDS. Old comments.) Cut in Fall 2002. Natural regeneration: O2A1. 11/19/2002 mm)																																			
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66	42220 - Natural Jack Pine	Poletimber Well	7.7	32	51-80	N/A	Jack pine with an oak component. Looks like healthy J6. Old comment- (OPIC - FMD: 1999: MILITARY LEASED LAND)																																			
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71	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	40.2	29	Immature	N/A	Heavier aspen towards the west, jp/oak in middle, and oak/jp in east. Opening with some jack pine in valley towards the east. Old comments- (OPIC - FMD: 2009: PART OF THE STEPHAN BRIDGE FIRE. USED OLD SITE INDEX. MILITARY LEASED LAND. Oak on ridges and Jack pine in valley, mixed with Oak)																																			
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73	4310 - Pine, Oak Mix	Sapling Medium	3.7	10	1-50	N/A	More open towards the east side of stand, but has some 1-2' tall jack pine coming up. A few scattered red pine seedlings found also. Oak has taken over as dominant canopy species with parent red pine saw trees scattered through the stand. Some pole sized jack pine and oak along the west and part of the south boundary. Stand has sort of a seed tree appearance and was prescribe burned fall 2009 (#72-558). Oak is mostly out of browse height now. Old comment- (OPIC - FMD: 1999: PART OF THE STEPHAN BRIDGE FIRE OF 1990. MILITARY LEASED LAND)																																			
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74	42210 - Natural Red Pine	Sawtimber Medium	23.5	99	51-80	N/A	KETCHAM TRUCK TRAIL FIRE (Incident #2018200021) burned through the south east corner of stand in July of 2018. No mortality observed this year from the Ketchum Truck Trail fire. Regen was burned up in fire and no new regen was observed in understory of the recently burned area during inventory. Good oak regen through the parts of stand that were prescribe burned in 2009. Jack pine and red pine are low density throughout entire stand, but denser in pockets. Jack pine poles mixed in with sparse red pine saw trees in the north west similar to stand 77. Red pine BA is much higher towards the south side of stand (~100 sqft/ac). The two fingers on the north east side of stand look like they were excluded from the prescribed burn and have full oak and low red pine in the sub-canopy. Old Comments- (OPIC - FMD: MILITARY LEASED LANDS. REGENERATE NATURALLY. Selection cut in 2006 under timber sale contract #720290401 Mitten Red Pine. FTP written for prescribed underburn #72-558. Burned in Fall of 2009.)																																			
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75	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	5.1	103	51-80	N/A	Narrow stand that looks similar to covertime of stand 1 in adjacent compartment 256. Legacy white pines present in stand. Dense maple in the understory with pockets of aspen in some of the more open parts of the stand. White pine regen is med-high in pockets, but low overall.																																																		
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76	4310 - Pine, Oak Mix	Sapling Medium	7.0	29	1-50	N/A	Used to be R7, but young oak and jack pine dominate the canopy now after stephan fire in 1990.OPIC - FMD: 1999: PART OF THE STEPHAN FIRE OR ANOTHER FIRE. MILITARY LEASED LAND. PRESCRIBE BURN WITH STAND 74 to to remove grasses and duff to entice natural regeneration.																																																		
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77	42210 - Natural Red Pine	Sawtimber Medium	4.4	99	81-110	N/A	Some of the red pine greater than 20" DBH are 125+ years old. High oak density through most of stand sub-canopy.																																																		
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78	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	67.0	77	51-80	N/A	Legacy pines present in stand. Oak is present in understory through most of stand and has recruited into pole class in some of the more open areas. Jack pine starting to see some mortality. Only aspen observed was next to Ketchum Truck Trail.Old comments- (OPIC - FMD: 1999: LARGE STAND ON MILITARY LEASED LAND. HOLD FOR 10 YEARS. POCKETS OF ASPEN AND RED PINE THROUGHOUT STAND AND OAK SCATTERED THROUGHOUT THE STAND.)																																																		
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84	42210 - Natural Red Pine	Sawtimber Well	7.3	99	171-200	N/A	Natural red pine with x-log size seed trees with plate-like bark. The trees greater than 22" are 130+ years old. Majority of red pine is around 100. Oak is present in sub-canopy as well as some suppressed red pine and red maple.																																																		
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85	42210 - Natural Red Pine	Sawtimber Well	19.2	99	111-140	N/A	Natural red pine with numerous legacy trees. Oak in the sub-canopy is medium to low density.Old comments- (OPIC - FMD: 1999: PART OF THE STEPHAN FIRE OR ANOTHER FIRE. MILITARY LEASED LAND. PRESCRIBE BURN WITH STAND 74 to to remove grasses and duff to entice natural regeneration.)																																																		
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87	4311 - Pine, Aspen Mix	Sapling Well	10.7	29	Immature	N/A	More aspen and oak on the west side of stand. Similar to stands 51 and 53, but with more jack pine. Old comment- (OPIC - FMD: 2009: Same as last entry year, but added stand 52 to it. Immature Aspen stand mixed with Red maple Oak and Jack pine. 1999: PART OF STEPHAN FIRE USED OLD SITE INDEX MILITARY LEASED LAND)																																				
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146	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	37.5	29	Immature	N/A	Split from stand 46 because it's more oak dominated than jack. Nice pocket of aspen in on the east side of stand and other small aspen pockets scattered. Some white pine and red pine on the west and south west part of stand. The middle of the stand is similar to stand 46. Old comment- (OPIC - FMD: 1999: STAND WAS PART OF THE STEPHAN BRIDGE FIRE.)																																				
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400	3102 - Grass	Nonstocked	1.0			No	See old comments Old comment-(OPIC - FMD: Old borrow pit. Grass with some patches of X(gravel))																																				
401	330 - Low-Density Trees	Nonstocked	1.0			No	Old borrow pit. May convert to forested stand next entry. White pine, aspen, cherry, and jack pine and filling in nicely in and around pit. Old comment- (OPIC - FMD: OI Stand Year Origin was)																																				
402	330 - Low-Density Trees	Nonstocked	2.5			No	Opening with scattered jack pine, oak, and cherry. Old comment- (OPIC - FMD: 1999: PART OF THE STEPHAN BRIDGE FIRE. MILITARY LEASED LAND)																																				
446	330 - Low-Density Trees	Nonstocked	3.2	0		No	Opening split from stand 46 has open grown jack pine and a barrens like appearance or possibly a frost pocket. Part of Stephan Bridge Fire in 1990.																																				
471	330 - Low-Density Trees	Nonstocked	1.6	0		No	Opening with some jack pine and oak in a valley split from stand 71, possibly a frost pocket. Part of Stephan Bridge Fire in 1990.																																				