



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41086

Entry Year 2022

Acreage: 1,322

County Schoolcraft

Management Area: Garden Thompson Plains

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**Revision Date:** 2020-08-12

**Stand Examiner:** Tori Irving

**Legal Description:**

T41N R16W Sections 9,16,21,28,29 & 30

**Identified Planning Goals:**

The goals in this compartment include conducting multiple resource management for current and future generations. Forest Health, Recreation, Biodiversity Stewardship, Wildlife and Timber Management are some of the key management components within this compartment.

**Soil and topography:**

The majority of this compartment is upland soils with a high percentage being Rubicon sands. In addition, there are some silt loam as well as clay loam within the hardwood types.

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

Ownership is quite broken in the compartment. There are 2 Pipelines, a Transmission Line and a Railroad that bisect the compartment.

**Unique Natural Features:**

The northwestern shore of Michaud Lake has been identified by MNFI ecologists as an intermittent wetland, a unique natural community. Associated with this wetland community is a population of Torrey's bulrush (*Scirpus torreyi*, state special concern plant). Intermittent wetlands, also known as boggy seepage wetlands, are characteristically herb or herb-shrub dominated wetlands found along lakeshores or in depressions. North of the transition zone, these wetlands always occur on sandy glacial lake plains. These communities experience fluctuating water levels seasonally and from year to year. Preservation of the integrity of this community and its rare plant population depends in part on the exclusion of exotic species. Also, the structure of these communities is directly dependent on the hydrologic regime. The proposed management in this compartment should not disturb this community as long as vehicular travel, decking and skidding avoid the wetland. Osprey (*Pandion haliaetus*, state threatened) and bald eagle (*Haliaeetus leucocephalus*, state threatened) are known from the general area and there is potential for these raptors to occur within this compartment. There is also potential for nesting red shouldered hawk (*Buteo lineatus*, state threatened) to occur throughout this compartment in stands of northern hardwoods, mixed swamp conifer, and mature aspen.

**Archeological, Historical, and Cultural Features:**

None known.

**Special Management Designations or Considerations:**

Michaud Lake has been designated as an Intermittent Wetland ERA and there is a Deer Wintering Range to the west of the compartment boundary.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

Compartment 86 lies within south-western Schoolcraft county in the Escanaba/Door Peninsula ecological sub-subsection and is a part of the Garden Thompson Plains Management area with American woodcock, ruffed grouse, white-tailed deer and wild turkey as featured species. The growing season is 140 days. Extreme minimum temperatures are around -35 degrees F. Annual average snowfall is around 80 inches.

Pre-settlement upland forests were dominated by northern hardwoods consisting of sugar maple and beech. Lowland areas and shallow soils over limestone bedrock were forested by cedar. Windthrow was the main natural disturbance regime. Currently there is still a substantial amount of northern hardwood within this compartment. However, aspen also makes up a fair portion of the upland forest cover.

Wildlife habitat management objectives include maintaining a diversity of successional stages of aspen and maintaining species and structural diversity within hardwood stands. Other wildlife priorities include maintaining open-land habitat, retaining soft and hard mast producing species in harvested stands and ensuring connectivity of forest types along the Lake Michigan shoreline for neotropical migrants. Other wildlife species of interest include sharp-tailed grouse, common redpoll, chestnut-sided warbler, American redstart, blue jay, deer mouse, gray squirrel, and southern flying squirrel.

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

Surface sediments consist of lacustrine (lake) sand and gravel and fine grained end moraine deposits. There is between 10 and 50 feet of glacial drift. The Silurian Manistique Group subcrops below the glacial drift. The Manistique could be used for stone. Surface or near surface stone is quarried on private land in Section 8 for the limited production of dimension building stone and decorative stone. Gravel pits are located on and offsetting State lands. There is good gravel potential on State lands.

### **Vehicle Access:**

Access to the compartment is very good; there are numerous roads within the compartment including US-2 on the south end and County Road 442 on the north end. The town of Cooks is just to the west.

### **Survey Needs:**

None needed.

### **Recreational Facilities and Opportunities:**

There is a snowmobile trail that runs along the south end of the compartment. This trail is a main route in the southern Upper Peninsula.

### **Fire Protection:**

Fire response to the compartment will be quick and easy due to the excellent access. However, the railroad, powerlines and gas pipelines that bisect the compartment may create a challenge to Fire Operations.

### **Additional Compartment Information:**

#### **The following reports from the Inventory are attached:**

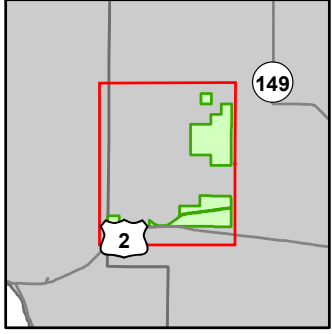
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

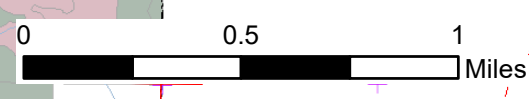
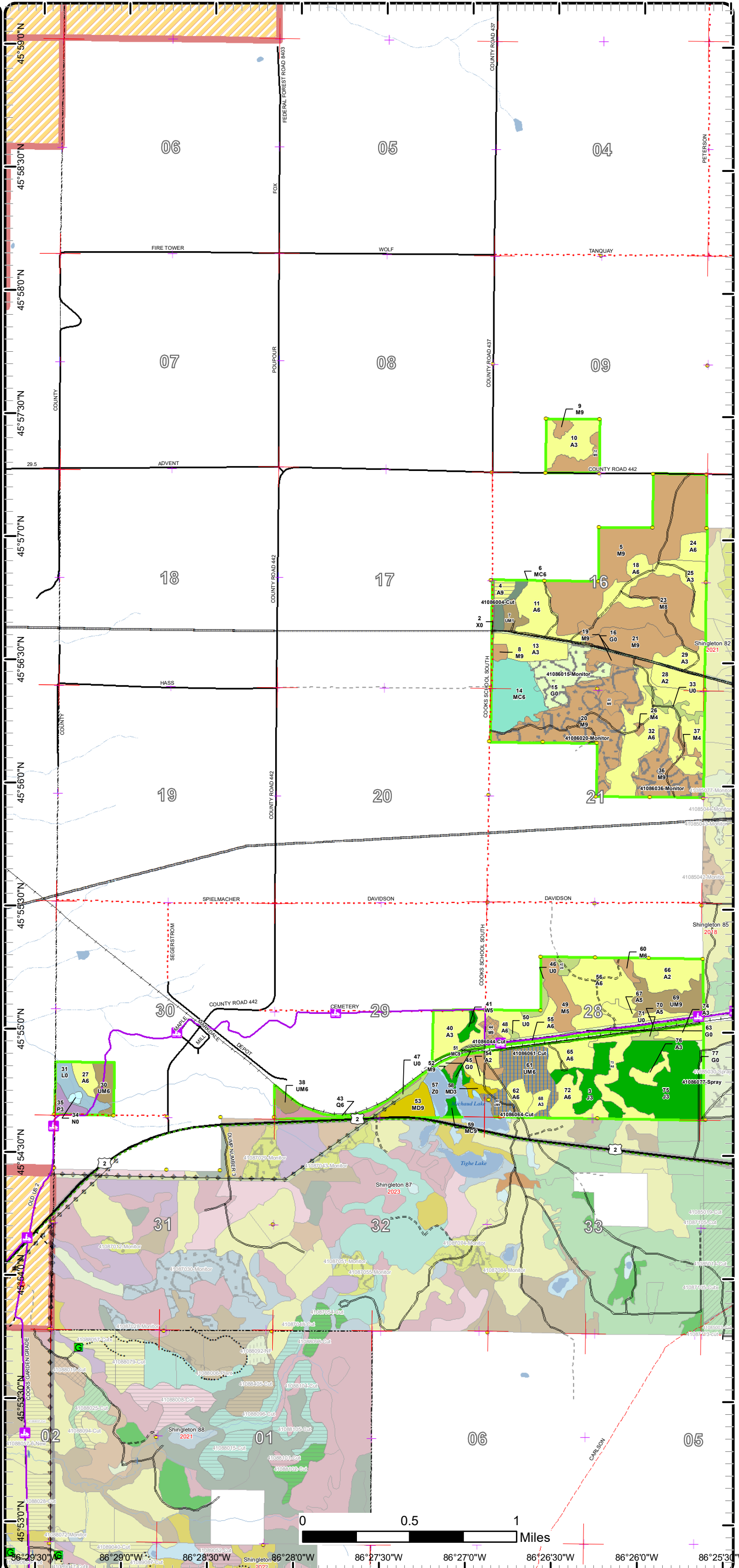
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 86  
 T41N,R17W, Sec: 9, 16, 21, 28-30  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Garden Thompson Plains  
 YOE: 2022  
 Acres: 1,322 GIS Calculated  
 Examiner: Tori Irving  
 Map Revised: 8/25/2020  
 Map Phase: Web Post



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- - - DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - Private - Dirt / Gravel Road
- Active Railroads
- Snowmobile Trails
- - - Designated Hiking Trails
- - - Designated Bicycle Trails
- - - Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Pesticide
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

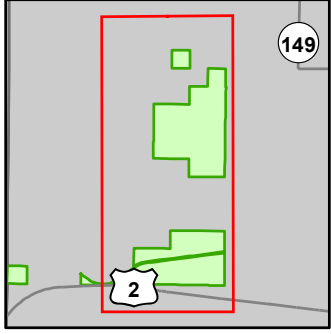


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 86°29'30"W 86°29'0"W 86°28'30"W 86°28'0"W 86°27'30"W 86°27'0"W 86°26'30"W 86°26'0"W 86°25'30"W

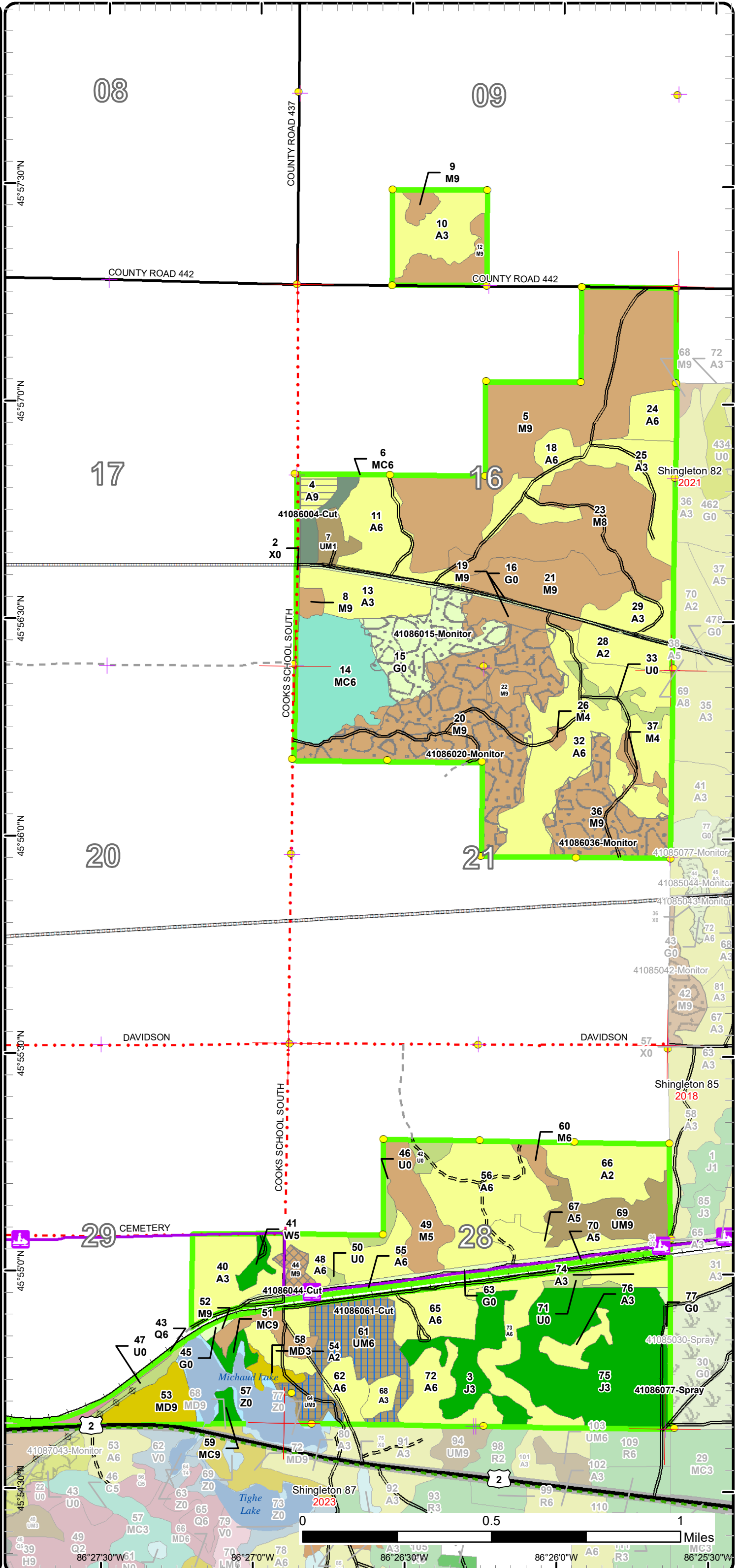


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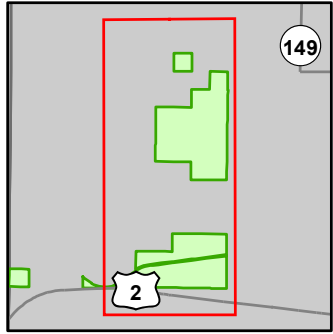
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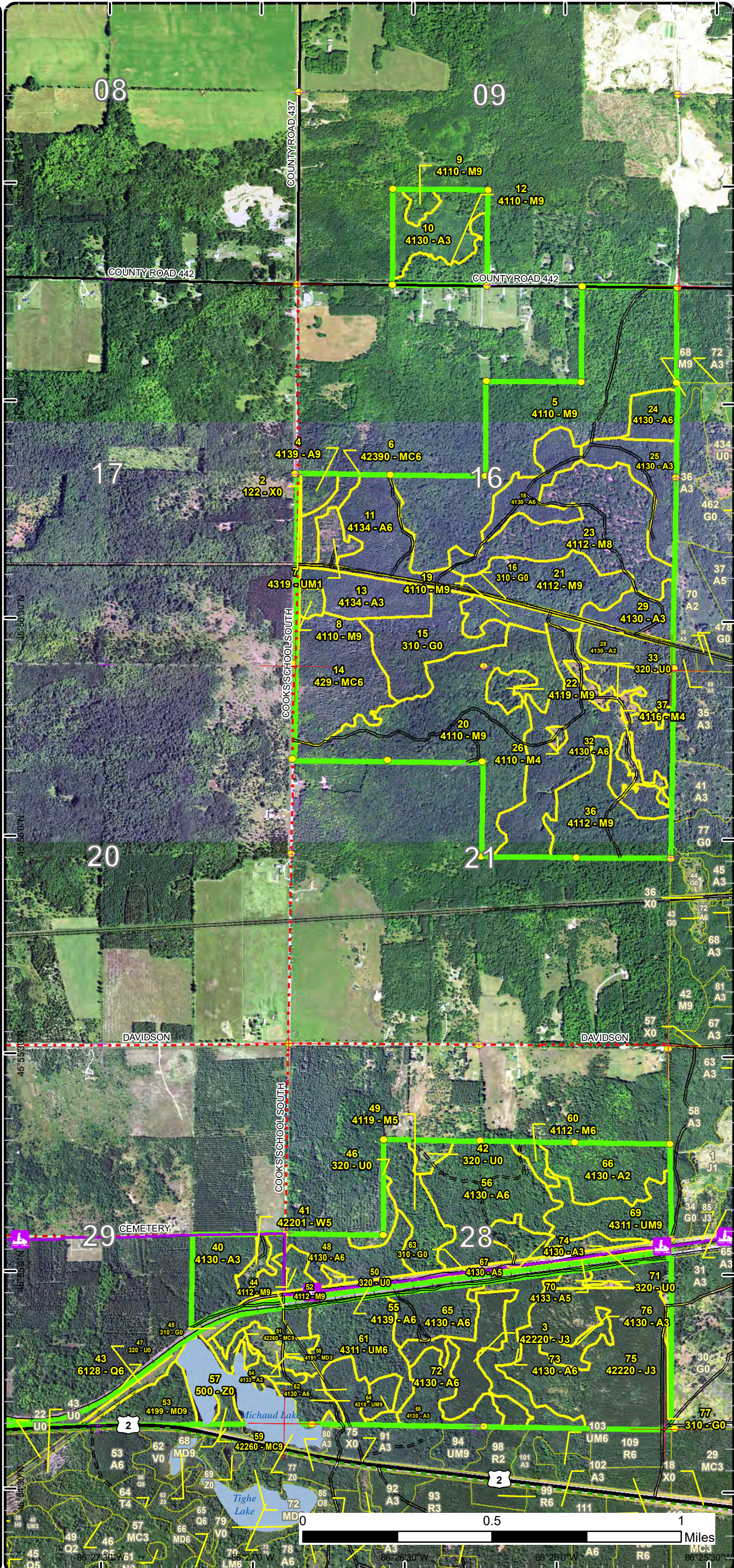


# Stand Boundary Map

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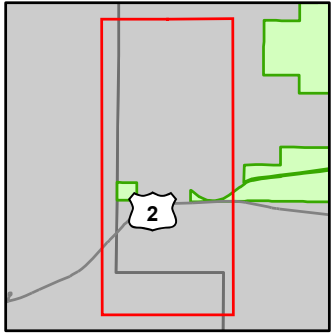


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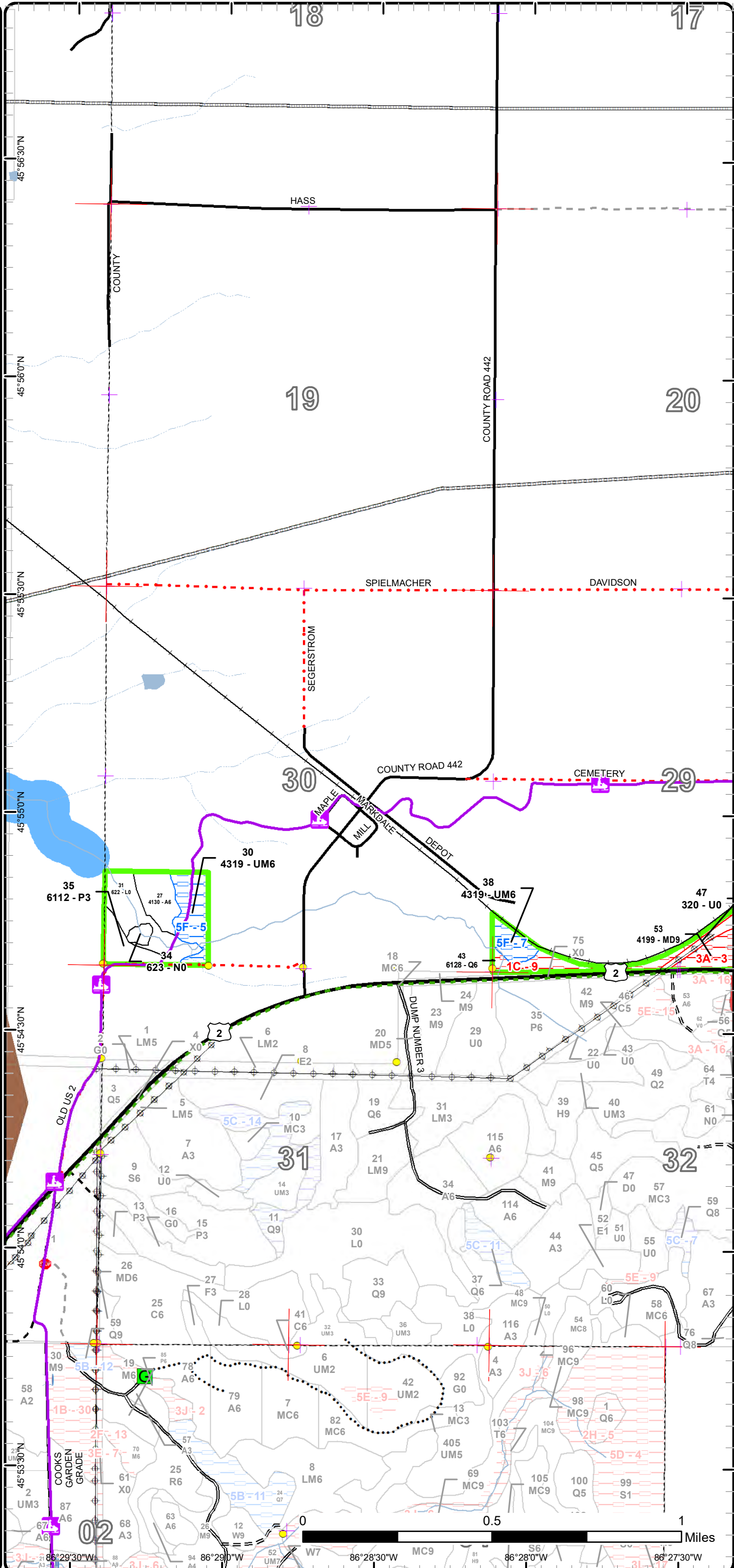


# Special Conservation Areas

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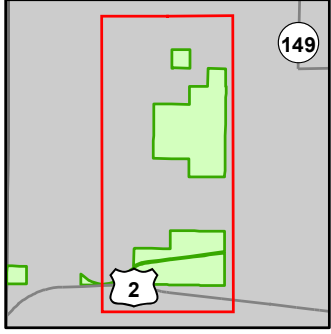
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- Designated Bicycle Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Gate
- Culvert
- Sign
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 1C: Other dept or div proc/practices
- 3A: Conservation Values incompatible with harvest at this time
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



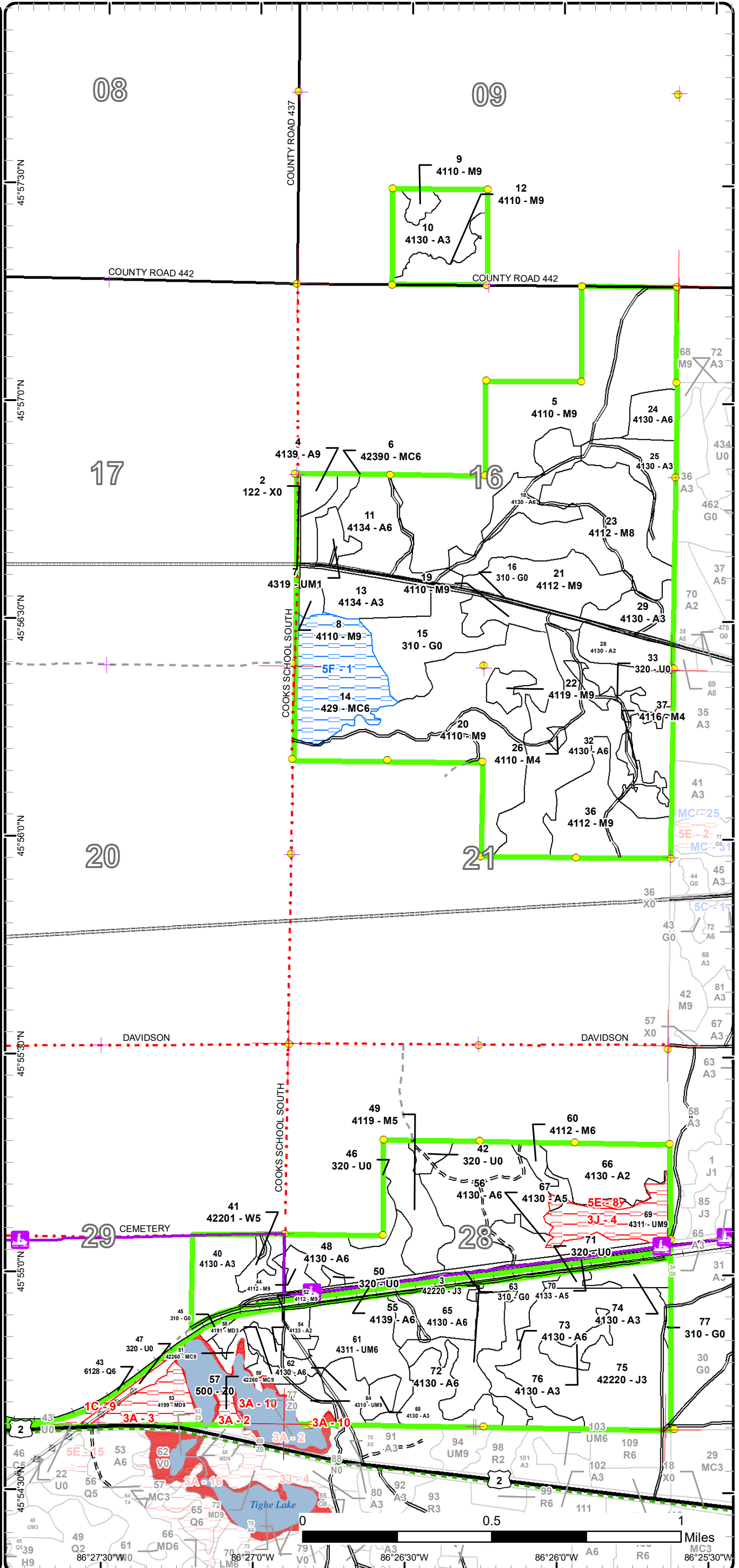


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- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 1C: Other dept or div proc/practices
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	58	0	117	174	129	3	5	0	0	0	0	0	0	0	0	0	0	485
Herbaceous Openland	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Jack Pine	0	0	0	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104
Lowland Aspen/Balsam Poplar	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11
Lowland Shrub	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	4	0	0	0	0	0	16	0	0	0	0	0	0	0	0	20
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	7
Northern Hardwood	0	0	0	0	0	0	0	0	67	30	197	0	0	0	0	0	0	127	421
Upland Conifers	0	0	0	0	0	0	42	0	0	7	0	0	0	0	0	0	0	0	49
Upland Mixed Forest	0	0	0	0	0	19	6	0	0	0	0	25	0	0	0	0	0	40	90
Upland Shrub	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
White Pine	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
<b>Total</b>	<b>127</b>	<b>58</b>	<b>0</b>	<b>229</b>	<b>181</b>	<b>148</b>	<b>51</b>	<b>5</b>	<b>67</b>	<b>53</b>	<b>197</b>	<b>36</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>167</b>	<b>1325</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 86

Total Compartment Acres: 1,322

Commercial Harvest - 48  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	5	0	0	0	0	0	0	0	0	5
Northern Hardwood	0	5	0	0	0	0	0	0	0	5
Upland Mixed Forest	0	0	0	38	0	0	0	0	0	38
<b>Total</b>	<b>5</b>	<b>5</b>	<b>0</b>	<b>38</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>49</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	49	0	0	0	0	2	163	0	0	213
Next Step	0	0	2	0	0	3	52	0	0	56
<b>Total</b>	<b>49</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>214</b>	<b>0</b>	<b>0</b>	<b>269</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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**Proposed Treatments:**

<b>4</b>	<b>41086004-Cut</b>	5.4	4139 - Aspen, Mixed Deciduous	Sawtimber Well	67	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Cut all trees. No retention due to small stand size. Do not cut any hemlock if found.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen species as well as mixed northern hardwood species will be considered acceptable.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

<b>44</b>	<b>41086044-Cut</b>	4.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	77	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark according to the compleat marker and create a few larger canopy gaps to promote hardwood regeneration. Cut all aspen. Residual BA within the stand will be lower than 90 BA in areas due to the lower initial BA.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern hardwood species are acceptable.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

<b>61</b>	<b>41086061-Cut</b>	31.4	4311 - Pine, Aspen Mix	Poletimber Well	76	81-110	Harvest	Seed Tree with Retention	4311 - Pine, Aspen Mix	Even-Aged	No
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Prescription Leave scattered red and white pine for seed source. Leave all oak and hemlock. Cut all other merchantable species.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable A mix of species currently found on site will be considered acceptable.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>64 41086064-Cut</b>	6.8	4310 - Pine, Oak Mix	Sawtimber Well	115	81-110	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all species except oak and hemlock. Leave some scattered larger/super canopy pine species.</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 species found onsite will be considered acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Buffer Michaud Lake by 50 feet.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

**Approved Treatments:**

<b>15 41086015-Monitor</b>	36.5	310 - Herbaceous Openland	Nonstocked	2019	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Count regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of species currently found on site will be considered acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2029</p>										
<b>20 41086020-Monitor</b>	89.3	4110 - Sugar Maple Association	Sawtimber Well	90	81-110	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Monitor regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix o f species currently found on-site will be considered acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2029</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
<b>36 41086036-Monitor</b>	36.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90	51-80	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
<u>Prescription</u> Monitor regeneration. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A mix of species currently found on site will be considered acceptable. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2029										
<b>77 41086077-Spray</b>	1.5	310 - Herbaceous Openland	Nonstocked	2019	Unspecified	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, (Inactive)Aerial; ; Pesticide, Skidder - Site Prep; ; <u>Treatments:</u> Planting, Initial Plant <u>Acceptable</u> red pine, jack pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020										

**Total Treatment** 212.7  
**Acreage Proposed:**

## Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 86

Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions				
Acres	Available	With Condition	Not Available	5F	1C	3A	3J	5E
486	485	0	1	Aspen			1	0
57	57	0	0	Herbaceous Openland				
103	103	0	0	Jack Pine				
7	7	0	0	Lowland Aspen/Balsam Poplar				
11	0	0	11	Lowland Conifers		11		
14	14	0	0	Lowland Shrub				
2	2	0	0	Marsh				
20	4	0	16	Mixed Upland Deciduous			16	
7	4	0	3	Natural Mixed Pines			3	
420	420	0	0	Northern Hardwood				
49	7	42	0	Upland Conifers	42			
89	51	18	21	Upland Mixed Forest	18		20	1
25	25	0	0	Upland Shrub			0	
3	3	0	0	Urban	0			
25	0	0	25	Water			25	
4	4	0	0	White Pine				
1,322	1,186	60	75	Total Forested Acres	60	11	43	21
	90%	5%	6%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5F: Evaluated for Forest Health Considerations	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand had a field review and it was determined that most of the fir and spruce were not merchantable or only contained 1 or 2 sticks of wood.							
2	Unavailable	3A: Conservation Values incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 86

Year of Entry: 2022

3	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Only about 8 acres of harvestable land. Fir is only a component of the stand and stand is young.							
7	<b>Available</b>	<b>5F: Evaluated for Forest Health Considerations</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**Report 4 – Site Conditions**

**Shingleton Mgt. Unit**

**Tori Irving : Examiner**

**Compartment: 86**

**Year of Entry: 2022**

10	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Intermittent wetland ERA							

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
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**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 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.
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
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**2** 122 - Road/Parking Lot Nonstocked 3.3 No

**3** 42220 - Natural Jack Pine Sapling Well 24.7 24 Immature N/A Stand was whole tree harvested which resulted in excellent regeneration. Trace amounts of red oak in stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Sapling	3		Pin Cherry	Low	< 5 feet	Tall Shrub
Jack Pine	83	Sapling	3	24				
Black Cherry	2	Sapling	3					

**4** 4139 - Aspen, Mixed Deciduous Sawtimber Well 5.4 67 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	33	Pole/Log	10		Balsam Fir	Full	Variable	Sapling
Red Maple	4	Pole	7		Ironwood	Low	10 - 20 feet	Sapling
Basswood	4	Log	10					
White Ash	2	Pole	8					
Beech	2	Pole	9					
Bigtooth Aspen	40	Log	11	67				
Balsam Fir	5	Pole	8					
Northern White Cedar	5	Pole	9					
Hemlock	5	Log	12					

**5** 4110 - Sugar Maple Association Sawtimber Well 121.1 80 81-110 N/A Stand was harvested last entry, Spring 04, Cooks School Hardwood

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	75	Log/Pole	11	80	Balsam Fir	High	Variable	Sapling
Basswood	5	Pole	9		Black Raspberry	Medium	5 - 10 feet	Tall Shrub
Beech	2	Log/Pole	12		Beech	Medium	Variable	Sapling
Black Cherry	5	Pole	8					
Bigtooth Aspen	5	Log/Pole	12					
White Ash	3	Log/Pole	10					
Yellow Birch	5	Log	12					

**6** 42390 - Mixed Non-Pine Upland Conifers Poletimber Well 6.9 87 81-110 N/A Trace of hemlock and yellow birch.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	7	Pole	9		Balsam Fir	Full	Variable	Sapling
White Ash	10	Log	10		Northern White Cedar	Full	< 5 feet	Sapling
Bigtooth Aspen	8	Pole	9		Canadian Yew	Low	< 5 feet	Tall Shrub
Balsam Fir	20	Pole	8					
Northern White Cedar	50	Pole/Log	11	87				
Hemlock	5	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>7</b>	4319 - Mixed Upland Forest	Sapling Poor	6.9	42	1-50	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		5	Pole/Sapling	5		Balsam Fir	
Quaking Aspen		10	Pole	5		White Spruce	
Bigtooth Aspen		15	Pole/Sapling	5		Northern White Cedar	
Balsam Fir		10	Sapling	3		Pin Cherry	
White Spruce		8	Sapling	2			
Northern White Cedar		20	Sapling	2			
Red Pine		2	Sapling	3			
Jack Pine		5	Sapling	3			
Black Cherry		25	Sapling	4	42		
						<b>Density</b>	
						<b>Avg. Height</b>	
						<b>Size</b>	

<b>8</b>	4110 - Sugar Maple Association	Sawtimber Well	3.1	82	81-110	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Sugar Maple		84	Log/Pole	10	82	Sugar Maple	
White Ash		2	Log	10		White Ash	
Quaking Aspen		8	Pole	8		Balsam Fir	
Balsam Fir		2	Pole	4		Hemlock	
Hemlock		4	Pole	6		Ironwood	
						<b>Density</b>	
						<b>Avg. Height</b>	
						<b>Size</b>	

<b>9</b>	4110 - Sugar Maple Association	Sawtimber Well	3.9	89	81-110	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Sugar Maple		75	Log	11	89	Sugar Maple	
Basswood		2	Pole	9		Balsam Fir	
White Ash		3	Log/Pole	10		Ironwood	
Beech		2	Log	12			
Paper Birch		5	Pole	9			
Quaking Aspen		9	Log/Pole	10			
Balsam Fir		2	Pole	9			
Ironwood		2	Pole	6			
						<b>Density</b>	
						<b>Avg. Height</b>	
						<b>Size</b>	

<b>10</b>	4130 - Aspen	Sapling Well	23.8	4	Immature	N/A	Stand was cut as part of sale # 41-01-12-01 Man Cave Hardwoods. TCR Date 6/9/2016. Count the regeneration during the 2020 Inventory Cycle.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Quaking Aspen		40	Sapling	1	4		
Bigtooth Aspen		50	Sapling	1	4		
Ironwood		10	Sapling	1			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																									
11	4134 - Aspen, Spruce/Fir	Poletimber Well	28.1	34	Immature	N/A																																																																										
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12	4110 - Sugar Maple Association	Sawtimber Well	13.0	80	81-110	N/A	Stand is part of "Man Cave Hardwood Sale", proposal 41-001-12-01. Unit 2. Residual BA = hard maple 55', paper birch 2', black cherry 4', fir 9', beech 4', white ash 2', basswood 4' and red maple 2' total 82'																																																																									
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15	310 - Herbaceous Openland	Nonstocked	33.0	2019	Unspecified	4136 - Aspen, Mixed Conifer	Stand was cut as part of Camp T Hardwoods Sale #41-003-12-01. TCR Date 5/1/2019.																																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**16**      310 - Herbaceous Openland      Nonstocked      6.7                No

**18**      4130 - Aspen      Poletimber Well      19.7      37           N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	15	Sapling/Pole	4		Sugar Maple	Low	5 - 10 feet	Sapling
Paper Birch	2	Pole	5		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	45	Pole	7	37				
Bigtooth Aspen	30	Pole	7					
Balsam Fir	5	Sapling	4					
Black Cherry	3	Pole	5					

**19**      4110 - Sugar Maple Association      Sawtimber Well      11.1      74      81-110      N/A      Thinned last entry, spring 2005, Cooks School Hardwood

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	52	Log/Pole	10	74	Sugar Maple	Low	10 - 20 feet	Sapling
Basswood	35	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	4	Log	12					
Balsam Fir	2	Pole	6					
Black Cherry	5	Pole	9					
Ironwood	2	Pole	5					

**20**      4110 - Sugar Maple Association      Sawtimber Well      91.4      90      81-110      N/A      5/20/19 TI: Stand was cut as part of Camp T Hardwoods Sale #41-003-12-01. TCR Date 5/1/2019.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	63	Log	11	90	Sugar Maple	High	10 - 20 feet	Sapling
Red Maple	2	Log	10		White Ash	Low	< 5 feet	Sapling
Yellow Birch	4	Log	10		Beech	High	10 - 20 feet	Sapling
Basswood	19	Log	10		Balsam Fir	Medium	Variable	Sapling
White Ash	2	Log	10		Black Cherry	Medium	5 - 10 feet	Sapling
Beech	6	Log	14					
Black Cherry	2	Log	10					
Ironwood	2	Pole	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**21** 4112 - Maple, Beech, Cherry Association Sawtimber Well 29.7 78 81-110 N/A Stand was cut last entry, spring 2005, Cooks School Hardwood

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	40	Log/Pole	10	78
Red Maple	36	Log/Pole	10	
Yellow Birch	4	Log/Pole	10	
Basswood	2	Log	10	
Beech	4	Log/Pole	10	
Paper Birch	2	Pole	9	
Bigtooth Aspen	2	Log	14	
Hemlock	2	Log	14	
Black Cherry	8	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	10 - 20 feet	Sapling
Beech	Medium	< 5 feet	Sapling
Balsam Fir	Medium	Variable	Sapling
Blackberry/Raspberry	High	< 5 feet	Tall Shrub

**22** 4119 - Mixed Northern Hardwoods Sawtimber Well 5.8 84 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	35	Log/Pole	10	84
Basswood	25	Log/Pole	10	
Paper Birch	2	Pole	5	
Bigtooth Aspen	10	Pole	5	
Balsam Fir	18	Pole	8	
Black Cherry	10	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	10 - 20 feet	Sapling
Balsam Fir	High	Variable	Sapling
Black Cherry	Medium	10 - 20 feet	Sapling
Ironwood	Medium	10 - 20 feet	Sapling

**23** 4112 - Maple, Beech, Cherry Association Sawtimber Medium 60.1 91 51-80 N/A

[11/17/2016 TI] Stand is part of "Man Cave Hardwood Sale", proposal 41-001-12-01. Unit 3 and 4. Residual BA = hard maple 40', yellow birch 4', black cherry 4', beech 1', aspen 1', basswood 1' and red maple 25' 76' total

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	35	Log	11	91
Red Maple	30	Log	10	
Yellow Birch	6	Log	12	
Basswood	2	Log	10	
Beech	18	Log	12	
Bigtooth Aspen	2	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	10 - 20 feet	Sapling
Beech	High	10 - 20 feet	Sapling
Balsam Fir	Low	Variable	Sapling
Ironwood	Low	10 - 20 feet	Sapling

**24** 4130 - Aspen Poletimber Well 10.4 36 N/A Sub-canopy fir is concentrated in one area

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	15	Sapling/Pole	4	
White Ash	2	Pole	5	
Paper Birch	2	Pole	5	
Quaking Aspen	44	Pole	8	36
Bigtooth Aspen	30	Pole	8	
Balsam Fir	4	Pole	5	
Black Cherry	3	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	5 - 10 feet	Sapling
Balsam Fir	Medium	Variable	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>25</b>	4130 - Aspen	Sapling Well	23.1	25	Immature	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Sugar Maple		8	Sapling	4		Balsam Fir	
Quaking Aspen		50	Sapling	4	25	Low	
Bigtooth Aspen		29	Sapling	4		< 5 feet	
Balsam Fir		3	Sapling	4		Sapling	
Black Cherry		10	Sapling	3			

<b>26</b>	4110 - Sugar Maple Association	Poletimber Poor	1.3	85	1-50	N/A	Small stand of mostly old black cherry.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		10	Pole	6		Balsam Fir	
Balsam Fir		2	Pole	4		Low	
Black Cherry		88	Pole/Log	9	85	Hazelnut (Beaked)	
						Low	
						< 5 feet	
						Tall Shrub	
						Pin Cherry	
						Low	
						5 - 10 feet	
						Tall Shrub	

<b>27</b>	4130 - Aspen	Poletimber Well	8.6	40		N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Sapling	4		Balsam Fir	
Quaking Aspen		76	Pole/Sapling	5	40	Low	
Balsam Fir		12	Sapling/Pole	5		Tag Alder	
Black Cherry		2	Sapling	3		Low	
						5 - 10 feet	
						Tall Shrub	
						Pin Cherry	
						Low	
						5 - 10 feet	
						Tall Shrub	

<b>28</b>	4130 - Aspen	Sapling Medium	13.5	29	Immature	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		26	Sapling	4		White Pine	
Bigtooth Aspen		40	Sapling	4	29	Low	
White Pine		4	Sapling	4		Medium	
Black Cherry		30	Sapling	4		5 - 10 feet	
						Tall Shrub	

<b>29</b>	4130 - Aspen	Sapling Well	13.5	23	Immature	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Sugar Maple		5	Sapling	2		Beech	
Red Maple		2	Sapling	3		Low	
Bigtooth Aspen		81	Sapling	4	23	Variable	
Balsam Fir		2	Sapling	4		Sapling	
Black Cherry		10	Sapling	3			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>30</b>	4319 - Mixed Upland Forest	Poletimber Well	12.0	47	51-80	N/A	Stand does contain some lowland ground.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	4	Pole	9		Balsam Fir	Low	Variable	Sapling
Red Maple	10	Pole	8		Black Cherry	High	Variable	Sapling
Quaking Aspen	33	Pole	6					
Balsam Fir	43	Pole/Sapling	6	47				
White Spruce	5	Pole/Sapling	6					
Northern White Cedar	2	Log	14					
Black Cherry	3	Sapling	3					

<b>31</b>	622 - Lowland Shrub	Nonstocked	13.8			No	
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<b>32</b>	4130 - Aspen	Poletimber Well	80.6	42		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	2	Sapling	4		Balsam Fir	Low	Variable	Sapling
Red Maple	6	Pole	7		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Quaking Aspen	28	Pole/Sapling	6					
Bigtooth Aspen	50	Pole/Sapling	6	42				
Balsam Fir	2	Pole	5					
White Pine	2	Log/Pole	10					
Black Cherry	10	Pole	8					

<b>33</b>	320 - Upland Shrub	Nonstocked	7.4			No	
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<b>34</b>	623 - Emergent Wetland	Nonstocked	1.8			No	
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<b>35</b>	6112 - Lowland Aspen	Sapling Well	7.2	36		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Sapling/Pole	4		Balsam Fir	High	Variable	Sapling
Paper Birch	5	Sapling/Pole	4		Black Ash	Low	5 - 10 feet	Sapling
Quaking Aspen	53	Sapling/Pole	5	36	Black Cherry	Low	10 - 20 feet	Sapling
Balsam Poplar	3	Sapling/Pole	4		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	15	Sapling/Pole	4					
Green Ash	2	Sapling	2					
Black Cherry	2	Sapling/Pole	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**36**      4112 - Maple, Beech, Cherry Association      Sawtimber Well      36.2      90      51-80      N/A      5/20/19 TI: Stand was cut as part of Camp T Hardwoods Sale #41-003-12-01. TCR Date: 5/1/2019.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	50	Log/Pole	12	90
Red Maple	23	Log/Pole	10	
Yellow Birch	10	Log	14	
Beech	10	Log	14	
Bigtooth Aspen	2	Log	10	
White Pine	2	Log	12	
Black Cherry	3	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	10 - 20 feet	Sapling
Beech	High	10 - 20 feet	Sapling
Hemlock	Low	>20 feet	Pole

**37**      4116 - Mixed N. Hardwood - Aspen      Poletimber Poor      4.4      85      1-50      N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Pole	5	
Bigtooth Aspen	18	Pole	5	
White Pine	2	Sapling	3	
Black Cherry	60	Pole/Log	9	85

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Pin Cherry	Low	5 - 10 feet	Tall Shrub

**38**      4319 - Mixed Upland Forest      Poletimber Well      5.7      59      81-110      N/A      Trace amounts of oak and black spruce in stand. Southern edge drops to lower ground and is where the cedar occurs.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Log	9	
Paper Birch	3	Pole	8	
Quaking Aspen	22	Log/Pole	10	
Balsam Fir	24	Pole	9	59
White Spruce	5	Pole/Sapling	7	
Northern White Cedar	5	Log/Pole	10	
Tamarack	2	Sapling	3	
White Pine	19	Log/XLog	14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Sapling

**40**      4130 - Aspen      Sapling Well      25.4      25      Immature      N/A      Railroad aspen sale

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	6	Sapling	4	
Red Oak	8	Sapling	4	
Quaking Aspen	56	Sapling	3	25
Bigtooth Aspen	14	Sapling	4	
White Pine	5	Pole/Sapling	6	
Black Cherry	8	Sapling	3	
Paper Birch	3	Sapling/Pole	3	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	5 - 10 feet	Sapling
Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
Pin Cherry	Medium	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**41** 42201 - Natural White Pine, Mixed Deciduous Poletimber Medium 4.2 25 1-50 N/A Old opening filling in trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	5		Pin Cherry	Medium	< 5 feet	Tall Shrub
Red Oak	2	Sapling	3					
Paper Birch	4	Sapling	4					
Quaking Aspen	20	Sapling	3					
White Pine	64	Pole/Sapling	7	25				
Black Cherry	8	Pole/Sapling	5					

**42** 320 - Upland Shrub Nonstocked 4.4 No

**43** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 10.6 102 Unspecified N/A Trace amounts of yellow birch and red pine in stand. Stand is low quality nestled between US-2 and the railroad.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
Paper Birch	2	Pole	8		Black Spruce	Low	Variable	Sapling
Balsam Fir	5	Pole	7		Northern White Cedar	Low	5 - 10 feet	Sapling
Black Spruce	25	Pole	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	45	Pole/Log	9	102				
White Pine	3	Log	14					
Black Ash	5	Pole	7					

**44** 4112 - Maple, Beech, Cherry Association Sawtimber Well 4.9 77 111-140 N/A Decent hardwood on south but transitions to aspen on north. Trace amounts of white pine and white ash.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	24	Log/Pole	10		Beech	Low	5 - 10 feet	Sapling
Red Maple	55	Log/Pole	10	77	Balsam Fir	Medium	Variable	Sapling
Beech	5	Log	12		Hemlock	Low	5 - 10 feet	Sapling
Paper Birch	2	Pole	6		Ironwood	Low	5 - 10 feet	Sapling
Quaking Aspen	12	Pole	8					
Ironwood	2	Pole	5					

**45** 310 - Herbaceous Openland Nonstocked 1.6 No

**46** 320 - Upland Shrub Nonstocked 4.4 No

**47** 320 - Upland Shrub Nonstocked 4.8 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**48** 4130 - Aspen Poletimber Well 20.6 40 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	5		Balsam Fir	Low	Variable	Sapling
Paper Birch	2	Pole	5		White Spruce	Low	< 5 feet	Sapling
Quaking Aspen	75	Pole	8	40	White Pine	Medium	< 5 feet	Sapling
Bigtooth Aspen	13	Pole	9		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
White Pine	8	Log	12		Pin Cherry	Low	5 - 10 feet	Tall Shrub

**49** 4119 - Mixed Northern Hardwoods Poletimber Medium 20.9 78 51-80 N/A

Stand was cut as part of Split Access Sale #41-002-12-01. TCR date 11/24/2015.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	55	Pole/Log	9	78	Beech	Low	5 - 10 feet	Sapling
Red Maple	10	Pole/Log	9	78	Balsam Fir	Low	Variable	Sapling
Beech	5	Pole/Log	9		Ironwood	Medium	5 - 10 feet	Sapling
Paper Birch	2	Pole	9		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
Quaking Aspen	2	Pole/Log	10		Aspen (spp.)	Low	5 - 10 feet	Sapling
Bigtooth Aspen	10	Log/Pole	10					
White Pine	2	Log/Pole	12					
Ironwood	2	Pole	5					
Balsam Fir	2	Pole/Sapling	5					
Hemlock	2	Log/Pole	10					
Black Cherry	2	Pole	9					
Red Pine	2	Log/Pole	10					
Red Oak	2	Log/Pole	10					
White Spruce	2	Pole/Sapling	5					

**50** 320 - Upland Shrub Nonstocked 1.1 No

**51** 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 3.8 123 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Log/Pole	10		Beech	Medium	10 - 20 feet	Sapling
Red Oak	4	Log/Pole	10		Red Oak	Low	5 - 10 feet	Sapling
Paper Birch	2	Pole	9		White Pine	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	6	Log/Pole	10		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
White Pine	35	Log/XLog	16	123				
Red Pine	33	Log/XLog	16					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**52** 4112 - Maple, Beech, Cherry Association Sawtimber Well 9.1 94 81-110 N/A Trace amounts of white ash and basswood within stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	45	Log/Pole	10	94	Beech	Full	10 - 20 feet	Sapling
Red Maple	14	Pole	9		Balsam Fir	Low	Variable	Sapling
Beech	25	Log/XLog	14		Hemlock	Low	Variable	Sapling
Paper Birch	4	Log/Pole	10		Ironwood	Low	10 - 20 feet	Sapling
Hemlock	5	Log	16					
Ironwood	2	Pole	6					
White Pine	5	Log/XLog	14					

**53** 4199 - Other Mixed Upland Deciduous Sawtimber Well 15.7 82 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	16	Log	11		Beech	Medium	5 - 10 feet	Sapling
Red Maple	6	Pole	9		Balsam Fir	Low	5 - 10 feet	Sapling
Beech	8	Log	12		White Pine	Low	5 - 10 feet	Sapling
Red Oak	28	Log	12	83	Hemlock	Low	10 - 20 feet	Sapling
Paper Birch	12	Log	11		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	16	Log	14					
White Pine	2	Pole	9					
Hemlock	12	Log/Pole/XLog	16					

**54** 4133 - Aspen, Mixed Pine Sapling Medium 6.6 5 Immature N/A Stand was cut as part of Split Access Sale #41-002-12-01. TCR date 11/24/2015.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	75	Sapling	1	5	Blackberry/Raspberry	Low	5 - 10 feet	Tall Shrub
White Pine	25	Sapling	1					

**55** 4139 - Aspen, Mixed Deciduous Poletimber Well 3.3 55 Unspecified N/A Long narrow stand between railroad and powerline.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Log/Pole	10		Sugar Maple	Low	5 - 10 feet	Sapling
Red Maple	30	Pole	9		Beech	Low	5 - 10 feet	Sapling
Beech	2	Log/Pole	10		White Pine	Low	Variable	Sapling
Paper Birch	4	Pole	8		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
Bigtooth Aspen	44	Pole	8	55				
White Pine	12	Log/Pole	10					
Black Cherry	3	Sapling/Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**56** 4130 - Aspen Poletimber Well 48.7 39 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	6		Red Maple	Low	Variable	Sapling
Red Oak	5	Log	17		Red Oak	Low	5 - 10 feet	Sapling
Paper Birch	2	Pole	6		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Quaking Aspen	13	Pole	7					
Bigtooth Aspen	70	Pole	8	39				
White Pine	2	Log	10					
Red Pine	3	Log	14					

**57** 500 - Water Nonstocked 24.7 No

**58** 4191 - Mixed Upland Deciduous with Conifer Sapling Well 4.3 26 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	4	Sapling	3		Beech	Low	< 5 feet	Sapling
Red Oak	28	Pole/Sapling	5		Red Oak	Low	< 5 feet	Sapling
Bigtooth Aspen	34	Sapling	4	26	White Pine	Low	< 5 feet	Sapling
White Pine	34	Sapling/Pole	4		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub

**59** 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 3.1 122 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	7		Red Oak	Low	5 - 10 feet	Sapling
Red Oak	13	Log	12		Balsam Fir	Low	5 - 10 feet	Sapling
Bigtooth Aspen	20	Pole	9		White Spruce	Low	< 5 feet	Sapling
White Pine	35	Log/XLog	16	122	White Pine	Full	Variable	Sapling
Red Pine	30	Log/XLog	16					

**60** 4112 - Maple, Beech, Cherry Association Poletimber Well 4.0 81 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	11	Pole	9		Sugar Maple	Low	5 - 10 feet	Sapling
Red Maple	75	Pole	9	82	Yellow Birch	Low	5 - 10 feet	Sapling
Beech	2	Pole	8		Beech	Low	5 - 10 feet	Sapling
Quaking Aspen	2	Pole	6		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	4	Pole	6		Ironwood	Low	5 - 10 feet	Sapling
White Pine	2	Log	12					
Hemlock	4	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>61</b>	4311 - Pine, Aspen Mix	Poletimber Well	31.4	76	81-110	N/A	Stand was salvaged through after the 1997 storm, resulting in a 2 and 3 aged stand. Tough call on weather understory aspen is actually in the canopy.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole	7	
Red Oak	2	Pole/Log	10	
Paper Birch	2	Pole	6	
Quaking Aspen	31	Sapling/Pole	5	
Bigtooth Aspen	8	Sapling/Pole	5	
White Pine	34	Log	14	76
Red Pine	6	Log	14	
Jack Pine	2	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	Medium	10 - 20 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling
Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub

<b>62</b>	4130 - Aspen	Poletimber Well	12.5	36		N/A	Trace of beech and hard maple in overstory. Vernal Pond within south portion which is where trace of ash is.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	12	Sapling/Pole	5	
Red Oak	5	Pole/Log	10	
Paper Birch	4	Sapling/Pole	5	
Quaking Aspen	50	Pole/Sapling	6	36
Bigtooth Aspen	25	Pole/Sapling	6	
Balsam Fir	2	Pole/Sapling	6	
White Pine	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	5 - 10 feet	Sapling
Red Maple	Medium	5 - 10 feet	Sapling
Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Pin Cherry	Low	5 - 10 feet	Tall Shrub

<b>63</b>	310 - Herbaceous Openland	Nonstocked	13.2			No	
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<b>64</b>	4310 - Pine, Oak Mix	Sawtimber Well	8.4	115	81-110	N/A	Stand was salvage cut after 1997 windstorm.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	5	
Red Oak	30	Log/Pole	12	115
Paper Birch	7	Pole	8	
Bigtooth Aspen	7	Pole/Sapling	7	
White Pine	25	Log/XLog	15	
Red Pine	26	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Beech	Low	5 - 10 feet	Sapling
Red Oak	High	Variable	Sapling
White Pine	Medium	Variable	Sapling

<b>65</b>	4130 - Aspen	Poletimber Well	18.7	47		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	8	
Red Oak	3	Pole/Log	9	
Paper Birch	2	Sapling/Pole	5	
Quaking Aspen	30	Pole/Sapling	5	
Bigtooth Aspen	50	Pole/Sapling	6	47
White Pine	8	Log/Pole	10	
Red Pine	2	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	Sapling
Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Pin Cherry	Low	5 - 10 feet	Tall Shrub





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**66**      4130 - Aspen      Sapling Medium      26.9      3      Immature      N/A      Stand was cut as part of Davidson Road SBW Sale #41-013-16-01. TCR Date 5/15/2017.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	40	Sapling	1	3
Balsam Poplar	30	Sapling	1	3
Quaking Aspen	25	Sapling	1	3
White Pine	5	Log/Pole	12	

**67**      4130 - Aspen      Poletimber Medium      12.1      39      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	55	Pole	8	39	White Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen	35	Pole	8		Black Cherry	Low	10 - 20 feet	Sapling
Balsam Poplar	4	Pole	5					
White Pine	2	Pole	7					
Jack Pine	2	Pole	6					
Black Cherry	2	Sapling	4					

**68**      4130 - Aspen      Sapling Well      4.9      22      Immature      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	12	Sapling	3		Red Maple	Medium	< 5 feet	Sapling
Quaking Aspen	70	Sapling	3	22	Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen	16	Sapling	3		White Pine	Low	< 5 feet	Sapling
Balsam Fir	2	Pole	6		Pin Cherry	Medium	< 5 feet	Tall Shrub

**69**      4311 - Pine, Aspen Mix      Sawtimber Well      25.0      106      81-110      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	9		Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	2	Pole	7		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	25	Pole	8		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
Bigtooth Aspen	13	Pole	8					
White Pine	33	Log/Pole	14	106				
Red Pine	17	Log/XLog	16					

**70**      4133 - Aspen, Mixed Pine      Poletimber Medium      2.6      37      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Pole	7	37	Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen	10	Pole	7		White Pine	Low	Variable	Sapling
White Pine	28	Sapling/Pole	7		Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Jack Pine	2	Sapling/Pole	5		Pin Cherry	Medium	5 - 10 feet	Tall Shrub
Black Cherry	10	Pole	6					

**71**      320 - Upland Shrub      Nonstocked      3.4      No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**72** 4130 - Aspen Poletimber Well 18.6 33 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Sapling	4		Red Maple	Low	5 - 10 feet	Sapling
Red Oak	3	Log	12		Balsam Fir	Low	Variable	Sapling
Paper Birch	2	Sapling	4		Pin Cherry	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	17	Pole/Sapling	5					
Bigtooth Aspen	70	Pole/Sapling	5	33				
Balsam Fir	2	Pole/Sapling	5					
White Pine	3	Pole/Log	10					

**73** 4130 - Aspen Poletimber Well 21.3 33 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Sapling	4		Jack Pine	Low	5 - 10 feet	Sapling
Red Oak	2	Log/Pole	11		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
Paper Birch	2	Pole/Sapling	5					
Quaking Aspen	28	Pole/Sapling	5					
Bigtooth Aspen	64	Pole/Sapling	5	33				
Jack Pine	2	Sapling	3					

**74** 4130 - Aspen Sapling Well 8.5 22 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Sapling	2		Balsam Fir	Low	Variable	Sapling
Red Oak	2	Pole/Log	9		White Pine	Low	5 - 10 feet	Sapling
Quaking Aspen	66	Sapling/Pole	3	22	Pin Cherry	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	20	Sapling/Pole	3					
White Pine	4	Pole/Log	10					
Black Cherry	6	Sapling/Pole	2					

**75** 42220 - Natural Jack Pine Sapling Well 78.8 24 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Sapling	3		Pin Cherry	Low	< 5 feet	Tall Shrub
Jack Pine	83	Sapling	3	24				
Black Cherry	2	Sapling	3					

Stand was whole tree harvested which resulted in excellent regeneration. Trace amounts of red oak in stand.

**76** 4130 - Aspen Sapling Well 7.2 24 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log	10		Jack Pine	Low	5 - 10 feet	Sapling
Quaking Aspen	68	Sapling	3	24	Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	20	Sapling	3		Pin Cherry	Low	< 5 feet	Tall Shrub
Jack Pine	2	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
77	310 - Herbaceous Openland	Nonstocked	2.3	2019	Unspecified	42110 - Planted Red Pine	[8/5/2019 TI] Stand was cut as part of Coyote Crossing Sale #41-005-18-01. 7/25/2020: Site was roller chopped in July 2020. 8/20/2020: stand was trenched.