



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41155

Entry Year 2021

Acreage: 2,474

County Schoolcraft

Management Area: Seney Lake Plain

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**Stand Examiner:** Bob Burnham

## **Legal Description:**

T46N R16W Sections 22-26

## **Identified Planning Goals:**

Timber and wildlife management opportunities are the primary focus on state lands in this compartment.

## **Soil and topography:**

Flat to gently rolling terrain generally featuring sandy to loamy soils on the uplands & ridges, and heavier muck soils in the bottomlands. Drainage is slow on the lowland sites, which comprise most of this compartment.

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

The area features large blocks of contiguous state ownership, and there are no private lands within this compartment. A power transmission line runs east-west through the compartment.

## **Unique Natural Features:**

This compartment includes significant acreage of the Creighton Marsh Patterned Fen Ecological Reference Area.

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

None known.

## **Special Management Designations or Considerations:**

The Creighton Marsh Patterned Fen ERA represents a high-quality example of a patterned fen. A management plan for it is currently being developed.

## **Watershed and Fisheries Considerations:**

This compartment contains Marsh Creek, Walsh Creek, and several unnamed waterbodies. Additionally, the western region of this compartment borders the Creighton River. Walsh Creek and the Creighton River are designated a Type 1 trout streams less than 50' width. A 300' buffer is recommended for Walsh Creek and the Creighton River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices. Marsh Creek is a non-designated stream less than 50' width. 100' plus 5' per 1% increase in slope; buffers are recommended for Marsh Creek to protect these areas in accordance with Best Management Practices. Several unnamed waterbodies are located in the eastern and western regions of this compartment. 100' plus 5' per 1% increase in slope; buffers are recommended for unnamed waterbodies (small lakes) to protect shoreline areas in accordance with Best Management Practices.

## **Wildlife Habitat Considerations:**

Bordered by Creighton River on the west and M-28 on the south, this compartment is dominated by the marsh/conifer ridge complex. Marsh Creek bisects this compartment on a Northwest/Southeast diagonal. A patterned fen ecological reference area covers a third to half of the compartment. Wolf and moose activity are common. Wildlife goals include protecting the marsh habitat, providing super-canopy pine trees for raptor nesting, maintaining some closed canopy conifer habitat, protecting stream bank corridors, and promoting regeneration of deciduous tree species.

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

Sand/gravel pits are not found in the general area, and there appears to be limited sand & gravel potential within the compartment. There is no known metallic mineral potential in this area no known potential for economic hydrocarbon production in the UP.

## **Vehicle Access:**

Vehicle access is pretty limited in the compartment and the roads that are present are in poor condition due to seasonal flooding in the compartment.

**Survey Needs:**

None.

**Recreational Facilities and Opportunities:**

There are no developed recreational facilities in this compartment.

**Fire Protection:**

Access across low, wet terrain is extremely difficult in many areas.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

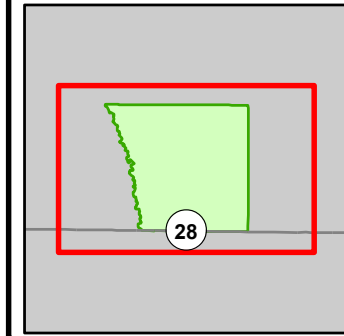
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

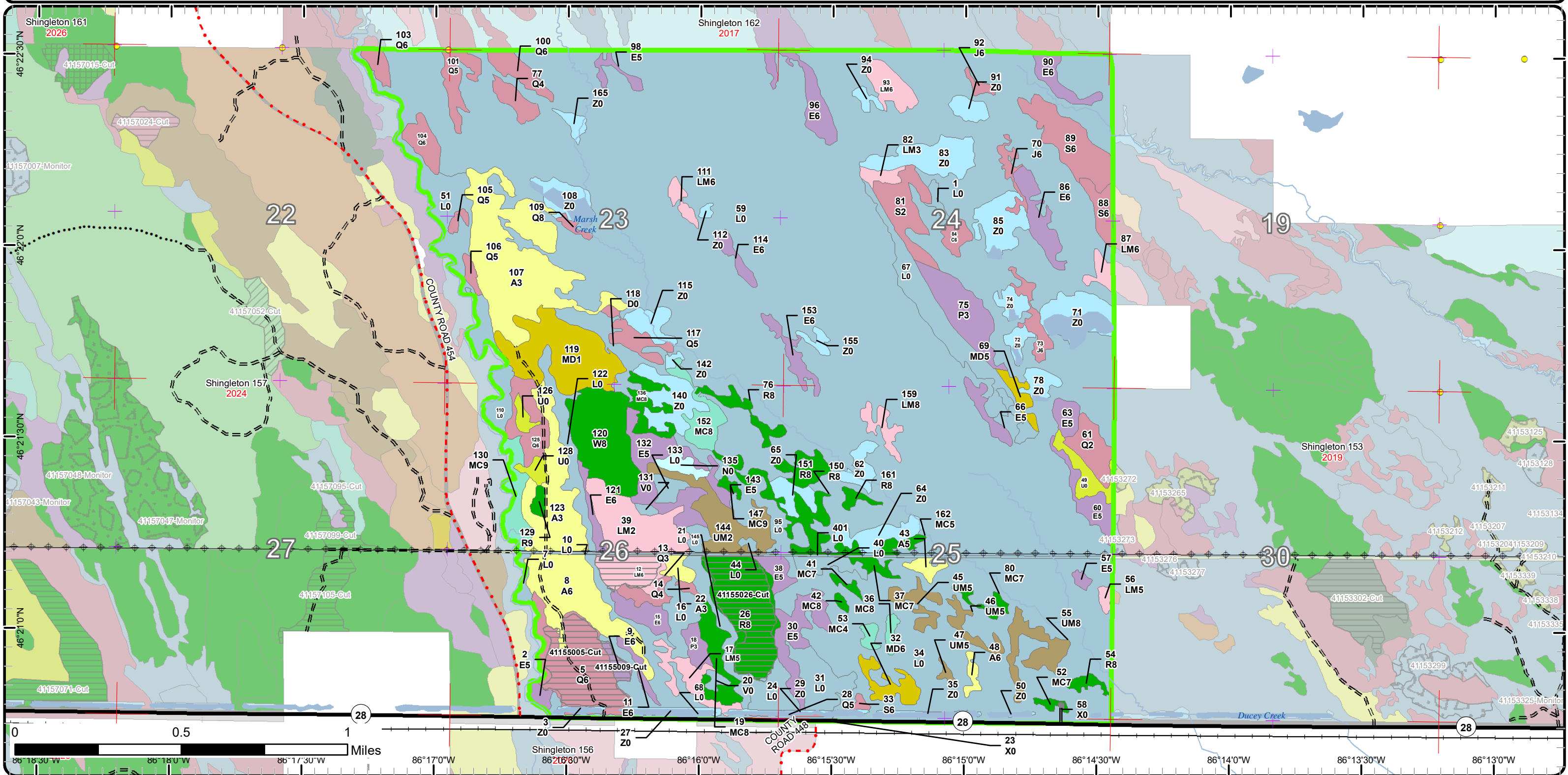
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 155  
 T46N, R16W, Sec: 22-26  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Seney Lake Plain  
 YOE: 2021  
 Acres: 2474.1 GIS Calculated  
 Examiner: Bob Burnham  
 Map Revised: 9/20/2023  
 Map Phase: Post Review

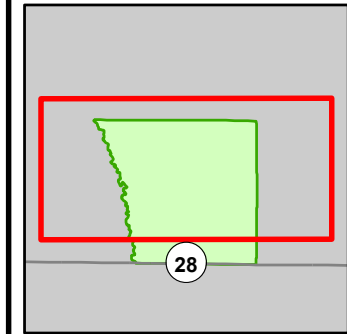


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- County - Gravel Road
- Private - Dirt / Gravel Road
- DNR - Management Access
- Active Railroads
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

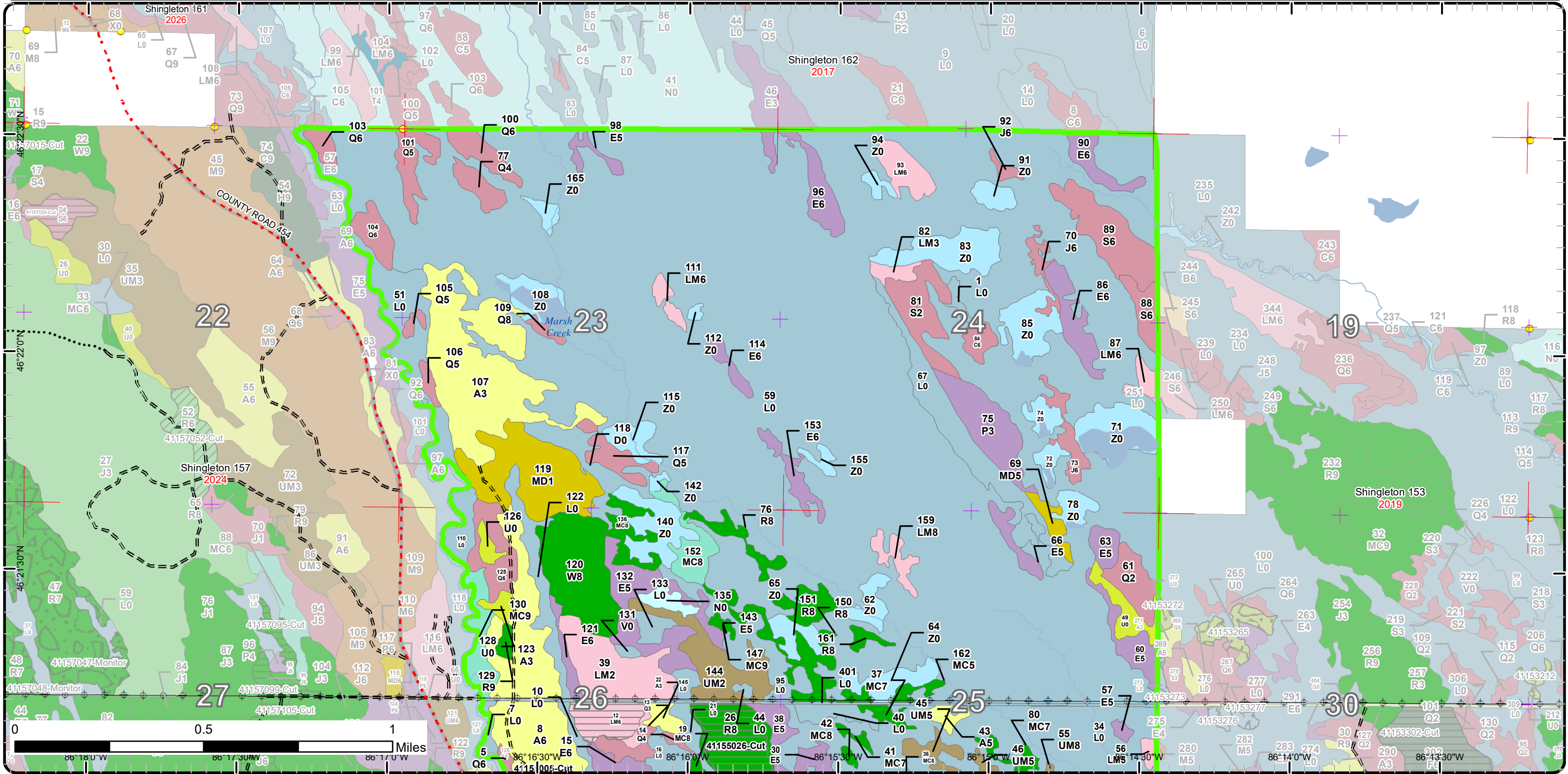


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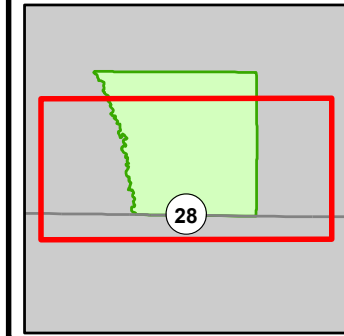


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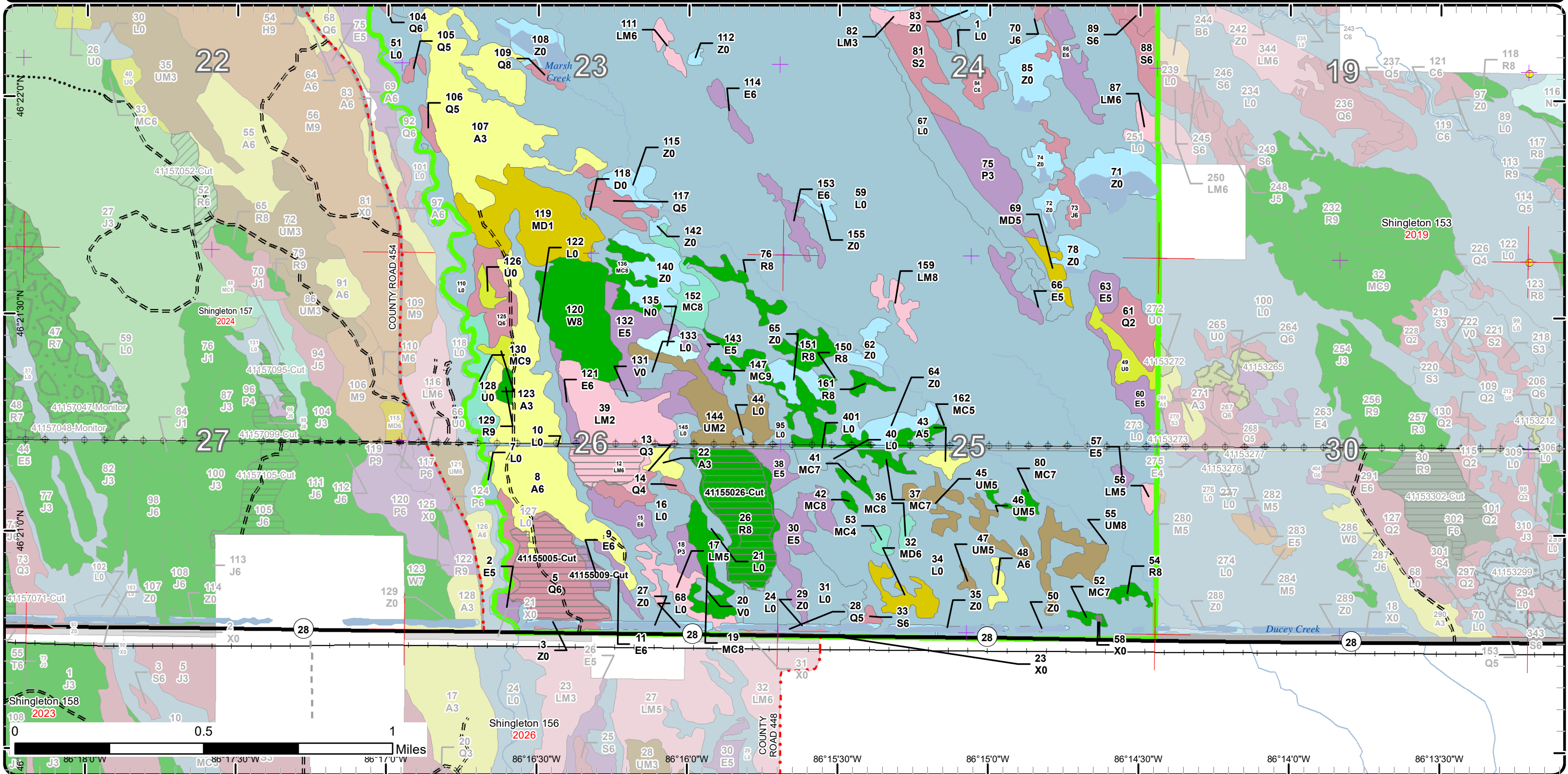


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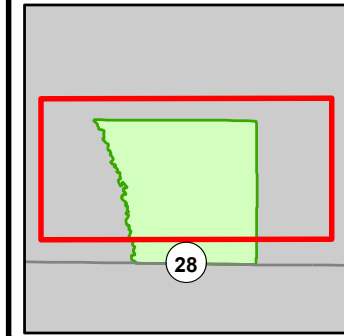


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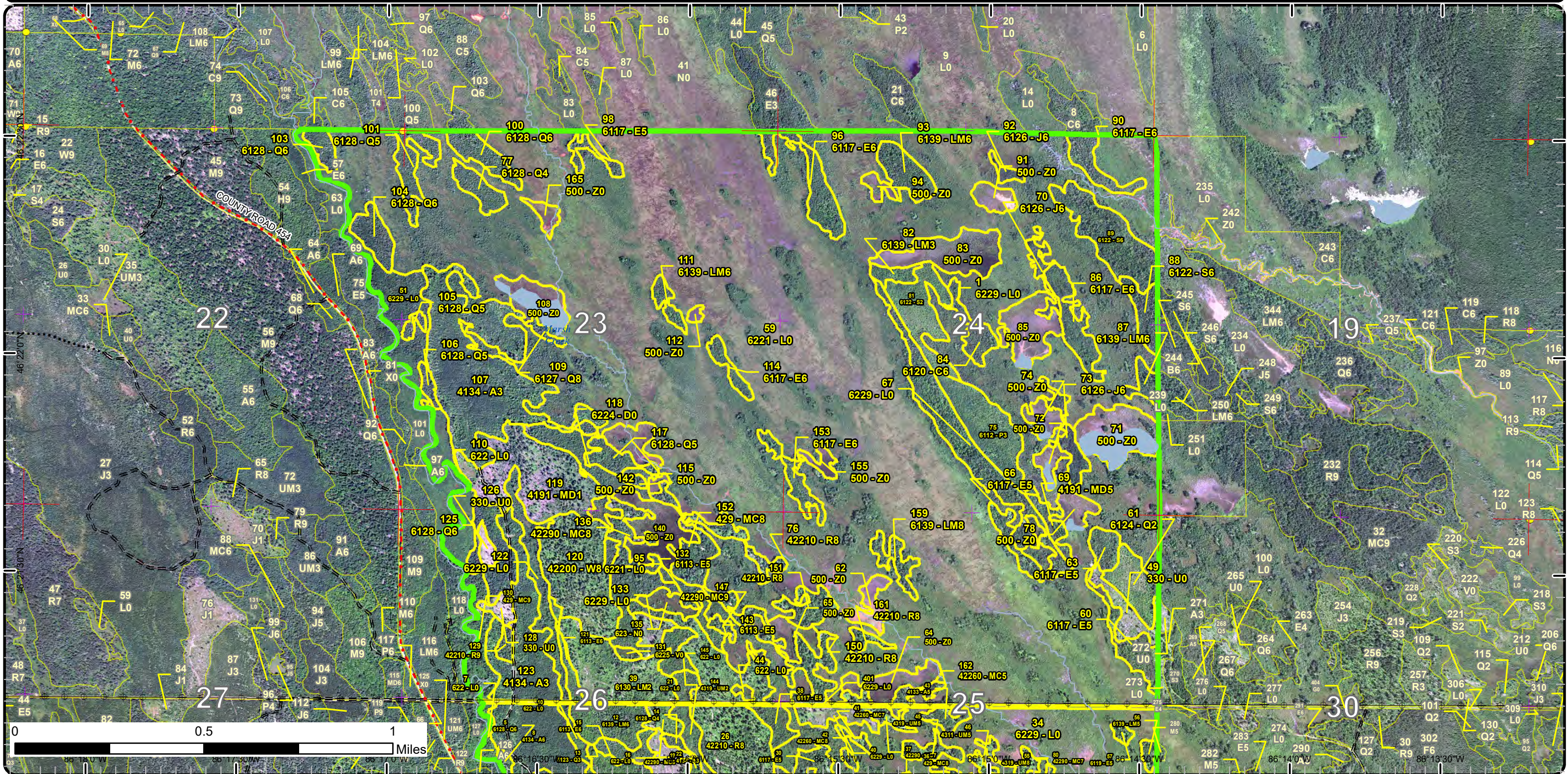


# Stand Boundary Map

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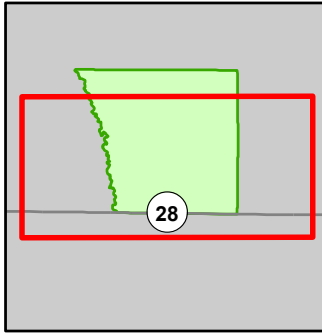


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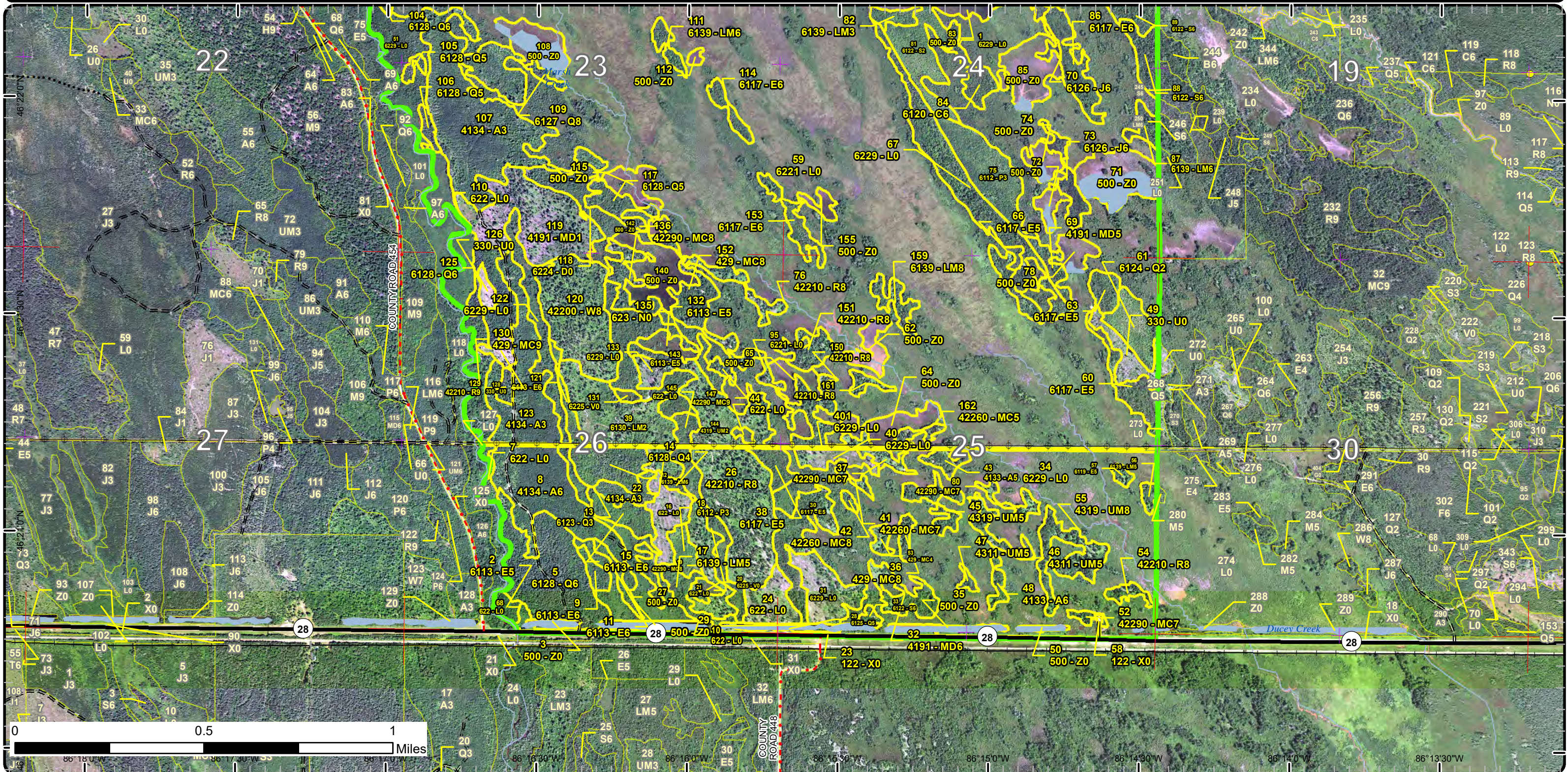


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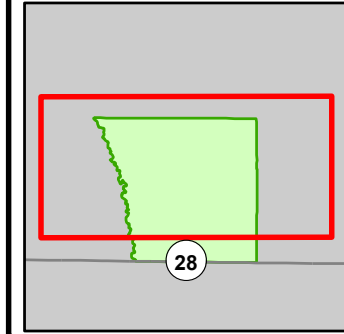


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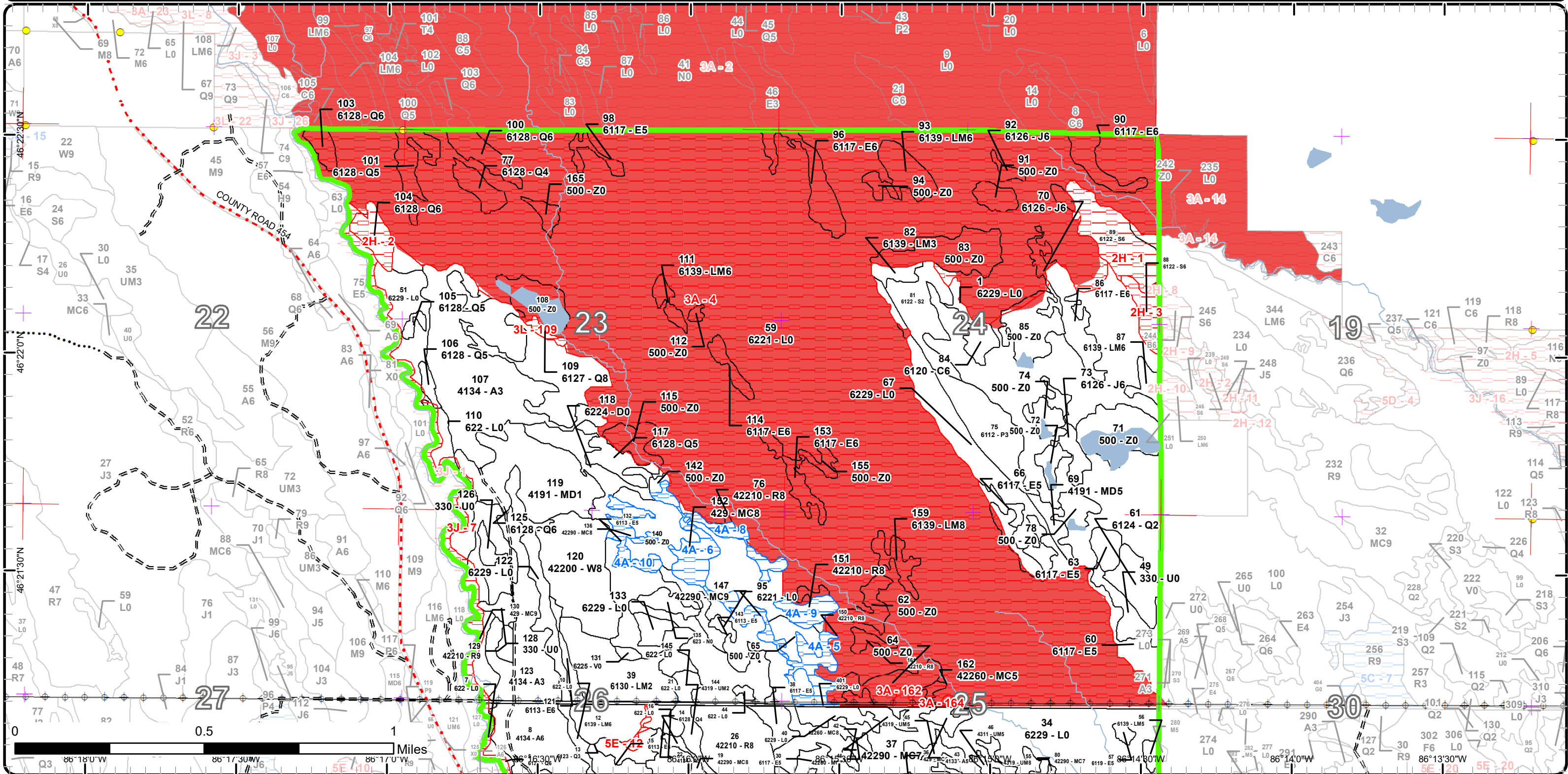


# Special Conservation Areas

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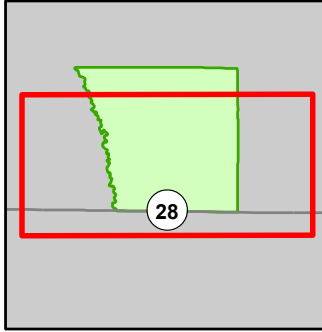
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- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams



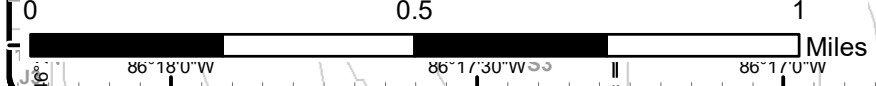
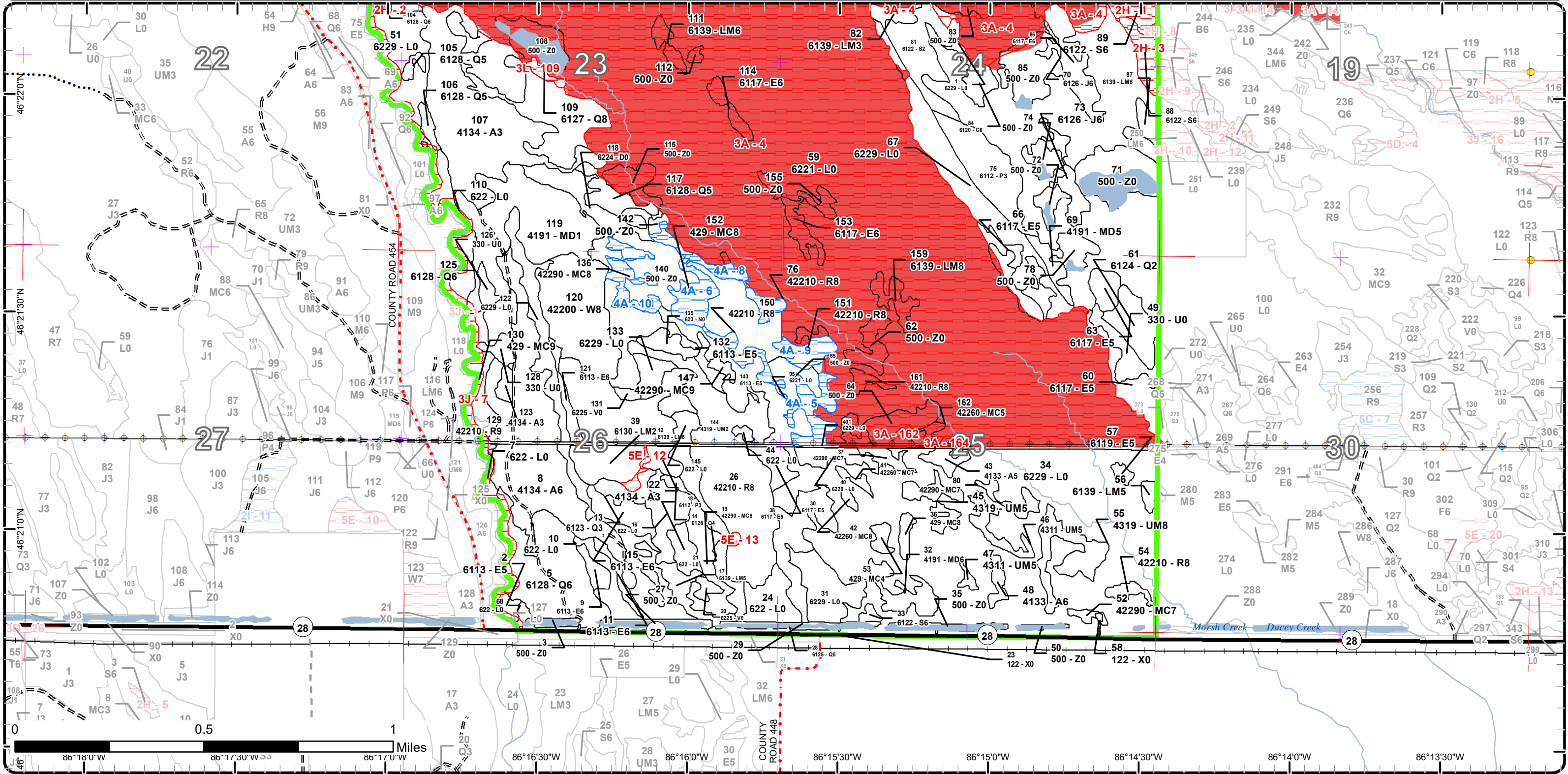


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	4	125	5	0	0	0	0	0	0	0	0	0	0	0	0	0	134
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Cedar	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
Jack Pine	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	12
Low-Density Trees	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Aspen/Balsam Poplar	0	0	5	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Conifers	0	0	0	10	5	20	1	36	8	10	2	20	0	0	0	0	0	0	112
Lowland Deciduous	0	0	0	11	0	38	14	45	5	0	0	0	0	0	0	0	0	11	123
Lowland Mixed Forest	0	0	25	3	0	3	0	0	11	17	12	0	0	0	0	0	0	0	71
Lowland Shrub	1530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1530
Lowland Spruce/Fir	0	0	0	16	0	0	0	0	0	22	7	0	0	0	0	0	0	0	45
Marsh	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	36	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	48
Natural Mixed Pines	0	0	0	0	0	1	0	0	2	17	5	0	8	0	0	0	0	0	32
Red Pine	0	0	0	0	0	0	0	2	0	37	9	0	21	0	0	0	0	0	69
Treed Bog	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Upland Conifers	0	0	0	0	0	0	0	0	13	0	2	0	10	0	0	0	0	0	25
Upland Mixed Forest	0	0	20	0	11	1	0	0	0	0	0	12	0	0	0	0	0	0	44
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	134
White Pine	0	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	32
<b>Total</b>	<b>1704</b>	<b>36</b>	<b>54</b>	<b>184</b>	<b>21</b>	<b>87</b>	<b>15</b>	<b>83</b>	<b>39</b>	<b>139</b>	<b>37</b>	<b>32</b>	<b>39</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>2479</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 155

Total Compartment Acres: 2,474

Commercial Harvest - 75  
 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
Lowland Conifers	29	0	0	0	0	0	0	0	0	29
Lowland Deciduous	3	0	0	0	0	0	0	0	0	3
Lowland Mixed Forest	11	0	0	0	0	0	0	0	0	11
Red Pine	32	0	0	0	0	0	0	0	0	32
<b>Total</b>	<b>75</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	75	0	0	0	0	0	0	0	0	75
Next Step	0	32	32	0	32	64	107	0	0	268
<b>Total</b>	<b>75</b>	<b>32</b>	<b>32</b>	<b>0</b>	<b>32</b>	<b>64</b>	<b>107</b>	<b>0</b>	<b>0</b>	<b>343</b>



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

<b>5</b>	<b>41155005-Cut</b>	29.1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	69	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Clear-cut stand leaving 100' buffer along the Creighton River. Also leave portion along M-28 south of ponds for visuals. This acreage will serve as retention. Cut all remaining trees.  <u>Specs:</u> Per wildlife request; Windrow slash as part of timbersale to benefit hare.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Mix of the current species on-site.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											
<b>9</b>	<b>41155009-Cut</b>	2.8	6113 - Lowland Maple	Poletimber Well	58	51-80	Harvest	Clearcut	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut stand no retention due to small size.  <u>Specs:</u>  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Acceptable regen is a mix of the current species on-site.  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											
<b>12</b>	<b>41155012-Cut</b>	10.7	6139 - Mixed Lowland Forest	Poletimber Well	82	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest stand cutting all trees except minimum retention which can be excluded with the red line along the western L type.  <u>Specs:</u> Per wildlife request; Windrow slash as part of timbersale to benefit hare.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> Current mix of the species on-site.  <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
26 41155026-Cut	32.2	42210 - Natural Red Pine	Sawtimber Medium	83	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut stand and re-plant to red pine. Retention will be determined at the time of sale prep but will be put on the edge. Cut all tress alive and dead down to 2 inches.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Slash; Pesticide, Skidder - Site Prep; SitePrep, Trenching; Monitoring, Artificial Regen(1yr); Pesticide, Skidder - Release;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(3yr); Planting, Initial Plant</p> <p><u>Acceptable Regen:</u> Red Pine</p> <p><u>Other Comment:</u> Stand has some ridges as well as some flat ground. Due to the amount of spring time sheet flow in the area consider trenching east west.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

**Total Treatment Acreage Proposed: 74.8**

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Bob Burnham : Examiner

Compartment: 155  
Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
134	134	0	0

### Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Condition	Dominant Site Conditions					
						4A	2H	3A	3J	3L	5E
134	134	0	0	0	Aspen			0	0		
3	3	0	0	0	Bog						
4	4	0	0	0	Cedar						
12	8	0	4	4	Jack Pine			4			
13	13	0	0	0	Low-Density Trees						
23	23	0	0	0	Lowland Aspen/Balsam Poplar						
110	73	0	38	38	Lowland Conifers		7	26	4	2	
122	89	0	33	33	Lowland Deciduous			32	1		
72	53	0	19	19	Lowland Mixed Forest			17			1
1529	549	0	981	981	Lowland Shrub		1	964	16		
44	17	0	28	28	Lowland Spruce/Fir		26	1			
4	4	0	0	0	Marsh						
47	47	0	0	0	Mixed Upland Deciduous				0		
32	22	8	2	2	Natural Mixed Pines	8		2			
69	39	24	6	6	Red Pine	24		5			0
14	14	0	0	0	Treed Bog						
25	10	10	5	5	Upland Conifers	10			5		
44	44	0	0	0	Upland Mixed Forest						
6	6	0	0	0	Urban				0		
134	73	0	61	61	Water			61	0		
32	32	0	0	0	White Pine						
2,474	1,256	42	1,177	1,177	Total Forested Acres	42	34	1,113	26	2	2
	51%	2%	48%		Relative Percent						

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
 Bob Burnham : Examiner

Compartment: 155  
 Year of Entry: 2021

2	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	3A: Conservation Values incompatible with harvest at this time	1,112	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> ERA							
5	<b>Available</b>	4A: No Markets Available for these Forest Products	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand has difficult winter access and most of the trees are large diameter which are out of class.							
6	<b>Available</b>	4A: No Markets Available for these Forest Products	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand has difficult winter access and most of the products are large diameter that have grown out of class.							
7	<b>Unavailable</b>	3J: Water quality / BMPs (stream, river, or lake)	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Bob Burnham : Examiner

Compartment: 155  
Year of Entry: 2021

8	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand has difficult winter access and most of the trees are large diameter which are out of class.							
9	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand has difficult winter access and most of the trees are large diameter which are out of class.							
10	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand has difficult winter access and most of the trees are large diameter which are out of class.							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
109	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
162	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	1	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**Report 4 – Site Conditions**

**Shingleton Mgt. Unit**  
**Bob Burnham : Examiner**

**Compartment: 155**  
**Year of Entry: 2021**

164	Unavailable	<b>3A: Conservation Values incompatible with harvest at this time</b>	1	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 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.
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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1	6229 - Mixed lowland shrub	Nonstocked	2.1	0	Unspecified	612 - Lowland Coniferous Forest	Stand was cut in the winter of 2018, part of Raisins 2.0 Sale. Fully accept stand to regenerate but check regen next entry.
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2	6113 - Lowland Maple	Poletimber Medium	2.6	58	1-50	N/A	Very wet stand, sparsely stocked.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	70	Pole	8	58	Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	15	Pole	7					
Balsam Fir	15	Pole	7					

3	500 - Water	Nonstocked	1.1		Unspecified	No	
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5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	36.1	69	51-80	N/A	Core of stand is softwoods and edges transition to maple.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	20	Pole/Log	8		Red Maple	Medium	10 - 20 feet	Sapling
Black Spruce	5	Pole	7		Balsam Fir	Medium	5 - 10 feet	Sapling
Paper Birch	5	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Tamarack	15	Pole/Log	9					
Jack Pine	15	Pole/Log	9					
Black Cherry	2	Pole/Log	9					
White Pine	3	Log/Pole	10					
Balsam Fir	20	Pole	8	69				
Red Maple	15	Pole/Log	8					

7	622 - Lowland Shrub	Nonstocked	2.6		Unspecified	No	
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8	4134 - Aspen, Spruce/Fir	Poletimber Well	32.0	28	1-50	N/A	Stand originated from "East Creighton Sale", cut in 1995. Stand is transitioning to poles and is a mi of upland and lowland.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	5	Sapling/Pole	4		Balsam Fir	Low	5 - 10 feet	Sapling
Red Maple	18	Sapling/Pole	4		Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	60	Pole/Sapling	6	28	Black Spruce	Low	5 - 10 feet	Sapling
Jack Pine	2	Sapling/Pole	4		Black Cherry	Low	5 - 10 feet	Sapling
Balsam Fir	15	Sapling/Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
9	6113 - Lowland Maple	Poletimber Well	3.0	58	51-80	N/A	Stand is healthy but consider harvesting with stand 5.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		20	Pole	7		Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple		60	Pole	7	58	Red Maple	Low	5 - 10 feet	Sapling
Quaking Aspen		10	Pole	9		Balsam Fir	Low	5 - 10 feet	Sapling
Paper Birch		5	Pole	8					
Black Cherry		5	Pole	8					
10	622 - Lowland Shrub	Nonstocked	20.8		Unspecified	No			
11	6113 - Lowland Maple	Poletimber Well	2.9	58	51-80	N/A	Wet ground - density, composition and site indices are all variable. Lowland brush dominates the understory in some places.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		20	Pole	7		Red Maple	Low	5 - 10 feet	Sapling
Black Cherry		5	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch		5	Pole	8					
Quaking Aspen		10	Pole	9					
Red Maple		60	Pole	7	58				
12	6139 - Mixed Lowland Forest	Poletimber Well	12.1	82	51-80	N/A	Stand has spruce throughout, 2 ages but only 15 years apart. Red maple is heavier in some areas. Consider harvest to capture the older spruce.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Spruce		45	Pole	8	82	Tag Alder	High	5 - 10 feet	Tall Shrub
Red Maple		40	Pole/Log	9		Balsam Fir	Low	5 - 10 feet	Sapling
Tamarack		3	Pole/Log	9		Red Maple	Low	5 - 10 feet	Sapling
White Pine		5	Log/Pole	12		Black Spruce	Low	5 - 10 feet	Sapling
Quaking Aspen		2	Log/Pole	10					
Paper Birch		5	Pole	7					
13	6123 - Lowland Fir	Sapling Well	4.8	32	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>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Spruce		25	Sapling	2		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir		50	Sapling	2	32				
Red Maple		25	Sapling	2					
14	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	1.2	58	81-110	N/A	Lowland stand sparsely stocked.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
15	6113 - Lowland Maple	Poletimber Well	7.3	62	51-80	N/A	Heavy fir understory. There are a few scattered older aged red maples.																																														
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16	622 - Lowland Shrub	Nonstocked	10.0	0	Unspecified	612 - Lowland Coniferous Forest	Stand was cut in the winter of 2015, part of Broken Snowshoe Softwoods. At the time of harvest acceptable regen was to include all conifer species but there were comments about paper birch, red maple and aspen being in the stand. Regen is coming but slowly due to it being a mix of lowlands and uplands. Going forward there is no reason not to accept the deciduous species as well as the spruce and fir that is regenerating. Look at stand next entry period to ensure regeneration occurred.																																														
17	6139 - Mixed Lowland Forest	Poletimber Medium	9.1	72	51-80	N/A	Tamarack is almost all dead. Stand is spalling with fairly low diameter, low quality red maple.																																														
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18	6112 - Lowland Aspen	Sapling Well	4.6	16	Immature	N/A	Cut winter of 07 Creighton River Mix Sale. Nice regen.																																														
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19	42290 - Natural Mixed Pine	Sawtimber Medium	10.8	83	1-50	N/A	Stand was part of Creighton River Mix Sale cut winter of 2007. It was slated to be scarified but later dropped due to the high residual. The overstory is being featured at this point but there is decent regen throughout. If adjacent stand is harvested consider removing most of the overstory on the north end of stand. South end has far less overstory.																																														
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Red Maple	Medium	5 - 10 feet	Sapling																																																		
20	6225 - Bog	Nonstocked	1.8		Unspecified	No																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21 622 - Lowland Shrub Nonstocked 10.3 Unspecified No

22 4134 - Aspen, Spruce/Fir Sapling Well 3.6 16 Immature N/A

Stand was part of Creighton River Mix, cut in winter of 2007. There is some residual overstory of white pine. West side of stand is a ridge and then drops into low ground as you go east.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	25	Sapling	2	16	Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	10	Sapling	1					
Black Spruce	10	Sapling	1					
White Pine	10	Log/XLog	16	84				
Bigtooth Aspen	15	Sapling	2					
Red Maple	30	Sapling	2					

23 122 - Road/Parking Lot Nonstocked 5.6 Unspecified No M-28

24 622 - Lowland Shrub Nonstocked 9.7 0 Unspecified 612 - Lowland Coniferous Forest

Stand was cut in the winter of 2015, part of Broken Snowshoe Softwoods. At the time of harvest acceptable regen was to include all conifer species but there were comments about paper birch, red maple and aspen being in the stand. Regen is coming but slowly due to it being a mix of lowlands and uplands. Going forward there is no reason not to accept the deciduous species as well as the spruce and fir that is regenerating. Look at stand next entry period to ensure regeneration occurred.

26 42210 - Natural Red Pine Sawtimber Medium 35.1 83 81-110 N/A

Stand was cut as part of Creighton River Mix Sale winter 2007. FTP for scarification was dropped due to high residual. Northern 3rd is much heavier to white pine with maple/aspen understory. Bottom 2/3 mostly red pine, some black spruce on west edge. Consider final harvest and intensively manage for red pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	30	Log/XLog/Pole	16		Red Maple	Medium	5 - 10 feet	Sapling
Black Spruce	5	Pole	8		Black Spruce	Medium	5 - 10 feet	Sapling
Red Pine	65	Log/XLog/Pole	16	83	Balsam Fir	Medium	5 - 10 feet	Sapling
					Quaking Aspen	Medium	10 - 20 feet	Sapling
					White Pine	Low	< 5 feet	Sapling

27 500 - Water Nonstocked 3.9 Unspecified No

28 6125 - Lowland Black Spruce, Jack Pine Poletimber Medium 1.6 46 1-50 N/A

Stand acts as a buffer from the Highway.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	10	Pole	7		Red Maple	Low	5 - 10 feet	Sapling
Red Pine	10	Pole	7		Black Spruce	Low	5 - 10 feet	Sapling
Jack Pine	40	Pole	7	46	Jack Pine	Low	5 - 10 feet	Sapling
Black Spruce	40	Pole	7		Tag Alder	Low	5 - 10 feet	Tall Shrub
					Balsam Fir	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29 500 - Water Nonstocked 2.7 Unspecified No

30 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 15.3 68 1-50 N/A Lowland stand with small diameters. Northeast portion of stand sprawls into some ridges with bals knobs.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Pole/Sapling	7		Balsam Fir	Full	5 - 10 feet	Sapling
Quaking Aspen	5	Pole/Sapling	7		Black Spruce	Low	5 - 10 feet	Sapling
Red Maple	50	Pole/Sapling	7	68	Red Maple	High	5 - 10 feet	Sapling
White Pine	10	XLog/Log	18		White Pine	Low	5 - 10 feet	Sapling
Black Spruce	20	Pole/Sapling	7		Tag Alder	Low	5 - 10 feet	Tall Shrub

31 6229 - Mixed lowland shrub Nonstocked 13.8 0 Unspecified 612 - Lowland Coniferous Forest Stand was cut in the winter of 2015, part of Broken Snowshoe Softwoods. At the time of harvest acceptable regen was to include all conifer species but there were comments about paper birch, red maple and aspen being in the stand. Regen is coming but slowly due to it being a mix of lowlands and uplands. Going forward there is no reason not to accept the deciduous species as well as the spruce and fir that is regenerating. Look at stand next entry period to ensure regeneration occurred.

32 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 7.7 40 1-50 N/A Northeast finger includes a bald knob surrounded by trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Pole	6		Red Maple	Medium	5 - 10 feet	Sapling
Jack Pine	5	Pole	6		Black Spruce	Low	5 - 10 feet	Sapling
Quaking Aspen	30	Pole/Sapling	6	40	Balsam Fir	Low	5 - 10 feet	Sapling
Paper Birch	15	Pole/Sapling	6		White Pine	Medium	5 - 10 feet	Sapling
White Pine	20	XLog/Log/Pole	20	88				
Red Maple	20	Pole/Sapling	6					
Red Pine	5	XLog/Log	18					

33 6122 - Black Spruce Poletimber Well 1.2 83 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	50	Pole	7	83				
White Pine	10	Log/Pole	12					
Balsam Fir	5	Pole	7					
Paper Birch	5	Pole	7					

34 6229 - Mixed lowland shrub Nonstocked 211.0 Unspecified No

35 500 - Water Nonstocked 2.6 Unspecified No





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>36</b>	429 - Mixed Upland Conifers	Sawtimber Medium	2.2	94	51-80	N/A	North end of stand is mature pine, transitions to immature aspen on the south end. Solid black spruce on east edge.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black Spruce		10	Pole/Sapling	7		Balsam Fir	
White Pine		5	Log	14		White Pine	
Red Maple		10	Pole	8		Serviceberry (Juneberry)	
Quaking Aspen		10	Pole/Sapling	6	40		
Red Pine		50	Log/XLog/Pole	16	94		
Paper Birch		15	Pole	7			

<b>37</b>	42290 - Natural Mixed Pine	Sawtimber Poor	2.7	88	Unspecified	N/A	Stand consists mainly of a non-stocked ridge surrounded by trees.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Pine		40	Log/XLog	16	88	Red Maple	
Red Maple		10	Pole	8			
Black Spruce		10	Pole	7			
White Pine		40	Log/XLog	16			

<b>38</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	4.7	58	51-80	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black Spruce		20	Pole	6		Red Maple	
White Pine		5	XLog/Log	18	88	White Pine	
Quaking Aspen		5	Pole	7		Balsam Fir	
Balsam Fir		5	Pole	6		Black Spruce	
Paper Birch		20	Pole	7		Tag Alder	
Red Maple		45	Pole	7	58		

<b>39</b>	6130 - Fir, Aspen, Maple	Sapling Medium	24.9	16	Immature	N/A	Stand was cut in 2007 part of Creighton River Mix sale. Splitting stand since northern portion has more residual. Mixture of ridges but regen is doing good overall.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		28	Sapling	2	16	Tag Alder	
White Pine		8	Sapling	1			
Balsam Fir		15	Sapling	2			
White Pine		10	Log/XLog	16	88		
Black Spruce		10	Sapling	2			
Tamarack		5	Sapling	2			
Red Pine		5	Log/XLog	16			
Northern White Cedar		2	Pole/Log	8			
Bigtooth Aspen		17	Sapling	2			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
40	6229 - Mixed lowland shrub	Nonstocked	5.6	0	Unspecified	612 - Lowland Coniferous Forest	Stand was cut in the winter of 2015, part of Broken Snowshoe Softwoods. At the time of harvest acceptable regen was to include all conifer species but there were comments about paper birch, red maple and aspen being in the stand. Regen is nicely with lots of spruce, white pine, fir, tamarack and red maple. Going forward there is no reason not to accept the deciduous species as well as the spruce and fir that is regenerating. Look at stand next entry period to ensure regeneration occurred.
41	42260 - Natural Pine, Mixed Deciduous	Sawtimber Poor	1.4	74	1-50	N/A	OPIC - FMD: Upland ridge featuring a few scattered pine & aspen over a mix of aspen regen and open grass.
42	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	0.9	74	51-80	N/A	OPIC - FMD: Upland ridge featuring a few scattered pine & aspen over a mix of aspen regen and open grass.

43	4133 - Aspen, Mixed Pine	Poletimber Medium	3.1	31	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	40	Pole/Sapling	5	31	Red Maple	Low	5 - 10 feet	Sapling
Red Pine	10	Log/Pole	14					
Black Spruce	10	Pole	5					
White Pine	20	Log/Pole	14					
Red Maple	20	Pole/Sapling	6					

44	622 - Lowland Shrub	Nonstocked	1.0		Unspecified	No	Creighton Marsh patterned fen
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45	4319 - Mixed Upland Forest	Poletimber Medium	6.1	36	1-50	N/A	There is a knob of mature aspen but the rest is immature.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Pole/Sapling	6		Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Bigtooth Aspen	30	Pole	8	36	Black Spruce	Low	< 5 feet	Sapling
Tamarack	10	Pole	9		Tag Alder	Low	5 - 10 feet	Tall Shrub
White Pine	5	Log/Pole	10		White Pine	Low	< 5 feet	Sapling
Red Maple	5	Pole	8					
Red Pine	25	Log	14	68				
Black Spruce	10	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
<b>46</b>	4311 - Pine, Aspen Mix	Poletimber Medium	4.5	31	Immature	N/A	Stand is a ridge mainly with some bare areas and low ground connections.																																																								
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<b>47</b>	4311 - Pine, Aspen Mix	Poletimber Medium	1.1	45	1-50	N/A																																																									
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<b>48</b>	4133 - Aspen, Mixed Pine	Poletimber Well	2.4	36	1-50	N/A	Stand is transitioning to poles nicely.																																																								
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<b>49</b>	330 - Low-Density Trees	Nonstocked	7.3	0	Unspecified	4319 - Mixed Upland Forest	Stand was cut in the winter of 2015, part of Raisins in the Muffin Sale. Stand is regenerating nicely but still non-stocked. Ground could be typed upland or lowland. Full regeneration is expected but the stand should be looked at next inventory cycle.																																																								
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<b>50</b>	500 - Water	Nonstocked	1.0		Unspecified	No																																																									
<b>51</b>	6229 - Mixed lowland shrub	Nonstocked	20.6		Unspecified	No																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**52** 42290 - Natural Mixed Pine Sawtimber Poor 1.4 41 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	40	Log/Pole	12		Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch	5	Pole/Sapling	6		White Pine	Medium	5 - 10 feet	Sapling
Red Maple	5	Pole/Sapling	6					
Red Pine	40	Log/Pole	10	41				
Bigtooth Aspen	10	Pole/Sapling	5					

**53** 429 - Mixed Upland Conifers Poletimber Poor 2.2 78 1-50 N/A Bald knob surrounded by trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	6		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	15	Pole/Sapling	5	36	White Pine	Low	5 - 10 feet	Sapling
Black Spruce	25	Pole	7		Black Spruce	Low	5 - 10 feet	Sapling
Tamarack	10	Pole	8		Red Pine	Low	5 - 10 feet	Sapling
Red Maple	10	Pole/Sapling	6					
Balsam Fir	5	Pole	6					
Red Pine	30	Log	16	78				

**54** 42210 - Natural Red Pine Sawtimber Medium 2.5 94 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	60	XLog/Log/Pole	18	94	Tag Alder	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	5	Pole/Sapling	6	40	White Pine	Medium	5 - 10 feet	Sapling
Red Maple	10	Pole	8		Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	3	Pole	6		Red Pine	Low	5 - 10 feet	Sapling
Black Spruce	2	Pole	6					
White Pine	20	XLog/Log/Pole	18					

**55** 4319 - Mixed Upland Forest Sawtimber Medium 11.8 100 81-110 N/A Powerline running through stand. Access would not lend itself to intensive management.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	5	Pole	8		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	5	Pole	8		Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	20	Pole/Sapling	6		Balsam Fir	Low	5 - 10 feet	Sapling
Red Pine	40	Log/XLog/Pole	16	100	White Pine	Medium	5 - 10 feet	Sapling
Red Maple	20	Pole	8	67				
White Pine	10	Log/XLog/Pole	16					

**56** 6139 - Mixed Lowland Forest Poletimber Medium 1.8 70 1-50 N/A OPIC - FMD: OI Stand Year Origin was 1953

**57** 6119 - Mixed Lowland Deciduous Forest Poletimber Medium 1.4 70 1-50 N/A OPIC - FMD: OI Stand Year Origin was 1953



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**58** 122 - Road/Parking Lot Nonstocked 0.3 Unspecified No Telephone substation

**59** 6221 - Fen Nonstocked 1,129.9 Unspecified No ERA - Creighton Marsh patterned fen

**60** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 8.7 46 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	20	Pole/Sapling	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	5	Pole/Sapling	6					
Quaking Aspen	20	Pole/Sapling	5					
Paper Birch	15	Pole/Sapling	5					
Tamarack	10	Pole/Sapling	6					
Red Maple	30	Pole/Sapling	6	46				

**61** 6124 - Lowland Spruce-Fir Sapling Medium 10.0 23 Immature N/A Unit 1 of G4 Ducey Marsh Sale, cut winter 2001.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	5	Sapling	2		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	30	Sapling	2	23				
White Pine	20	Sapling	2					
Balsam Fir	25	Sapling	2					
Quaking Aspen	10	Sapling	2					
Red Maple	10	Sapling	2					

**62** 500 - Water Nonstocked 5.6 Unspecified No ERA - Creighton Marsh patterned fen

**63** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 4.6 46 1-50 N/A OPIC - FMD: A few stems are reaching merchantable size.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole/Sapling	5		Black Spruce	Low	5 - 10 feet	Sapling
Black Spruce	15	Pole/Sapling	5		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	35	Pole/Sapling	5	46	Red Maple	Medium	5 - 10 feet	Sapling
Paper Birch	15	Pole/Sapling	5		Balsam Fir	Low	5 - 10 feet	Sapling
Jack Pine	5	Pole/Sapling	5					

**64** 500 - Water Nonstocked 8.9 Unspecified No ERA - Creighton Marsh patterned fen

**65** 500 - Water Nonstocked 5.4 Unspecified No ERA - Creighton Marsh patterned fen



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**66** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 4.9 46 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Sapling	6	46	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	20	Pole/Sapling	6					
Paper Birch	15	Pole/Sapling	5					
Tamarack	10	Pole/Sapling	6					
Bigtooth Aspen	25	Pole/Sapling	5					
White Pine	5	Pole/Sapling	6					

**67** 6229 - Mixed lowland shrub Nonstocked 27.2 0 Unspecified 613 - Lowland Mixed Forest Sale was previously many small stands, all were cut in the winter of 2018 and are now all lumped together. Regeneration is coming nicely and is expected to fully regenerate but the stand should be looked at next entry cycle to ensure that it indeed has.

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	>20 feet	Pole
White Pine	Low	>20 feet	Log
Red Maple	Medium	10 - 20 feet	Sapling
Paper Birch	Low	10 - 20 feet	Sapling

**68** 622 - Lowland Shrub Nonstocked 5.7 Unspecified No

**69** 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 4.2 46 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	30	Pole/Sapling	5		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	30	Pole/Sapling	5	46	Black Spruce	Low	5 - 10 feet	Sapling
Black Spruce	15	Pole/Sapling	5		Red Maple	Medium	5 - 10 feet	Sapling
Jack Pine	5	Pole/Sapling	5		Balsam Fir	Low	5 - 10 feet	Sapling
Paper Birch	20	Pole/Sapling	5					

**70** 6126 - Lowland Jack Pine Poletimber Well 3.9 47 51-80 N/A Jack pine likely originated from the Seney fire. Some of the fingers are dying from water stress.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole/Sapling	5		Tag Alder	Low	5 - 10 feet	Tall Shrub
Jack Pine	90	Pole	6	47	Tamarack	Low	< 5 feet	Sapling

**71** 500 - Water Nonstocked 16.7 Unspecified No Pond - size varies considerably throughout the seasons

**72** 500 - Water Nonstocked 3.3 Unspecified No Pond - size varies considerably throughout the seasons



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
<b>73</b>	6126 - Lowland Jack Pine	Poletimber Well	6.3	46	51-80	N/A	Likely origins of the Seney fire. The edges are getting water stressed.																																																
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<b>74</b>	500 - Water	Nonstocked	4.4		Unspecified	No	Pond - size varies considerably throughout the seasons																																																
<b>75</b>	6112 - Lowland Aspen	Sapling Well	18.7	22	Immature	N/A	Part of G4 Ducey Marsh Sale, cut winter 2001.																																																
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<b>76</b>	42210 - Natural Red Pine	Sawtimber Medium	5.7	113	51-80	N/A	Stand has several bald knobs.																																																
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<b>78</b>	500 - Water	Nonstocked	4.8		Unspecified	No	ERA - Creighton Marsh patterned fen																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**80**      42290 - Natural Mixed Pine      Sawtimber Poor      3.2      88      1-50      N/A      Stand was has several bald knobs.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	8		Red Maple	Low	5 - 10 feet	Sapling
Red Maple	10	Pole	8		Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Quaking Aspen	5	Pole	7		White Pine	Low	< 5 feet	Sapling
Red Pine	40	Log/Pole/XLog	16	88				
White Pine	10	Log/Pole	16					
Jack Pine	20	Pole	8					
Tamarack	5	Pole	6					

**81**      6122 - Black Spruce      Sapling Medium      15.7      22      Immature      N/A      Stand cut winter 2001 G4 Ducey Marsh Sale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	2	Sapling	2		Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	8	Sapling	3					
Balsam Fir	10	Sapling	2					
Quaking Aspen	10	Sapling	3					
Black Spruce	55	Sapling/Pole	4	22				
Red Maple	15	Sapling	2					

**82**      6139 - Mixed Lowland Forest      Sapling Well      3.2      22      Immature      N/A      Part of g4 Ducey Marsh Sale

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Sapling	3		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	35	Sapling	3					
Quaking Aspen	35	Sapling/Pole	4	22				
White Pine	5	Sapling/Pole	3					
Red Maple	10	Sapling	3					
Paper Birch	5	Sapling/Pole	3					

**83**      500 - Water      Nonstocked      16.3           Unspecified      No      Pond/frequently flooded area - size varies significantly throughout the seasons.

**84**      6120 - Lowland Cedar      Poletimber Well      4.1      86      51-80      N/A      Stand was originally part of contract 41-008-11-01 Raisins in the Muffin 2.0. This portion of the sale was not cut because cedar was a no cut species and it was in-operable.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		Balsam Fir	Medium	Variable	Sapling
White Pine	10	Log/Pole	10		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	70	Pole	8	86				
Paper Birch	10	Pole	6					

**85**      500 - Water      Nonstocked      13.2           Unspecified      No      Pond/frequently flooded area - size varies significantly throughout the seasons.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**86** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 10.3 46 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	35	Pole/Sapling	6	46	Tag Alder	High	5 - 10 feet	Tall Shrub
Paper Birch	20	Pole/Sapling	6		Red Maple	Medium	5 - 10 feet	Sapling
Black Spruce	10	Pole/Sapling	6		Tamarack	Low	5 - 10 feet	Sapling
Northern White Cedar	5	Pole	8		Black Spruce	Low	5 - 10 feet	Sapling
Jack Pine	15	Pole/Sapling	6					
Red Maple	15	Pole/Sapling	6					

**87** 6139 - Mixed Lowland Forest Poletimber Well 3.7 92 51-80 N/A

**88** 6122 - Black Spruce Poletimber Well 6.8 92 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	85	Pole	9	92	Black Spruce	Medium	Variable	Sapling
White Pine	15	Log/Pole	12		Tag Alder	Medium	5 - 10 feet	Tall Shrub
					Red Maple	Low	10 - 20 feet	Sapling

**89** 6122 - Black Spruce Poletimber Well 20.8 85 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole/Sapling	7		Balsam Fir	Medium	Variable	Sapling
Red Maple	10	Pole/Log	9		Black Spruce	Medium	Variable	Sapling
Paper Birch	10	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	15	Log/Pole	16					
Black Spruce	55	Pole	9	85				

Could call stand 2 aged due to conditions that likely were triggered by the Seney Fire which established the aspen and fir on the edge of stand.

**90** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 6.9 186 81-110 N/A

Part of ERA - Creighton Marsh patterned fen

**91** 500 - Water Nonstocked 4.4 Unspecified No

Pond/seasonally flooded marshland - water level varies seasonally.

**92** 6126 - Lowland Jack Pine Poletimber Well 1.8 46 1-50 N/A

Part of ERA - Creighton Marsh patterned fen

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	90	Pole	6	46	Tamarack	Low	5 - 10 feet	Sapling
Black Spruce	10	Sapling/Pole	4		Tag Alder	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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**93** 6139 - Mixed Lowland Forest Poletimber Well 8.7 92 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Pole	8		Black Spruce	Medium	Variable	Sapling
Tamarack	5	Pole	9		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	20	Pole	9		Red Maple	Medium	10 - 20 feet	Sapling
Paper Birch	15	Pole	8		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	10	Pole	8					
Black Spruce	40	Pole	9	92				
White Pine	5	Log	10					

**94** 500 - Water Nonstocked 2.2 Unspecified No Pond/seasonally flooded marshland - water level varies seasonally.

**95** 6221 - Fen Nonstocked 17.4 Unspecified No ERA - Creighton Marsh patterned fen

**96** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 11.3 22 1-50 N/A Stand was mostly cut in winter of 2001 with G4 Ducey Marsh Sale. There is a chunk in the middle that was not harvested for some reason.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Pole	7		Red Maple	Low	5 - 10 feet	Sapling
Red Maple	20	Sapling/Pole	4		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch	15	Sapling/Pole	3		Balsam Fir	Low	Variable	Sapling
Black Spruce	15	Pole	8	66				
Quaking Aspen	20	Pole/Sapling	5	22				
Balsam Fir	20	Sapling/Pole	3					
Bigtooth Aspen	5	Sapling/Pole	4					

**98** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 3.1 76 1-50 N/A Part of ERA - Creighton Marsh patterned fen

**100** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 7.2 46 51-80 N/A Stand is 2 aged possibly caused by the Seney Fire.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole/Sapling	6	46	Tag Alder	Full	5 - 10 feet	Tall Shrub
White Pine	25	Log/Pole	10	120	Red Maple	Medium	5 - 10 feet	Sapling
Northern White Cedar	15	Pole	8		Northern White Cedar	Low	< 5 feet	Sapling
Paper Birch	5	Pole/Sapling	6		Black Spruce	Medium	5 - 10 feet	Sapling
Tamarack	10	Pole/Sapling	6					
Black Spruce	15	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**101** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 8.8 102 51-80 N/A There are a couple nice patches of spruce but the rest of the stand is poor quality. Fringes of stand fan out to low density trees.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	20	Pole/Sapling	7		Tag Alder	High	5 - 10 feet	Tall Shrub
White Pine	20	Log/XLog/Pole	16		Black Spruce	Medium	5 - 10 feet	Sapling
Red Maple	10	Pole	6		Paper Birch	Medium	10 - 20 feet	Sapling
Paper Birch	8	Pole	6		Tamarack	Medium	5 - 10 feet	Sapling
Northern White Cedar	20	Pole	8	102				
Black Spruce	20	Pole/Sapling	7					
Quaking Aspen	2	Pole	8					

**103** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 3.7 102 51-80 N/A Cedar is very nice where it is close to the river.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	6		Tag Alder	High	5 - 10 feet	Tall Shrub
Tamarack	10	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
Northern White Cedar	30	Pole/Log	9	102	Tamarack	Low	5 - 10 feet	Sapling
White Pine	10	Log/Pole/XLog	16		Red Maple	Low	5 - 10 feet	Sapling
Black Spruce	15	Pole	7					
Red Maple	30	Pole/Log	8					

**104** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 7.0 102 81-110 N/A Nice stand especially adjacent river.

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

**105** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 1.5 80 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	10	Pole	8		Tag Alder	High	5 - 10 feet	Tall Shrub
Northern White Cedar	15	Pole	7		Red Maple	Medium	5 - 10 feet	Sapling
Paper Birch	10	Pole	7					
Black Spruce	35	Pole	7	80				
Red Maple	30	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**106** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 2.1 80 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log/Pole	14		Red Maple	Low	5 - 10 feet	Sapling
Northern White Cedar	15	Pole	8		Tag Alder	High	5 - 10 feet	Tall Shrub
Red Maple	20	Pole	8					
Tamarack	10	Pole	7					
Balsam Fir	5	Pole	8					
Paper Birch	5	Pole	7					
Black Spruce	35	Pole	7	80				

**107** 4134 - Aspen, Spruce/Fir Sapling Well 64.6 28 Immature N/A Part of East Creighton Sale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	10	Sapling/Pole	3		Balsam Fir	Low	< 5 feet	Sapling
Red Maple	10	Sapling/Pole	3		Pin Cherry	Low	< 5 feet	Tall Shrub
Black Spruce	2	Sapling	2					
Balsam Fir	20	Sapling/Pole	3					
White Pine	5	Sapling/Pole	3					
Quaking Aspen	46	Sapling/Pole	3	28				
Paper Birch	5	Sapling/Pole	2					
Tamarack	2	Sapling/Pole	2					

**108** 500 - Water Nonstocked 10.1 Unspecified No ERA - Creighton Marsh patterned fen Pond - water level fluctuates seasonally

**109** 6127 - Lowland Pine Sawtimber Medium 1.7 94 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Pole	8		Black Spruce	Medium	5 - 10 feet	Sapling
Red Maple	15	Pole	9		Red Maple	Low	5 - 10 feet	Sapling
Red Pine	30	Log/Pole	16		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	10	Pole	8					
White Pine	40	Log/XLog/Pole	16	94				

**110** 622 - Lowland Shrub Nonstocked 14.1 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
<b>111</b>	6139 - Mixed Lowland Forest	Poletimber Well	3.4	46	51-80	N/A																																																											
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<b>115</b>	500 - Water	Nonstocked	6.5		Unspecified	No	Creighton Marsh patterned fen Pond/seasonally flooded marsh - water level varies significantly.																																																										
<b>117</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	7.5	73	51-80	N/A																																																											
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<b>118</b>	6224 - Treed Bog	Nonstocked	13.6		Unspecified	No	Mix of very slow-growing conifers and lowland brush/marsh/bog. Site indices are too low for commercial timber management.																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**119** 4191 - Mixed Upland Deciduous with Conifer Sapling Poor 35.6 8 1-50 N/A

Stand was cut in the winter of 2011 as part of Broken Snowshoe Softwood. The residual overstory that was left is still healthy but the understory is being featured, regen is mainly red maple and aspen by the numbers but there is a lot of spruce, fir and pine that is regenerating that will become part of the canopy. There was a 2 acre stand on the east side that was previously its own stand but is being lumped in.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	50	Sapling	1	8
Quaking Aspen	15	Sapling	1	
Red Pine	5	Log/XLog	16	
White Pine	25	Log/XLog	16	94

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub

**120** 42200 - Natural White Pine Sawtimber Medium 31.6 88 51-80 N/A

Stand was cut in 2007 part of Creighton River Mix sale. Splitting stand since northern portion has more residual. Mixture of ridges but regen is doing good overall.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	65	Log/XLog	16	88
Red Pine	33	Log/XLog	16	
Northern White Cedar	2	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Maple	High	5 - 10 feet	Sapling
Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce	Low	5 - 10 feet	Sapling
White Pine	Medium	< 5 feet	Sapling
Quaking Aspen	Medium	5 - 10 feet	Sapling

**121** 6113 - Lowland Maple Poletimber Well 3.7 78 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Pole	7	
Black Spruce	10	Pole	7	
Paper Birch	10	Pole	9	
Quaking Aspen	10	Pole/Log	9	
Red Maple	65	Pole/Log/Sap	8	78

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	5 - 10 feet	Sapling
Red Maple	Medium	5 - 10 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub

**122** 6229 - Mixed lowland shrub Nonstocked 13.2 Unspecified No

**123** 4134 - Aspen, Spruce/Fir Sapling Well 28.8 28 Immature N/A Part of East Creighton Sale

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	18	Sapling/Pole	3	28
White Pine	5	Sapling	3	
Paper Birch	2	Sapling	3	
Black Spruce	3	Sapling	2	
Red Maple	13	Sapling	3	
Quaking Aspen	54	Sapling/Pole	3	28
Red Pine	5	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	Low	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**125** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 11.4 47 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	15	Pole	6		Balsam Fir	Medium	5 - 10 feet	Sapling
Paper Birch	5	Pole/Log	9		Red Maple	Medium	5 - 10 feet	Sapling
Red Maple	10	Pole	8		Black Spruce	Low	5 - 10 feet	Sapling
White Pine	10	Log/Pole	12		Tag Alder	Low	5 - 10 feet	Tall Shrub
Jack Pine	30	Pole/Log	8	47				
Quaking Aspen	5	Pole/Log	9					
Tamarack	25	Pole/Log	8					

**126** 330 - Low-Density Trees Nonstocked 2.4 0 Unspecified 4222 - Natural Jack Pine Unit 3 of Broken Snowshoe Softwood. Cut winter of 2015 and scarified summer of 2015. Regen is coming but it also includes red maple, aspen and fir.

**128** 330 - Low-Density Trees Nonstocked 2.9 0 Unspecified 4222 - Natural Jack Pine Unit 3 of Broken Snowshoe Softwood. Cut winter of 2015 and scarified summer of 2015. Regen is coming but it also includes red maple, aspen and fir.

**129** 42210 - Natural Red Pine Sawtimber Well 2.1 68 51-80 N/A Red Pine is very large diameter for its age harvest when something adjacent is ready to be treated.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	60	XLog/Log	18	68	Red Maple	Medium	5 - 10 feet	Sapling
Paper Birch	10	Pole	8		Balsam Fir	High	5 - 10 feet	Sapling
Red Maple	15	Pole	6		Pin Cherry	Low	< 5 feet	Tall Shrub
Jack Pine	5	Pole	7					
White Pine	5	Log/Pole	12					
Quaking Aspen	5	Pole	6					

**130** 429 - Mixed Upland Conifers Sawtimber Well 10.7 70 51-80 N/A Could consider harvest but would need to buffer accordingly.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	XLog/Log	18		Balsam Fir	Medium	Variable	Sapling
Red Maple	10	Pole/Log	9		Red Maple	Medium	5 - 10 feet	Sapling
White Pine	35	Log/Pole	12	70	Beech	Low	< 5 feet	Sapling
Quaking Aspen	10	Log/Pole	12		White Pine	Low	< 5 feet	Sapling
Jack Pine	15	Log/Pole	10					
Paper Birch	20	Pole/Log	9					
Balsam Fir	5	Pole	7					

**131** 6225 - Bog Nonstocked 1.2 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**132** 6113 - Lowland Maple Poletimber Medium 19.5 68 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Pole	8		Red Maple	Medium	5 - 10 feet	Sapling
Northern White Cedar	5	Pole/Log	9		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	65	Pole	7	68	Black Spruce	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling
Paper Birch	10	Sapling	3					
Black Spruce	10	Pole	6					

**133** 6229 - Mixed lowland shrub Nonstocked 3.9 0 Unspecified 612 - Lowland Coniferous Forest  
Stand was cut in the winter of 2015, part of Broken Snowshoe Softwoods. At the time of harvest acceptable regen was to include all conifer species but there were comments about paper birch, red maple and aspen being in the stand. Regen is coming but slowly due to it being a mix of lowlands and uplands. Going forward there is no reason not to accept the deciduous species as well as the spruce and fir that is regenerating. Look at stand next entry period to ensure regeneration occurred.

**135** 623 - Emergent Wetland Nonstocked 4.1 Unspecified No

**136** 42290 - Natural Mixed Pine Sawtimber Medium 7.9 113 51-80 N/A Stand is a sprawling ridge with low ground connections.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	45	XLog/Log	20	113	Black Spruce	Medium	5 - 10 feet	Sapling
Red Pine	25	XLog/Log/Pole	18		White Pine	Low	5 - 10 feet	Sapling
Red Maple	5	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch	20	Pole	7	56	Red Maple	Medium	5 - 10 feet	Sapling
Black Spruce	5	Pole	6					

**140** 500 - Water Nonstocked 13.6 Unspecified No Pond/flooded marsh - water level fluctuates seasonally

**142** 500 - Water Nonstocked 1.1 Unspecified No Pond/flooded marsh - water level fluctuates seasonally

**143** 6113 - Lowland Maple Poletimber Medium 2.7 68 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Pole	9		Red Maple	Medium	5 - 10 feet	Sapling
Red Maple	65	Pole/Sapling	7	68	Black Spruce	Low	5 - 10 feet	Sapling
Paper Birch	10	Sapling	3		Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	5	Pole	8					
Balsam Fir	5	Pole	6					
Black Spruce	10	Pole	6					





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**144** 4319 - Mixed Upland Forest Sapling Medium 20.2 16 Immature N/A

Stand has 0-30 square feet of overstory; therefore understory is being featured. Regen is good overall. Stand is a mix of upland and lowland. Cut in the winter of 2007, part of Creighton River Mix.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	2	
Red Pine	5	Log/XLog	16	
White Pine	20	Sapling	2	16
Balsam Fir	10	Sapling	2	
Black Spruce	10	Sapling	2	
Quaking Aspen	15	Sapling	2	
White Pine	20	Log/XLog	16	88

**145** 622 - Lowland Shrub Nonstocked 2.9 Unspecified No

**147** 42290 - Natural Mixed Pine Sawtimber Well 1.5 94 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	8		Red Maple	Low	5 - 10 feet	Sapling
Red Maple	5	Pole	8		Balsam Fir	Low	5 - 10 feet	Sapling
Red Pine	55	Log/XLog/Pole	16	94				
White Pine	30	Log/XLog/Pole	16					

**150** 42210 - Natural Red Pine Sawtimber Medium 15.0 113 1-50 N/A

Overstory is mature could consider an overstory removal.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	65	Log/XLog	16	113	Red Maple	Medium	10 - 20 feet	Sapling
White Pine	35	XLog/Log	18		Paper Birch	Medium	10 - 20 feet	Sapling
					Quaking Aspen	Medium	10 - 20 feet	Sapling
					White Pine	Medium	10 - 20 feet	Sapling

**151** 42210 - Natural Red Pine Sawtimber Medium 6.4 98 1-50 N/A

Stand is 2 aged, could consider overstory removal.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	40	XLog/Log	18		Paper Birch	Medium	10 - 20 feet	Sapling
Red Pine	60	XLog/Log	18	98	Red Maple	Medium	10 - 20 feet	Sapling
					Bigtooth Aspen	Medium	10 - 20 feet	Sapling
					Jack Pine	Medium	10 - 20 feet	Sapling
					White Pine	Medium	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**152** 429 - Mixed Upland Conifers Sawtimber Medium 9.7 113 51-80 N/A Stand is a mix of upland ridges connected by low ground spruce and cedar. Nice oak in a few areas.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	10	Log/XLog/Pole	16		Paper Birch	Low	5 - 10 feet	Sapling
White Pine	30	Log/XLog/Pole	16	113	Black Spruce	Low	5 - 10 feet	Sapling
Northern White Cedar	15	Pole	8		White Pine	Medium	5 - 10 feet	Sapling
Black Spruce	5	Pole	7		Tag Alder	Low	5 - 10 feet	Tall Shrub
Red Oak	15	Log/Pole	12		Balsam Fir	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	10	Pole/Log	9		Red Maple	Medium	5 - 10 feet	Sapling
Paper Birch	15	Pole/Log	9					

**153** 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 6.0 47 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Pole	8		Tag Alder	High	5 - 10 feet	Tall Shrub
Red Pine	5	Log/Pole	16		Red Maple	Medium	5 - 10 feet	Sapling
Black Spruce	5	Pole/Sapling	7		Black Spruce	Low	5 - 10 feet	Sapling
Tamarack	10	Pole	8					
White Pine	5	Log/XLog/Pole	16					
Paper Birch	15	Sapling/Pole	3					
Red Maple	25	Sapling/Pole	4					
Bigtooth Aspen	30	Sapling/Pole	4	47				

**155** 500 - Water Nonstocked 2.4 Unspecified No Pond/flooded marsh - water level fluctuates seasonally

**159** 6139 - Mixed Lowland Forest Sawtimber Medium 5.2 88 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	15	XLog/Log/Pole	20		Red Maple	Medium	5 - 10 feet	Sapling
Red Pine	25	XLog/Log/Pole	18	88	Black Spruce	Low	< 5 feet	Sapling
Red Maple	15	Pole	8		White Pine	Low	< 5 feet	Sapling
Quaking Aspen	25	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	5	Pole	7					
Tamarack	5	Pole	8					
Paper Birch	10	Pole/Sapling	6					

**161** 42210 - Natural Red Pine Sawtimber Medium 2.2 88 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	60	XLog/Log	18	88	Paper Birch	Medium	10 - 20 feet	Sapling
White Pine	40	XLog/Log	18		Bigtooth Aspen	Medium	10 - 20 feet	Sapling
					Red Maple	Medium	10 - 20 feet	Sapling
					White Pine	High	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
162	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	2.5	94	1-50	N/A	ERA - Creighton Marsh patterned fen
165	500 - Water	Nonstocked	2.7		Unspecified	No	ERA - Creighton Marsh patterned fen Pond - water level fluctuates seasonally
401	6229 - Mixed lowland shrub	Nonstocked	7.8		Unspecified	No	ATC Powerline ROW. 70/30 upland vs lowland.