

Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41116

Entry Year: 2027

Acreage: 1,376

County: Schoolcraft

Management Area: Seney Lake Plain

Stand Examiner: Sheila Clark

Legal Description:

T45N R14W Section 1; T46N R14W Sections 35 & 36

Identified Planning Goals:

Timber production and wildlife habitat management. This compartment is adjacent to the Bullock Ranch area which has traditionally been managed for wildlife species using large openings.

Soil and topography:

The topography consists of flat, low, wet ground with steep, high ridges and islands. Large marshland with Markey- Mucky Peat, Deford Muck and Carbondale-Lupton-Tawas Muck soils; islands of pine with Seney- Deford Complex and Deford-AuGres-Rubicon Deep Water Table Complex soils.

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

Seney National Wildlife Refuge borders the compartment on the south, the remainder of the compartment is surrounded by state owned land.

Unique Natural Features:

Vasey's Rush is located in marshy areas that flood during seasonal flooding.

Archeological, Historical, and Cultural Features:

None identified at this time.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

This compartment contains Clarks Ditch. Clarks Ditch is a non-designated stream less than 50-ft wide and has predicted mean July water temperatures that range from 60.0 to 62.0°F (cold stream). A minimum 100-foot, plus 5 feet per 1% increase in slope, riparian management zone is recommended for Clarks Ditch to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment lies south of M-28 and 1.5 miles west of Seney. The entire compartment lies within the Seney marsh/ridge complex. Surveyor notes indicate that marsh dominated the pre-settlement landscape of this compartment. Areas that were forested at that time consisted primarily of tamarack with smaller amounts of white and red pine mixed in. While the marsh remains largely intact, the current forest areas are now dominated by red pine and jack pine. Featured species in this compartment are beaver, gray jay, and sharp-tailed grouse. Wildlife habitat objectives in this compartment include maintaining the integrity of the wetland complex while providing a diversity of forest conditions on the forested ridges.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Utica Shale subcrops below the glacial drift. The Utica does not have a current economic use. Gravel pits are not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

Most of this compartment is inaccessible by vehicles.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

There are no DNR recreational facilities within the compartment, but the area is used for bear and deer hunting.

Fire Protection:

Fires are generally caused by lightning strikes. Organic soils sometimes cause difficulty in fire suppression. Lack of roads makes access to fires difficult.

Additional Compartment Information:

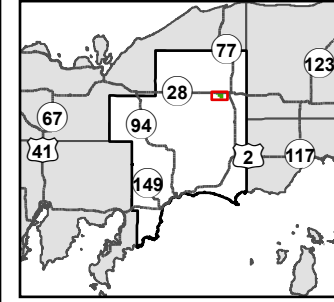
The following reports from the Inventory are attached:

- 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**

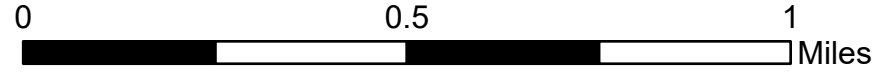
The following information is displayed, where pertinent, on the attached compartment maps:

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

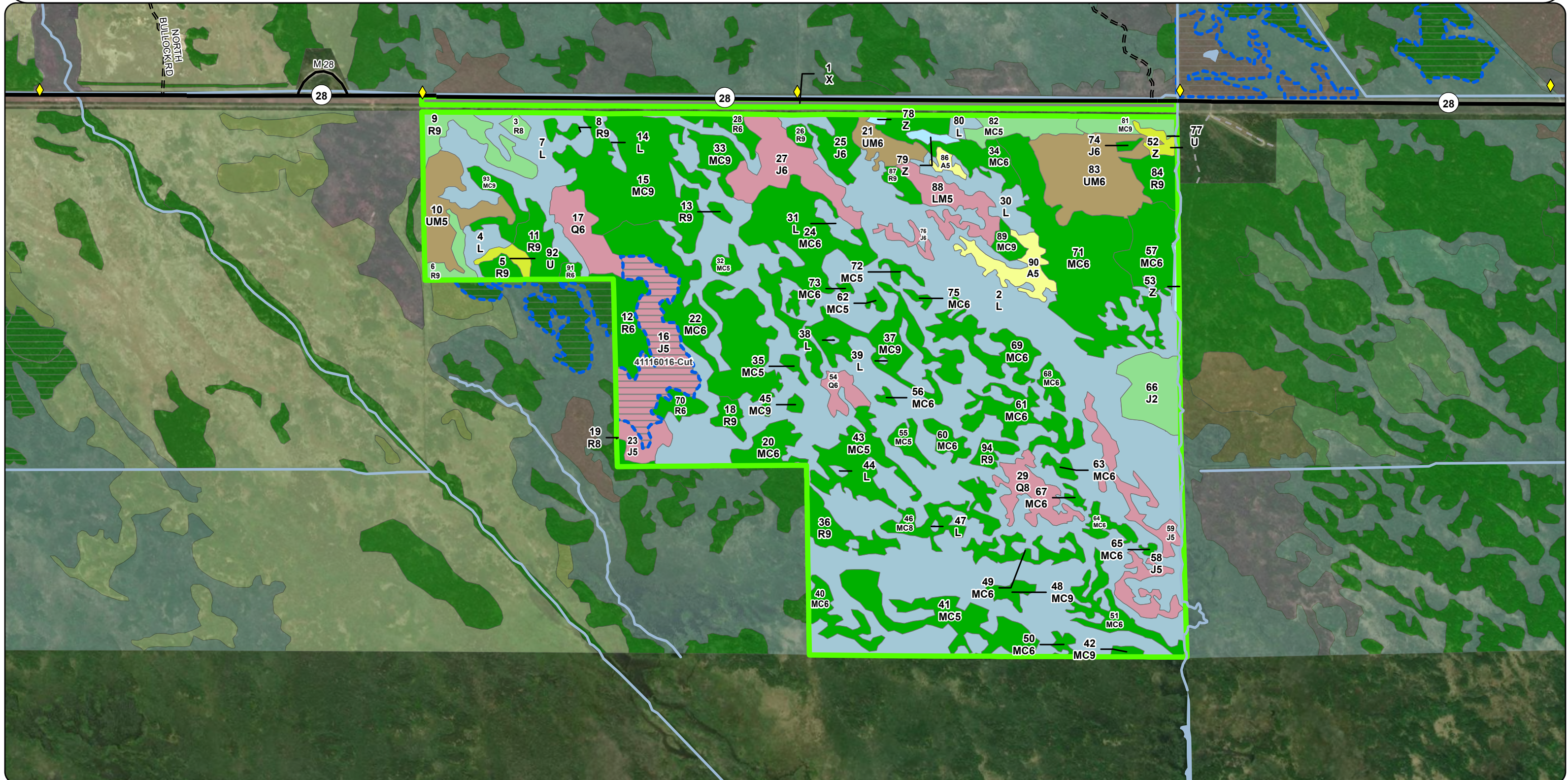
Cover Type & Treatments Map



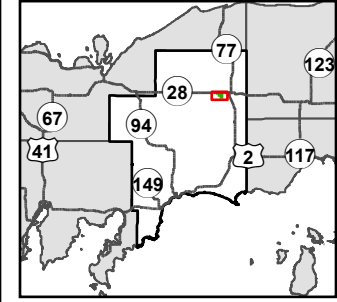
Compartment: 41116
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 Acres: 1,376 GIS Calculated
 Examiner: Sheila Clark
 Date Exported: 2/5/2026
 Map Phase: Post Review



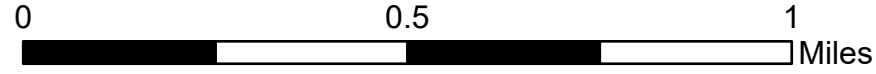
- ◆ Survey Grade Corners
- ▭ Compartment Boundary
- 500 - Water
- === DNR - Forest Access Route
- ▭ Clearcut
- ▭ 612 - Lowland Coniferous Forest
- Federal / State Highway
- ▭ Treatments with Site Conditions
- ▭ 613 - Lowland Mixed Forest
- Federal / State / County - Paved Road
- ▭ 413 - Aspen
- ▭ 122 - Road/Parking Lot
- - - Private - Dirt / Gravel Road
- ▭ 421 - Planted Pines
- ▭ 330 - Low Density Trees
- Streams
- ▭ 422 - Natural Pines
- ▭ 622 - Lowland Shrub
- Lakes and Rivers
- ▭ 430 - Upland Mixed Forest



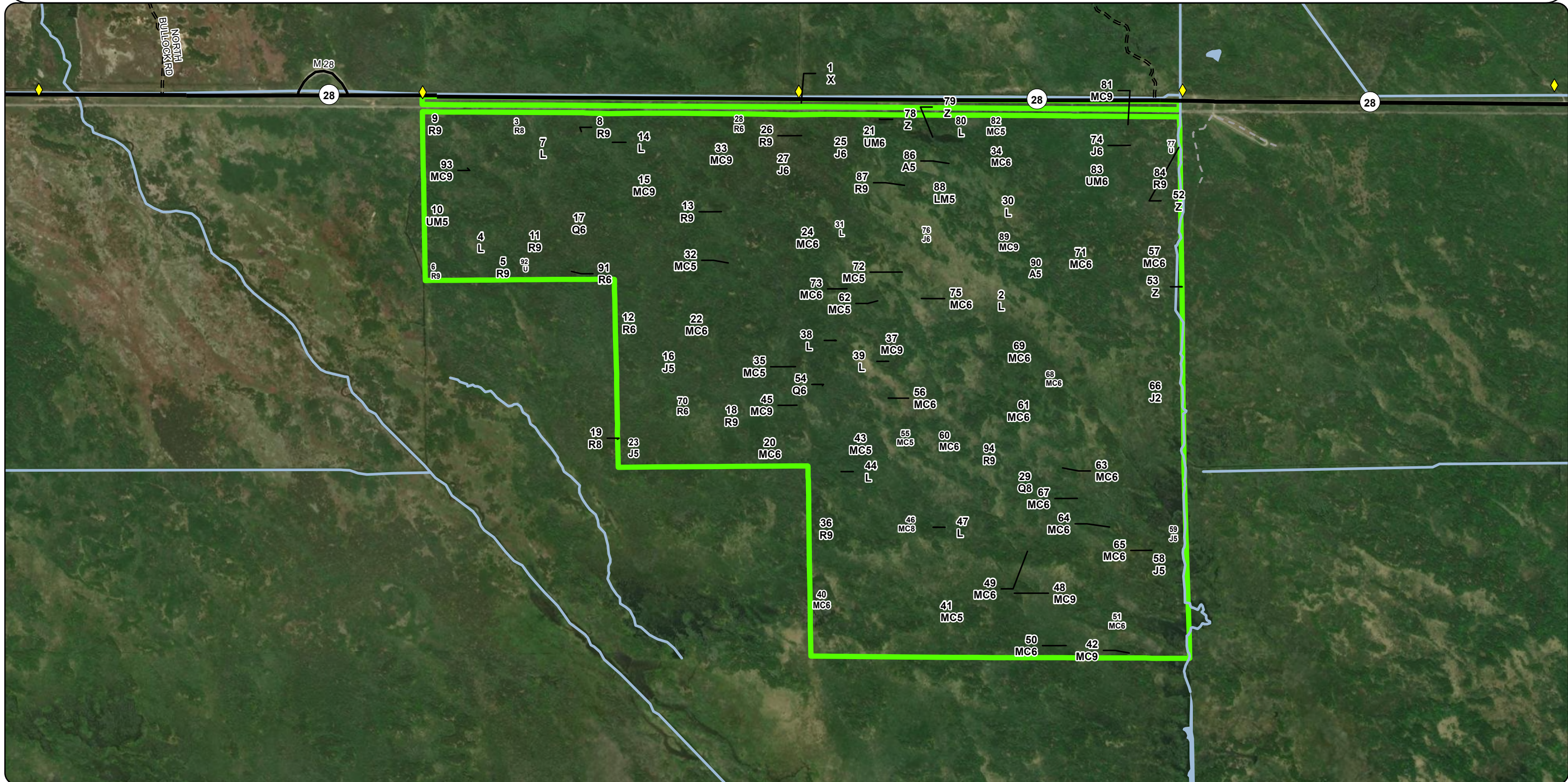
Special Conservation Areas & Site Conditions Map



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- Streams
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class

Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	13
Jack Pine	0	0	0	18	6	0	33	44	12	0	0	0	0	0	0	0	0	0	113
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0	31
Lowland Mixed Forest	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	14
Lowland Shrub	563	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	563
Natural Mixed Pines	0	0	0	0	0	0	0	75	354	0	0	0	0	0	0	0	0	0	429
Planted Mixed Pines	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	17
Red Pine	0	0	0	0	0	0	0	10	84	0	0	0	0	0	0	0	0	0	94
Upland Mixed Forest	0	0	0	29	36	0	0	0	0	0	0	0	0	0	0	0	0	0	64
Urban	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	602	0	0	47	42	0	33	156	498	0	0	0	0	0	0	0	0	0	1377

Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 116
Total Compartment Acres: 1,376

Commercial Harvest -
Harvests with Site Condition - 363
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshory Removal	Salvage	Other	Total Acres
Jack Pine		33	0	0	0	0	0	0	0	0	33
	Total	33	0	0	0	0	0	0	0	0	33

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		33	0	0	0	0	0	0	0	0	33
Next Step		0	66	132	33	0	0	99	0	0	329
	Total	33	66	132	33	0	0	99	0	0	362

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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:

16	41116016-Cut	32.9	6126 - Lowland Jack Pine	5	64	51-80	Harvest	Clearcut	4222 - Natural Jack Pine	Planting Record	No
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Prescription Harvest all merchantable trees, leaving retention on the edge of stand.

Specs:

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Trenched Plant; Planting, Treatments: Unfurrowed; Monitoring, Artificial Regen; Monitoring, Artificial Regen; Planting, Trenched Supplemental Plant; Plan

Acceptable Current species

Regen:

Other

Comment:

Site Condition: Road Needed

Proposed Start Date: 10/01/2026

Total Treatment Acreage Proposed: 32.9

Report 4 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark: Examiner

Compartment: 116
Year of Entry: 2027

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2E	2J
		With Condition	Not Available			
13	0	0	13	Aspen		13
112	0	33	80	Jack Pine	33	80
6	0	0	6	Low-Density Trees		6
31	0	0	31	Lowland Conifers		31
14	0	0	14	Lowland Mixed Forest		14
563	0	0	563	Lowland Shrub		563
428	0	0	429	Natural Mixed Pines		429
17	0	0	17	Planted Mixed Pines		17
93	0	0	93	Red Pine		93
64	0	0	64	Upland Mixed Forest		64
27	27	0	0	Urban		
6	0	0	6	Water		6
1,376	27	33	1,316	Total Forested Acres	33	1,316
	2%	2%	96%	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	2E: Road needed	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Block by Railroad							
2	Unavailable	2J: Blocked by railroad	1,316	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
1	122 - Road/Parking Lot	None	26.8			No	Southern part of M-28 and strip of land between M-28 and the railroad.																																			
		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>Low</td> <td>10 - 20 feet</td> <td>10 - 20 feet</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td>10 - 20 feet</td> <td>10 - 20 feet</td> </tr> </tbody> </table>				Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	10 - 20 feet	10 - 20 feet	Jack Pine	Low	10 - 20 feet	10 - 20 feet																									
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Jack Pine	Low	10 - 20 feet	10 - 20 feet																																							
2	622 - Lowland Shrub	None	496.9			No	This is marshland surrounding red pine ridges. Alder, willow and other tall shrubs scattered throughout. Some scattered trees between islands. Soils = Markey Mucky peat and Deford Muck. If cut pine island may need crane mats to cross these areas.2025 - No change.																																			
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3	42110 - Planted Red Pine	Sawtimber Medium	2.1	78	111-140	N/A	Stand was cut in 1997. The understory is dominated by aspen, there is also an underplanting of red pine in 1998.2025 - Stand is healthy. The red pine in the understory is suppressed, doubt that thinning will release them. Due to the large amount of aspen in the compartment, a quality red pine plantation will be difficult to maintain due to limited access.																																			
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4	6220 - Alder/Willow	None	5.6			No	Mostly low ground with tag alder. Scattered white pine on higher areas with aspen along the edges.																																			
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5	42210 - Natural Red Pine	Sawtimber Well	3.6	77	111-140	N/A	Stand was marked in the past, but never cut. 2025 - Stand is healthy, aspen is starting to encroach. There is an overgrown road into the stand, but will still need road work to get to it through low ground.																																			
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6	42110 - Planted Red Pine	Sawtimber Well	5.5	76	171-200	N/A	Stand was marked, but never cut. Lots of suppressed red pine poles that will not recover.2025 - Not much change. Stand was underplanted, these are suppressed and will not recover if released. It will be difficult to maintain a plantation in this area due to the amount of aspen in the area.																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
8	42210 - Natural Red Pine	Sawtimber Well	2.0	76	81-110	N/A	This stand is visible from M-28. It was thinned last entry. Soil=Deford-AuGres-Rubicon Deep Water Table Complex.2015 - Stands look healthy.2025 - Stand is still healthy. Stand was underplanted 27 years ago by inmates. These trees are suppressed and will likely not respond to thinning. It will be difficult to manage as a red pine plantation due to access issues and aspen encroachment.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		20	Pole/Sapling	6	28	Aspen (spp.)		Medium	>20 feet	>20 feet
White Pine		10	Log	14		Red Pine		Medium	>20 feet	>20 feet
Red Pine		70	Log/Pole	12	76					
9	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	12.3	76	111-140	N/A	Stand was cut in 1997, opening stand for aspen. Stand could be cut if needed.2025 - Stand is still healthy, but they are short. Could thin the stand, but if thin, the stand convert to hardwood. If want to maintain red pine, need to clear cut and plant, but it will always be a mixed stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		20	Pole	8		Red Maple		Medium	5 - 10 feet	5 - 10 feet
White Pine		20	Log	14		Tag Alder		Low	5 - 10 feet	5 - 10 feet
10	4311 - Pine, Aspen Mix	Poletimber Medium	19.6	29	81-110	N/A	Stand was cut in 1997.2025 - Stand is healthy. Not enough volume to harvest. Low ground with tag alder. Trees short.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Sapling	2		Black Cherry		Low	5 - 10 feet	5 - 10 feet
Quaking Aspen		35	Sapling	2	29	Alder		Low	5 - 10 feet	5 - 10 feet
White Pine		30	Log	12						
Red Pine		15	Log/Pole/Sap	12	61					
11	42210 - Natural Red Pine	Sawtimber Well	10.0	66	171-200	N/A	2005 - Previously thinned. Higher ground has blueberry & nice red pine; lower ground has taller shrubs & some red pine looks stressed. Thin with s.21 c119. Soil=Deford-AuGres-Rubicon Deep Water Table Complex.2015 - While this stand was thinned, it is heavily stocked.2025 - Stand is healthy, but the trees are short and on lower ground. It will be difficult to maintain this stand as a red pine stand. Species composition and stocking is quite variable.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		5	Pole	8		Quaking Aspen		Low	5 - 10 feet	5 - 10 feet
Tamarack		10	Pole	6		Red Maple		Low	5 - 10 feet	5 - 10 feet
White Pine		5	Log	14						
Red Pine		75	Log/Pole	12	66					
12	42210 - Natural Red Pine	Poletimber Well	12.6	75	141-170	N/A	2005-Thin with stand 21, c.119. Blueberry on higher ground; mountain holly, wild raisin and other taller shrubs on lower ground. Soil=Deford-AuGres-Rubicon Deep Water Table Complex.2015-A couple of acres to the north was marked to be harvested with stand 21 in compartment 119. TS# 41-004-08-01. However, was never cut.2025= Stand is healthy. If clear cut will become hardwoods.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		20	Log/Pole	12		Aspen (spp.)		Medium	10 - 20 feet	10 - 20 feet
Red Pine		60	Log/Pole	10	75	Red Maple		Medium	10 - 20 feet	10 - 20 feet
13	42210 - Natural Red Pine	Sawtimber Well	1.3	76	141-170	N/A	2025- This is a pine island surrounded by low ground. Stand is healthy, but overstocked. Ready for harvest.			
Canopy Species		% Cover	Size Class	DBH	Age					
Quaking Aspen		5	Pole	6						
White Pine		10	Log/Pole	12						
Red Pine		70	Log/Pole	12	76					
Jack Pine		15	Pole	8						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
14	622 - Lowland Shrub	None	2.3			No	This is a drain with tag alder and scattered white pine logs.																																				
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15	42290 - Natural Mixed Pine	Sawtimber Well	52.2	76	141-170	N/A	The north part of the stand is visible from M-28. The ridges have nice red pine; the lower ground has a mix of red pine, jack pine, white pine and black spruce. Some of the ridges have been previously thinned. Soil=Deford-AuGres-Rubicon Deep Water Table Complex.2015 - There is a heavy understory with logs on the north and poles in the south. The stand has variable stocking, with a small pocket of black spruce.2025- Trees are smaller trees on lower ground. This stand is a mixture of upland and lowland, and is difficult to break out. Trees are mature and ready for harvest.																																				
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16	6126 - Lowland Jack Pine	Poletimber Medium	32.9	64	51-80	N/A	Low ground, seasonally wet. Mountain Holly, wild raisin and other med to tall shrubs. Soil=Carbondale-Lupton-Tawas Mucks.2015 - This is lower ground jack pine and is brushy. 2025 - Stand is mature and ready to cut.																																				
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19	42210 - Natural Red Pine	Sawtimber Medium	1.6	71	111-140	N/A	20205 - Stand is actually two islands of red pine with low ground in the middle. Stand is healthy, but could be thinned to improve spacing.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
20	42290 - Natural Mixed Pine	Poletimber Well	8.9	71	141-170	N/A	Surrounded by marsh; difficult access, though pine ridges were previously thinned. Higher ground with red pine and blueberry; lower ground with aspen, jack pine, white pine and b.spruce and taller shrubs. Soil=Deford-AuGres-Rubicon Deep Water Table Complex.2025 - Stand is healthy. If possible to reach, stand should be thinned.			
Canopy Species		% Cover	Size Class	DBH	Age					
Quaking Aspen		10	Pole	8						
White Pine		15	Log/Pole	12						
Red Pine		50	Log/Pole	12	71					
Jack Pine		25	Pole	8						
21	4311 - Pine, Aspen Mix	Poletimber Well	8.5	27	51-80	N/A	Stand was thinning in 1999. Ridges of red pine with aspen growing underneath. Aspen regeneration heavier in lower ground. Soil = Deford-AuGres-Rubicon Deep Water table Complex and Seney-Deford Complex.2025 - Stand is not ready to be thinned. There is a lot of aspen regeneration, 4 inches in diameter. Will make it difficult to operate. Open areas are low ground.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		50	Pole	8	27	Quaking Aspen		Full	10 - 20 feet	10 - 20 feet
White Pine		10	Log/Pole	14						
Red Pine		40	Log/Pole	14	76					
22	42290 - Natural Mixed Pine	Poletimber Well	48.1	76	111-140	N/A	2025 - This stand has variable stocking and species. Red pine is on the ridges and jack pine on the lower ground. This stand could be harvested.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		5	Pole	6		Red Maple		Medium	5 - 10 feet	5 - 10 feet
Black Spruce		10	Pole	6		Tag Alder		Low	5 - 10 feet	5 - 10 feet
Tamarack		5	Pole	8		Black Spruce		Medium	5 - 10 feet	5 - 10 feet
White Pine		10	Log/Pole	10		Tamarack		Low	5 - 10 feet	5 - 10 feet
Red Pine		30	Log/Pole	10						
Jack Pine		40	Pole	8	76					
23	6126 - Lowland Jack Pine	Poletimber Medium	6.4	36	51-80	N/A		Soil is Deford Muck. Stand is low ground and no activity is needed.2025 - This is a younger stand and is still too young to do any management.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height
Black Spruce		5	Pole/Sapling	6		Tag Alder	Medium		5 - 10 feet	5 - 10 feet
White Pine		5	Pole	8		Black Spruce	Low		5 - 10 feet	5 - 10 feet
Jack Pine		90	Pole/Sapling	6	36					
24	42290 - Natural Mixed Pine	Poletimber Well	40.4	76	141-170	N/A	This stand is surrounded by marsh. On the higher ground is red and white pine. In the lower ground jack pine, tamarack and black spruce.2025. Stand is variable. Should be harvested. Trees are short. Jack pine's Still healthy.			
Canopy Species		% Cover	Size Class	DBH	Age					
Black Spruce		5	Pole/Sapling	6						
Tamarack		5	Pole	8						
White Pine		15	Log	16						
Red Pine		25	Log/Pole	12						
Jack Pine		50	Pole	8	76					
25	42220 - Natural Jack Pine	Poletimber Well	9.1	58	111-140	N/A	2025 - Stand is mature, not dying , healthy. This could be held for 10 more years, if need to break up harvests.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		5	Pole	8		Black Spruce		Medium	5 - 10 feet	5 - 10 feet
Red Pine		5	Log/Pole	10		Red Maple		Medium	5 - 10 feet	5 - 10 feet
Jack Pine		90	Pole	8	58					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
26	42210 - Natural Red Pine	Sawtimber Well	2.0	76	171-200	N/A	Ridge with red pine; visible from M-28. Soil is Carbondale-Lupton-Tawas Mucks.2025 - Stand is healthy and can be harvested or left. If thinned more aspen will come in the understory.																																
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27	6126 - Lowland Jack Pine	Poletimber Well	23.5	58	51-80	N/A	2025 - Trees are small. Jack pine is starting to die. Stand can be harvested.																																
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28	42210 - Natural Red Pine	Poletimber Well	5.3	71	171-200	N/A	2025 - Stand is healthy. Ready to cut.																																
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29	6127 - Lowland Pine	Sawtimber Medium	12.3	71	111-140	N/A	Narrow, flat ridge in large marsh; difficult access. Lower ground has more jack pine, red pine and aspen and taller shrubs. If it becomes possible to harvest here, remove all trees. Soil=Deford-AuGres-Rubicon Deep Water Table Complex.2025 - As with previous inventories, the stand is ready to be harvested, however, access will be challenging.																																
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31	622 - Lowland Shrub	None	3.5			No																																	
32	42290 - Natural Mixed Pine	Poletimber Medium	2.6	76	81-110	N/A	Pine island surrounded by marsh. Soil is Deford-AuGres-Rubicon Deep Water Table Complex.2025 - As with other stands, this area can be harvested if accessible.																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
33	42290 - Natural Mixed Pine	Sawtimber Well	7.6	76	141-170	N/A	The north part of the stand is visible from M-28. The ridges have nice red pine; the lower ground has a mix of red pine, jack pine, white pine and b.spruce. Some of the ridges have been previously thinned. 98=jack pine & b.spruce Soil=Deford-AuGres-Rubicon Deep Water Table Complex.2015 - There is a heavy understory with logs on the north and poles in the south. The stand has variable stocking, with a small pocket of black spruce.2025. Stand is ready for harvest. Jack pine is healthy, but mature.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		10	Pole	6		Red Maple		Low	5 - 10 feet	5 - 10 feet	
Tamarack		5	Pole	8		Black Spruce		Low	5 - 10 feet	5 - 10 feet	
White Pine		10	Log/Pole	12							
Red Pine		20	Log/Pole	14							
Jack Pine		55	Pole	8	76						
34	42290 - Natural Mixed Pine	Poletimber Well	15.3	76	81-110	N/A	2025 -The stand was harvested in 1997. Red pine is on the ridges, the other species are more abundant on the low ground. The understory is fully stocked and will be difficult to spray due to low ground in the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		10	Pole	8		Red Maple		Medium	10 - 20 feet	10 - 20 feet	
Black Spruce		5	Pole/Sapling	6		Quaking Aspen		Medium	10 - 20 feet	10 - 20 feet	
White Pine		5	Log	14		Black Spruce		Low	5 - 10 feet	5 - 10 feet	
Red Pine		50	Log/Pole	12	76						
Jack Pine		30	Pole	8							
35	42290 - Natural Mixed Pine	Poletimber Medium	1.6	76	81-110	N/A	2025 - Pine ridge surrounded by marsh.				
Canopy Species		% Cover	Size Class	DBH	Age						
Quaking Aspen		10	Pole/Sapling	6							
White Pine		10	Log/Pole	12							
Red Pine		50	Log/Pole	10	76						
Jack Pine		30	Pole	6							
36	42210 - Natural Red Pine	Sawtimber Well	9.8	76	141-170	N/A	2025 - Looks healthy. Jack pine is mature and starting to die.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		15	Pole	8		Quaking Aspen		Low	5 - 10 feet	5 - 10 feet	
White Pine		5	Log	10		Red Maple		Low	5 - 10 feet	5 - 10 feet	
Red Pine		70	Log/Pole	12	76	White Pine		Low	5 - 10 feet	5 - 10 feet	
Jack Pine		10	Pole	6							
37	42290 - Natural Mixed Pine	Sawtimber Well	23.3	71	141-170	N/A	Red pine log ridge surrounded by marsh. Soil = Deford-AuGres-Rubicon Deep Water Table Complex. PARV2025 -Jack pine is mature and starting to die. Stocking is variable and there is low ground throughout.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		20	Pole	8		Quaking Aspen		Low	5 - 10 feet	5 - 10 feet	
White Pine		10	Log	14		Red Maple		Low	5 - 10 feet	5 - 10 feet	
Red Pine		50	Log/Pole	10	71	White Pine		Low	5 - 10 feet	5 - 10 feet	
Jack Pine		20	Pole	8							
38	622 - Lowland Shrub	None	0.3			No					
Sub-Canopy Species		Density	Avg. Height	Size							
Tag Alder		Medium	5 - 10 feet	5 - 10 feet							
Quaking Aspen		Low	5 - 10 feet	5 - 10 feet							

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
39	622 - Lowland Shrub	None	0.2			No																																														
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40	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	8.3	71	141-170	N/A	Pine ridge surrounded by swamp. Soil = Deford-AuGres-Rubicon-Deep Water Table Complex PARV2025 - Looking at photos it looks like stand is dying due to high water levels. Very difficult to access.																																													
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43	42290 - Natural Mixed Pine	Poletimber Medium	18.6	71	111-140	N/A	2025 - Pine ridge surrounded by marsh. Jack pine and aspen are younger. Red pine looks good. Soil is Deford-AuGres-Rubicon-Deep Water Table Complex PARV.																																													
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45	42290 - Natural Mixed Pine	Sawtimber Well	1.1	71	141-170	N/A	Small pine island surrounded by marsh. Soil is Deford Muck. Higher ground with red pine, white pine and blueberry; lower ground with jack pine, aspen and tag alder.2025 - Stand is healthy, however due to size and location, harvest will be difficult.																														
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50	42290 - Natural Mixed Pine	Poletimber Well	1.8	71	141-170	N/A	Small pine island surrounded by marsh. Soil =Deford Muck. Higher ground with red pine, white pine and blueberry; lower ground with jack pine, aspen and tag alder.2025 - Stand is healthy, jack pine is mature and should be harvested if accessible.																														
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52	500 - Water	None	0.6			No	Part of Clark's Ditch.																																						
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54	6127 - Lowland Pine	Poletimber Well	5.3	71	141-170	N/A	2025 - Lower than surrounding pine ridges, predominately jack pine. Jack pine is mature and will start to decline.																																						
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55	42290 - Natural Mixed Pine	Poletimber Medium	3.9	71	111-140	N/A	Pine ridge surrounded by swamp. Higher ground has red pine and blueberry; the lower ground has more jack pine, aspen and shrubs. Soil = Deford-AuGres-Rubicon-Deep Water Table Complex PARV.2025 - Stand is healthy, jack pine is mature.																																						
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56	42290 - Natural Mixed Pine	Poletimber Well	1.0	71	141-170	N/A	Pine ridge surrounded by swamp. Higher ground has red pine and blueberry; the lower ground has more jack pine, aspen and shrubs. Soil = Deford-AuGres-Rubicon-Deep Water Table Complex PARV.2025 - Stand is healthy, but mature.																																						
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57	42290 - Natural Mixed Pine	Poletimber Well	19.8	64	141-170	N/A	This is a variable stand with red pine logs and saplings. The jack pine varies in age from 5 sticks to 2 sticks. The red pine is on the higher ground and the jack pine in the low ground.2025 - This stand could be harvested, but it is healthy, jack pine is not dying yet.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
58	6126 - Lowland Jack Pine	Poletimber Medium	7.9	61	141-170	N/A	Small low, ridge in marsh, difficult to access. Flat, low ground frequently flooded due to beavers; areas of dead trees. Soil = Deford-AuGres-Rubicon-Deep Water Table Complex PARV.2025 - No change.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		25	Pole	8		Quaking Aspen		
Red Pine		25	Log/Pole	10		Density		
Jack Pine		50	Pole	8	61	Avg. Height		
						Size		
59	6126 - Lowland Jack Pine	Poletimber Medium	11.3	71	111-140	N/A	Flat, low ridge in large marsh frequently flooded due to beavers; areas of dead trees.2025 - No change.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		25	Pole	8				
Red Pine		25	Log/Pole	10				
Jack Pine		50	Pole	8	71			
60	42290 - Natural Mixed Pine	Poletimber Well	4.3	71	141-170	N/A	Narrow, flat ridge in large marsh; difficult access. Lower ground has more jack pine and aspen and taller shrubs. If it becomes possible to harvest here, remove all trees. Soil=Deford-AuGres-Rubicon Deep Water Table Complex2025 - Drains are throughout the stand, increasing difficulty to harvest. If possible either seed tree or shelterwood.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		15	Pole	8		Quaking Aspen		
White Pine		10	Log	14		Density		
Red Pine		50	Log/Pole	14	71	Avg. Height		
Jack Pine		25	Pole	8		Size		
61	42290 - Natural Mixed Pine	Poletimber Well	15.1	71	141-170	N/A	Narrow, flat ridge in large marsh; difficult access. Lower ground has more jack pine and aspen and taller shrubs. If it becomes possible to harvest here, remove all trees. Soil=Deford-AuGres-Rubicon Deep Water Table Complex2025 Stand is mature. Drains are around stand, which will make the stand difficult to harvest.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		20	Pole	8				
White Pine		5	Log	14				
Red Pine		50	Log/Pole	14	71			
Jack Pine		25	Pole	8				
62	42290 - Natural Mixed Pine	Poletimber Medium	1.4	71	111-140	N/A	Ridge in marsh; very difficult access. Higher ground has red pine and blueberry; the lower ground has more jack pine, aspen and tall shrubs. This stand is prescribed at this time so that it can be harvested in conjunction with the factor limited jack pine stands to the south. Soil=Deford-AuGres-Rubicon Deep Water Table Complex PARV.2025 - Stand is healthy, but mature. If possible harvest stand.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		20	Pole	8				
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Jack Pine		25	Pole	8				
63	42290 - Natural Mixed Pine	Poletimber Well	2.1	71	141-170	N/A	Ridge in marsh; very difficult access. Higher ground has red pine and blueberry; the lower ground has more jack pine, aspen and tall shrubs. This stand is prescribed at this time so that it can be harvested in conjunction with the factor limited jack pine stands to the south. Soil=Deford-AuGres-Rubicon Deep Water Table Complex PARV2025 - Stand is healthy, but mature. If accessible, harvest.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		20	Pole	8		Quaking Aspen		
White Pine		5	Log	14		Density		
Red Pine		50	Log/Pole	10	71	Avg. Height		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
64	42290 - Natural Mixed Pine	Poletimber Well	3.9	71	141-170	N/A	Ridge in marsh; very difficult access. Higher ground has red pine and blueberry; the lower ground has more jack pine, aspen and tall shrubs. This stand is prescribed at this time so that it can be harvested in conjunction with the factor limited jack pine stands to the south. Soil=Deford-AuGres-Rubicon Deep Water Table Complex PARV2025 - Stand is healthy, but mature. Jack pine will start to decline if not harvested soon, however, access will be difficult.																																					
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66	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	17.6	26	Immature	N/A	Counts by TMS indicate that this stand is regenerating and no additional work is necessary. Soil=Deford Muck & Deford-AuGres-Rubicon Deep Water Table Complex. Count 673.2025 - Stand is healthy, no issues.																																					
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67	42290 - Natural Mixed Pine	Poletimber Well	1.1	71	141-170	N/A	Ridge in marsh; very difficult access. Higher ground has red pine and blueberry; the lower ground has more jack pine, aspen and tall shrubs. This stand is prescribed at this time so that it can be harvested in conjunction with the factor limited jack pine stands to the south. Soil=Deford-AuGres-Rubicon Deep Water Table Complex PARV2025 - No change. Stand is mature and should be harvested, however, access will be difficult.																																					
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68	42290 - Natural Mixed Pine	Poletimber Well	3.6	71	141-170	N/A	Ridge in marsh; very difficult access. Higher ground has red pine and blueberry; the lower ground has more jack pine, aspen and tall shrubs. This stand is prescribed at this time so that it can be harvested in conjunction with the factor limited jack pine stands to the south. Soil=Deford-AuGres-Rubicon Deep Water Table Complex PARV2025 - Stand is healthy. Jack pine is mature. If able to access stand should be harvested.																																					
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69	42290 - Natural Mixed Pine	Poletimber Well	13.8	71	141-170	N/A	Ridge in marsh; very difficult access. Higher ground has red pine and blueberry; the lower ground has more jack pine, aspen and tall shrubs. This stand is prescribed at this time so that it can be harvested in conjunction with the factor limited jack pine stands to the south. Soil=Deford-AuGres-Rubicon Deep Water Table Complex PARV2025 - Stand is ready for harvest. Jack pine is at it's max and will start to decline. If possible to access, harvest.																																					
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70	42210 - Natural Red Pine	Poletimber Well	4.7	71	141-170	N/A	Higher ground with red pine, white pine and blueberry; lower ground with jack pine, b.spruce, aspen and taller shrubs. Soil=Deford-AuGres-Rubicon Deep Water Table Complex 35=white pine and jack pine2025 Stand is healthy, but is mature. Harvest if accessible.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		10	Pole/Sapling	6		Quaking Aspen		
Black Spruce		5	Pole	6		Red Maple		
White Pine		10	Log	14		Density		
Red Pine		60	Log/Pole	12	71	Avg. Height		
Jack Pine		15	Pole	6		Size		
71	42290 - Natural Mixed Pine	Poletimber Well	54.1	65	141-170	N/A	Mainly Jack Pine, with Aspen on the flatter areas, and Red Pine on the ridges. Soil=Deford-AuGres-Rubicon Deep Water Table Complex PARV2025 - Aspen is overmature. Jack pine is mature. Not as old as surrounding stands. There are seasonal drains, and low ground throughout the stand. No definable drains, just sheet flow.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		10	Pole	6				
Black Spruce		5	Pole	6				
White Pine		5	Log	14				
Red Pine		30	Log/Pole	12				
Jack Pine		50	Pole	8	65			
72	42290 - Natural Mixed Pine	Poletimber Medium	2.0	71	81-110	N/A	Ridge in marsh; very difficult access. Higher ground has red pine and blueberry; the lower ground has more jack pine, aspen and tall shrubs. This stand is prescribed at this time so that it can be harvested in conjunction with the factor limited jack pine stands to the south. Soil=Deford-AuGres-Rubicon Deep Water Table Complex PARV2025 - Stand is healthy, but mature. Harvest if accessible.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		25	Pole	8				
White Pine		10	Log	14				
Red Pine		40	Log/Pole	10	71			
Jack Pine		25	Pole	8				
73	42290 - Natural Mixed Pine	Poletimber Well	0.7	71	141-170	N/A	2025 - Stand is healthy. Small pine island surrounded by low ground. Access will be difficult. If possible, thin stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		10	Pole	6		Black Spruce		
Black Spruce		10	Pole	8		Aspen (spp.)		
Red Pine		45	Log/Pole	10	71	Density		
Jack Pine		35	Pole	6	71	Avg. Height		
74	42220 - Natural Jack Pine	Poletimber Well	0.9	76	111-140	N/A	Jack pine is starting to get old. Assume this was a pocket left from previous harvest. No mention of long term retention, so could be harvested with surrounding stands.2025 - Small stand. Trees are mature. Harvest with Stand 81.	
Canopy Species		% Cover	Size Class	DBH	Age			
Quaking Aspen		10	Pole/Sapling	6				
Red Pine		15	Log/Pole	10				
Jack Pine		75	Pole	8	76			
75	42290 - Natural Mixed Pine	Poletimber Well	1.1	66	141-170	N/A	Ridge in marsh; very difficult access. Higher ground has red pine and blueberry; the lower ground has more jack pine, aspen and tall shrubs. Soil=Deford-AuGres-Rubicon Deep Water Table Complex PARV.2025 - Stand is mature and ready to be harvested, however access will be difficult.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		20	Pole	6		Black Spruce		
White Pine		10	Log	14		Density		
Red Pine		40	Pole	8	66	Avg. Height		
Jack Pine		30	Pole	6	66	Size		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
76	6126 - Lowland Jack Pine	Poletimber Well	2.8	66	141-170	N/A	Narrow, flat, low ridge in large marsh; difficult access. Soil=Markey Mucky Peat.2025 - Stand is healthy but mature. Harvest if possible to access.																																																		
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77	330 - Low-Density Trees	None	2.9			No	Soil=Deford-AuGres-Rubicon Deep Water Table Complex. PARV.2025 - This stand was originally part of a red pine stand that was cut 20 years ago. This is low ground that will not support a full stocked stand.																																																		
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80	622 - Lowland Shrub	None	2.4			No	Low tag alder stand with aspen starting to grown in through the edges.																																																		
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81	42140 - Planted Mixed Pine	Sawtimber Well	6.7	76	141-170	N/A	Thinned in 1999. Along M-28, next to Clark Ditch. Red pine was hand planted with inmates in 2002. Soil=Deford-AuGres-Rubicon Deep Water Table Complex. PARV2025- Healthy. Stand is almost a two aged stand.																																																		
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82	42140 - Planted Mixed Pine	Poletimber Medium	10.2	76	51-80	N/A	Along M-28. Cut in 1999. Ridges with more red pine, flat areas with more aspen regen. Soil=Deford-AuGres-Rubicon Deep Water Table Complex and Seney-Deford Complex.2025 - Stand is healthy, and is not ready for a harvest. The understory is full of aspen.																																																		
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83	4311 - Pine, Aspen Mix	Poletimber Well	35.9	37	81-110	N/A	Cut in 1989. Variable density & species; stand includes small areas of jack pine and openings. Soil=Seney-Deford Complex. PARVAa.2025 Trees growing well. No activity at this time.																																					
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84	42210 - Natural Red Pine	Sawtimber Well	8.3	78	141-170	N/A	Thinned in 1999. Along M-28, next to Clark Ditch. Red pine was hand planted with inmates in 2002. Soil=Deford-AuGres-Rubicon Deep Water Table Complex. PARV.2025 - Stand is healthy, but the trees are short. Could be cut or left. However, aspen will continue to take over understory.																																					
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86	4133 - Aspen, Mixed Pine	Poletimber Medium	2.2	61	81-110	N/A	2025 - Stand is healthy.																																					
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87	42210 - Natural Red Pine	Sawtimber Well	3.4	76	141-170	N/A	Small knoll with red pine, lots of poles. Aspen on lower ground around edges. Soil=Deford-AuGres-Rubicon Deep Water Table Complex. PARV.2025- Stand is healthy and could be cut. Aspen is mature and will start to decline between now and next entry.																																					
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88	6139 - Mixed Lowland Forest	Poletimber Medium	13.6	61	81-110	N/A	This is an open grown aspen stand with a variety of ages and stocking. The edges are starting to fill in with aspen. There are pockets of tag alder on the lower ground. No activity.2025 - This stand is approximately half upland and half lowland. The aspen is mature, but the stocking levels are variable. Could harvest if in the area.																																					
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89	42290 - Natural Mixed Pine	Sawtimber Well	3.5	76	111-140	N/A	2025 - Could harvest. Aspen is mature and the jack pine is healthy. Stand could be cut.																																					
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90	4133 - Aspen, Mixed Pine	Poletimber Medium	11.1	61	81-110	N/A	Slightly higher ground than surrounding ground. Aspen starting to fill in edges.2025 - Aspen is mature. Drain on east side. Cut aspen and thin pine.																																									
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91	42210 - Natural Red Pine	Poletimber Well	1.5	75	141-170	N/A	2005-Thin with stand 21, c.119. Blueberry on higher ground; mountain holly, wild raisin and other taller shrubs on lower ground. Soil=Deford-AuGres-Rubicon Deep Water Table Complex.2015-A couple of acres to the north was marked to be harvested with stand 21 in compartment 119. TS# 41-004-08-01. However, was never cut.2025 - Stand is healthy. If clear cut will become hardwoods.																																									
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94	42210 - Natural Red Pine	Sawtimber Well	3.6	71	171-200	N/A	Surrounded by marsh; difficult access. Higher ground with red pine, white pine and blueberry; lower ground with jack pine, aspen and taller shrubs. Soil=Deford-AuGres-Rubicon Deep Water Table Complex.2025 - Stand is healthy, not overmature. It looks like it might have been underplanted, but the trees are suppressed. Stand could be thinned, however, aspen will come in the understory.																																									
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