



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41142

Entry Year 2022

Acreage: 2,385

County Alger

Management Area: Danaher Kingston Outwash

Revision Date: 2020-05-13

Stand Examiner: Mario Molin

Legal Description:

48N 15W Sections: 19 20 28 29 30

Identified Planning Goals:

To manage for Wildlife, timber, and natural history while providing recreational opportunities to the public.

Soil and topography:

Rolling to flat Outwash Transition, Kingston Outwash

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

Corporate lands to North, West, and South

Unique Natural Features:

Pine stump reservoir in parts. Loon (*Gavia immer*, state threatened) have been recorded nesting in nearby Nevin's Lake and Nugent Lake.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Fisheries Values - None.

Wildlife Habitat Considerations:

Compartment 142 lies within eastern Alger county in the Grand Marais Sandy End Moraine and Outwash ecological sub-section and is a part of the Danaher Kingston Outwash Management area with eastern bluebird, Kirtland's warbler, red crossbill, sharptailed-grouse, spruce grouse and upland sandpiper as featured species. It is characterized by a growing season of less than 100 days with winter temperatures lows of -40 degrees F. Average annual snowfall can exceed 200 inches.

Pre-settlement conditions in this area were dominated by an upland mix of northern hardwood and conifers. Species included hemlock, white pine, sugar maple, red maple, beech, yellow birch, white birch, spruce (probably white spruce) and fir. After the initial wave of logging removed the timber circa 1900, hot slash fires swept across this compartment consuming not only the residual wood, but also the organic matter in the soil. The combination of logging and slash fires produced large open plains with sand soils. Today, this compartment is dominated by hardwood and white pine (similar in species composition as the pre-settlement forest) in the west and south. Pine plantations and upland openings cover the north, central and eastern portion. The upland openings contain many old stumps that reflect the natural history of this area.

Wildlife habitat management objectives include maintaining the large opening complexes for open-land species and historical purposes. The hardwood and white pine stands will be managed to encourage species diversity that reflects pre-settlement conditions. Other wildlife priorities include management of large blocks of jack pine forest for early successional wildlife, managing mixed pine, red, and white pine stands for mature seed-bearing trees, ensuring connectivity and structure in older jack pine stands and lowland conifer stands and encouraging structural diversity in hardwood stands. Other wildlife species of interest include merlin, sandhill cranes, marten and the common loon.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Cambrian Trempealeau and Ordovician Prairie du Chien (PdC) subcrop below the glacial drift. The Trempealeau and PdC could be used for stone. There are not any gravel pits in the area. There appears to be limited gravel potential on State lands.

Vehicle Access:

Many trails. County Road H-58

Survey Needs:

May need survey work on southern end of compartment.

Recreational Facilities and Opportunities:

The main snowmobile trail to Grand Marais runs through the compartment. There is a lot of dispersed camping activity at Fred's Pond. There is an information center at the junction of H-58 and the Adams Trail. Being the main route through Pictured Rocks National Lakeshore, there is a lot of recreational automobile traffic in the snow-free months.

Fire Protection:**Additional Compartment Information:**

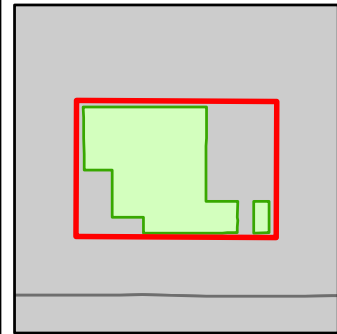
The following reports from the Inventory are attached:

- 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:

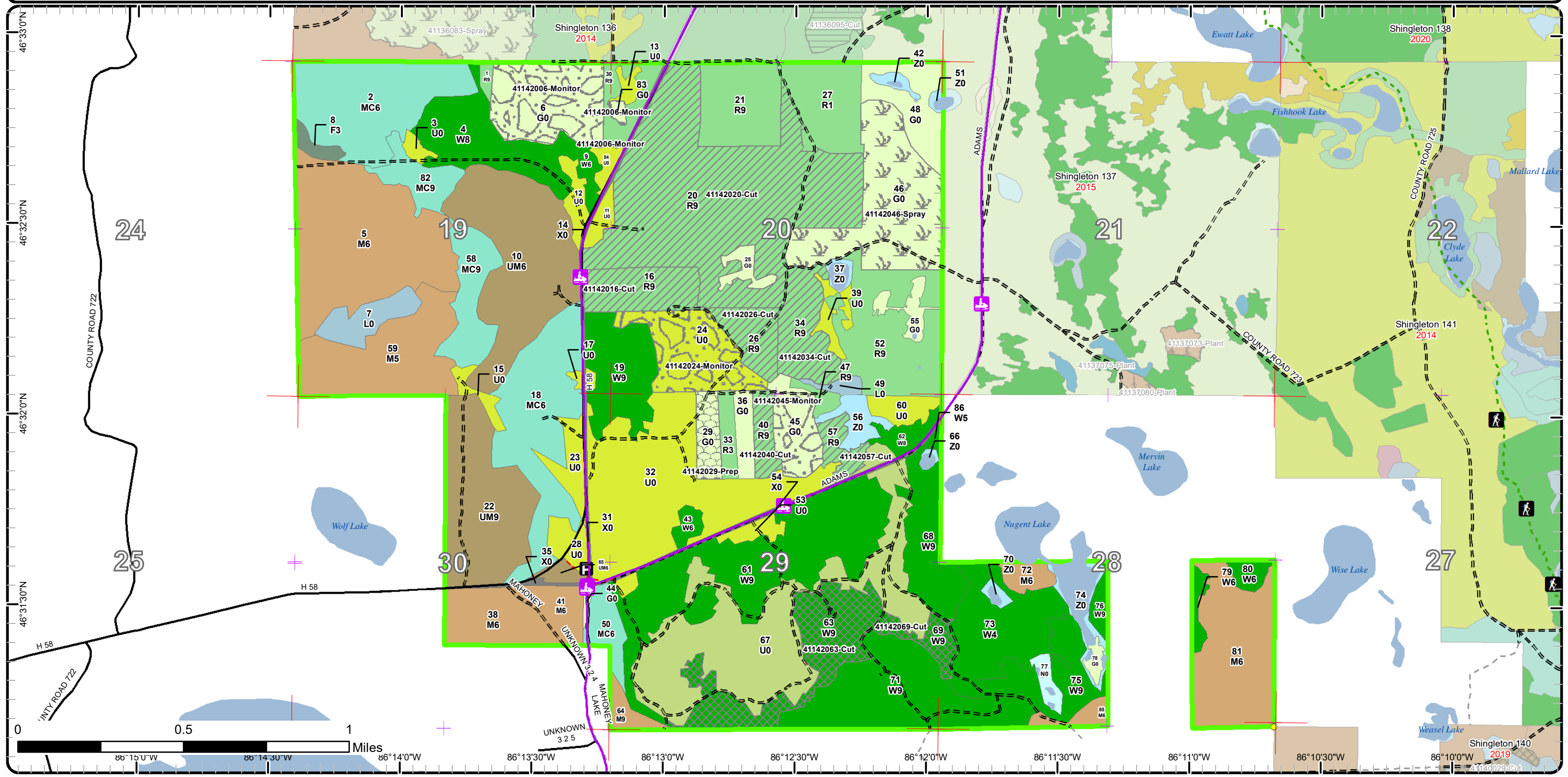
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



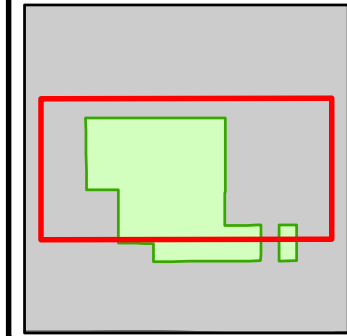
Compartment: 142
 T48N, R15W, Sec. 19, 20, 28-30
 County: Alger
 Unit: Shingleton
 Mgmt Area: Danaher Kingston
 Outwash
 YOE: 2022
 Acres: 2,385 GIS Calculated
 Examiner: Mario Molin
 Map Revised: 8/25/2020
 Map Phase: Web Post

- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- - - County - Gravel Road
- - - Private - Dirt / Gravel Road
- 🚙 Snowmobile Trails
- 🚶 Designated Hiking Trails
- 🚶 Designated Snowmobile Trails
- 🅓 Parking Lot
- Lake/Pond
- Lakes and Rivers
- ▭ Compartment Boundary
- ▭ Pesticide
- ▭ Selection (Group, Single Tree)
- ▭ Thinning (Crown, Low, Systematic)
- ▭ Regeneration Survey
- ▭ Site Prep
- 411 - Northern Hardwood
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

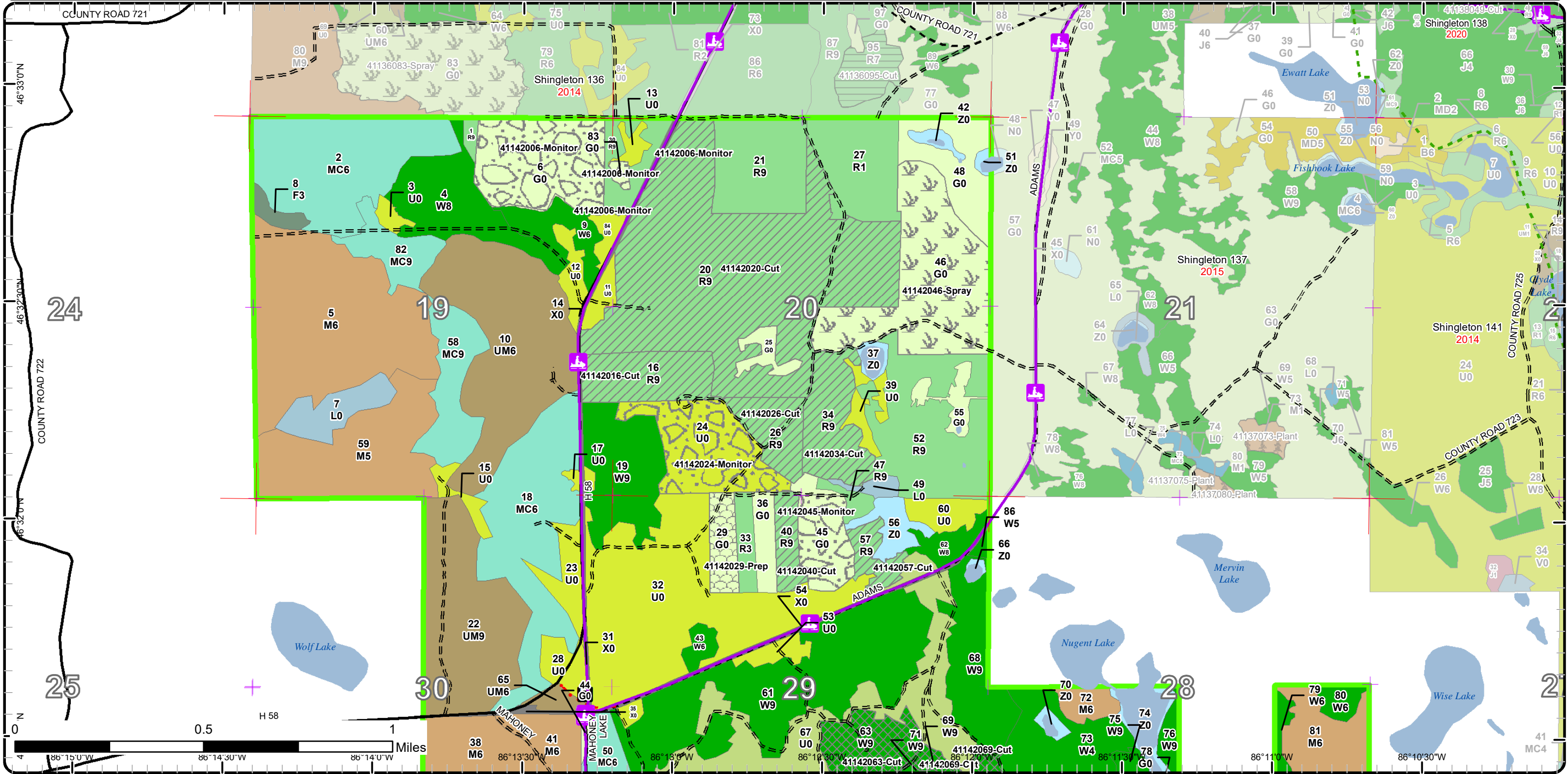


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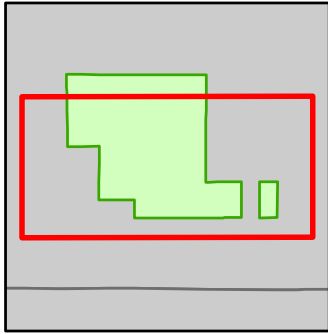


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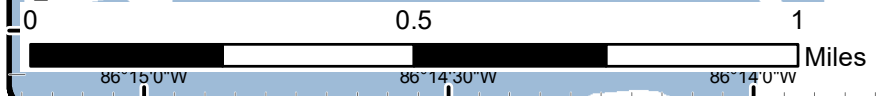
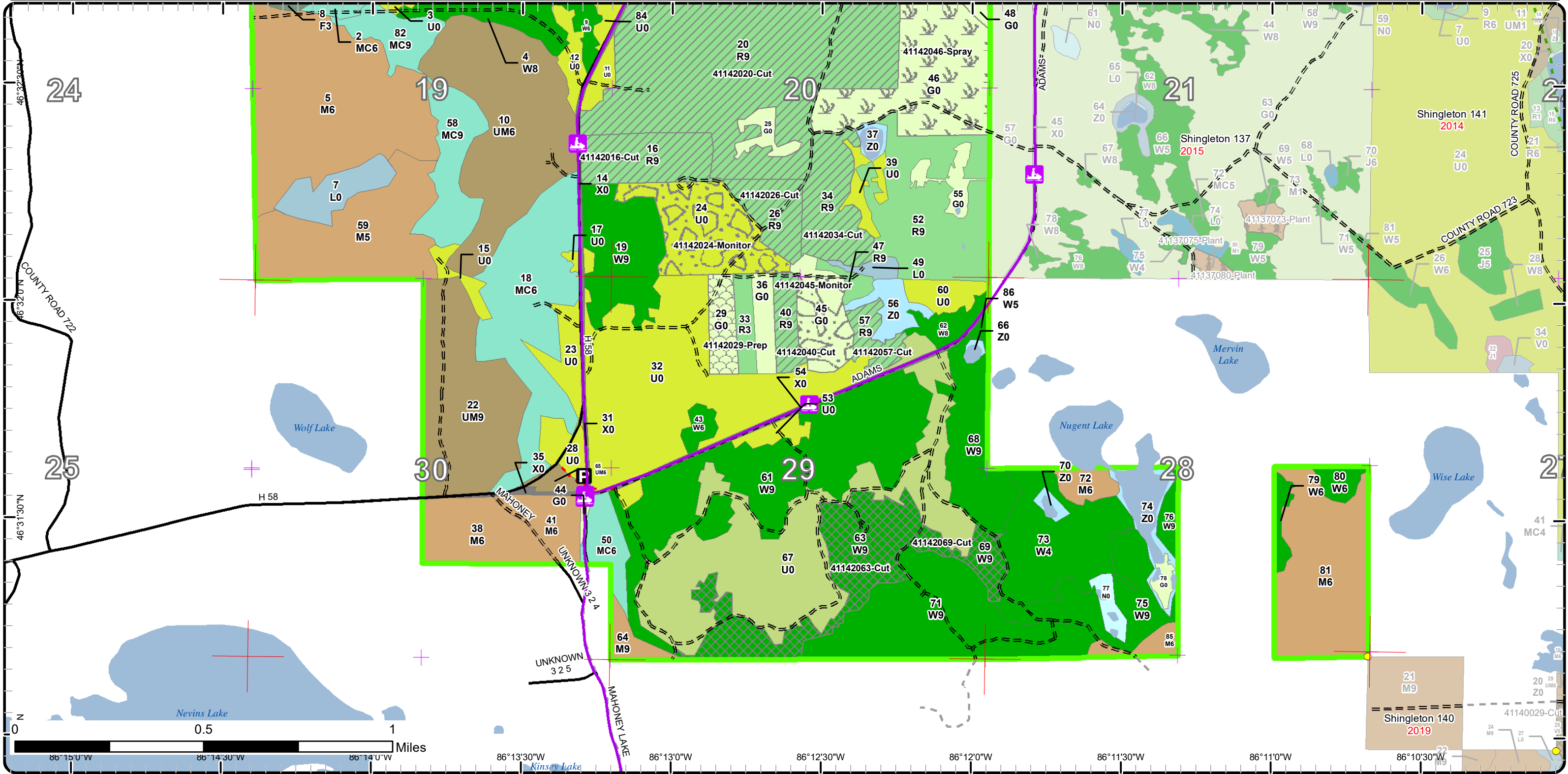


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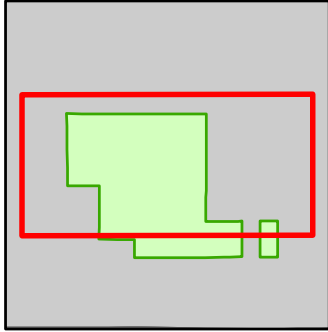


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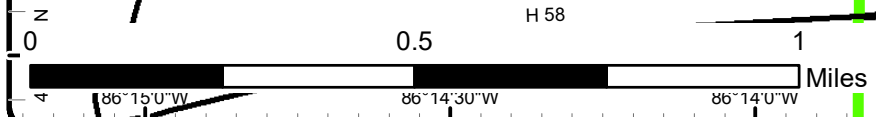
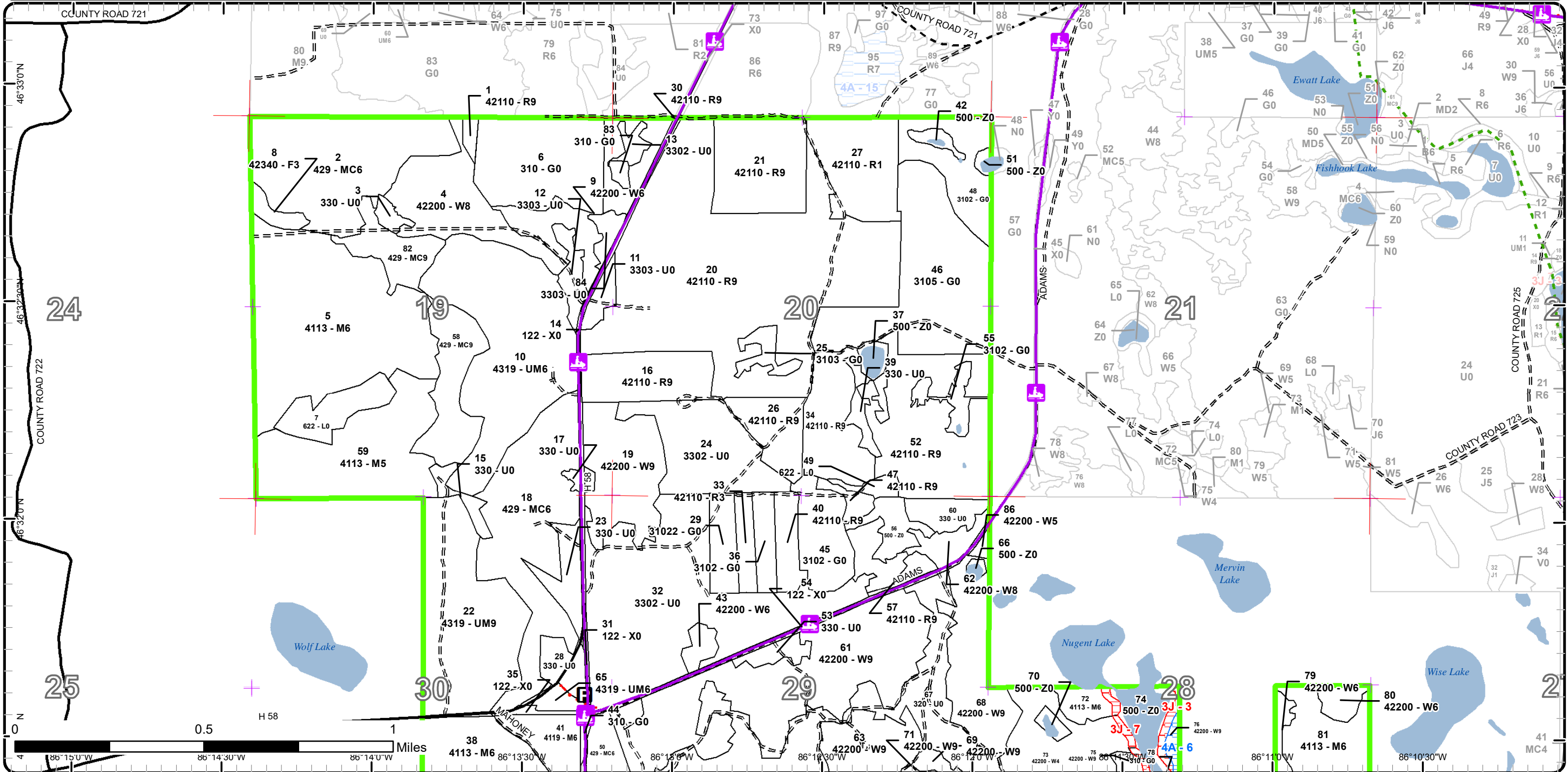


Special Conservation Areas

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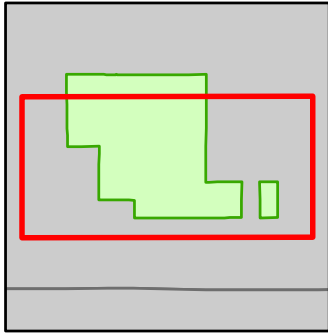


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- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries

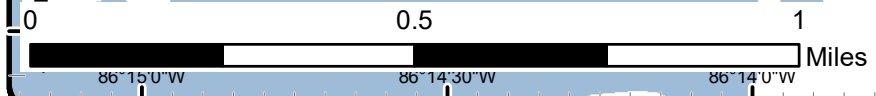
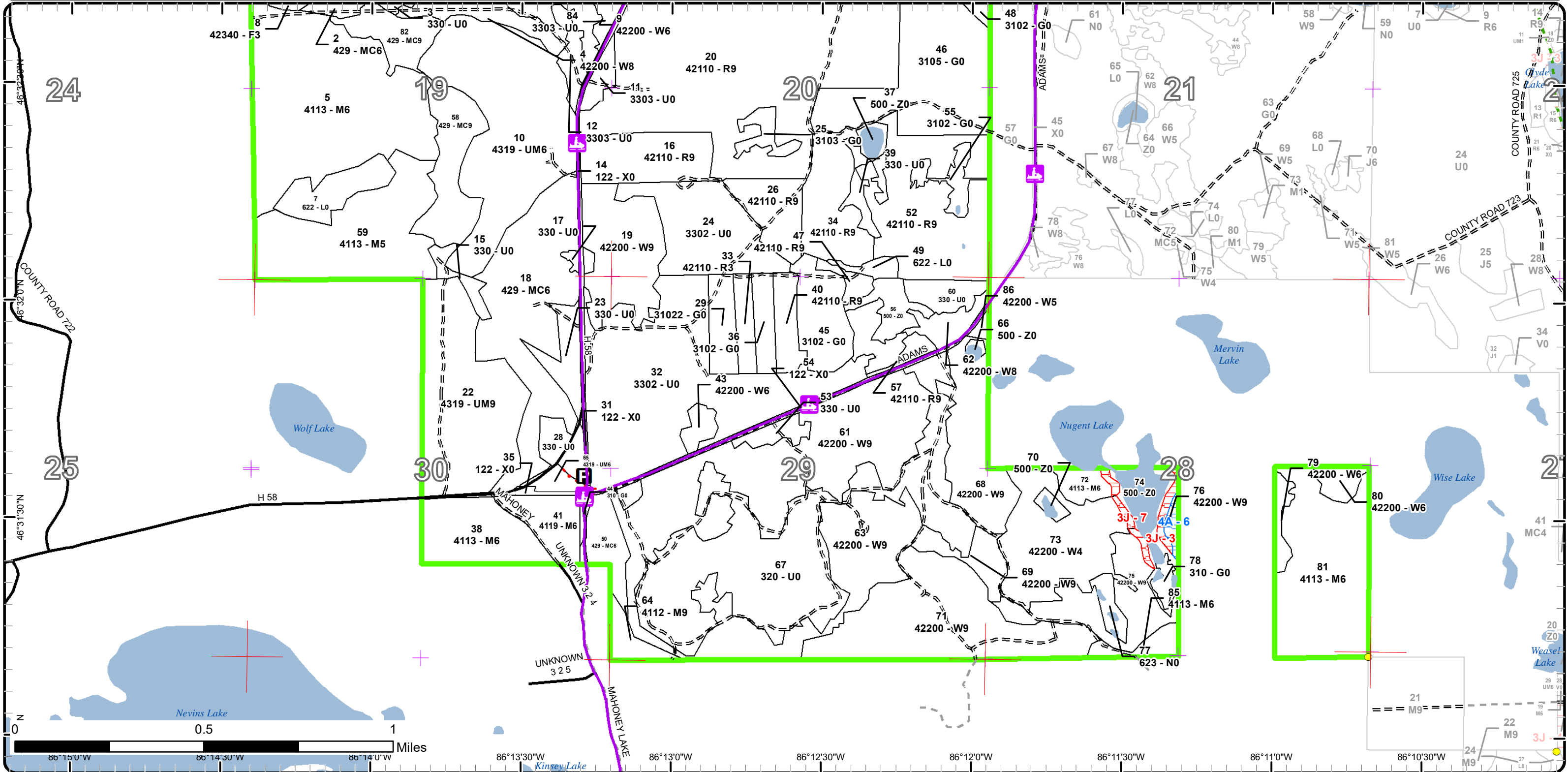


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Report 1 – Total Acres by Cover Type and Age Class



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
Herbaceous Openland	224	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	224
Low-Density Trees	242	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	242
Lowland Shrub	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	0	0	0	0	0	8	77	227	0	0	0	0	0	0	0	0	7	319
Red Pine	0	0	44	0	0	0	0	430	0	0	0	0	0	0	0	0	0	0	474
Upland Conifers	0	0	0	0	0	0	0	14	199	0	0	0	0	0	0	0	0	0	213
Upland Mixed Forest	0	0	0	0	0	0	0	75	5	0	0	0	0	0	0	0	0	97	177
Upland Shrub	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131
Upland Spruce/Fir	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Urban	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Water	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
White Pine	0	0	0	0	0	5	51	234	55	0	0	0	0	6	0	0	0	159	510
Total	688	0	44	0	5	5	59	830	486	0	0	0	0	6	0	0	0	263	2386



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 142

Total Compartment Acres: 2,385

Commercial Harvest - 374
 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
Red Pine	0	0	0	0	0	305	0	0	0	305
White Pine	0	70	0	0	0	0	0	0	0	70
Total	0	70	0	0	0	305	0	0	0	375

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	375	12	0	0	0	80	116	0	0	582
Next Step	0	0	155	0	0	0	94	0	0	249
Total	375	12	155	0	0	80	210	0	0	831



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

16	41142016-Cut	29.0	42110 - Planted Red Pine	Sawtimber Well	66	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> Second thinning, possibly row thin. 110BA residual.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
20	41142020-Cut	205.4	42110 - Planted Red Pine	Sawtimber Well	65	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> First entry thinning											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
26	41142026-Cut	18.7	42110 - Planted Red Pine	Sawtimber Well	66	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> First entry thinning (row thinning)											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											
34	41142034-Cut	30.7	42110 - Planted Red Pine	Sawtimber Well	66	111- 140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> First entry thinning (row thinning)											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Site Condition</u>											
<u>Proposed Start Date:</u> 10/1 /2021											



S t a n d	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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40	41142040-Cut	10.9	42110 - Planted Red Pine	Sawtimber Well	66	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription First entry on a 66 year old plantation. Remove all trees moving out of market size class (18 inches and up), this may be as much as 50% of the stand. Include large (18inches) red pine in the boundary line to serve as habitat for red cross bill and retention in future.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

57	41142057-Cut	10.0	42110 - Planted Red Pine	Sawtimber Well	66	81-110	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Cut all trees moving out of market size, 18inches and up, trees crowded in the canopy. Residual BA will vary across the stand. Include large (18inches) red pine in the boundary line to serve as habitat for red cross bill and retention in future

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

63	41142063-Cut	57.9	42200 - Natural White Pine	Sawtimber Well	64	81-110	Harvest	Group Selection	4220 - Natural White Pine	Uneven- Aged	No
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Prescription Cut all merchantable fir, spruce and maple. Cut white pine and hemlock only as needed to operate.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any species.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

69	41142069-Cut	11.9	42200 - Natural White Pine	Sawtimber Well	64	81-110	Harvest	Group Selection	4220 - Natural White Pine	Uneven- Aged	No
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Prescription Cut all merchantable fir, spruce and maple. Cut white pine and hemlock only as needed to operate

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Any species
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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

6	41142006-Monitor	52.4	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(3yr)	42120 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack Pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
24	41142024-Monitor	43.0	3302 - Low Density Conifer Trees	Nonstocked	0	Immature	Monitoring	Artificial Regen(3yr)	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Replant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
29	41142029-Prep	12.0	31022 - Warm Season Grass	Nonstocked	0		SitePrep	Trenching	42120 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Trench and plant</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Initial Plant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>											
45	41142045-Monitor	20.3	3102 - Grass	Nonstocked		Immature	Monitoring	Artificial Regen(3yr)	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> 3rd year check</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; ; Planting, Replant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /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
46 41142046-Spray	79.7	3105 - Mixed Upland Herbaceous	Nonstocked			Pesticide	ERROR	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> spray to release RP, from competition, mostly Cherry.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Replant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>										

Total Treatment Acreage Proposed: 581.9

Report 4 – Site Conditions

Shingleton Mgt. Unit
Mario Molin : Examiner

Compartment: 142
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions	
Acres	Available	With Condition	Not Available	4A	3J
223	223	0	0	Herbaceous Openland	
242	242	0	0	Low-Density Trees	
21	21	0	0	Lowland Shrub	
6	6	0	0	Marsh	
320	319	0	1	Northern Hardwood	1
474	474	0	0	Red Pine	
213	213	0	0	Upland Conifers	
177	177	0	0	Upland Mixed Forest	
131	131	0	0	Upland Shrub	
5	5	0	0	Upland Spruce/Fir	
24	24	0	0	Urban	
40	40	0	0	Water	0
510	502	3	5	White Pine	5
2,385	2,376	3	6	Total Forested Acres	6
	100%	0%	0%	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
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Nugent Lake buffer.							
6	Available	4A: No Markets Available for these Forest Products	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Mario Molin : Examiner

Compartment: 142

Year of Entry: 2022

7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Nugent Lake buffer.							

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
----------	--------------	-------------	----------------	-------

Comments

Mgt. Unit

Compartment:

Year of Entry



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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																				
1	42110 - Planted Red Pine	Sawtimber Well	2.3	67	81-110	N/A	2020: Small red pine plantation that somehow was lost/merged into adjacent stand in past.																																																																				
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2	429 - Mixed Upland Conifers	Poletimber Well	74.1	70	81-110	N/A	2020: Old cutting records show lots of small cuts throughout this and adjacent stands, this explains the -hodgepodge- of different/mix of small patches of stands within the stand. As stand matures it may be possible to delineate out some new stands. White pine was thinned out in 1973 within this stand. Hemlock, fir, spruce and merchantable hardwoods were harvested in 1974. Large white pine trees are still present with pole sized fir/spruce and hardwoods mixed within it. The understory is thick with regeneration.																																																																				
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3	330 - Low-Density Trees	Nonstocked	3.1			No																																																																					
4	42200 - Natural White Pine	Sawtimber Medium	39.3	75	51-80	N/A	This stand is less dense than surrounding stands. There is white pine dominating the overstory with spruce/fir mixed in. Red maple is present, but not abundant as in neighboring stands.																																																																				
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5	4113 - R.Maple, Conifer	Poletimber Well	114.7	73	51-80	N/A	2020: Stand was cut heavier than originally prescribed do to inability to operate as it was marked. There will be lots of density variability in the stand. Lots of red mable stump sprouts3-5 ft tall.Mix up Mix 41-017-12-01 TCR: 9/13/16																																																																				
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6	310 - Herbaceous Openland	Nonstocked	50.8	0	Unspecified	4212 - Planted Jack Pine	Side was re-treched/trenched summer 2017 and cobimed with JP strips to create one new large stand. Stand needs to be planted. Planted spring 2018 to JP. 1st year regen check was a fail, 135 TPA needs replant. Stand was replanted spring 2019. regen check passed summer 2019.																																																																				
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7	622 - Lowland Shrub	Nonstocked	17.2	0	Unspecified	613 - Lowland Mixed Forest																																		
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8	42340 - Upland Spruce/Fir	Sapling Well	5.0	39	111-140	N/A	This stand contains large white pine in the overstory with a medium sized spruce/fir component.																																	
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9	42200 - Natural White Pine	Poletimber Well	15.7	70	1-50	N/A	Appears to be an old opening that grew in. It isn't very dense, but will continue to grow in. It is mostly mixed conifer with sapling size hardwoods.																																	
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10	4319 - Mixed Upland Forest	Poletimber Well	97.4	123	81-110	N/A	2020: Stand is all aged conifer with even aged hardwood underneath. Appears to have a management objective of natural white pine hemlock. This stand was cut in 1994. All hardwoods were removed except some large beech. Spruce and hemlock were left too. Regeneration is a flush of red maple, beech, and mixed conifer regeneration.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
12	3303 - Mixed Low Density Trees	Nonstocked	7.8			No						
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Low		Sapling	
								Serviceberry (Juneberry)	Low		Tall Shrub	
								White Pine	Medium		Sapling	
								Aspen (spp.)	Low		Sapling	
								Red Pine	Low		Pole	
								Black Cherry	Low		Tall Shrub	
13	3302 - Low Density Conifer Trees	Nonstocked	3.7			No	Frost pocket that appears to be filling in with mixed conifer.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Spruce	Low		Pole	
								Jack Pine	Medium		Pole	
								White Spruce	Low		Pole	
								Red Pine	Medium		Pole	
14	122 - Road/Parking Lot	Nonstocked	10.3			No						
15	330 - Low-Density Trees	Nonstocked	5.5			No						
								Sub-Canopy Species	Density	Avg. Height	Size	
							White Pine	Low	Variable	Sapling		
16	42110 - Planted Red Pine	Sawtimber Well	29.0	66	111-140	N/A	TCR: 41-035-12, sale now closed (8/10/16)					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	10	Pole	5	
								White Pine	2	Log	14	
								Red Pine	88	Log	14	66
Sub-Canopy Species	Density	Avg. Height	Size									
17	330 - Low-Density Trees	Nonstocked	2.1			No						
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Low	Variable	Pole	
								Jack Pine	Low	Variable	Pole	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
18	429 - Mixed Upland Conifers	Poletimber Well	77.2	70	81-110	N/A	2002: The northern half was possibly a shelterwood cut in 1981. All fir was cut, along with thinned white pine and hardwood species in the 1980's. White pine is in the overstory with pole size red maple, fir, and beech. A flush of mixed conifer regeneration is present in the understory.																																																										
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19	42200 - Natural White Pine	Sawtimber Well	41.0	76	51-80	N/A	2020: If continuing to manage for white pine, understory (maple, spruce and fir) can be removed in 20 years. 2010: This stand contains large white pine in the supercanopy with variable sized trees in the subcanopy consisting mainly of white pine, spruce, and fir.																																																										
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20	42110 - Planted Red Pine	Sawtimber Well	205.4	65	111-140	N/A	2010: This appears to be a poorly stocked red pine plantation that varies in basal area.																																																										
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21	42110 - Planted Red Pine	Sawtimber Well	39.6	66	111-140	N/A	TCR: 41-035-12, sale now closed (8/10/16)																																																										
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22	4319 - Mixed Upland Forest	Sawtimber Well	75.2	66	111-140	N/A	2020: Stand is essentially 2-3 aged (can not enter in canopy because of size class limitations) White pine and hemlock in the super story with mainly maple in the overstory then a mix of maple and conifer in the co-canopy and then a maple/beech understory. 2002: This stand was thinned in the 1960's and 1970's, and then again in 1996. This stand consists of mixed hardwoods and conifer trees. Red maple is the majority of the hardwood species with a lot of beech regeneration underneath. The majority of the beech has Beech Bark Disease (BBD). White pine and hemlock make up the conifer majority.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
23	330 - Low-Density Trees	Nonstocked	12.0			No						
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Low	Variable	Pole	
								Jack Pine	Low	Variable	Pole	
24	3302 - Low Density Conifer Trees	Nonstocked	43.1	0	Immature	4211 - Planted Red Pine	This stand contains planted red pine with underplanted red pine below. The overstory red pine is left from a shelterwood/seed tree harvest in 2002. Stand was 1/2 trenched in summer of 2012 and planted in spring of 2013 by Superior forestry Planted approx 477 T/A cost of 2665.00 Regen check 2016: 86 T/A needs to be replanted. Only planted trenched 1/2 spring 2017. Planted spring 2018 to RP. 1st year check done fall 2018, passed 675 TPA					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	Full	< 5 feet	Seeding	
25	3103 - Rubus-Fern	Nonstocked	6.6			No	2010: Frost pocket, little vegetation besides, moss, fern, and few grass/sedge.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Trace		Pole	
								Red Pine	Trace		Pole	
	Black Cherry	Trace		Tall Shrub								
26	42110 - Planted Red Pine	Sawtimber Well	18.7	66	111-140	N/A	A red pine plantation with varying densities, which has been underplanted in portions. Basal area is slightly lower than neighboring pine stands.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	2	Log	12	
								Red Pine	98	Log	12	66
Sub-Canopy Species	Density	Avg. Height	Size									
White Pine	Low	Variable	Sapling									
Red Pine	Medium	< 5 feet	Sapling									
Black Cherry	Low	10 - 20 feet	Sapling									
Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub									
27	42110 - Planted Red Pine	Sapling Poor	35.5	14	Immature	N/A	Red pine regen. scattered throughout stand with some areas being more dense than others. RM poles and saplings are scattered through the sale as well as white pine, spruce, service berry, and cherry.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Pine	100	Sapling/Pole	3	14
								Sub-Canopy Species	Density	Avg. Height	Size	
Black Cherry	Low	5 - 10 feet	Tall Shrub									
Red Maple	Low	5 - 10 feet	Sapling									
Serviceberry (Juneberry)	Medium	5 - 10 feet	Tall Shrub									
White Pine	Low	5 - 10 feet	Pole									
28	330 - Low-Density Trees	Nonstocked	9.5			No						
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Low	Variable	Pole	
								Jack Pine	Low	Variable	Pole	
29	31022 - Warm Season Grass	Nonstocked	12.0	0		4222 - Natural Jack Pine	TCR: 41-035-12, sale now closed (8/10/16) SCafied summer 2016 by DNR staff. failed regen check in fall 2019. stand needs to trenched and planted.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Trace	< 5 feet	Sapling	



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30	42110 - Planted Red Pine	Sawtimber Well	14.5	67	81-110	N/A																																														
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31	122 - Road/Parking Lot	Nonstocked	1.5			No																																														
32	3302 - Low Density Conifer Trees	Nonstocked	122.0			No	2010: Two rows of J. Pine were planted along edge of Adams Trail between Stands 44 and 56 to block the wind. Saplings are less than 3 feet.																																													
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33	42110 - Planted Red Pine	Sapling Well	8.2	17	Immature	N/A	Originally typed as grass, this stand now has trees filling in. It was underplanted with red pine and there is large mature red pine in the supercanopy.																																													
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34	42110 - Planted Red Pine	Sawtimber Well	30.7	66	111-140	N/A	2010: This stand is planted red pine that is currently self-pruning. There are areas of high basal area, but contains a lot of branching.																																													
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35	122 - Road/Parking Lot	Nonstocked	3.7			No																																														
36	3102 - Grass	Nonstocked	9.3		Immature	4222 - Natural Jack Pine	Stand cut as Red Baron Pine, Scarified summer of 2014. Natural regen check 5/8/2018, 680 TPA.																																													
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37	500 - Water	Nonstocked	4.1			No																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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38	4113 - R.Maple, Conifer	Poletimber Well	31.3	70	81-110	N/A	2010: A hardwood stand containing a lot of red maple in the pole size class. Regeneration is mostly red maple and beech with a mix of conifer species. Supercanopy white pine trees are scattered throughout the stand with pockets of spruce/fir. Last cut in 1995.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		2	Pole/Log	8		Red Maple		Medium	10 - 20 feet	Sapling	
Red Maple		61	Pole/Log	8	70	Beech		High	10 - 20 feet	Sapling	
Yellow Birch		2	Pole/Log	8		Balsam Fir		Medium	5 - 10 feet	Sapling	
Beech		10	Pole/Sapling	6		White Pine		Low	Variable	Sapling	
Balsam Fir		5	Sapling/Pole	3		Hemlock		Medium	Variable	Sapling	
White Spruce		5	Sapling/Pole	4							
White Pine		5	Log/Pole/XLog	14							
Hemlock		10	Pole/Log	8							

39	330 - Low-Density Trees	Nonstocked	7.4			No	
Sub-Canopy Species		Density	Avg. Height	Size			
Scotch Pine		Trace		Sapling			
Red Pine		Low		Sapling			
Tamarack		Trace		Sapling			

40	42110 - Planted Red Pine	Sawtimber Well	10.9	66	111-140	N/A	Initially a poorly stocked plantation. Majority of trees are pushing 18 inches,.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		2	Pole/Sapling	6		Balsam Fir		Low	5 - 10 feet	Sapling	
White Pine		4	Log/Pole/XLog	14		White Pine		Medium	Variable	Sapling	
Red Pine		94	XLog/Log	18	66	Red Pine		Low	< 5 feet	Sapling	
						Black Cherry		Low	10 - 20 feet	Tall Shrub	
						Serviceberry (Juneberry)		Low	10 - 20 feet	Tall Shrub	

41	4119 - Mixed Northern Hardwoods	Poletimber Well	16.2	70	81-110	N/A	This stand is similar to stand 38. It contains a lot of beech regeneration with hemlock also.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		7	Pole/Log	8		Red Maple		Medium	5 - 10 feet	Sapling	
Red Maple		45	Pole/Log	8	70	Beech		High	10 - 20 feet	Sapling	
Yellow Birch		4	Pole/Log	8		Balsam Fir		Medium	5 - 10 feet	Sapling	
Beech		10	Pole/Sap/Log	6		White Pine		Low	Variable	Sapling	
Balsam Fir		10	Sapling/Pole	3		Hemlock		Medium	Variable	Sapling	
White Spruce		7	Sapling/Pole	4							
White Pine		7	Log/Pole/XLog	12							
Hemlock		10	Pole/Sapling	5							

42	500 - Water	Nonstocked	3.2			No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
43	42200 - Natural White Pine	Poletimber Well	5.1	68	51-80	N/A	2010: White pine dominant stand with abundant red maple, fir, and spruce. Basal areas vary slightly. There are many large supercanopy white pine with young regeneration underneath.																																																		
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44	310 - Herbaceous Openland	Nonstocked	1.5			No																																																			
45	3102 - Grass	Nonstocked	23.0	Immature	4211 - Planted Red Pine		This stand is part of the Red Pine Project. Stand under contract TS# 41-045-08-01. RPP-Kingston Lake Road. FTP # C41-1401. Planted (5/7/13) by Superior Forestry. Planted approximately 691 t/a at a cost of 13,411.63 (3/7/13RH) Regen check 2014 2016 Regen check: 573 T/A. needs replant. Planted spring 2018 to RP. 1st year check fall 2018, passed 855 TPA.																																																		
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46	3105 - Mixed Upland Herbaceous	Nonstocked	79.7			No																																																			
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47	42110 - Planted Red Pine	Sawtimber Well	4.3	66	81-110	N/A	TCR: 41-035-12, sale now closed (8/10/16)																																																		
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48	3102 - Grass	Nonstocked	27.4			No																																																			
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49	622 - Lowland Shrub	Nonstocked	3.9			No																																																			



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50	429 - Mixed Upland Conifers	Poletimber Well	14.0	64	81-110	N/A	White pine dominate stand with large supercanopy trees. Red maple, fir, and spruce are mixed in too. There is a lot of fir regeneration.																																									
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57	42110 - Planted Red Pine	Sawtimber Well	10.0	66	81-110	N/A	Planted red pine stand that is similar to stand 47. TCR: 41-035-12, sale now closed (8/10/16)																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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58	429 - Mixed Upland Conifers	Sawtimber Well	29.1	75	81-110	N/A	2020: Cutting in past have pushed this stand to a white pine hemlock stand with a poor quality red maple understory. Can continue to manage this way with hardwood pulp removals every 30-40 years or when maple averages 8 inches.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		35	Log	16	75	Beech		Medium	Variable	Sapling	
Red Maple		35	Pole	6		Red Maple		Medium	Variable	Sapling	
Hemlock		20	Log	14		White Pine		Medium	Variable	Sapling	
Balsam Fir		5	Pole/Sapling	6		Hemlock		Low	Variable	Sapling	
White Spruce		5	Pole	8		Balsam Fir		Medium	Variable	Sapling	
						White Spruce		Low	Variable	Sapling	

59	4113 - R.Maple, Conifer	Poletimber Medium	65.3	73	51-80	N/A	2020: Stand was cut heavier than originally prescribed do to inability to operate as it was marked. There will be lots of density variability in the stand. Lots of red mable stump sprouts3-5 ft tall. Mix up Mix 41-017-12-01 TCR: 9/13/16				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		63	Pole/Sap/Log	8	73	Red Maple		Medium	Variable	Sapling	
Beech		10	Log/Pole	10		Beech		Low	10 - 20 feet	Sapling	
Balsam Fir		5	Pole/Sapling	8		Balsam Fir		Medium	Variable	Sapling	
White Spruce		5	Pole/Sapling	6		White Pine		Low	Variable	Sapling	
White Pine		10	Log/Pole/XLog	14		Hemlock		Medium	Variable	Sapling	
Hemlock		5	Log/Pole	10		Black Cherry		Low	10 - 20 feet	Sapling	
Black Cherry		2	Pole/Sapling	6							

60	330 - Low-Density Trees	Nonstocked	9.7			No	
Sub-Canopy Species		Density	Avg. Height	Size			
Black Spruce		Low		Sapling			
Serviceberry (Juneberry)		Trace		Tall Shrub			
White Spruce		Low		Sapling			
White Pine		Trace		Pole			
Aspen (spp.)		Low		Sapling			
Jack Pine		Medium		Pole			
Black Cherry		Trace		Tall Shrub			

61	42200 - Natural White Pine	Sawtimber Well	111.9	64	81-110	N/A	This stand has white pine in the supercanopy and sub-canopy. Spruce/fir is scattered everywhere with some high basal areas. A few scattered Jack pine				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		10	Pole/Sapling	6		Red Maple		Low	10 - 20 feet	Sapling	
White Spruce		10	Pole/Sapling	6		Balsam Fir		Medium	Variable	Sapling	
White Pine		80	Log/Pole/XLog	14	64	White Spruce		Low	< 5 feet	Sapling	
						White Pine		High	Variable	Sapling	
						Serviceberry (Juneberry)		Low	5 - 10 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
62	42200 - Natural White Pine	Sawtimber Medium	8.5	69	1-50	N/A	This stand is composed of mainly white pine in the supercanopy and understory. The west side of the stand is more dense than the east.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		2	Pole	5		Red Maple		
Jack Pine		2	Pole	6		Balsam Fir		
White Pine		96	Log	12	69	White Spruce		
						White Pine		
						Black Cherry		
						Serviceberry (Juneberry)		
						Density		
						Avg. Height		
						Size		
63	42200 - Natural White Pine	Sawtimber Well	57.9	64	81-110	N/A	This stand has white pine in the supercanopy and sub-canopy. Spruce/fir is scattered everywhere with some high basal areas.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		10	Pole	8		Red Maple		
White Spruce		10	Pole	8		Balsam Fir		
White Pine		80	Log	14	64	White Spruce		
						White Pine		
						Serviceberry (Juneberry)		
						Density		
						Avg. Height		
						Size		
64	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.0	65	81-110	N/A	2010: A lot of red maple in various size classes categorize this stand with a conifer component. The conifer component gradually builds up towards the eastern border where it becomes the majority. Tree density is variable throughout stand. Blue line is painted in along neighboring	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		74	Log/Pole	10	65	Red Maple		
Beech		10	Log/Pole	10		Beech		
Balsam Fir		5	Sapling/Pole	4		Balsam Fir		
White Spruce		2	Sapling/Pole	4		White Spruce		
White Pine		5	Log/Pole/XLog	12		White Pine		
Hemlock		2	Pole/Sap/Log	8		Hemlock		
						Density		
						Avg. Height		
						Size		
65	4319 - Mixed Upland Forest	Poletimber Well	4.7	70	81-110	N/A	This stand is similar to stand 38. It contains a lot of beech regeneration with hemlock also.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		5	Pole/Log	8		Red Maple		
Red Maple		30	Pole/Log	8	70	Beech		
Yellow Birch		4	Pole/Log	8		Balsam Fir		
Beech		10	Pole/Sap/Log	6		White Pine		
Balsam Fir		10	Sapling/Pole	3		Hemlock		
White Spruce		7	Sapling/Pole	4		Density		
White Pine		29	Log	12	70	Avg. Height		
Hemlock		5	Pole	8		Size		
66	500 - Water	Nonstocked	1.4			No		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
67	320 - Upland Shrub	Nonstocked	130.8			No	Mainly scattered white pine with a few other species.																																																										
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68	42200 - Natural White Pine	Sawtimber Well	37.2	64	81-110	N/A	White pine is in the supercanopy. Fir/spruce is the majority besides white pine. Densities and heights vary throughout the stand.																																																										
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69	42200 - Natural White Pine	Sawtimber Well	11.9	64	81-110	N/A	This stand is similar to stand 68, but contains smaller trees with higher densities.																																																										
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73	42200 - Natural White Pine	Poletimber Poor	50.7	50	1-50	N/A	2010: Typed as grass opening last data entry, but is growing in with multiple tree species.																																																						
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74	500 - Water	Nonstocked	16.2			No																																																							
75	42200 - Natural White Pine	Sawtimber Well	33.4	69	111-140	N/A	This stand contains large white pine in the supercanopy with a mixture of pole size fir, spruce, and red maple. The sub-canopy is a mixture of hardwoods, tall shrubs, and conifers.																																																						
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76	42200 - Natural White Pine	Sawtimber Well	5.8	120	81-110	N/A	2020: Potential for trespass on the North end of the stand on Nugent Lake. No corners found; based on projected boundary lines cabin sits very close/on the boundary. 2010: White Pine dominant stand bordering the east side of Nugent Lake. Hardwoods and spruce/fir make up the rest of the canopy.																																																						
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77	623 - Emergent Wetland	Nonstocked	5.6			No																																																							
78	310 - Herbaceous Openland	Nonstocked	3.4			No	2020: Flooded at time of inventory.																																																						
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80	42200 - Natural White Pine	Poletimber Well	6.3	49	51-80	N/A	2020: Mainly conifer pole size trees and sapling sized trees, previous cuts left superstory white pine and spruce with a dense understory of conifer and some red maple.																																																																
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81	4113 - R.Maple, Conifer	Poletimber Well	68.9	65	51-80	N/A	2020: Red maple pulp dominant stand with mixed conifer. This stands previous harvests have been what looks to be seed tree or shelter wood types with retaining the white pine and hemlock. Stand is very low quality and would be a good candidate for conversion to red pine or even disposal since it is land locked with no known legal access.																																																																
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83	310 - Herbaceous Openland	Nonstocked	2.0		Unspecified	4212 - Planted Jack Pine	Side was re-treched/trenched summer 2017 and combined with JP strips to create one new large stand. Stand needs to be planted. Planted spring 2018 to JP. 1st year regen check was a fail, 135 TPA needs replant. Stand was replanted spring 2019. regen check passed summer 2019.																																																																
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84	3303 - Mixed Low Density Trees	Nonstocked	4.5			No																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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85 4113 - R.Maple, Conifer Poletimber Well 7.0 69 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	75	Log/Pole	10	69	Red Maple	Medium	Variable	Sapling
Balsam Fir	5	Sapling/Pole	3		Balsam Fir	Low	Variable	Sapling
White Spruce	10	Pole/Log	8		White Spruce	Medium	Variable	Sapling
White Pine	10	Log	14		White Pine	Medium	Variable	Sapling

86 42200 - Natural White Pine Poletimber Medium 1.6 69 1-50 N/A

This stand is composed of mainly white pine in the supercanopy and understory. The west side of the stand is more dense than the east.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	5		Red Maple	Low	10 - 20 feet	Sapling
Black Spruce	2	Sapling/Pole	6		Balsam Fir	Low	Variable	Sapling
White Pine	96	Log	12	69	White Spruce	Low	< 5 feet	Sapling
					White Pine	High	Variable	Sapling
					Black Cherry	Low	10 - 20 feet	Tall Shrub
					Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub