



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41139

Entry Year 2022

Acreage: 1,565

County Alger

Management Area: Danaher Kingston Outwash

Revision Date: 2020-08-17

Stand Examiner: Steve Touvila

Legal Description:

T48N R15W Section 23-26, 35 and 36

Identified Planning Goals:

To manage the compartment in accordance with the principles of sustainable forest management for multiple resource values.

Soil and topography:

There are three main soil types within the compartment; Spalding Soils which make up about 30%, Rubicon Roselawn Sands which also makes up about 30% of the compartment and Saugetuck Series that comprises roughly 29% of the area. There are minor occurrences of Kalkaska (sands and loams) along with Wallace and Wallace Sands.

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

The compartment has industry lands to the north and east with State land to the west and south.

Unique Natural Features:

(*Gavia immer*, state threatened) have been recorded nesting in several of the nearby lakes. Wood turtle (*Clemmys insculpta*, state special concern) could occur in and along Loon Creek, Pelican Creek, Grass Creek, and West Branch Fox River. There is also potential for nesting red-shouldered hawk (*Buteo lineatus*, state threatened) and Northern goshawks (*Accipiter gentilis*, state special concern) to occur throughout this compartment in stands of northern hardwoods, and white pine.

Archeological, Historical, and Cultural Features:

The Sunrise Grade passes through the center of the compartment. A ½ mile north of the Sunrise Grade there is an older grade that can still be seen through most of the compartment.

Special Management Designations or Considerations:

The west boundary is the West Branch Fox River which has a natural river designation.

Watershed and Fisheries Considerations:

The West Branch Fox River is classified SQCW, while Grass, Loon and Pelican Creeks are SQWW. Despite the warm water designation, all of these small streams will support fall brook trout spawning migrations from the main part of the Fox River. That is, they will if there is any gravel habitat available, and if the migration is not blocked by beaver dams. Tributaries are very important to any stream or river system, and especially within THIS system, should be carefully protected.

Wildlife Habitat Considerations:

Compartment 139 lies within north east Schoolcraft county in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection 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 data indicate the virgin forest in this area were a composite of white pine, hemlock, beech, red maple, balsam fir, and yellow birch. Mountain ash was an important component of the understory. Lowlands were dominated by spruce. The current forests continue to contain white pine in most locations; however, most of the other species have been reduced while red pine has significantly increased.

The wildlife management objectives for this compartment include managing for age-class, species, and structural diversity within the forested system. Other wildlife priorities include the management of various forest types for early successional characteristics, in mixed pine stands and white pine stands retention of mature seed-bearing trees, recruitment and retention of hard and soft mast producing species and connectivity in conifer stands. Other wildlife species of interest include moose, snowshoe hare, sandhill crane and marten.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and end moraine coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien (PdC) subgroups below the glacial drift. The 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. There may be some potential along the east boundary of the compartment.

Vehicle Access:

Access to the compartment can be from the Adams Trail to the north or by the Sunrise Grade running east-west through the center of the compartment. There is a good road system through the compartment from past logging practices however most are blocked to vehicle traffic.

Survey Needs:

T48N-R15W sections 23 and 24.

Recreational Facilities and Opportunities:

The Sunrise Grade is a designated snowmobile trail that gets heavy ORV use during the other times of the year. The Fox River Pathway crosses just on the west side of the West Branch Fox River. The natural river also offers great fishing opportunities for anglers.

Fire Protection:

Response to a wildland fire would be slow. Equipment and personnel would be coming from the Seney Field Office. This area has not had a lot of fire activity in the past.

Additional Compartment Information:

The main timber type is mature and uneven aged white pine making up about 40%. The remaining timber types are mainly those containing other conifer components such as black spruce, fir and hemlock. There are also small stands of poor quality hardwood scattered within the white pine stands. Some of the white pine stand sub-canopies are becoming dominated by red maple.

The following reports from the Inventory are attached:

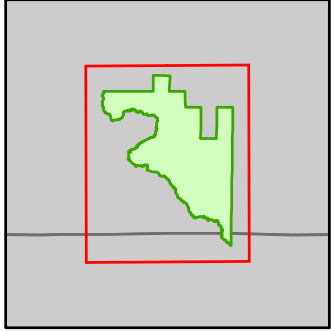
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

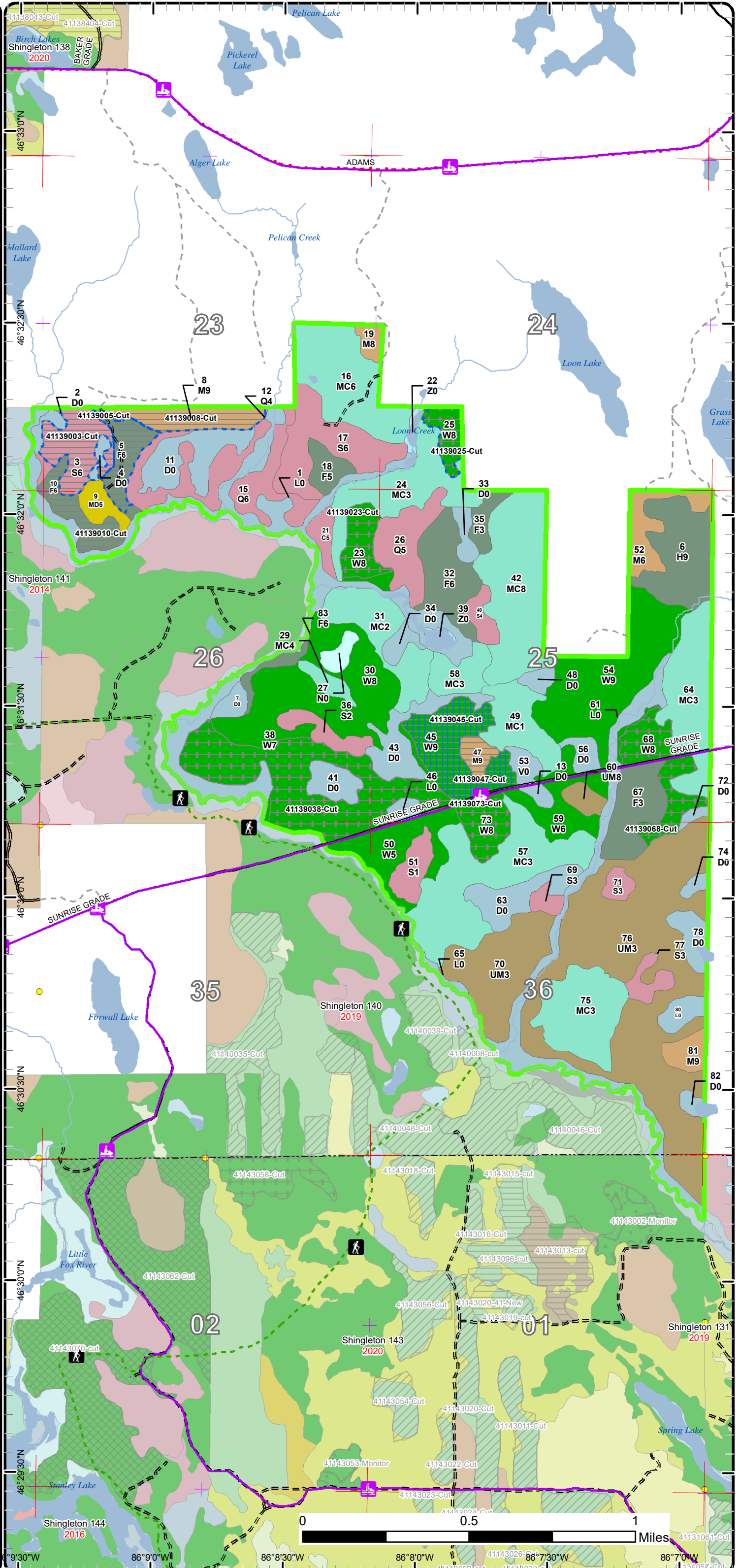
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 139
 T48N, R15W, Sec. 23-26, 35, 36
 T47N, R15W, Sec. 1
 County: Alger
 Unit: Shingleton
 Mgmt Area: Danaher Kingston
 Outwash
 YOE: 2022
 Acres: 1,565 GIS Calculated
 Examiner: Steve Touvila
 Map Revised: 8/25/2020
 Map Phase: Web Post

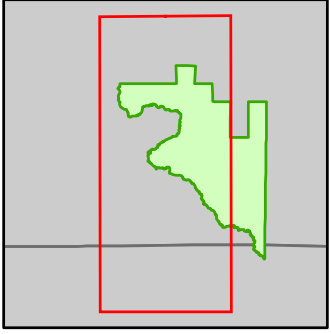


- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- 🚶 Hiking Trails
- 🚙 Snowmobile Trails
- Designated Hiking Trails
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

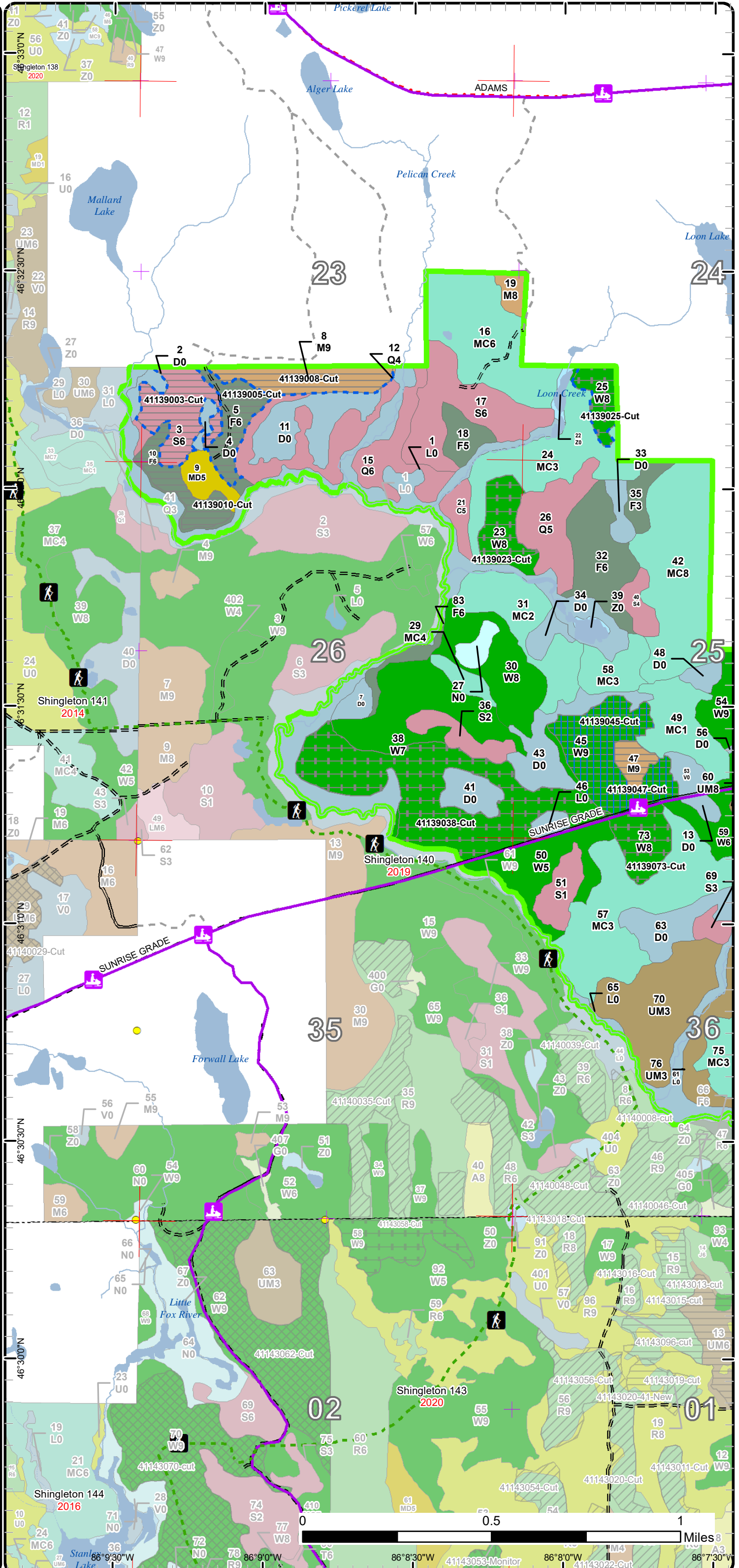


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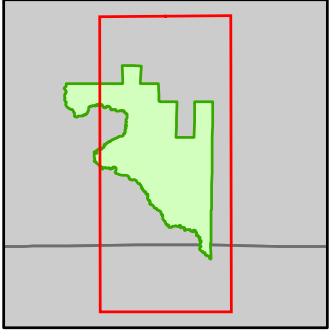


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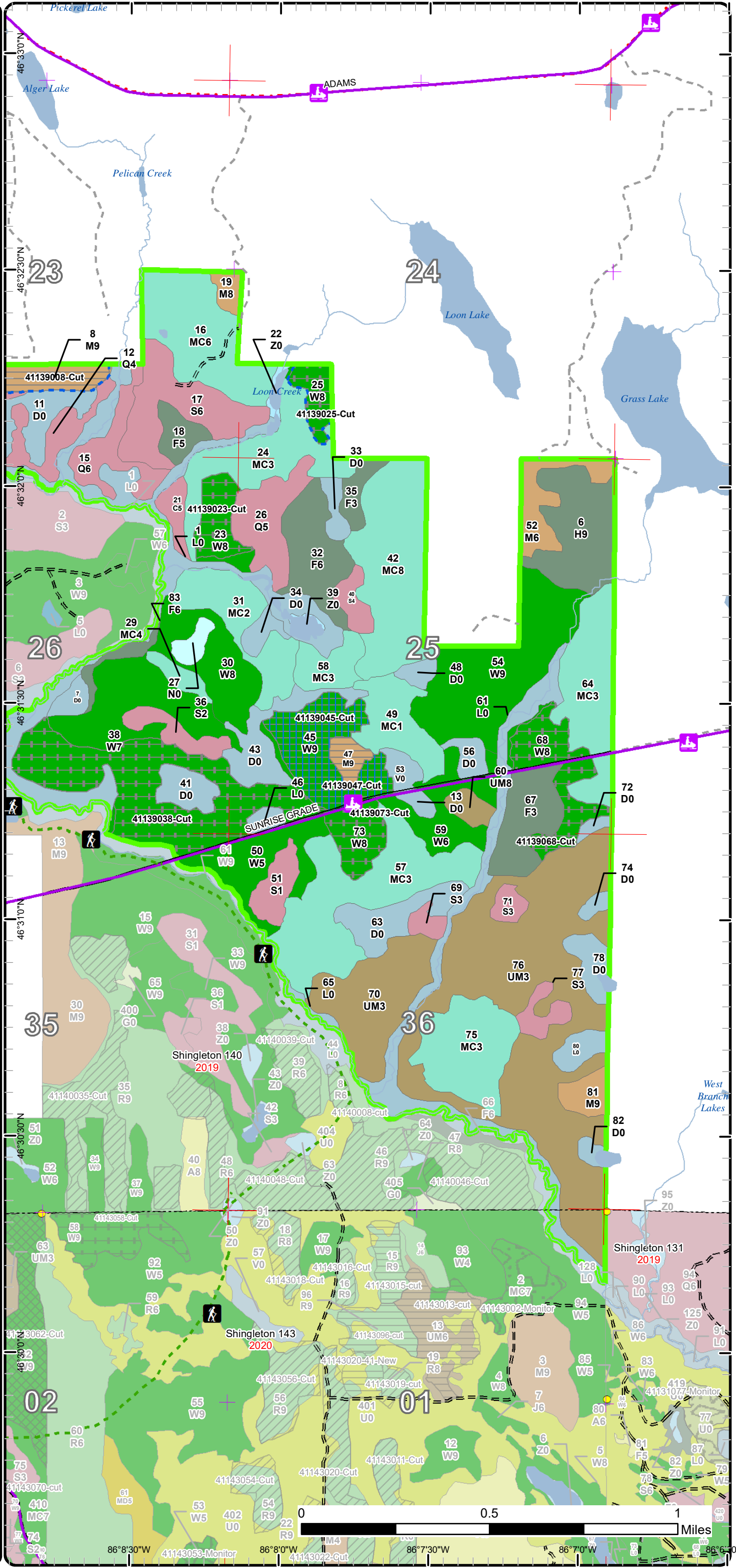


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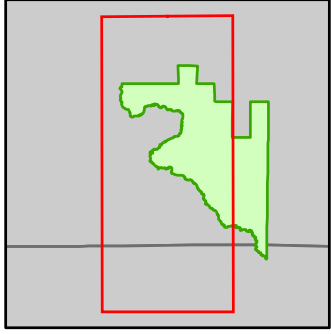


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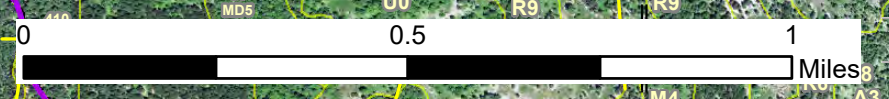
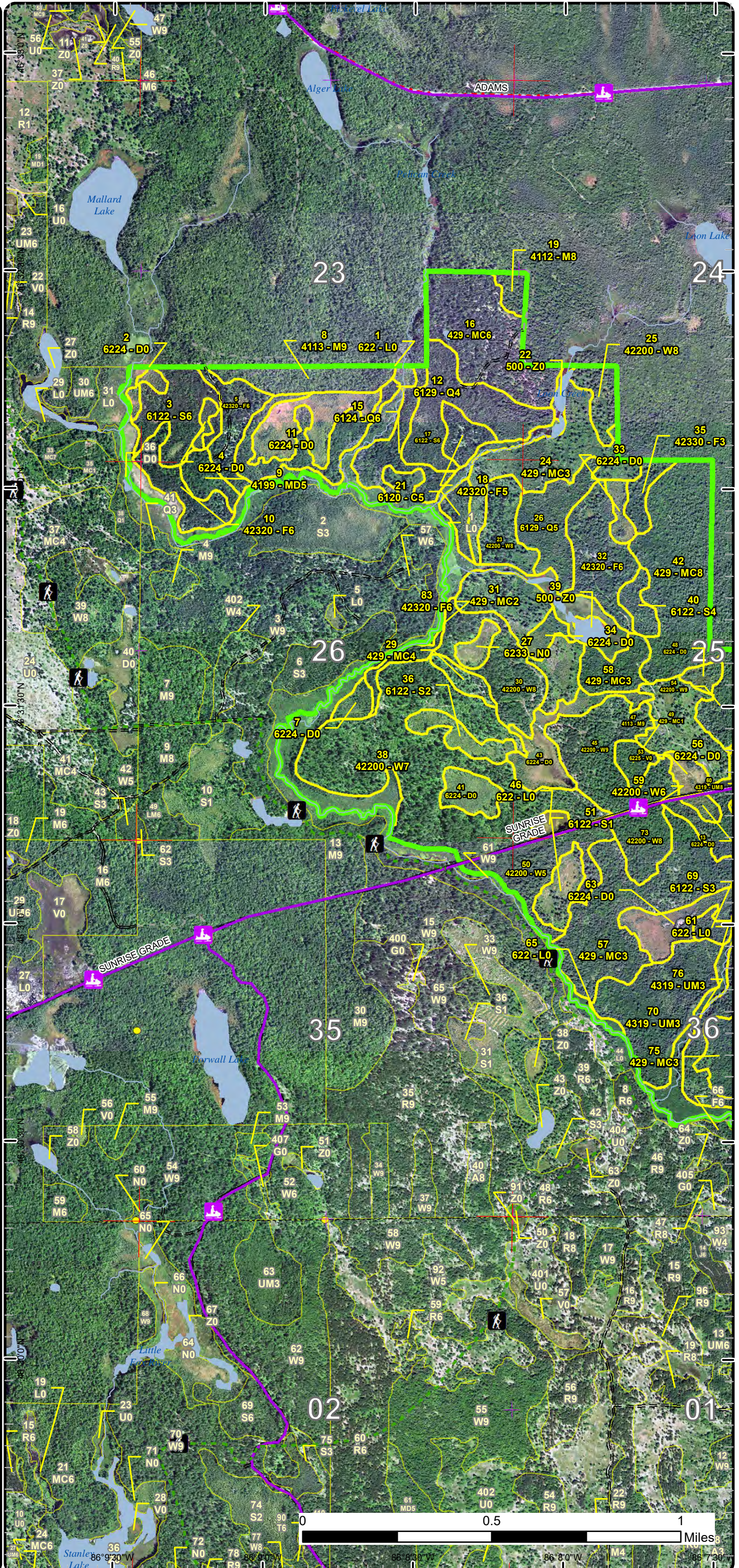


Stand Boundary Map

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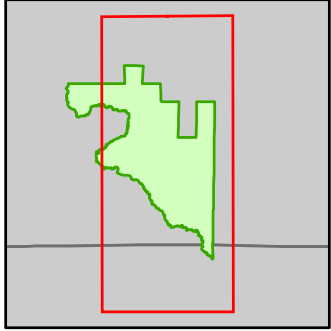
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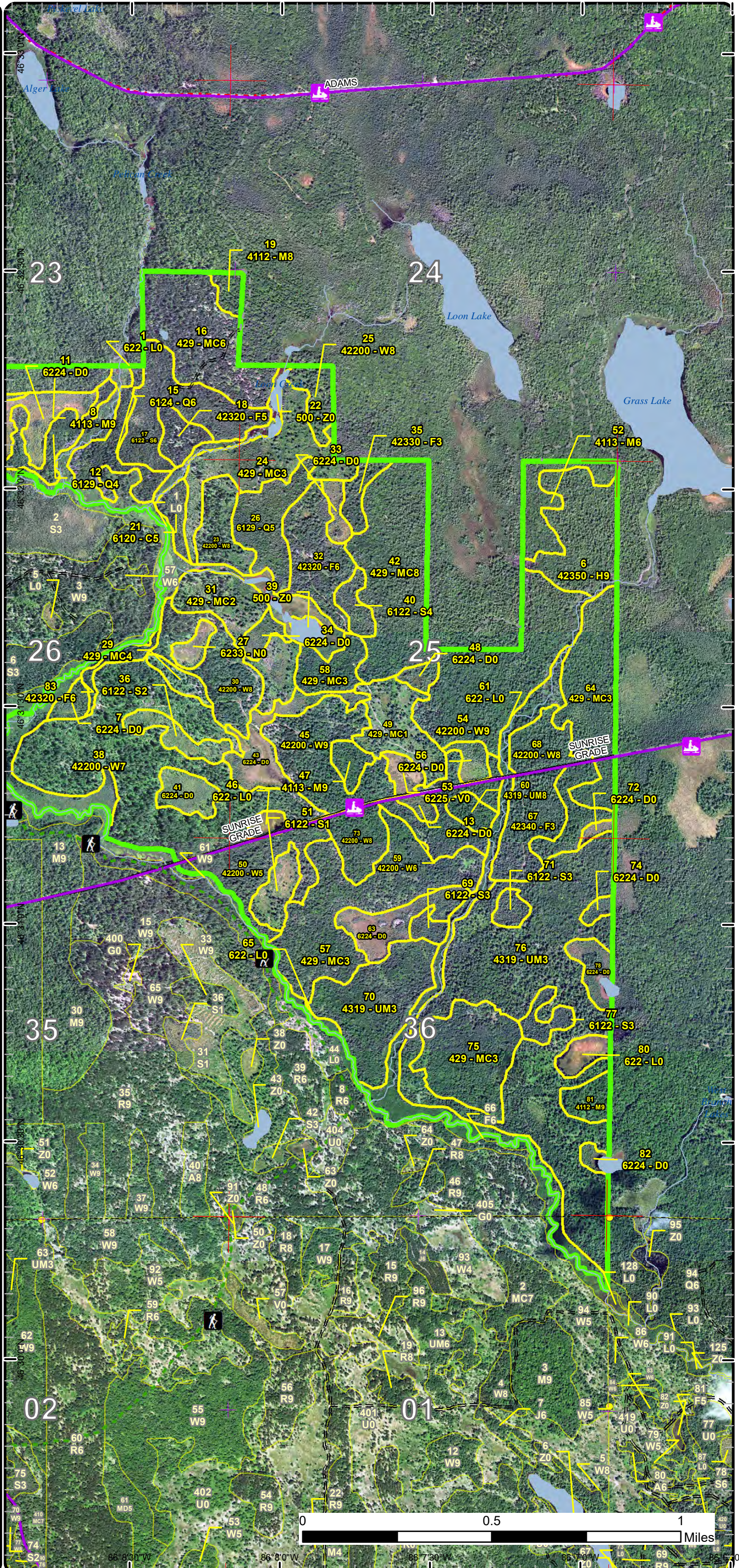
86° 9' 30" W 86° 8' 30" W 86° 8' 0" W 86° 7' 30" W
 46° 31' 30" N 46° 31' 00" N 46° 30' 30" N 46° 30' 00" N

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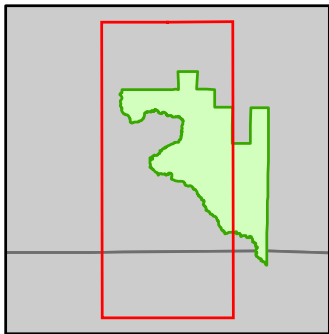


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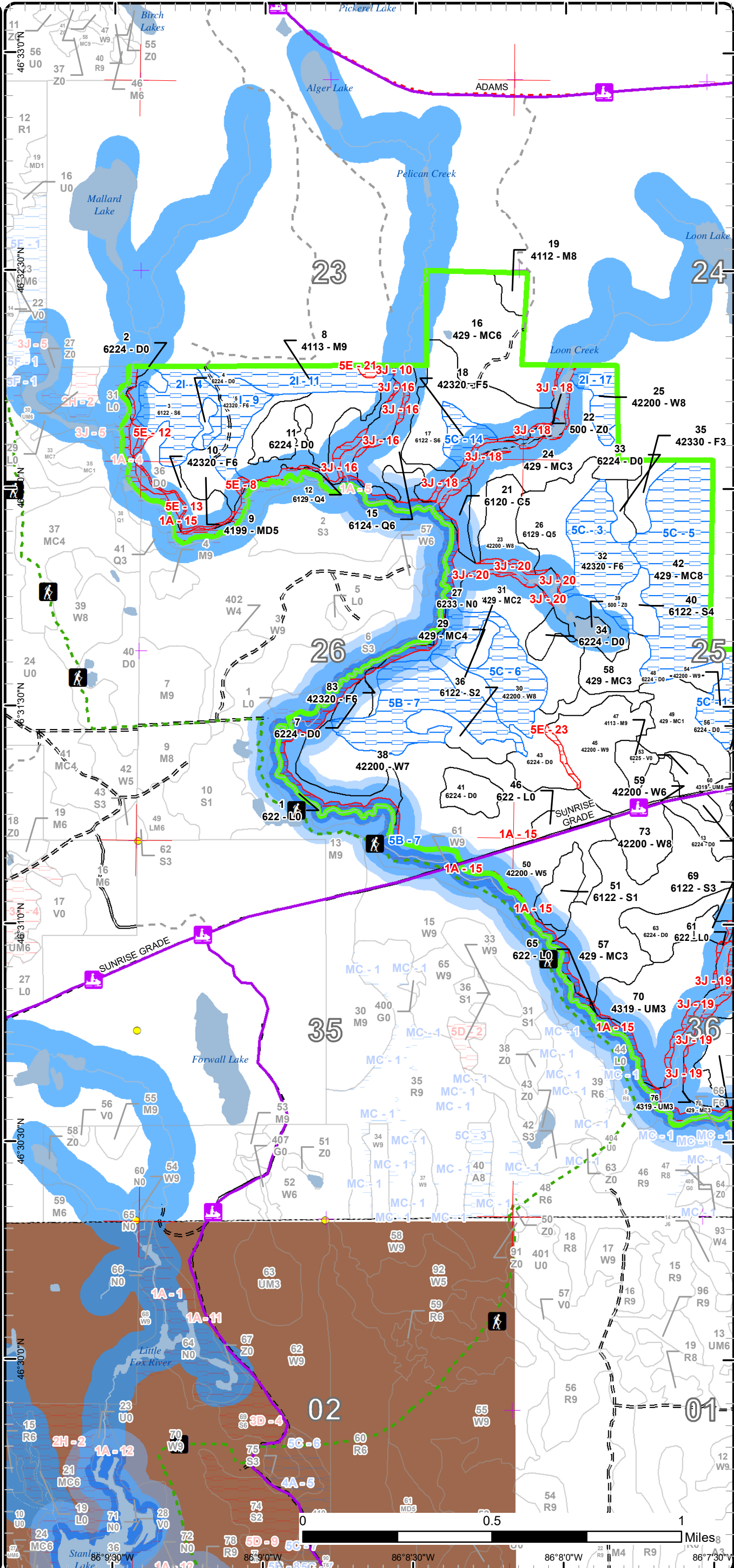


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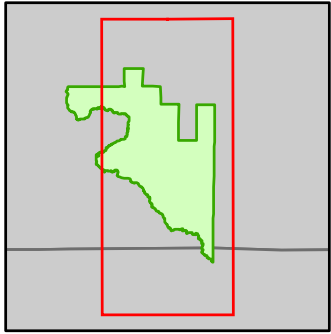


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Wildlife Management Areas

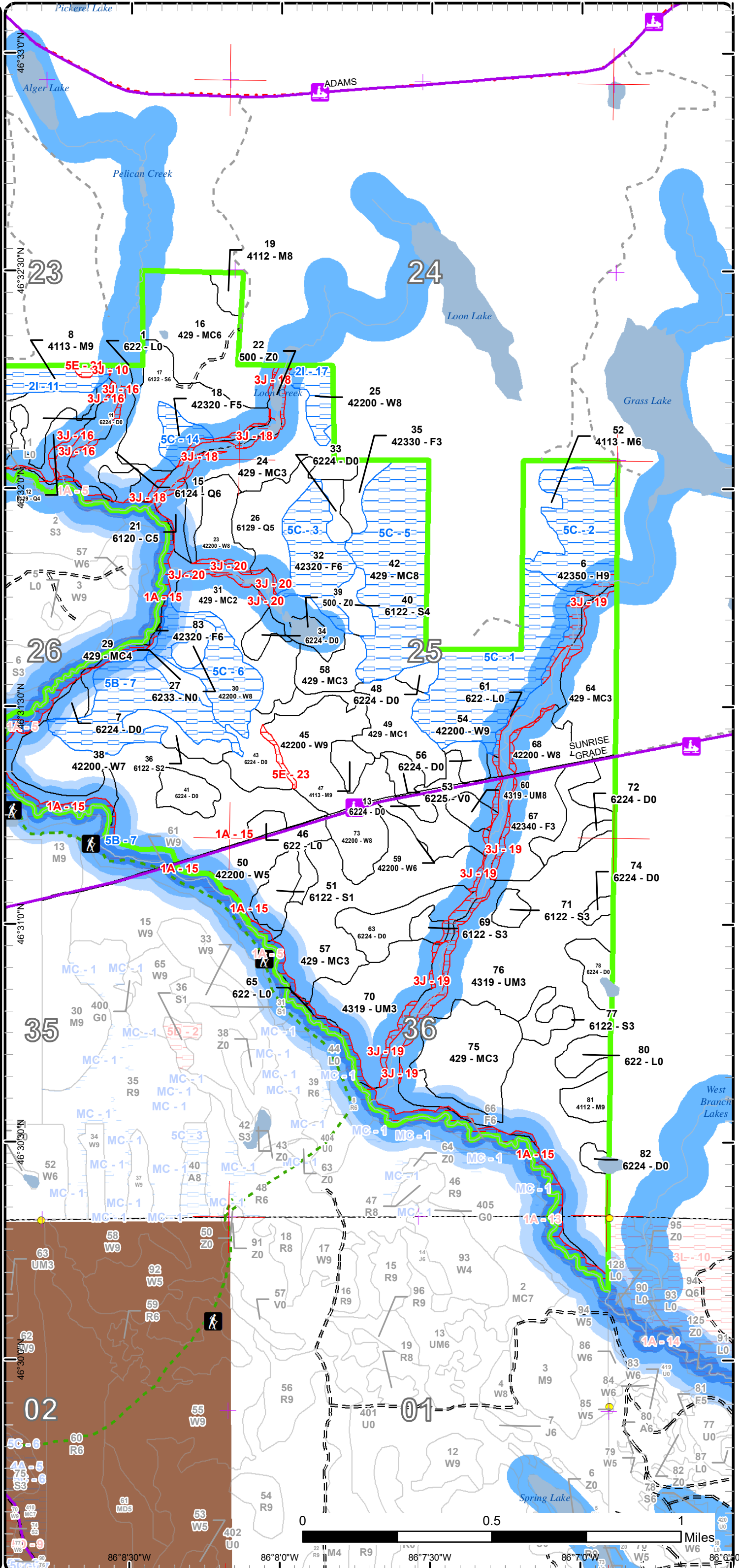


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Report 1 – Total Acres by Cover Type and Age Class



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
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Cedar	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0	0	0	36
Lowland Conifers	0	0	0	0	0	18	0	23	22	0	0	0	0	0	0	0	0	0	63
Lowland Shrub	136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	136
Lowland Spruce/Fir	0	0	21	0	9	7	35	7	24	0	0	0	0	0	0	0	0	0	103
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
Northern Hardwood	0	0	0	0	0	0	16	0	5	0	33	0	0	0	0	0	0	0	54
Treed Bog	117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117
Upland Conifers	0	0	89	0	157	0	47	5	0	0	0	0	61	0	0	0	0	0	359
Upland Mixed Forest	0	0	158	0	43	0	0	0	0	6	0	0	0	0	0	0	0	0	207
Upland Spruce/Fir	0	0	0	0	24	0	9	0	63	0	0	0	0	0	0	0	0	7	102
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	27	23	0	0	0	0	0	0	28	283	0	0	0	0	361
Total	268	0	268	0	260	56	107	35	114	12	33	0	89	283	36	0	0	7	1567



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 139

Total Compartment Acres: 1,565

Commercial Harvest - 185
 Harvests with Site Condition - 66
 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 Spruce/Fir	23	0	0	0	0	0	0	0	0	23
Northern Hardwood	25	0	0	0	0	0	0	0	0	25
Upland Spruce/Fir	28	0	0	0	0	0	0	0	0	28
White Pine	0	0	0	36	0	0	139	0	0	175
Total	76	0	0	36	0	0	139	0	0	251

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	251	0	0	0	0	0	0	0	0	251
Next Step	0	0	0	0	0	0	112	0	0	112
Total	251	0	0	0	0	0	112	0	0	363



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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Proposed Treatments:

3	41139003-Cut	22.6	6122 - Black Spruce	Poletimber Well	78	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Cut all merchantable trees except hemlock and cedar if found. Long term retention is located on the map but could be moved to another location if a better spot is found. Incorporate mature white pine in line work for wildlife retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> black spruce, balsam fir, white pine, white spruce, maple, paper birch</p> <p><u>Other Comment:</u> Snowmobile trail protection specs will be needed for a winter harvest.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
5	41139005-Cut	14.9	42320 - Upland Spruce	Poletimber Well	78	81-110	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Cut all merchantable trees except hemlock and cedar if found. Mark a few red pine as leave trees and seed source. Proposed long term retention is identified on the map. Incorporate mature white pine in line work for wildlife retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> black spruce, balsam fir, white pine, white spruce, tamarack, maple, red pine</p> <p><u>Other Comment:</u> Snowmobile trail protection specs will be needed for a winter cut.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
8	41139008-Cut	18.7	4113 - R.Maple, Conifer	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	4113 - R.Maple, Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut all merchantable trees to 4" DBH. Don't cut hemlock and cedar. Proposed retention is located at denser hemlock and can be adjusted as needed to protect hemlock.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> maple, hemlock, balsam fir, black cherry, white pine, black spruce, white spruce</p> <p><u>Other Comment:</u> Snowmobile trail protection specs will be needed for a winter cut. There's fresh blue line painted by private for the corporate land to the north.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
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10 41139010-Cut	13.4	42320 - Upland Spruce	Poletimber Well	78	81-110	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	No
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Prescription Clearcut with retention. Clearcut all merchantable trees but don't cut hemlock and cedar if found. Mark a few red pine as reserve for possible regeneration. Proposed long term retention is identified on the map and can be made wider in places. Incorporate mature white pine in line work for wildlife retention.

Next Step Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable Regen: black spruce, balsam fir, red pine, maple, paper birch, white pine, white spruce

Other Comment: Snowmobile trail protection specs will be needed for a winter cut. Acreage may vary depending on field conditions.

Site Condition

Proposed Start Date: 10/1 /2021

23 41139023-Cut	13.5	42200 - Natural White Pine	Sawtimber Medium	120	51-80	Harvest	Overstory Removal	42201 - Natural White Pine, Mixed Deciduous	Even-Aged	No
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Prescription Cut all merchantable species. Don't cut hemlock or cedar if found. Incorporate mature white pine in line work for wildlife retention. Will need a culvert on existing road for creek crossing.

Next Step
Treatments:

Acceptable Regen: white pine, red maple, red pine, balsam fir, paper birch, black spruce, hemlock

Other Comment: Snowmobile trail protection specs will be needed for a winter harvest.

Site Condition

Proposed Start Date: 10/1 /2021

25 41139025-Cut	9.8	42200 - Natural White Pine	Sawtimber Medium	124	51-80	Harvest	Overstory Removal	42201 - Natural White Pine, Mixed Deciduous	Even-Aged	No
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Prescription Cut all white and red pine. Don't cut hemlock or cedar if found. This treatment will release the full sub-canopy. Incorporate mature white pine in line work for wildlife retention.

Next Step
Treatments:

Acceptable Regen: white pine, red maple, balsam fir, black spruce, hemlock, black cherry

Other Comment: Snowmobile trail protection specs will be needed for a winter cut.

Site Condition Survey Needed

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
38 41139038-Cut	75.1	42200 - Natural White Pine	Sawtimber Poor	120	51-80	Harvest	Overstory Removal	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Cut all merchantable trees to 4" DBH. Don't cut hemlock or cedar if found. Incorporate mature white pine in line work for wildlife retention; <u>Specs:</u> BA can be left higher along the snowmobile trail as part of the wildlife retention.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> maple, white pine, black cherry, paper birch, balsam fir, red pine, hemlock, white spruce, black spruce (currently maple dominates)</p> <p><u>Other</u> Snowmobile trail protection specs will be needed for a winter harvest. <u>Comment:</u> Acreage may vary depending on ground conditions as some parts of the west end may be at the low residual target BA already.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
45 41139045-Cut	36.0	42200 - Natural White Pine	Sawtimber Well	124	51-80	Harvest	Seed Tree with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Seed tree all merchantable to 4" DBH, don't cut hemlock or cedar if found. Leave 20-30 BA for seed tree. Snowmobile trail protection specs <u>Specs:</u> will be needed for a winter harvest. Proposed long term retention is identified on the map and can be adjusted.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> maple, white pine, red pine, balsam fir, paper birch, beech, black cherry in any combination. currently maple dominates.</p> <p><u>Other</u> Old treatment boundary will most likely need to be expanded and then leave trees probably marked in green and/or mark more trees <u>Comment:</u> orange. (The cancelled treatment had trees to thin marked orange)</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
47 41139047-Cut	6.0	4113 - R.Maple, Conifer	Sawtimber Well	95	81-110	Harvest	Clearcut with Retention	4113 - R.Maple, Conifer	Even-Aged	No
<p><u>Prescription</u> Clearcut all merchantable trees. Don't cut hemlock or cedar if found. Don't cut bear clawed beech/wildlife beech. Leave some mature white <u>Specs:</u> pine for wildlife and potential seed source. Snowmobile trail protection specs will be needed for a winter harvest.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> maple, white pine, hemlock, black spruce, white spruce, balsam fir, beech, black cherry</p> <p><u>Other</u> 41-037-12-01, Forget Me Not Pine. Sale cancelled, no cutting took place. <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</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
68 41139068-Cut	26.2	42200 - Natural White Pine	Sawtimber Medium	112	81-110	Harvest	Overstory Removal	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Cut all merchantable trees to 4" DBH. Don't cut cedar if found. Incorporate mature white pine in line work for wildlife retention; BA can be left higher along the snowmobile trail as part of the wildlife retention. Leave 30-60 BA in the far southern part of the stand where the hemlock is located.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> maple, white pine, paper birch, balsam fir, black spruce, black cherry (maple currently dominates) <u>Regen:</u></p> <p><u>Other</u> Snowmobile trail protection specs will be needed for a winter harvest. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
73 41139073-Cut	14.7	42200 - Natural White Pine	Sawtimber Medium	124	51-80	Harvest	Overstory Removal	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Cut all merchantable trees to 4" DBH. Don't cut hemlock or cedar if found. Incorporate mature white pine in line work for wildlife retention; BA can be left higher along the snowmobile trail as part of the wildlife retention. Snowmobile trail protection specs will be needed for a winter harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> maple, white pine, paper birch, black cherry, beech, balsam fir, black spruce, white spruce, hemlock (currently maple dominates) <u>Regen:</u></p> <p><u>Other</u> Acreage may vary depending on ground conditions (size may be somewhat larger or smaller depending on density of mature white pine along southern and eastern edges). <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment Acreage Proposed: 250.9

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 139
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail			Dominant Site Conditions						
		With Condition	Not Available		2I	5B	5C	1A	3J	5E	
5	5	0	0	Bog							
6	5	0	1	Cedar				0	1		
36	0	34	2	Hemlock			34		2		
63	58	0	5	Lowland Conifers				1	4		
136	83	0	53	Lowland Shrub				48	4		
102	76	23	3	Lowland Spruce/Fir	23			0	2	1	
5	5	0	0	Marsh							
8	8	0	0	Mixed Upland Deciduous							
54	35	18	1	Northern Hardwood	18				0	1	
117	117	0	0	Treed Bog				0	0		
359	289	61	10	Upland Conifers			61	2	8		
207	196	0	11	Upland Mixed Forest				3	8		
102	45	50	7	Upland Spruce/Fir	15		35	2	3	2	
5	5	0	0	Water							
359	213	131	14	White Pine	10	38	83	3	10	2	
1,565	1,140	316	108	Total Forested Acres	65	38	213	60	42	6	
	73%	20%	7%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	56	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 139
Year of Entry: 2022

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2I: Survey needed	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5B: Maintain for regeneration purposes	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for proposed harvest.							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 139
Year of Entry: 2022

9	Available	2I: Survey needed	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 100' buffer							
11	Available	2I: Survey needed	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Proposed long term retention for proposed 2022 treatment.							
13	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Proposed long term retention for proposed 2022 treatment. BMP issues with slope towards stream in some areas.							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	1A: Federal/State/Local Law	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Fox River 100' zone							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Steve Touvila : Examiner

Compartment: 139
Year of Entry: 2022

16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Pelican Creek high priority trout stream buffer.							
17	Available	2I: Survey needed	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Loon Creek high priority trout stream buffer.							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Grass Creek high priority trout stream buffer.							
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High priority trout stream buffer.							
21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Proposed long term retention for timber sale.							
23	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Proposed long term retention for harvest.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
1	622 - Lowland Shrub	Nonstocked	80.2		Unspecified	No																																																			
2	6224 - Treed Bog	Nonstocked	3.4		Unspecified	No																																																			
3	6122 - Black Spruce	Poletimber Well	24.0	78	81-110	N/A	Diameters are pretty small for the age. The first half of the trees age the growth was fast for black spruce and the second half was very slow. Good time to cut now to start regeneration as there are signs of the stand starting to break apart.																																																		
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>2</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>92</td> <td>Pole/Sapling</td> <td>6</td> <td>78</td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>1</td> <td>Pole</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	2	Pole/Sapling	6		Black Spruce	92	Pole/Sapling	6	78	White Pine	5	Log/Pole	14		Red Maple	1	Pole	6		<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>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>>20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Sapling	Balsam Fir	Low	Variable	Sapling	Black Spruce	Low	>20 feet	Sapling													
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4	6224 - Treed Bog	Nonstocked	2.5		Unspecified	No																																																			
5	42320 - Upland Spruce	Poletimber Well	15.7	78	81-110	N/A																																																			
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Smooth Highbush Blueberry	Low	< 5 feet	Tall Shrub																																																						
6	42350 - Upland Hemlock	Sawtimber Well	36.4	135	81-110	N/A	Good amount of hemlock regeneration. There's a small stream in the southern part of the stand that flows to the east.																																																		
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Balsam Fir	Medium	Variable	Sapling																																																						
Hemlock	High	5 - 10 feet	Sapling																																																						
7	6224 - Treed Bog	Nonstocked	4.7		Unspecified	No																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8 4113 - R.Maple, Conifer Sawtimber Well 18.8 90 81-110 N/A Some of the maple is dying, more so in the log sized maple. Low quality poor form maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Pole	8		Red Maple	Medium	10 - 20 feet	Sapling
Red Maple	66	Log/Pole	10	90	Balsam Fir	Low	Variable	Sapling
Yellow Birch	2	Log	14		Black Spruce	Low	10 - 20 feet	Sapling
Balsam Fir	5	Pole	8		Hemlock	Medium	5 - 10 feet	Sapling
Black Spruce	5	Pole	7					
White Pine	2	XLog	18					
Hemlock	14	Log/Pole	10					
Black Cherry	1	Log	14					

9 4199 - Other Mixed Upland Deciduous Poletimber Medium 8.0 48 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	38	Sapling/Pole	4		Red Maple	Medium	>20 feet	Sapling
Paper Birch	42	Pole/Sapling	5	48	Balsam Fir	Low	Variable	Sapling
Balsam Fir	10	Pole	6		Paper Birch	Low	>20 feet	Sapling
White Pine	5	XLog	20					
Red Pine	3	XLog/Log	18					
Quaking Aspen	2	Pole	7					

10 42320 - Upland Spruce Poletimber Well 15.1 78 81-110 N/A Balsam fir is breaking up.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole	9		Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	2	Pole	9		Black Spruce	Low	10 - 20 feet	Sapling
Balsam Fir	10	Pole	8		Balsam Fir	Medium	Variable	Sapling
Black Spruce	75	Pole	7	78				
Tamarack	2	Pole	7					
White Pine	2	Log/XLog	16					
Red Pine	6	Log/XLog	16					

11 6224 - Treed Bog Nonstocked 21.6 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Low		Sapling
Black Spruce	Low		Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12 6129 - Mixed Coniferous Lowland Forest Poletimber Poor 22.4 77 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	45	Pole/Sapling	5		Black Spruce	Medium	Variable	Sapling
Tamarack	47	Pole/Sapling	5	77	Tamarack	Medium	Variable	Sapling
White Pine	5	Sapling/Pole	9		Labrador Tea	Low	< 5 feet	Tall Shrub
Balsam Fir	3	Pole/Sapling	5		Leatherleaf	Low	< 5 feet	Tall Shrub

13 6224 - Treed Bog Nonstocked 3.0 Unspecified No

15 6124 - Lowland Spruce-Fir Poletimber Well 17.9 43 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6		Balsam Fir	Medium	10 - 20 feet	Sapling
Balsam Fir	35	Pole	6	43	Black Spruce	Low	10 - 20 feet	Sapling
Black Spruce	25	Pole	6		Northern White Cedar	Low	5 - 10 feet	Sapling
Northern White Cedar	30	Pole	6		Tag Alder	Low	5 - 10 feet	Tall Shrub

16 429 - Mixed Upland Conifers Poletimber Well 46.6 57 81-110 N/A

Black cherry has died back. As seen in the imagery there are small open areas scattered throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole	8		White Pine	Low	10 - 20 feet	Sapling
Balsam Fir	13	Pole	8		Balsam Fir	Low	10 - 20 feet	Sapling
White Spruce	30	Pole	8	57	White Spruce	Low	10 - 20 feet	Sapling
Black Spruce	15	Pole	7		Black Spruce	Low	10 - 20 feet	Sapling
Tamarack	1	Pole	8					
White Pine	35	Pole	8	57				
Red Pine	3	Log	16					
Black Cherry	1	Log	12					

17 6122 - Black Spruce Poletimber Well 34.8 57 51-80 N/A

Stand is dense and maturing.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	5		Labrador Tea	Medium	< 5 feet	Tall Shrub
Black Spruce	85	Pole/Sapling	5	57				
Northern White Cedar	5	Pole/Sapling	7					
Tamarack	5	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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18	42320 - Upland Spruce	Poletimber Medium	8.5	57	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	8	
Black Spruce	62	Pole	7	57
Tamarack	3	Pole	10	
White Pine	20	Pole	9	57
Balsam Fir	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling
Black Cherry	Trace	5 - 10 feet	Sapling

19	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	4.8	74	51-80	N/A	Stand cut in 2005. Regen looks good.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	7	Pole	9	
Red Maple	70	Log/Pole	11	74
Yellow Birch	2	Pole/Log	8	
Beech	6	Pole	8	
White Pine	5	XLog/Log	18	
Hemlock	5	Log/Pole	10	
Black Cherry	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple	High	10 - 20 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling
Hemlock	Low	5 - 10 feet	Sapling
Black Cherry	Low	10 - 20 feet	Sapling

21	6120 - Lowland Cedar	Poletimber Medium	6.3	80	51-80	N/A	Low quality 2 aged stand with cedar regeneration.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	20	Pole	8	
Tamarack	5	Pole	8	
Northern White Cedar	75	Pole	8	80

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Northern White Cedar	Medium	Variable	Sapling

22	500 - Water	Nonstocked	2.4		Unspecified	No	
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23	42200 - Natural White Pine	Sawtimber Medium	15.9	120	51-80	N/A	Stand was cut in 2001 with adjacent stands. BA averages 70.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	100	XLog/Log	18	120

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	5 - 10 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Trace	5 - 10 feet	Sapling
White Pine	High	5 - 10 feet	Sapling
Paper Birch	Trace	5 - 10 feet	Sapling
Red Pine	Trace	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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24 429 - Mixed Upland Conifers Sapling Well 37.1 18 Immature N/A Cut in 2001. Great regeneration coming in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	12	Sapling	2		White Pine	Low	< 5 feet	Sapling
Paper Birch	10	Sapling	2					
Balsam Fir	11	Sapling	2					
Black Spruce	10	Sapling	2					
White Pine	2	XLog/Log	18					
White Pine	55	Sapling	2	18				

25 42200 - Natural White Pine Sawtimber Medium 10.2 124 51-80 N/A Stand cut in 2001 with the stands to the south. BA ranges from 30 to 80 with an average of 51. Northern 1/3 averages 60 BA.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	95	Log/XLog	16	124	Red Maple	High	10 - 20 feet	Sapling
Red Pine	5	Log/XLog	16		Balsam Fir	Low	5 - 10 feet	Sapling
					Black Spruce	Low	5 - 10 feet	Sapling
					White Pine	Medium	5 - 10 feet	Sapling
					Black Cherry	Trace	5 - 10 feet	Sapling

26 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 23.0 64 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	4	Pole	8		Red Maple	Medium	>20 feet	Sapling
Balsam Fir	5	Pole	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	31	Pole	7	64	Black Spruce	Low	>20 feet	Sapling
Northern White Cedar	30	Pole	8		Northern White Cedar	Medium	10 - 20 feet	Sapling
Tamarack	30	Pole	8					

27 6233 - Wet Meadow Nonstocked 4.9 Unspecified No

29 429 - Mixed Upland Conifers Poletimber Poor 5.4 65 1-50 N/A Opening slowly filling in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	50	Pole/Sap/Log	7	65	Black Spruce	Medium	5 - 10 feet	Sapling
Blue Spruce	50	Pole/Sapling	7		Black Cherry	Medium	5 - 10 feet	Sapling
					Quaking Aspen	Low	5 - 10 feet	Sapling
					White Pine	Medium	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30 42200 - Natural White Pine Sawtimber Medium 27.7 124 51-80 N/A Healthy stand with less advanced regeneration than the stands that are proposed for treatments.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	2	Pole	8		Red Maple	Medium	10 - 20 feet	Sapling
White Pine	62	Log/Pole/XLog	15	124	Quaking Aspen	Low	10 - 20 feet	Sapling
Red Pine	35	Log/Pole/XLog	14	72	Balsam Fir	Low	Variable	Sapling
Hemlock	1	Pole	8		White Pine	Low	5 - 10 feet	Sapling
					Red Pine	Trace	5 - 10 feet	Sapling
					Beech	Trace	5 - 10 feet	Sapling

31 429 - Mixed Upland Conifers Sapling Medium 29.4 19 Immature N/A Stand was cut in 2001.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	1	Sapling	2		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	5	Sapling	3		White Pine	Low	5 - 10 feet	Pole
Balsam Fir	3	Sapling	3					
Black Spruce	30	Sapling	3	19				
White Pine	5	Log/XLog	16	124				
Red Pine	25	Sapling	3					
White Pine	30	Sapling	3	19				
Black Cherry	1	Sapling	3					

32 42320 - Upland Spruce Poletimber Well 27.0 78 81-110 N/A Healthy stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	1	Pole	8		Red Maple	Low	10 - 20 feet	Sapling
Paper Birch	1	Pole/Log	8		White Pine	Low	5 - 10 feet	Sapling
Balsam Fir	10	Pole	7		Balsam Fir	Medium	Variable	Sapling
Black Spruce	65	Pole	7	78	Red Pine	Trace	5 - 10 feet	Sapling
Tamarack	1	Pole	7		Paper Birch	Low	>20 feet	Sapling
White Pine	17	Log/XLog	16		Black Spruce	Low	10 - 20 feet	Sapling
Red Pine	3	Log/XLog	16		Hemlock	Trace	5 - 10 feet	Sapling
Quaking Aspen	1	Pole/Log	9					
Hemlock	1	Log	14					

33 6224 - Treed Bog Nonstocked 5.0 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Low		Sapling
Paper Birch	Medium		Sapling
Black Spruce	Medium		Sapling
White Pine	Trace		Sapling

34 6224 - Treed Bog Nonstocked 5.1 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
35	42330 - Upland Fir	Sapling Well	7.2	33	1-50	N/A	Very think regeneration. Still mainly sapling size.																																																															
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Balsam Fir	65	Sapling/Pole	3	33																																																																		
White Pine	10	Sapling	4																																																																			
Paper Birch	10	Sapling/Pole	4																																																																			
Black Spruce	10	Sapling/Pole	4																																																																			
36	6122 - Black Spruce	Sapling Medium	9.8	13	Immature	N/A	Stand was cut in 2007. Regen now filling in.																																																															
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White Pine	45	Sapling	2																																																																			
Black Spruce	55	Sapling	1	13																																																																		
38	42200 - Natural White Pine	Sawtimber Poor	113.7	120	51-80	N/A	Stand was cut in 2001 with adjacent stands. Good regeneration that can now be released with an overstory removal. Current BA in the proposed harvest area ranges from 30-110.																																																															
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39	500 - Water	Nonstocked	2.6		Unspecified	No																																																																
40	6122 - Black Spruce	Poletimber Poor	6.9	64	1-50	N/A																																																																
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Hemlock	1	Pole	7																																																																			
Balsam Fir	15	Pole/Sapling	5																																																																			
41	6224 - Treed Bog	Nonstocked	9.8		Unspecified	No																																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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42 429 - Mixed Upland Conifers Sawtimber Medium 60.7 115 81-110 N/A Healthy stand with good regeneration.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	17	Pole	7	73	Red Maple	High	>20 feet	Sapling
Balsam Fir	18	Pole	7	52	Balsam Fir	High	>20 feet	Sapling
Black Spruce	10	Pole	7	63	Paper Birch	Low	>20 feet	Sapling
White Pine	35	Log/XLog	16	115	Hemlock	Medium	Variable	Sapling
Hemlock	15	Pole/Log/XLog	9		White Pine	Trace	5 - 10 feet	Sapling
White Spruce	3	Log	14		Yellow Birch	Trace	>20 feet	Sapling
Northern White Cedar	2	Log	12					

43 6224 - Treed Bog Nonstocked 18.4 Unspecified No

45 42200 - Natural White Pine Sawtimber Well 37.5 124 51-80 N/A Advanced red maple regeneration that is ready to be released.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole	7		White Pine	Low	10 - 20 feet	Sapling
White Pine	75	Log/XLog	16	124	Black Cherry	Trace	>20 feet	Sapling
Red Pine	20	Log	16		Red Maple	Full	>20 feet	Sapling
Balsam Fir	2	Pole	7		Paper Birch	Trace	>20 feet	Sapling
					Beech	Trace	>20 feet	Sapling

46 622 - Lowland Shrub Nonstocked 3.7 Unspecified No

47 4113 - R.Maple, Conifer Sawtimber Well 6.0 95 81-110 N/A Mature maple of all sizes are dying back in the tree crowns. Should restart this stand with a treatment.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	65	Log/Pole	10	95	Red Maple	Medium	10 - 20 feet	Sapling
Beech	2	Pole	8		Beech	Low	5 - 10 feet	Sapling
Balsam Fir	2	Pole	6		Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce	2	Pole	6		White Pine	Medium	5 - 10 feet	Sapling
White Pine	20	Log/XLog	10	124	Hemlock	Medium	5 - 10 feet	Sapling
Hemlock	5	Pole/Log	9					
Black Cherry	4	Pole	9					

48 6224 - Treed Bog Nonstocked 3.8 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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49 429 - Mixed Upland Conifers Sapling Poor 22.8 13 Immature N/A Stand was cut in 2007 as part of Frozen Leg Sunken S 410350201.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	40	Sapling	2	13
White Pine	5	Log/XLog	16	126
Black Cherry	25	Sapling	2	
Jack Pine	20	Sapling	2	
Red Maple	3	Sapling	1	
Balsam Fir	3	Sapling	2	
White Pine	4	Sapling	2	

50 42200 - Natural White Pine Poletimber Medium 26.7 37 1-50 N/A Stand cut in 1982. Removed all spp then thinned the pine. Regen coming in well.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole/Sapling	6	37	Black Spruce	Medium	10 - 20 feet	Sapling
Black Spruce	20	Sapling/Pole	4		White Pine	Low	5 - 10 feet	Sapling
White Pine	76	Pole/Sap/Log	5	37				
Paper Birch	2	Sapling	3					

51 6122 - Black Spruce Sapling Poor 10.6 13 Immature N/A Cut in 2007 as part of Frozen Leg Sunken S 410350201.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	50	Sapling	1	13
White Pine	45	Sapling	2	
Balsam Fir	3	Sapling	1	
Red Maple	2	Sapling	2	

52 4113 - R.Maple, Conifer Poletimber Well 16.0 50 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole	6		Red Maple	Medium	>20 feet	Sapling
Red Maple	65	Pole/Sapling	6	50	White Pine	Medium	Variable	Sapling
White Pine	20	Pole	8		Hemlock	Medium	10 - 20 feet	Sapling
Hemlock	5	Log/Pole	14					

53 6225 - Bog Nonstocked 5.3 Unspecified No

54 42200 - Natural White Pine Sawtimber Well 61.5 120 81-110 N/A Mature stand with a sparse sub canopy.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	8	Pole/Log	8		Red Maple	Low	>20 feet	Sapling
Paper Birch	2	Pole	7		Balsam Fir	Low	>20 feet	Sapling
Balsam Fir	5	Pole	7		White Pine	Low	< 5 feet	Sapling
Black Spruce	5	Pole	8		Hemlock	Low	5 - 10 feet	Sapling
White Pine	70	Log/XLog/Pole	16	120	Yellow Birch	Low	>20 feet	Sapling
Hemlock	10	Log/Pole	14		Paper Birch	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
56	6224 - Treed Bog	Nonstocked	5.3		Unspecified	No																																																				
57	429 - Mixed Upland Conifers	Sapling Well	65.6	34	1-50	N/A	Stand treated in 86. Regen looks good. Mature white pine reserved averaging 10-30 BA.																																																			
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58	429 - Mixed Upland Conifers	Sapling Well	13.0	34	1-50	N/A																																																				
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60	4319 - Mixed Upland Forest	Sawtimber Medium	5.6	85	51-80	N/A	Mix of mature white pine and red maple. Was thinned in 2007.																																																			
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61	622 - Lowland Shrub	Nonstocked	42.5		Unspecified	No																																																				
63	6224 - Treed Bog	Nonstocked	17.8		Unspecified	No																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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64	429 - Mixed Upland Conifers	Sapling Well	40.4	34	1-50	N/A	Thick regeneration.																																										
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65	622 - Lowland Shrub	Nonstocked	2.5		Unspecified	No	
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67	42340 - Upland Spruce/Fir	Sapling Well	23.7	33	1-50	N/A	Cut in 1986. Less than 10 BA mature white pine.																																																
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68	42200 - Natural White Pine	Sawtimber Medium	27.5	112	81-110	N/A	Hemlock is in southern tip of the stand. Sub canopy density varies some. South of the snowmobile trail is dense red maple saplings. Overall the stand has a full sub canopy that is ready for release. BA north of the trail is 51-80 and south of the trail it is 81-110.																																								
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69	6122 - Black Spruce	Sapling Well	4.2	33	1-50	N/A																				
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70	4319 - Mixed Upland Forest	Sapling Well	42.9	33	1-50	N/A	Stand cut in 1982. Was part of old stands 35 and 29. Rengen looks good. More conifer type near the river. Some scattered log size white pine left uncut.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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71	6122 - Black Spruce	Sapling Well	4.6	38	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		10	Sapling/Pole	4		Balsam Fir	Density
Black Spruce		80	Sapling/Pole	4	38		Avg. Height
White Pine		10	Pole/Log	9			Size

72	6224 - Treed Bog	Nonstocked	2.1		Unspecified	No	
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73	42200 - Natural White Pine	Sawtimber Medium	15.0	124	51-80	N/A	Full red maple regeneration that is ready for release.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		2	Pole	9		Red Maple	Density
White Pine		94	Log/XLog	16	124	Paper Birch	Avg. Height
Balsam Fir		4	Pole	7		White Pine	Size
						Balsam Fir	

74	6224 - Treed Bog	Nonstocked	2.6		Unspecified	No	
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75	429 - Mixed Upland Conifers	Sapling Well	38.3	35	1-50	N/A	Thick regeneration.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		25	Sapling/Pole	4		Red Maple	Density
Paper Birch		2	Sapling/Pole	4		Black Spruce	Avg. Height
Black Spruce		3	Sapling/Pole	4		Balsam Fir	Size
Black Cherry		10	Sapling/Pole	4			
Balsam Fir		50	Sapling/Pole	4	35		
White Pine		10	Sapling/Pole	4			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
76	4319 - Mixed Upland Forest	Sapling Well	158.4	13	1-50	N/A	Stand was cut in 2007. Removed all species and marked the pine to be thinned. Regen is coming back very well. There are scattered pockets of red pine, hemlock and paper birch. Mature white pine averages 10-30 BA with a few islands being higher. Good structure and variety left from harvest.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		35	Sapling	2	13			
Balsam Fir		15	Sapling	2				
Black Spruce		2	Sapling	4				
White Pine		24	Sapling	2				
Beech		3	Sapling	2				
Quaking Aspen		2	Sapling	2				
Yellow Birch		1	Sapling	2				
Hemlock		2	Sapling	2				
White Pine		10	Log/XLog	16	124			
Red Maple		1	Log	11				
Hemlock		2	Log	16				
Red Pine		1	Log	14				
Paper Birch		2	Sapling/Pole	2				
77	6122 - Black Spruce	Sapling Well	6.8	46	1-50	N/A		
Canopy Species		% Cover	Size Class	DBH	Age			
Black Spruce		80	Sapling/Pole	4	46			
Balsam Fir		10	Sapling/Pole	4				
White Pine		10	Pole/Sapling	5				
Sub-Canopy Species		Density	Avg. Height	Size				
Balsam Fir		Trace	5 - 10 feet	Sapling				
78	6224 - Treed Bog	Nonstocked	9.1		Unspecified	No		
80	622 - Lowland Shrub	Nonstocked	6.8		Unspecified	No		
81	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.1	95	51-80	N/A		
Canopy Species		% Cover	Size Class	DBH	Age			
Sugar Maple		5	Pole	9				
Red Maple		80	Log/Pole	10	95			
White Pine		10	Log/XLog	16				
Black Cherry		5	Pole/Log	9				
Sub-Canopy Species		Density	Avg. Height	Size				
Red Maple		Medium	10 - 20 feet	Sapling				
Sugar Maple		Medium	10 - 20 feet	Sapling				
Beech		Low	10 - 20 feet	Sapling				
White Pine		Trace	5 - 10 feet	Sapling				
82	6224 - Treed Bog	Nonstocked	2.9		Unspecified	No		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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83 42320 - Upland Spruce Poletimber Well 5.0 78 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	75	Pole	8	78	Red Maple	Low	5 - 10 feet	Sapling
White Pine	20	Log/XLog	16		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	5	Pole	7					