



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41047

Entry Year 2025

Acreage: 2,104

County Schoolcraft

Management Area: Seney Lake Plain

Stand Examiner: Thomas Burnis

Legal Description:

T43N R14W Sections 1,12,13,23,24

Identified Planning Goals:

Timber production and wildlife management.

Soil and topography:

Topography is mainly flat, with a mix of marsh and low ridges. The soil type in the majority of the compartment is sauetuck.

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

County road 433 runs through the compartment providing access to multiple blocks of private land and hunting camps.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment contains Boucher Creek and the Main Branch Manistique River. Boucher Creek and the Main Branch Manistique River are non-designated streams less than 50-foot wide. A minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended Boucher Creek and the Main Branch Manistique River to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment lies within the Seney sand lake plain ecological sub-subsection and is dominated by lowlands that drain into the Manistique River to the west. Pre-settlement lowland forests contained monotypic black spruce stands as well as mixed stands of hemlock, white birch, elm, red maple, cedar, white pine, balsam fir and tamarack. Open marsh areas contained pine ridges with white pine, red pine, and white birch. The upland areas along the river appear to have consisted of mixed forest containing hemlock, sugar maple, red maple, white pine, basswood, and elm. Jack pine has replaced red and white pine as the dominant tree on most of the pine ridges. However, the uplands along the Manistique River likely have a similar species composition to that found during pre-settlement times with a small increase in the aspen component. The wildlife habitat goals in this compartment include providing old growth characteristics along the Manistique River, promoting the hemlock component, and maintaining age class diversity between swamp conifer stands. Wildlife species of special interest potentially utilizing this compartment include wood turtle, black-backed woodpecker, and spruce grouse

Mineral Resource and Development Concerns and/or Restrictions

Sections 1,12-14, 23 & 24, T43N-R14W, Schoolcraft County

Surface sediments consist of lacustrine (lake) sand and gravel, peat and muck and coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Silurian Manitoulin Dolomite and Ordovician Queenston Shale subcrop below the glacial drift. The Manitoulin is used for stone. The nearest gravel pit is 2 miles to the northeast and there may be some gravel potential on the north end. There is no commercial oil and gas production in the UP.

Compartment 47 Section 19, T43N-R13W and sections 1,12-13, & 23-24, T43N-R14W, Schoolcraft County

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. The nearest known active sand/gravel pit is three miles east. The compartment is dominated by wetlands, which would inhibit significant surface mining. No current mineral leasing activity exists in the area, and there are no notable prospects for mineral development in the area at this time. The State does not own all the mineral rights

within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

A county road runs through and alongside of the compartment however, there is no access to most of the compartment due to marsh areas.

Survey Needs:

None

Recreational Facilities and Opportunities:

Snowmobile Trail #2 barely touches the southeast corner of the compartment. Avoid use of the trail for logging activities if possible. If the trail must be used for access, do not plow to bare ground and keep the trail/road maintained as wide as possible.

Fire Protection:

Limited access to marsh and pine ridges.

Additional Compartment Information:

The following reports from the Inventory are attached:

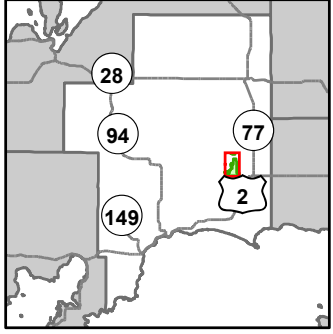
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

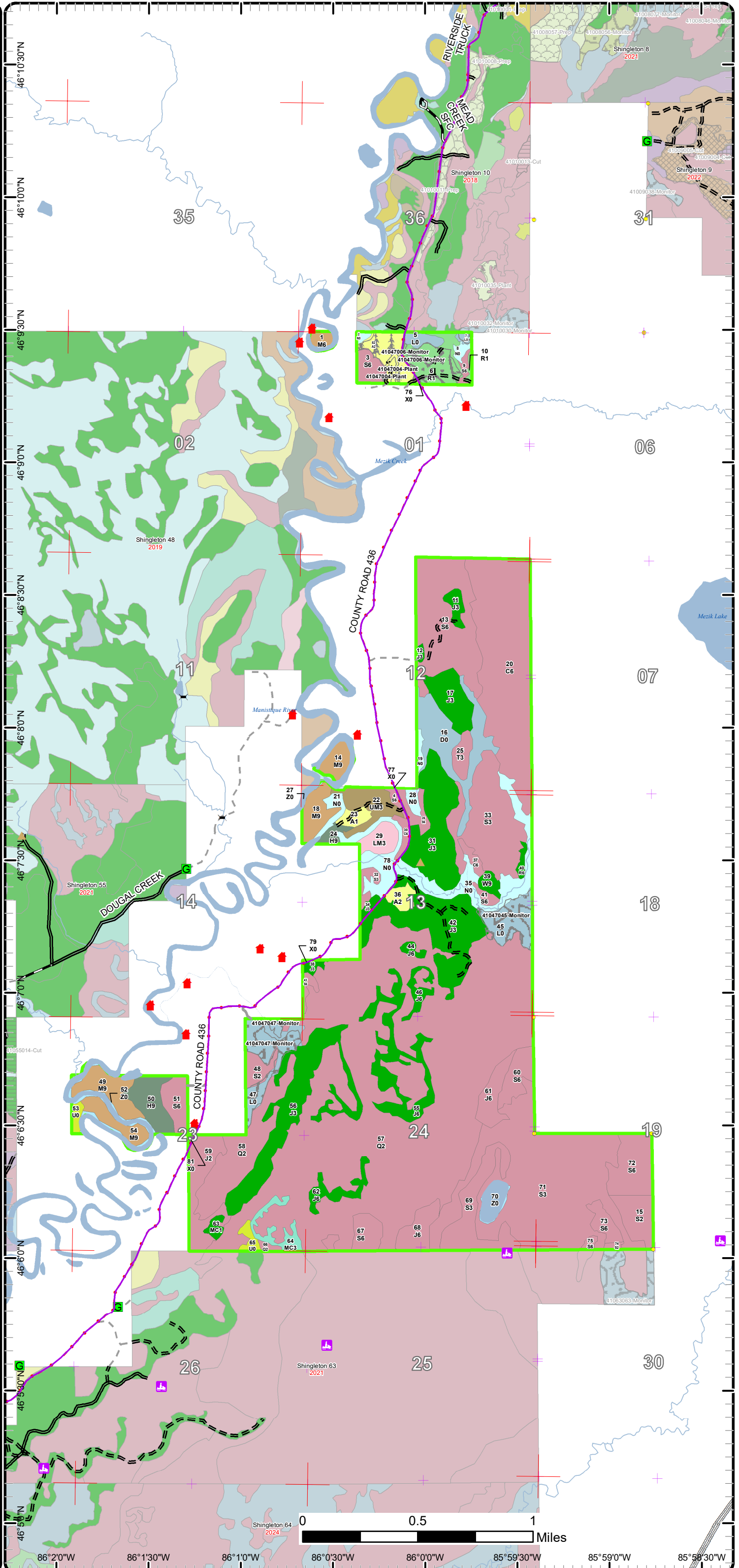
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 47
 T43N, R14W, Sec. 1, 12, 13, 23, 24
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Seney Lake Plain
 YOE: 2025
 Acres: 2104.4 GIS Calculated
 Examiner: Thomas Burnis
 Map Revised: 8/21/2023
 Map Phase: Review

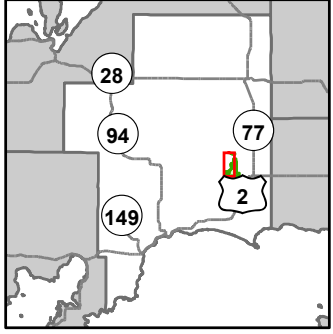


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- .- County - Gravel Road
- Private - Paved Road
- - Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Cabin
- ▲ Berms
- Gate
- × Bridges
- Compartment Boundary
- Planting (Tree Species)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

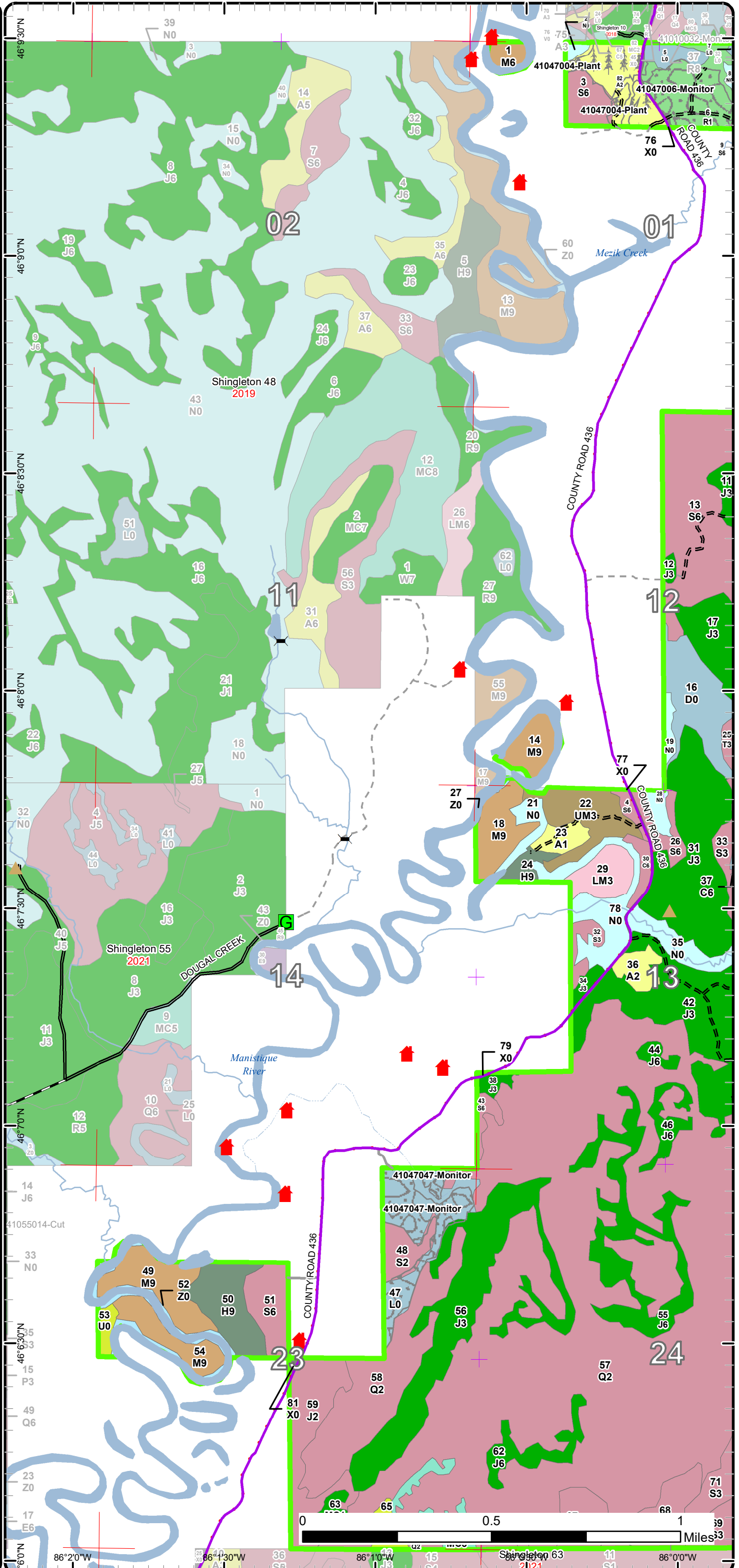


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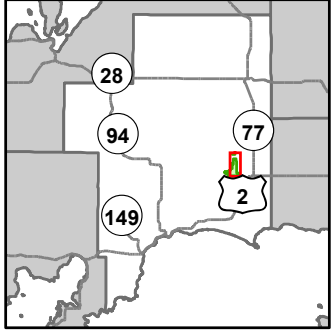


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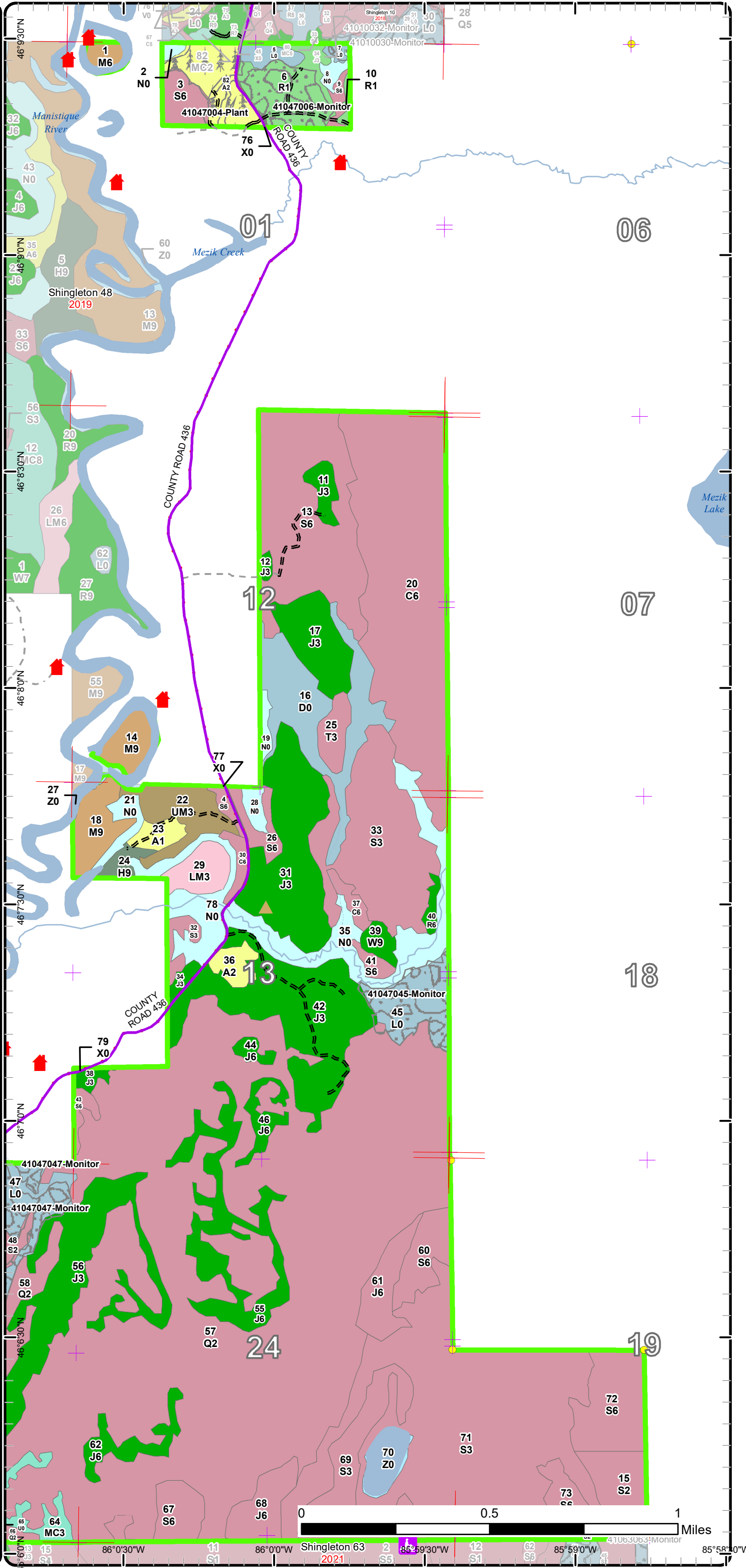


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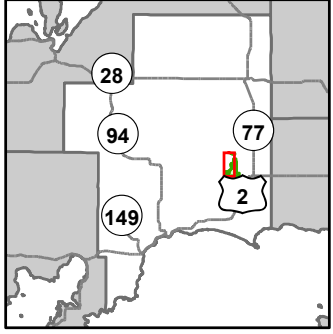
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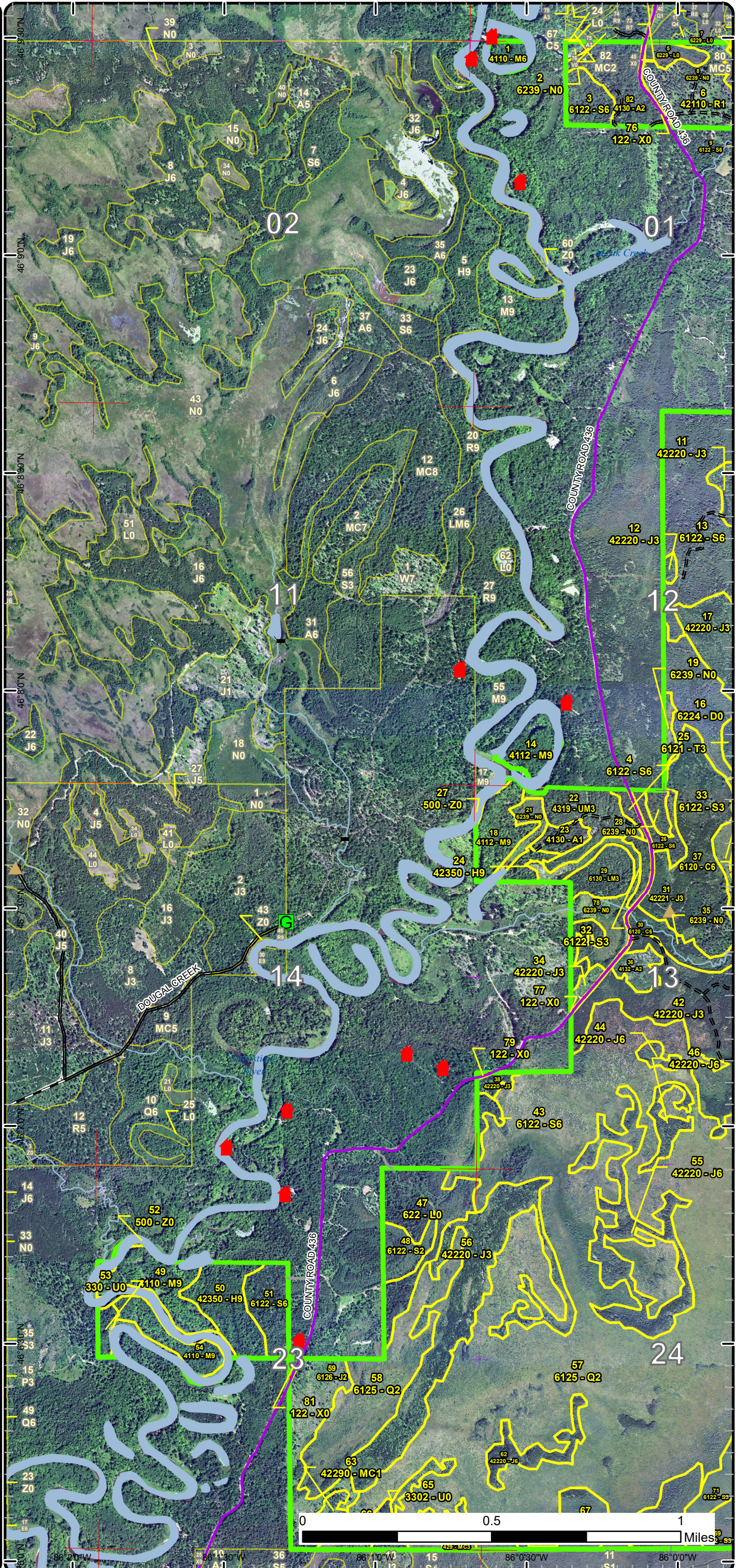
46°59'30"N 86°0'30"W 11 S1 86°0'0"W Shingleton 63 2 S5 85°59'30"W 12 S1 62 S6 85°59'0"W 41063063-Monitor 85°58'30"W

Stand Boundary Map

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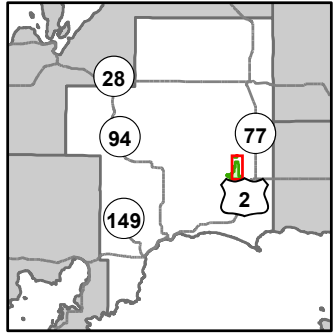


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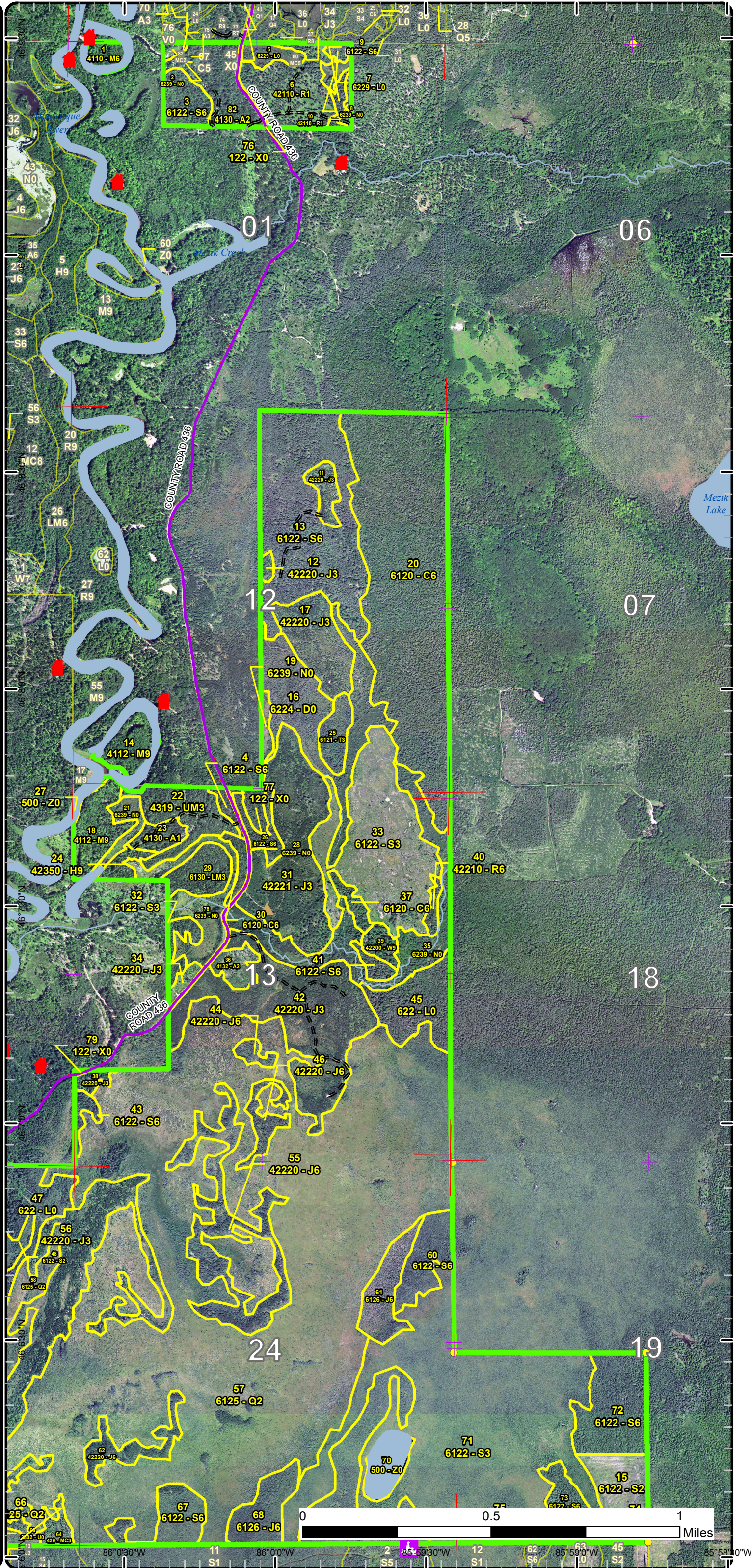


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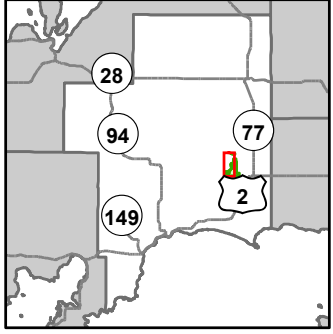


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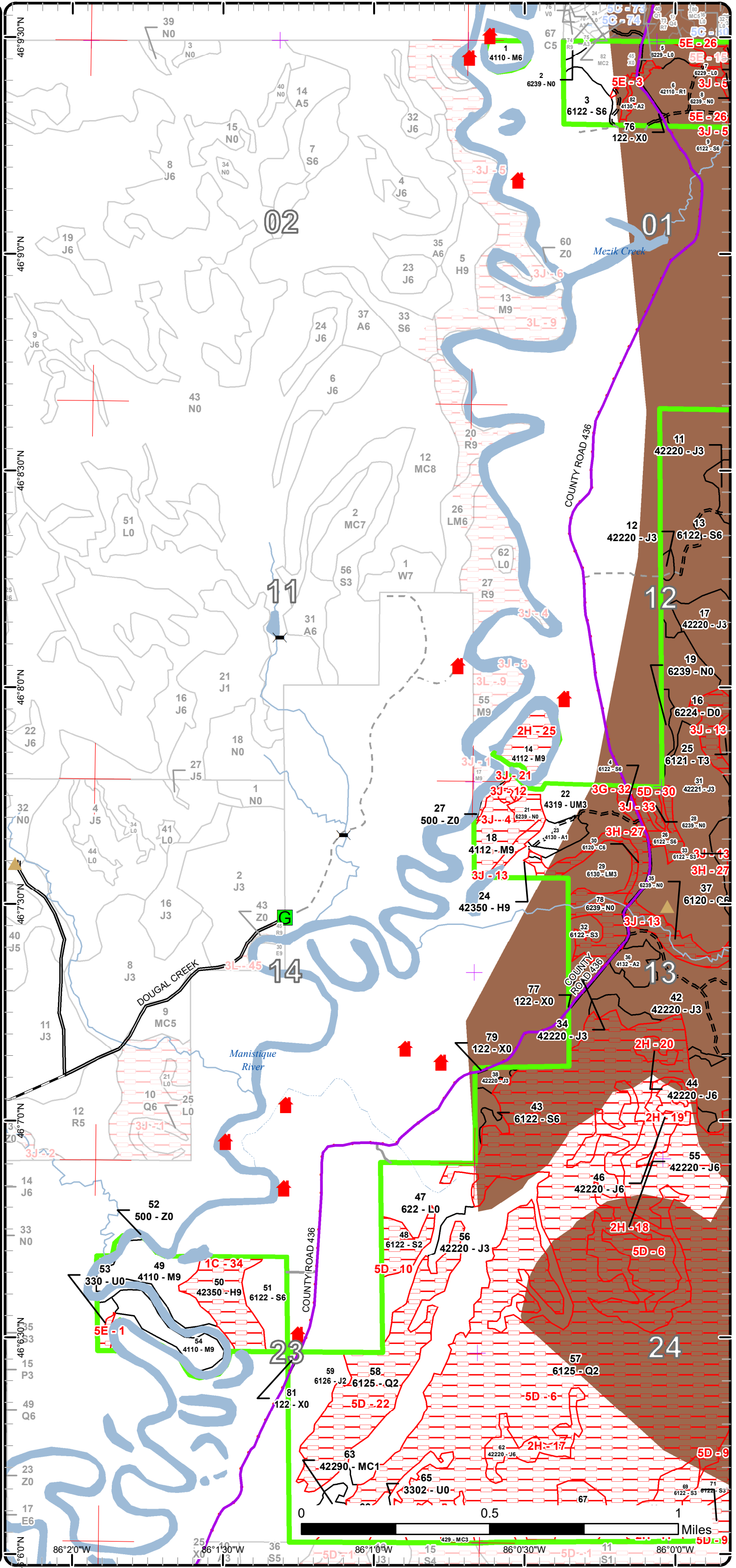


Special Conservation Areas

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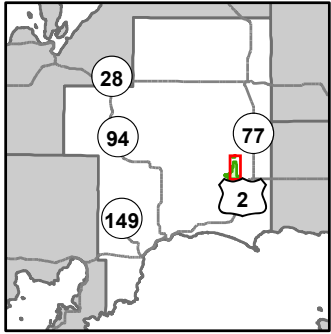


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- Unavailable
- 1C: Other dept or div proc/practices
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range

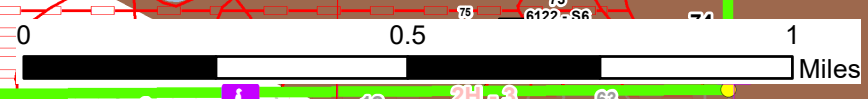
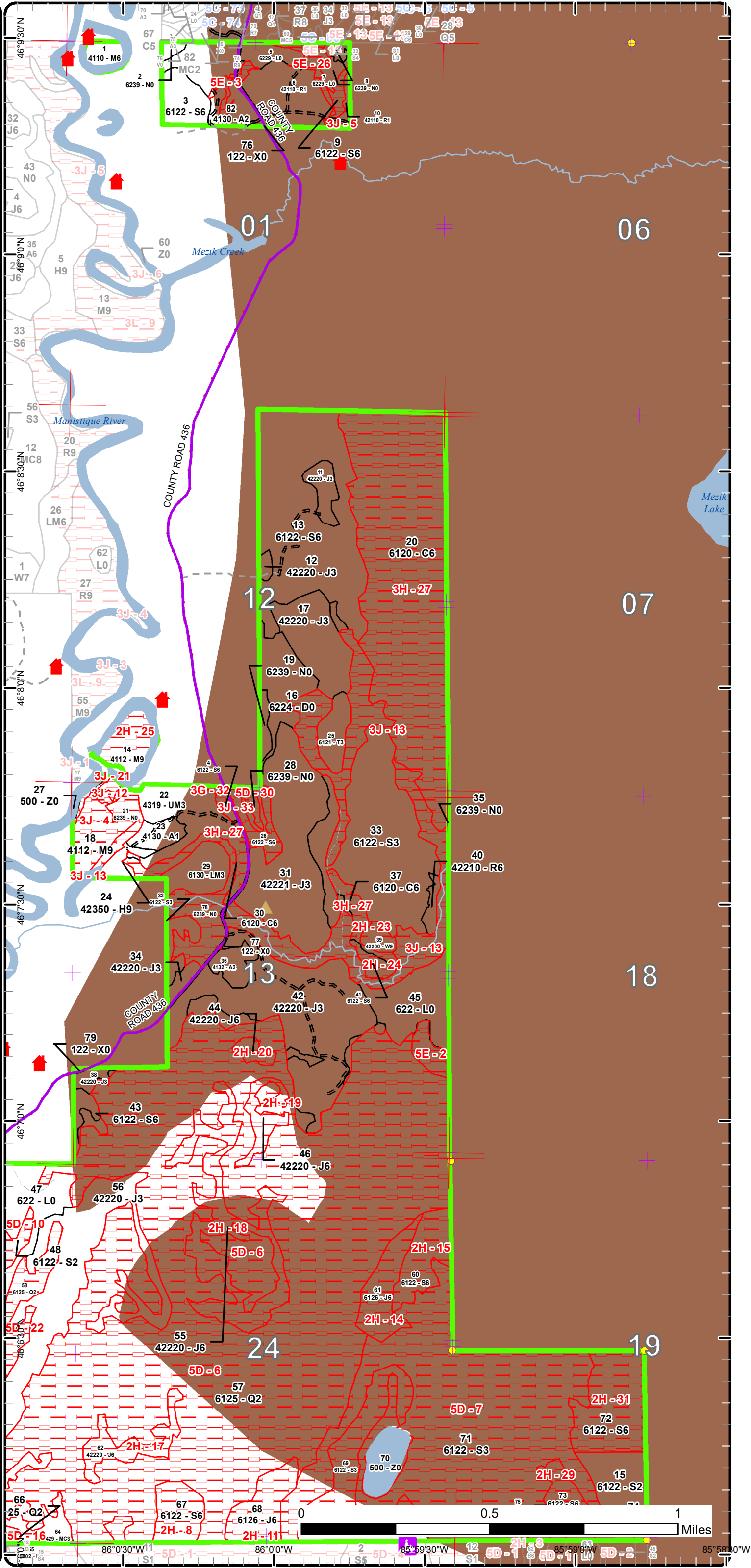


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- Deer Winter Range



86°0'30"W 86°0'0"W 85°59'30"W 85°59'00"W



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	26	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	8	139	0	0	0	147
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0	25
Jack Pine	0	0	33	119	99	0	0	0	42	49	0	0	0	0	0	0	0	0	342
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	0	0	0	0	669	0	0	0	0	0	0	0	0	0	0	669
Lowland Mixed Forest	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Shrub	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Lowland Spruce/Fir	0	20	67	0	0	5	0	204	126	55	42	0	0	0	0	0	0	0	519
Marsh	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75
Natural Mixed Pines	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Northern Hardwood	0	0	0	0	0	0	0	0	0	6	46	0	0	0	0	0	0	15	67
Red Pine	0	27	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	30
Tamarack	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Treed Bog	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Upland Conifers	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Upland Mixed Forest	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	19
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5
Total	218	77	100	130	124	24	0	876	168	110	88	0	0	8	144	0	25	15	2107



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 47
Total Compartment Acres: 2,104

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

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	0	0	18	0	0	0	71	0	0	89
Next Step	0	20	18	0	0	0	0	0	0	38
Total	0	20	36	0	0	0	71	0	0	127



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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Approved Treatments:

82	41047004-Plant	18.0	4130 - Aspen	Sapling Medium	4	Immature	Planting	Interplant	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Plant Oak <u>Specs:</u> <u>Next Step</u> Planting, Initial Plant <u>Treatments:</u> <u>Acceptable</u> Mix of deciduous and conifers. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 9 /14/2022</p>											
6	41047006-Monitor	20.1	42110 - Planted Red Pine	Sapling Poor	5	1-50	Monitoring	Artificial Regen(3yr)	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching <u>Treatments:</u> <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2024</p>											
7	41047007-Monitor	1.4	6229 - Mixed lowland shrub	Nonstocked	0		Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Any current species on-site. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2027</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
45 41047045-Monitor	22.8	622 - Lowland Shrub	Nonstocked	0		Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Mixed deciduous and conifer. <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2032</p>										
47 41047047-Monitor	27.0	622 - Lowland Shrub	Nonstocked	0		Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Mixed deciduous and conifer. <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2032</p>										

Total Treatment Acreage Proposed: 89.3

Report 4 – Site Conditions

Shingleton Mgt. Unit
Thomas Burnis : Examiner

Compartment: 47
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions								
		With Condition				1C	2H	3G	3H	3J	5D	5E		
32	30	0		2	Aspen									2
147	0	0		147	Cedar		0		147					
25	4	0		21	Hemlock	20				0				
342	251	0		91	Jack Pine		91				0			
8	6	0		2	Low-Density Trees						0		2	
669	21	0		649	Lowland Conifers						643		5	
11	11	0		0	Lowland Mixed Forest									
59	58	0		0	Lowland Shrub						0		0	
520	200	0		321	Lowland Spruce/Fir		73	2	0	9	236			
75	9	0		66	Marsh		1		1	63	2			
4	4	0		0	Natural Mixed Pines									
66	38	0		28	Northern Hardwood		13			15				
30	24	0		6	Red Pine					0			6	
8	8	0		0	Tamarack									
44	18	0		26	Treed Bog					26				
11	11	0		0	Upland Conifers						0			
19	19	0		0	Upland Mixed Forest									
5	4	0		1	Urban				0	1			0	
27	26	0		1	Water					1				
5	0	0		5	White Pine		5							
2,104	740			1,364	Total Forested Acres	20	181	2	148	116	881		15	
	35%			65%	Relative Percent									

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Thomas Burnis : Examiner

Compartment: 47
Year of Entry: 2025

2	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention area for stand 45							
3	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Drainage retention for stands 4 and 6.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Protect drainages to river and vernal ponds.							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5D: Unproductive Forest Land	602	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High water table. Sparsley covered with short stunted low quality trees.							
7	Unavailable	5D: Unproductive Forest Land	190	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High water table. Densly covered with short stunted low quality trees.							
8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Thomas Burnis : Examiner

Compartment: 47
Year of Entry: 2025

9	Unavailable	5D: Unproductive Forest Land	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High water table. High density but very slow growing trees.							
10	Unavailable	5D: Unproductive Forest Land	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High water table. High density slow growing trees.							
11	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Protect drainages to river and vernal ponds.							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	90	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	15		Unspecified	Unspecified	Unspecified
Comments: Poor quality short trees. Access across sensitive soils with high water table.							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Thomas Burnis : Examiner

Compartment: 47
Year of Entry: 2025

15	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	15	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Access through sensitive soils with high water table.							
16	Unavailable	5D: Unproductive Forest Land	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High water table. trees are old but of sapling size.							
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Short crossing on lowland site. Factor limits due to similar unsold sales.							
18	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Short crossing on lowland site. Factor limits due to similar unsold sales.							
19	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Short crossing on lowland site. Factor limit due to similar unsold sales.							
20	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Short crossing on lowland site. Factor limit due to similar unsold sales.							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Thomas Burnis : Examiner

Compartment: 47
Year of Entry: 2025

21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: River buffer.							
22	Unavailable	5D: Unproductive Forest Land	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: small stand, different access.							
24	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small stand, difficult access.							
25	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Island of timber surrounded by river slough.							
26	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Thomas Burnis : Examiner

Compartment: 47
Year of Entry: 2025

27	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	148	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	5D: Unproductive Forest Land	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	3G: Other Influence zones - See comments	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Travel influence, small acreage, drainages							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Thomas Burnis : Examiner

Compartment: 47
Year of Entry: 2025

33	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments: Travel influence, small acreage, multiple drainages.							
34	Unavailable	1C: Other dept or div proc/practices	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: stand is up for exchange.							

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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
1	4110 - Sugar Maple Association	Poletimber Well	5.5	85	81-110	N/A	Select cut in 1978 but must have been cut heavy. M6 stand with an M3 understory, almost all hard maple.																																														
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2	6239 - Mixed Emergent Wetland	Nonstocked	1.5			No																																															
3	6122 - Black Spruce	Poletimber Well	10.0	66		N/A																																															
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4	6122 - Black Spruce	Poletimber Well	2.4	79	51-80	N/A	2023: harvestable, acreage reduced due to drainages and areas of unmerchantable trees. stand better left for drain buffers and aesthetics along road.																																														
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5	6229 - Mixed lowland shrub	Nonstocked	5.2			No																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	42110 - Planted Red Pine	Sapling Poor	25.4	5	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Sapling	1	5

[3-10-05 BB] Just Off The Road Sale 11-05 Residual Volumes= Red Pine=50sq ft, White Pine = 3 sq. ft.
TO: Jeff Stampfly

FROM: Bob Burnham

SUBJECT: Compartment 47 OI Change

The intent of this memo is to request approval to make a change in OI. When prepping Sale 11-05, Just Off the Road Sale we determined that Stand 2 in Compartment 47 needed a little tweaking. The stand is typed as an R6 and is scheduled for a thinning. However, the residual stocking of red and white pine is quite variable since it's a natural stand. There are several areas where the residual basal area is 0-30 square feet per acre, these areas were stocked mainly with jack pine. We would like to do some cultural work to these areas in the form of scarification, the adjacent stands that are part of the sale call for scarification so t

stand was cut in fall 2016 River Road Stretch
Burned in September 2017, Trenched in Nov 2017
5/22/18: Planted by Superior Forestry. Oversight by Forest Resource Services (Grossman Forestry Co.).

Quality checks: 0.00% too deep, stand 6; 0.83% bad stem angle, stand 10; 0.00 bad stem angle, 0.00% too loose, 0.00% "J" rooted.
Weather: 5/09; scattered clouds, rain in afternoon, 65 degrees. 5/22; clear/haze, not much wind, 74 degrees.
Stocking = Stand 6; 796 trees/ac actual, 982 trees/ac plot data. Stand 10; 833 trees/ac actual, 1100 trees/ac plot data.
Total cost = \$174.05/ac

10/1/2018: 1st year regeneration check showed 70% survival. Replanting treatment scheduled.

6/9/2019: Planted by Superior Forestry. Oversight by Forest Resource Services (Grossman Forestry Co.).
Planted 05/17

Quality checks: Stand 6 - 0.00% too deep, 0.00% bad stem angle, 0.87% too loose, 4.64% "J" rooted. Stand 10 - 0.00% too deep, 0.00% bad stem angle, 0.00% too loose, 0.00% "J" rooted.

Weather: Partly Cloudy, 45 degrees.
Stocking = Stand 6 - Planted 448 trees/ac. 983 trees/ac plot data, 901 trees/ac linear data. Stand 10 - Planted 278 trees/ac, 900 trees/ac plot data, 857 trees/ac linear data.

1st year regeneration check on replant in October 2019 - 10% mortality, 93% Free to Grow. Main competition is aspen and jack pine. Will be checked in 2 years.

Stand failed 3 year regen check and will be re-planted
Planted in spring 2022

First year regen check showed 827 trees per acre



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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7	6229 - Mixed lowland shrub	Nonstocked	1.7	0		613 - Lowland Mixed Forest	
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10/17/2022 TB: Stand cut as part of unit 7, 03-18, Creek Hoping Pine.

8	6239 - Mixed Emergent Wetland	Nonstocked	2.6	0		No	
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9	6122 - Black Spruce	Poletimber Well	2.8	96		N/A	
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Part of old inventory stand 2. Maintained as buffer to drainage as well as retention to original stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	40	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	50	Pole	6	96				
Red Pine	10	Log	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10 42110 - Planted Red Pine Sapling Poor 1.7 6 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Sapling	1	6

[3-10-05 BB] Just Off The Road Sale 11-05 Residual Volumes= Red Pine=50sq ft, White Pine = 3 sq. ft.
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5/22/18: Planted by Superior Forestry. Oversight by Forest Resource Services (Grossman Forestry Co.).

Quality checks: 0.00% too deep, stand 6; 0.83% bad stem angle, stand 10; 0.00 bad stem angle, 0.00% too loose, 0.00% "J" rooted.
Weather: 5/09; scattered clouds, rain in afternoon, 65 degrees. 5/22; clear/haze, not much wind, 74 degrees.
Stocking = Stand 6; 796 trees/ac actual, 982 trees/ac plot data. Stand 10; 833 trees/ac actual, 1100 trees/ac plot data.
Total cost = \$174.05/ac

10/1/2018: 1st year regeneration check showed 70% survival. On list to replant.

6/9/2019: Planted by Superior Forestry. Oversight by Forest Resource Services (Grossman Forestry Co.).
Planted 05/17

Quality checks: Stand 6 - 0.00% too deep, 0.00% bad stem angle, 0.87% too loose, 4.64% "J" rooted. Stand 10 - 0.00% too deep, 0.00% bad stem angle, 0.00% too loose, 0.00% "J" rooted.
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1st year regen check on regen check on replants - 10% mortality, 93% FTG, Will check again in 2 years.
3 year regen check showed 591 trees per acre

11 42220 - Natural Jack Pine Sapling Well 5.9 30 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	80	Sapling	4	30
Black Spruce	20	Sapling	3	

[1/7/04 BB] Stand was covered under FTP-542 & 600, stand was never scarified or at least no record of it, it was re-inventoried in 2004 and it was determined to be fully stocked, the old stand number was 11, the FTP was cancelled with a blanket letter.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
12	42220 - Natural Jack Pine	Sapling Well	1.5	30		N/A																																					
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13	6122 - Black Spruce	Poletimber Well	79.5	74	81-110	N/A	2013: Stand in good condition. Lot of small diameter spruce throughout stand. Let stand grow and evaluate next entry.																																				
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Leatherleaf	Medium	Variable	Tall Shrub																																								
14	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.9	98	111-140	N/A	Stand was missed in previous inventory. Island of timber surrounded by river slough makes it inaccessible.																																				
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15	6122 - Black Spruce	Sapling Medium	18.3	8	Immature	N/A	Stand was cut as part of Bear Creek Spruce Sale #41-012-14-01. TCR Date is 9/26/2018.																																				
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16	6224 - Treed Bog	Nonstocked	43.8			No																																					
17	42220 - Natural Jack Pine	Sapling Well	22.1	30		N/A	[1/7/04 BB] Stand was covered under FTP-542 & 600, stand was never scarified or at least no record of it, it was re-inventoried in 2004 and it was determined to be fully stocked, the old stand number was 11, the FTP was cancelled with a blanket letter.																																				
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18	4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.2	98	111-140	N/A	Received a select cut in 1987 (Boucher Creek Sale). Hemlock and hardwoods marked, all other species cut. Resulted in good hard maple regen. 10/21/2022 TB: Part of "River Road Stretch" sale which was cut in 2021. This stand was never cut, due to access, and turned back to the state.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
20	6120 - Lowland Cedar	Poletimber Well	138.9	135		N/A	Poor quality cedar. Not heavily stocked. Alder understory.																																														
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23	4130 - Aspen	Sapling Poor	5.7	2	1-50	N/A	2023: Stand was harvested with River Road Stretch in winter 2021. Too soon to tell what stocking levels will be. Currently moderately stocked with aspen regen. Would expect a heavy influence of Balsam fir to show up.																																														
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24	42350 - Upland Hemlock	Sawtimber Well	4.3	179	81-110	N/A	Received a select cut in 1987. Hemlock and hardwoods marked, all other species cut. Heavy understory of fir regen resulted.																																														
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25	6121 - Tamarack	Sapling Well	8.1	30		N/A	Mostly tamarack regeneration with some black spruce																																														
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26	6122 - Black Spruce	Poletimber Well	6.7	79	51-80	N/A	2023: harvestable, acreage reduced due to drainages and areas of unmerchantable trees. stand better left for drain buffers and aesthetics along road.																																														
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28	6239 - Mixed Emergent Wetland	Nonstocked	3.7			No	Wildfire in 1986																																																															
29	6130 - Fir, Aspen, Maple	Sapling Well	11.3	35		N/A																																																																
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31	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	53.5	25		N/A	[1/7/04 BB] Stand was covered under FTP-712, stand was at least partially scarified. Old OI had stand 17 as part of new stand 22 as well. Stand was counted in 2002 and 1269 tpa were found, stand is fully regenerated and the FTP was closed with a blanket letter.																																																															
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Northern White Cedar	3	Sapling	2																																																																			
33	6122 - Black Spruce	Sapling Well	67.3	15	Immature	N/A	A walk through regeneration count showed 2750 TPA of BS, RP, WP, and fir. White pine Bit sale 8-05. West of creek cut winter of 2006. East of creek cut winter of 2008.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
34	42220 - Natural Jack Pine	Sapling Well	2.7	16		N/A	[3-10-05 BB] White Pine Bit Sale 8-05(10/2/07 AP) Inmates planted site with jack pine fall 2007. Contract is still open. Will need regen check in 2009.(6/6/08 AP) Inmates planted site with jack pine in spring 2008. Regen check needed in 2009.[6/9/2008 BB] Sale is now closed. Unit was cut spring 2006. TCR Date is 5/6/2008. Stand was originally scheduled for natural regeneration via scarification. However, due to the small size of the stand it was converted to artificial regeneration via inmate planting. Regeneration check to occur in 2009.(4/24/09 AP) 2009 regen count numbers for stand 14: 1,480 jack pine. Areas without slash were highly stocked. Areas with slash had lower stocking. Roadbed looks good. 3 year check in 2011.(6/7/2011 AP) 2011 regen counts showed excellent regeneration. FTP is closed.		
Canopy Species		% Cover	Size Class	DBH	Age				
Black Spruce	40	Sapling	2						
Jack Pine	60	Sapling	2	16					
35	6239 - Mixed Emergent Wetland	Nonstocked	38.2			No			
36	4132 - Aspen, Jack Pine	Sapling Medium	6.3	35	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen	70	Sapling	3	35					
Jack Pine	30	Sapling/Pole	4						
37	6120 - Lowland Cedar	Poletimber Well	4.1	125		N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	8			Balsam Fir	High	5 - 10 feet	Sapling
Balsam Fir	15	Pole	1						
Black Spruce	20	Pole	6						
Northern White Cedar	50	Pole	6	125					
White Pine	5	Log	14						
38	42220 - Natural Jack Pine	Sapling Well	2.7	35		N/A	Mostly upland jack pine with edges being lowland spruce.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine	80	Sapling/Pole	4	35					
Black Spruce	20	Sapling	4						
39	42200 - Natural White Pine	Sawtimber Well	4.8	132	51-80	N/A	Do not cut hemlock. [3-10-05 BB] White Pine Bit Sale 8-05 Residual Volumes; Red Pine = 48 sq ft, White pine = 7 sq ft [6/9/2008 BB] Sale is now closed. Stand was cut in January 2008. TCR Date is 5-6-2008. Regen survey walk through will be scheduled for 2012 2023: WP, RP,SP,and RM saps filling in. Passed walk through survey. Look at next entry for overstory removal leaving 10 sqft WP seed trees. Cut with nearby stand numbers 40 and 41.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	95	XLog	20	132		Balsam Fir	High	>20 feet	Sapling
Red Pine	5	XLog/Log	18			Red Maple	High	>20 feet	Sapling
						White Pine	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																															
40	42210 - Natural Red Pine	Poletimber Well	2.7	69	111-140	N/A																																
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41	6122 - Black Spruce	Poletimber Well	3.3	92	81-110	N/A																																
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42	42220 - Natural Jack Pine	Sapling Well	66.9	35		N/A	West 1/2 planted, East 1/2 scarified.																															
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43	6122 - Black Spruce	Poletimber Well	3.5	62	51-80	N/A	Harvestable but small acreage. 1 drainage to cross. JP overmature.																															
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44	42220 - Natural Jack Pine	Poletimber Well	3.2	86		N/A	10/20/2022 TB: Previous treatment terminated. Stand not likely to be cut due to access.																															
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45	622 - Lowland Shrub	Nonstocked	21.9	0		612 - Lowland Coniferous Forest	Stand was harvested with River Road Stretch in winter 2019. Too soon for regen check. Evaluate next entry.																															
46	42220 - Natural Jack Pine	Poletimber Well	7.5	86		N/A	10/20/2022 TB: Previous treatment terminated. Stand not likely to be cut due to access.																															
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48	6122 - Black Spruce	Sapling Medium	9.4	74		N/A	Old river slough with island of slow growing trees.																																										
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49	4110 - Sugar Maple Association	Sawtimber Well	20.1	92	81-110	N/A	Received a selection cut in 1961 and 1987.																																										
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50	42350 - Upland Hemlock	Sawtimber Well	20.5	179		N/A	Select cut in 1961 and 1987.																																										
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51	6122 - Black Spruce	Poletimber Well	14.5	75		N/A	Mostly black spruce with variable densities and diameters. Cedar mixed through center portion of stand. Few scattered large white pine and hemlock.																																										
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52	500 - Water	Nonstocked	15.5			No																																											
53	330 - Low-Density Trees	Nonstocked	3.5	0		429 - Mixed Upland Conifers	[12/14/2016 TI] This stand was cut as part of Sale # 41-012-15-01 Knowells Peninsula. TCR Date 9/19/2016. Red and white pine logs with a thick understory of fir 30' tall. South portion of the stand is heavier to large hemlock. This is a small stand which is the access to stand 55. A few hemlock may have to be cut to get down the ridge into stand 55.																																										
54	4110 - Sugar Maple Association	Sawtimber Well	12.6	92	51-80	N/A	[12/14/2016 TI] Stand was cut as part of Sale # 41-012-15-01 Knowells Peninsula. TCR Date 9/19/2016. Gullies and low drainage areas throughout stand. They are dry now but could hold water on wetter years.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
55	42220 - Natural Jack Pine	Poletimber Well	38.3	86		N/A	10/20/2022 TB: Previous treatment terminated. Stand not likely to be cut due to access.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		90	Pole	7	86	Jack Pine	
Black Spruce		5	Pole	5		Black Spruce	
Red Pine		5	Log	12		Avg. Height	
						Size	
						Sapling	
						Sapling	
56	42220 - Natural Jack Pine	Sapling Well	65.8	25		N/A	1/7/04 BB] Stand was covered under FTP-712, stand was at least partially scarified. Old OI had stand 41 as part of new stand 40 as well. Stand was counted in 2002 and 1495 tpa were found, stand is fully regenerated and the FTP was closed with a blanket letter.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		70	Sapling	3	25	Jack Pine	
Black Spruce		20	Sapling	3		Black Spruce	
Red Pine		10	Log	12		Avg. Height	
						Size	
						Sapling	
						Sapling	
57	6125 - Lowland Black Spruce, Jack Pine	Sapling Medium	617.3	60		N/A	Stunted trees growing poorly and slowly on wet soil.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		45	Sapling	2	60	Leatherleaf	
Black Spruce		45	Sapling	2		Medium	
Tamarack		10	Sapling	2		Variable	
						Tall Shrub	
58	6125 - Lowland Black Spruce, Jack Pine	Sapling Medium	50.0	60		N/A	poor quality, slow growing trees on wet soil.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		45	Sapling	2	60	Leatherleaf	
Black Spruce		45	Sapling	2		Low	
Tamarack		10	Sapling	2		Variable	
						Tall Shrub	
59	6126 - Lowland Jack Pine	Sapling Medium	29.8	15	Immature	N/A	2012: A walk through regen survey showed 1254 TPA of BS, Fir, WP, JP 2023 TB: Filling in nicely. Low areas mostly B. Sp., higher ridges are JP.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		5	Sapling	2		Black Spruce	
Red Maple		5	Sapling	1		Low	
Jack Pine		55	Sapling	1	15	5 - 10 feet	
Black Spruce		25	Sapling	1		Sapling	
White Pine		5	Sapling	1			
Red Pine		5	Sapling	1			
60	6122 - Black Spruce	Poletimber Well	15.1	82		N/A	poor quality slow growing, not worth the effort of trying to freeze a 1/4 mile of marsh to reach.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		50	Pole/Sapling	5	82	Black Spruce	
Black Spruce		50	Pole/Sapling	5		Low	
						5 - 10 feet	
						Sapling	
61	6126 - Lowland Jack Pine	Poletimber Well	15.0	77		N/A	Low quality, dead and dying, 3 stick tall. Not worth the effort of trying to freeze 1/4 mile of marsh to reach.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		100	Pole	5	77	Black Spruce	
						Low	
						< 5 feet	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
62	42220 - Natural Jack Pine	Poletimber Well	11.5	75		N/A	Mature jack pine but may not be accesable.																																	
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63	42290 - Natural Mixed Pine	Sapling Poor	3.6	1	Immature	N/A	Scarify if possible, if unable hand plant site.[3-10-05 BB] River Road Spruce 7-05 Residual Volumes; Red Pine = 45 sq ft, White pine = 5 sq ft[11-24-08 BB] Sale now closed, TCR Date is 11/11/2008. Stand will be on natural regen clock for 2012, stand was cut in the summer of 2008. Unit 3(9/15/2010 AP) Stand was too thick to scarify and was not accessible due to drainage and private land. Check regeneration as part of next inventory cycle.(3/22/11 AP) FTP W41-1229 has been cancelled.2012 Walk through shows poor regen. Maybe cut all but 30 sqft and scarifyStand was harvested in winter 2022 with River Road Stretch.2023 TB: Walk through shows moderately stocked stand of mixed conifer. Recommend dropping the next step treatment of planting. Small acreage with difficult access is not worth the effort. Stand will fill in.																																	
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64	429 - Mixed Upland Conifers	Sapling Well	10.8	25	1-50	N/A	[1/7/04 BB] Stand was covered under FTP-712, stand was at least partially scarified. Stand was counted in 2002 and 1495 tpa were found, stand is fully regenerated and the FTP was closed with a blanket letter.																																	
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65	3302 - Low Density Conifer Trees	Nonstocked	4.4	0		No	Harvested with River Road Stretch sale, winter of 2022.																																	
66	6125 - Lowland Black Spruce, Jack Pine	Sapling Medium	2.0	60		N/A	Poor quality, slow growing trees on wet soil.																																	
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67	6122 - Black Spruce	Poletimber Well	14.3	73		N/A	poor quality spruce. Not enough merchantable trees within stand to be worth cutting given remote location.																																	
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68	6126 - Lowland Jack Pine	Poletimber Well	15.2	77		N/A	Center of stand is pure jack pine that is on it's way out. Edges of stand is black spruce much of which is submerchantable. Stand may be inaccessible.10/18/2022 TB: Treatments from previous inventory terminated. Stand not likely to be cut.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
69	6122 - Black Spruce	Sapling Well	36.3	93		N/A	Very poor site with slow growing trees. Most trees are only 3-4 inches DBH and over 80 years old. Not enough merchantable timber in stand to be worth harvesting.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Black Spruce	95	Sapling/Pole	4	93	Black Spruce	Low	< 5 feet	Sapling
	Tamarack	5	Sapling/Pole	3												
70	500 - Water	Nonstocked	10.0			No										
71	6122 - Black Spruce	Sapling Well	190.4	64		N/A	Very poor site with slow growing trees.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Tamarack	30	Sapling/Pole	3		Black Spruce	Medium	< 5 feet	Sapling
	Black Spruce	70	Sapling/Pole	3	64											
72	6122 - Black Spruce	Poletimber Well	29.1	86		N/A	10/18/2022 TB: Stand was part of Bear Creek Spruce Sale #41-012-14-01. This unit was never cut and turned back to the state. It is not likely to ever be cut due to access.									
73	6122 - Black Spruce	Poletimber Well	8.9	86		N/A	Old stand with slow growing trees. Mix of poles and submerchantable black spruce. Stand may not be accesable. Stand was part of Bear Creek Spruce Sale #41-012-14-01. This unit was not cut and was turned back to the state.									
74	6122 - Black Spruce	Sapling Medium	1.5	8	Immature	N/A	2023: Stand was part of Bear Creek Spruce Sale #41-012-14-01. This stand was part of stand 73. Stand 74 was the only portion that was harvested and has regenerated nicely to Black Spruce.									
								Canopy Species	% Cover	Size Class	DBH	Age				
								Black Spruce	90	Sapling	1	8				
								Jack Pine	5	Sapling	1					
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75	6122 - Black Spruce	Poletimber Well	1.9	86		N/A	2023: Stand was part of Bear Creek Spruce Sale #41-012-14-01. This unit was not cut and was turned back to the state.									
76	122 - Road/Parking Lot	Nonstocked	1.2			No	Co. Rd. 436									
77	122 - Road/Parking Lot	Nonstocked	2.8	0		No	Co. Rd. 436									
78	6239 - Mixed Emergent Wetland	Nonstocked	19.8			No										
79	122 - Road/Parking Lot	Nonstocked	0.3	0		No	Co. Rd. 436									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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81 122 - Road/Parking Lot Nonstocked 0.8 612 - Lowland Coniferous Forest Co. Rd. 436

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Medium		Seeding
Balsam Fir	Medium		Seeding
Black Spruce	Medium		Seeding
White Pine	Medium		Seeding

82 4130 - Aspen Sapling Medium 19.5 4 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	100	Sapling	1	4

New guidance has come out regarding red pine plantations since this stand was prescribed. Stand is fully stocked aspen stand, however there are some holes present where oak could be planted. Managing this small broken stand with several drainages for red pine does not make sense.