



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41042

Entry Year 2021

Acreage: 1,832

County Schoolcraft

Management Area: Seney Lake Plain

Stand Examiner: Sheila Clark

Legal Description:

T43N R16W Sections 24,25,35,36

Identified Planning Goals:

The goals in this compartment include conducting multiple resource management for current and future generations. Forest Health, Recreation, Biodiversity Stewardship, Wildlife and Timber Management are some of the key management components within this compartment.

Soil and topography:

Most of section 5 is low muck soils while the remainder of the compartment is a mix of sandy soils which occur on the Hiawatha Moraine.

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

There is some fragmentation within the compartment. Smith Lake, Island Lake and Dodge Lake all set just north of the compartment and all of these lakes have residential homes on them. The State recently acquired 280 acres in section 35, known as the Carley property. The land was purchased by the State to enhance in-holdings within core deer yarding areas.

Unique Natural Features:

Currently under review by Michigan Natural Features Inventory (MNFI).

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Most of the compartment is within the Sturgeon Hole Deer yard and break-out area. In addition, the large upland opening within the compartment is managed for open land species like Sharp-tail grouse.

Watershed and Fisheries Considerations:

No fisheries concerns.

Wildlife Habitat Considerations:

This compartment is located along M-94 north of Manistique, and contains the west side of the High Rollways. It is dominated by early successional forest and large grassy openings. Some of the grassy openings have the appearance of Oak savanna. There are approximately 80 acres of northern hardwoods in the northern portion of the compartment. The Sturgeon Hole deeryard lies immediately south. Some property was recently purchased within the deer yard, and is included on the southern end of this compartment. Here, deer yard management has included constructing a fence around two areas totaling approximately 38 acres to encourage cedar regeneration where cedar was formerly cut. The wildlife goals within this compartment are to protect the oak component, maintain age and structural diversity between the aspen types, promote diversity within the hardwood stands, maintain the large grassy opening complex, and maintain and enhance deer winter yarding habitat by maintaining existing closed-canopy cover and encouraging cedar regeneration.

Mineral Resource and Development Concerns and/or Restrictions

: Surface sediments consist of coarse-textured till and lacustrine (lake) sand and gravel. The glacial drift thickness varies up to 200 feet. The Silurian Manitoulin Dolomite and Ordovician Queenston Shale subcrop below the glacial drift. The Manitoulin could be used for stone. Gravel pits are located in Section 24 and there is to be potential. There is no commercial oil and gas production in the UP.

Vehicle Access:

There is very good vehicular access to the entire compartment. M-94 a State Highway runs through the compartment as well as the High Rollways Truck Trail which is a County Road. In addition many other two-tracks exist.

Survey Needs:

None at the present time.

Recreational Facilities and Opportunities:

The Haywire Grade is a designated snowmobile trail. There is also an effort to have the grade designated as an ORV trail. There is a boat access site on Dodge Lake which sits just to the west of the compartment.

Fire Protection:

With the excellent road access and close proximity to Manistique fire operations shouldn't be an issue. However, with the amount of use the area gets from recreational users Fire Prevention should be a top priority.

Additional Compartment Information:

The following reports from the Inventory are attached:

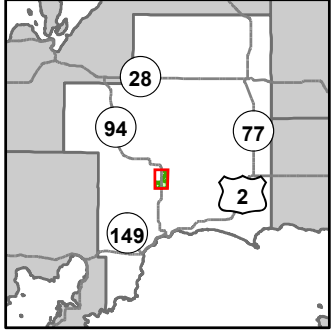
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

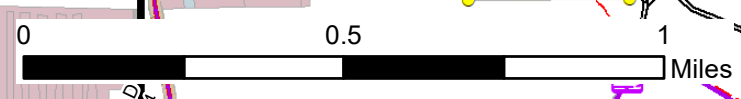
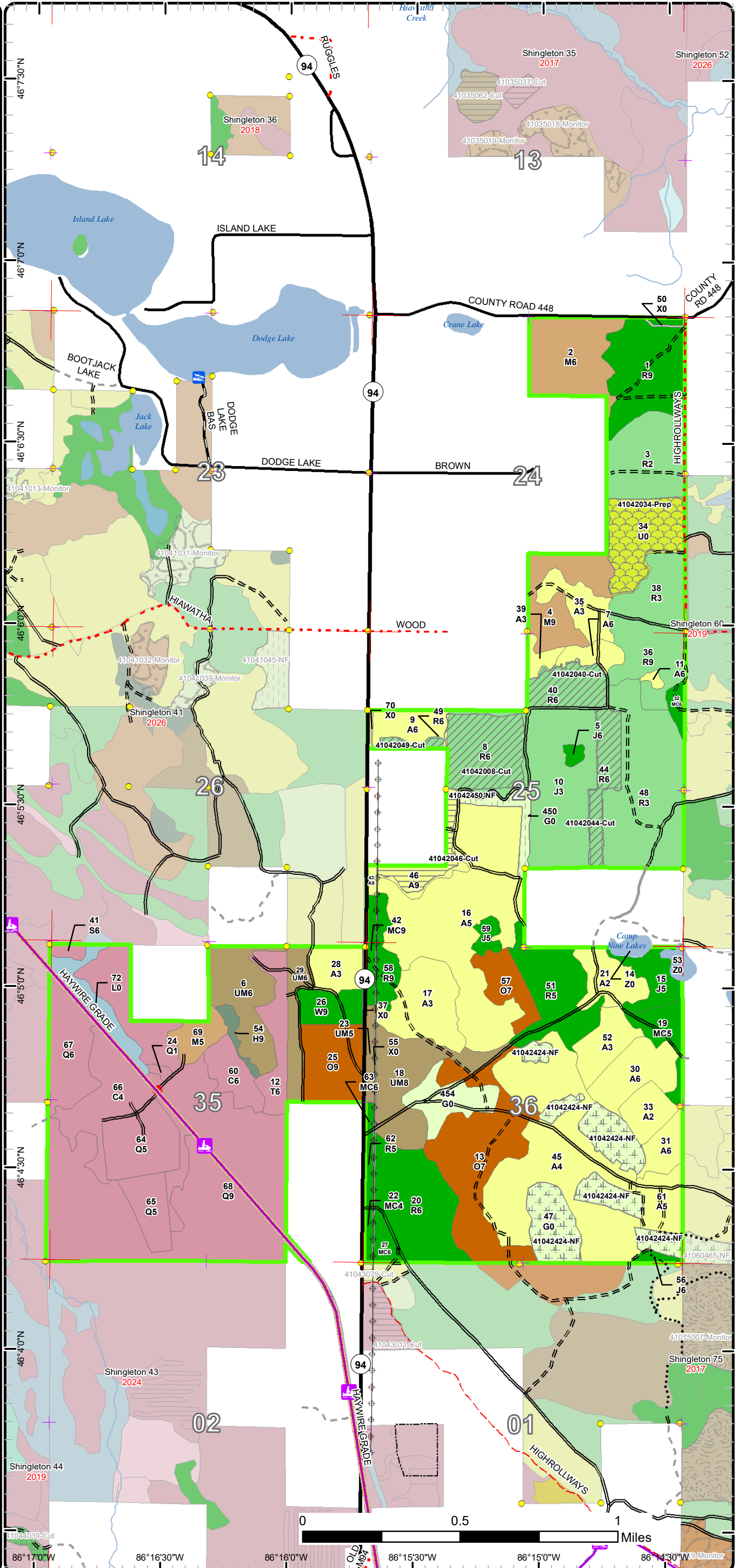
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 42
 T43N, R16W, Sec. 24, 25, 35, 36
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Seney Lake Plain
 YOE: 2021
 Acres: 1832.1 GIS Calculated
 Examiner: Sheila Clark
 Map Revised: 9/20/2023
 Map Phase: Post Review



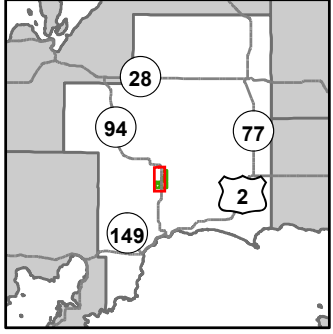
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
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- Lake/Pond
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- Lakes and Rivers
- Boating Access Site
- Sign
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- Site Prep
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



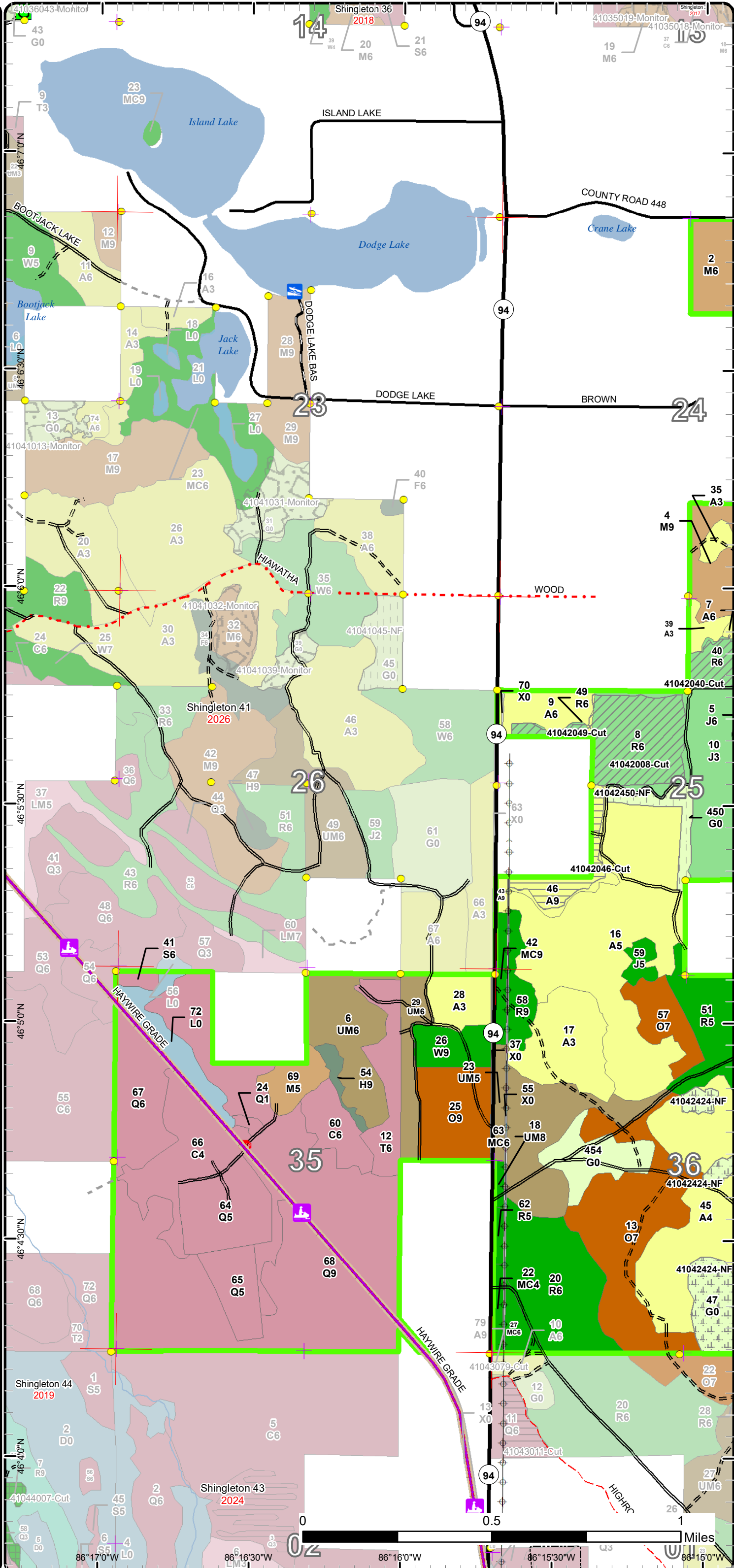
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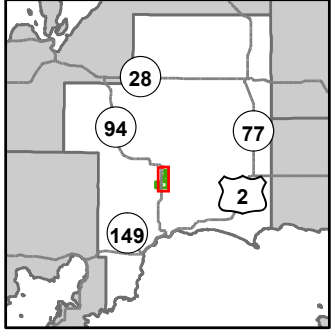


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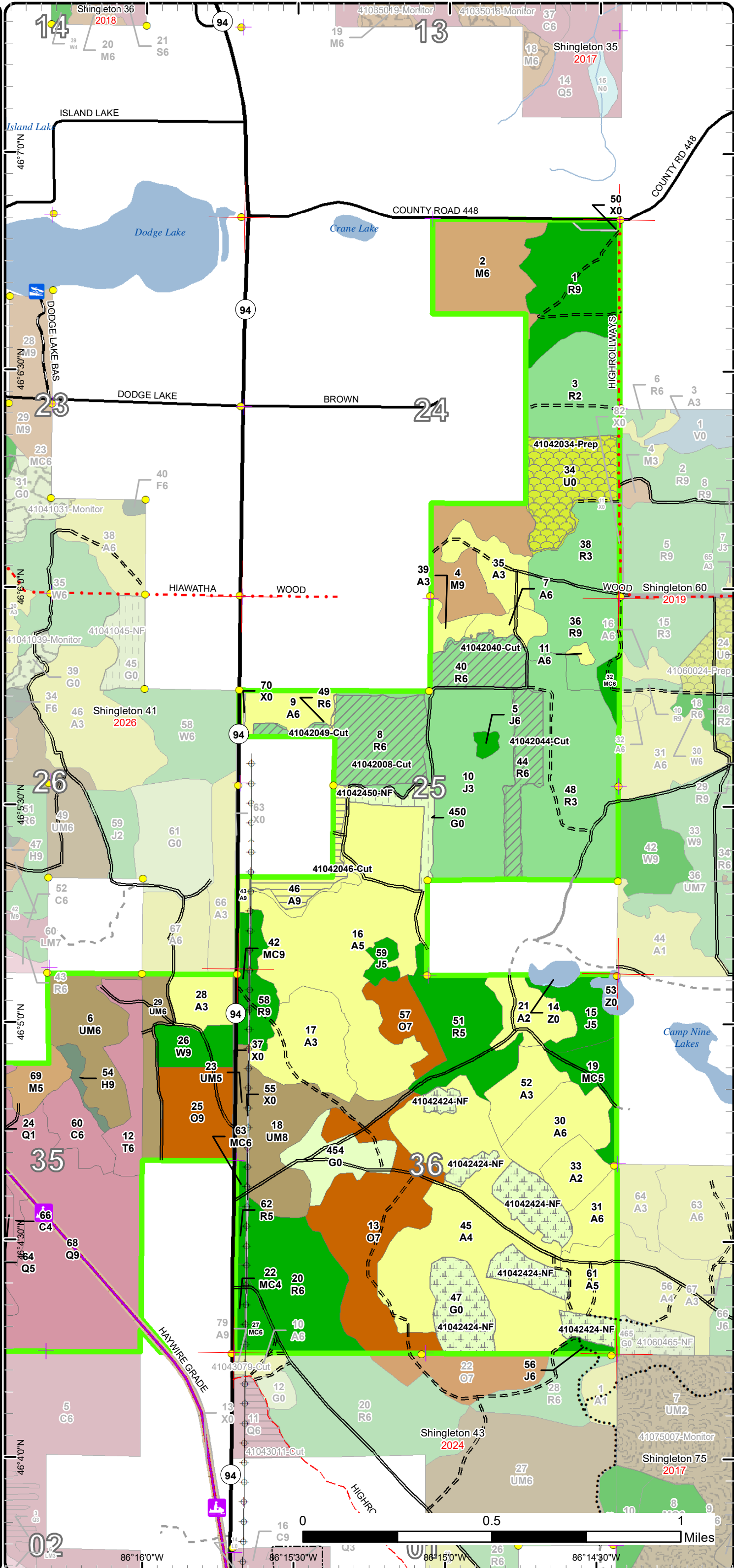


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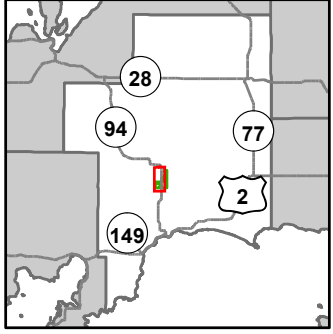


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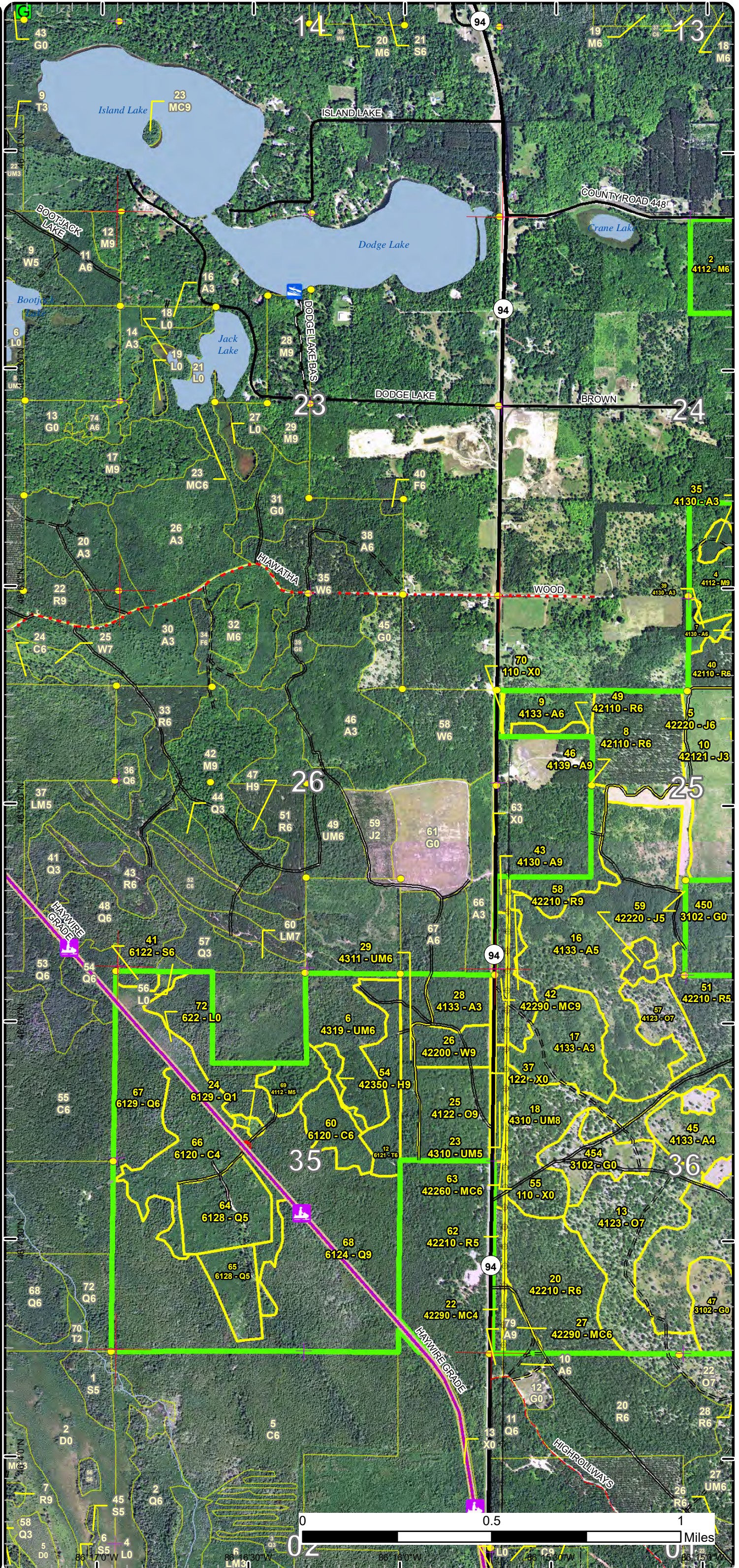


Stand Boundary Map

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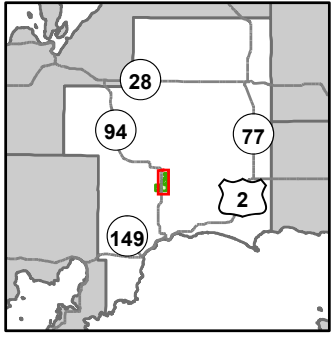


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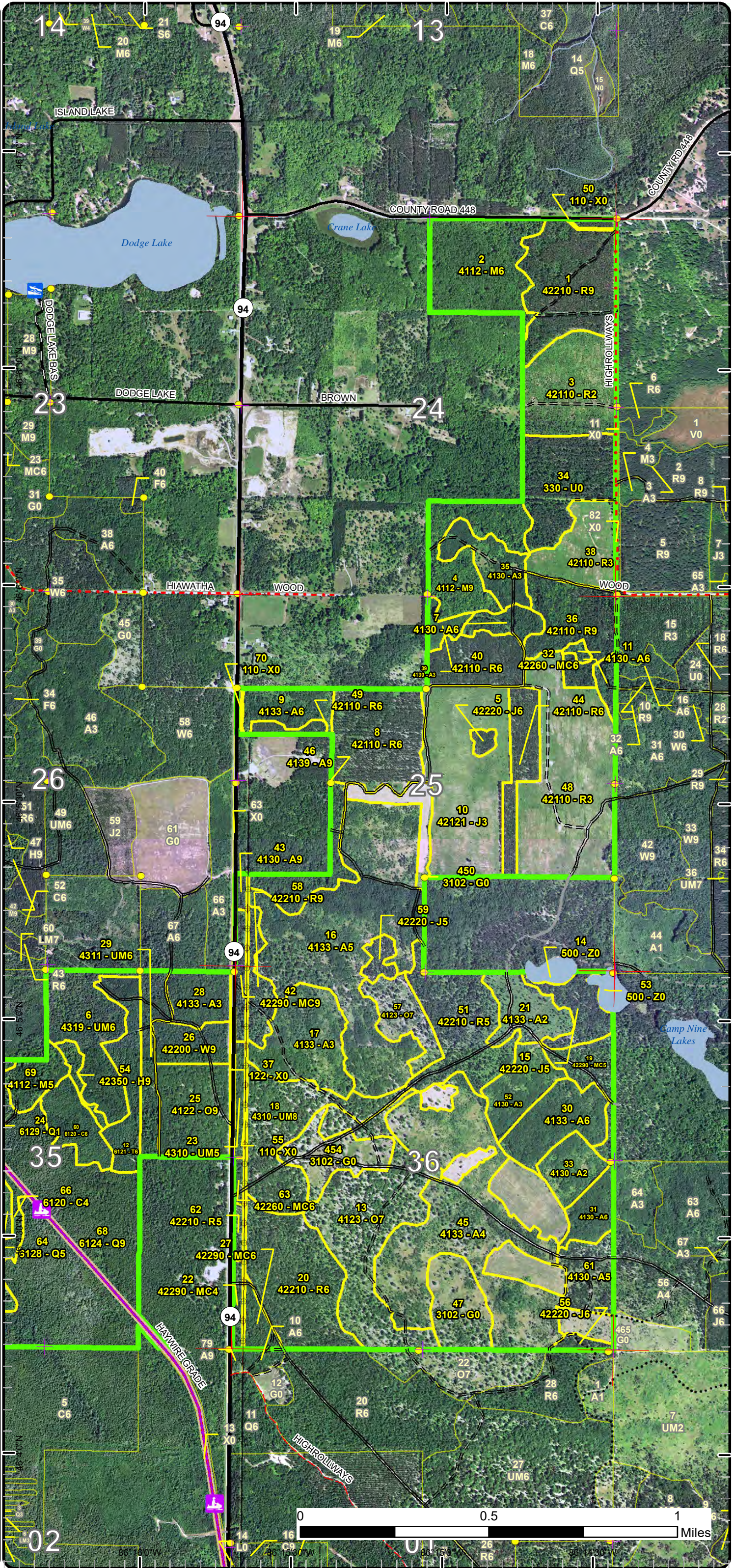


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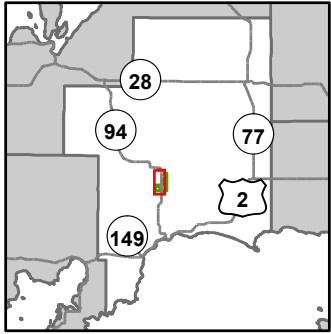


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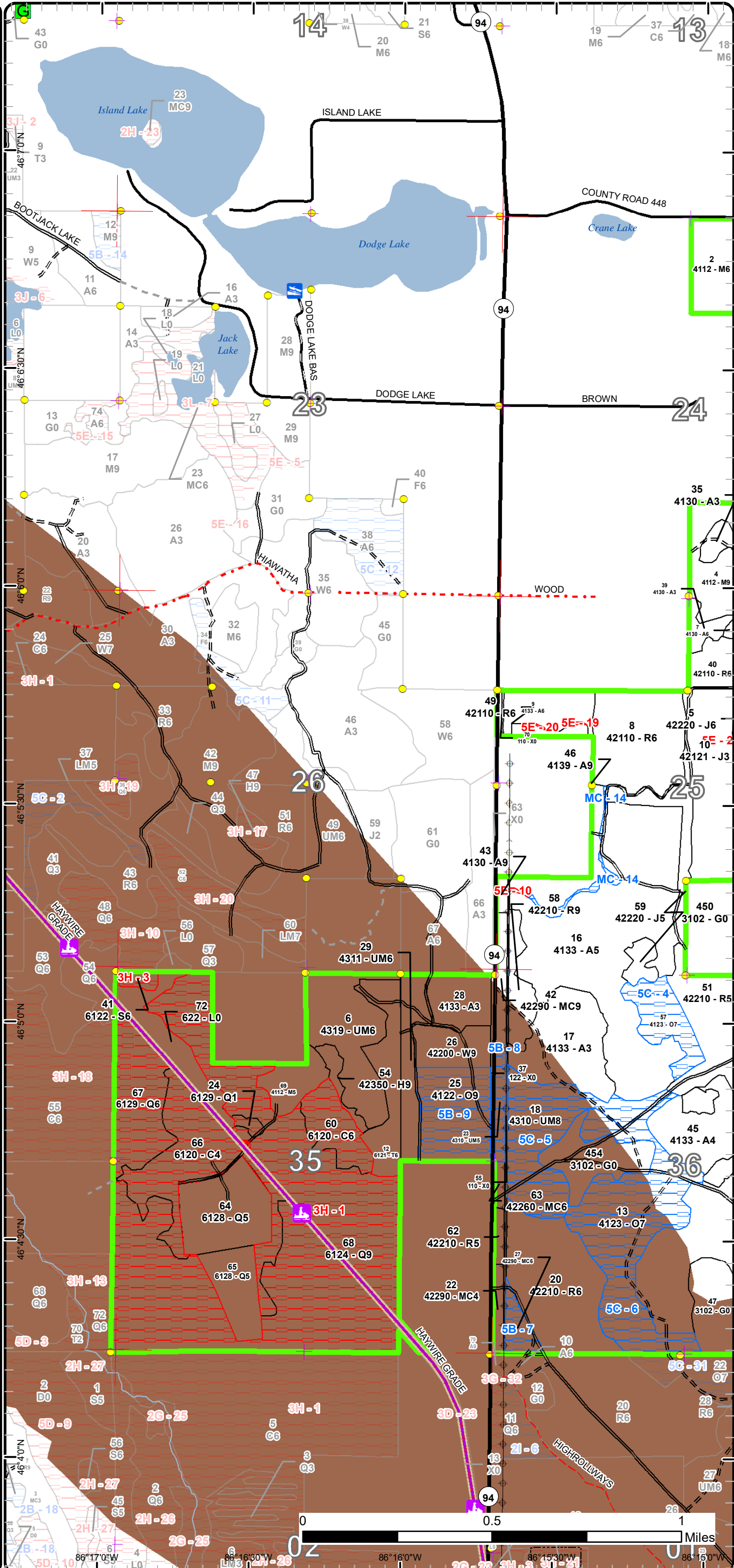


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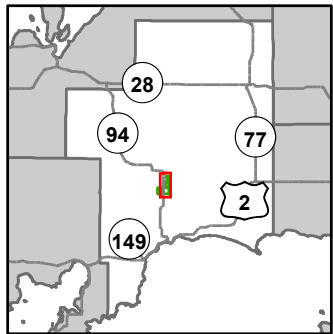
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- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Deer Winter Range



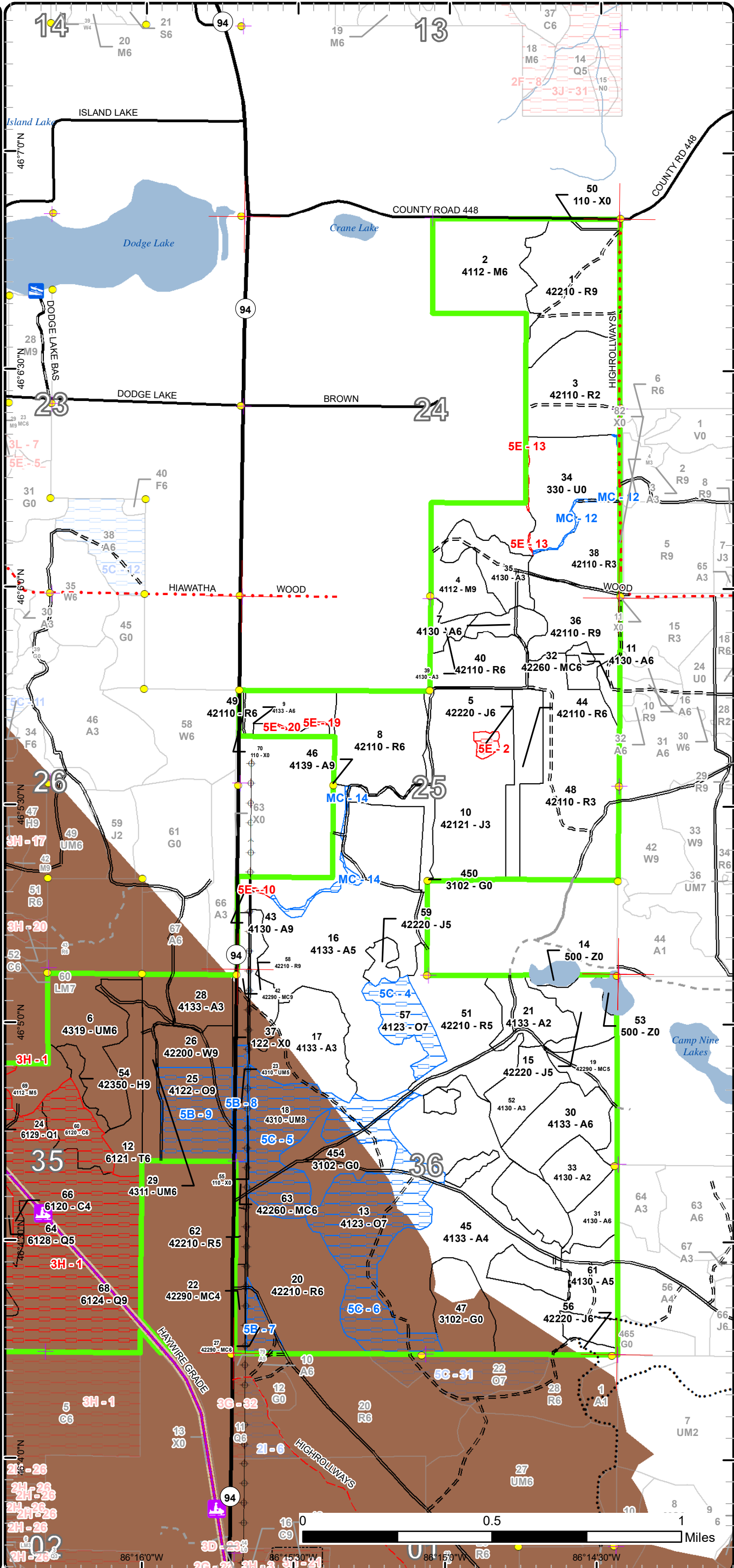
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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	24	0	189	0	192	16	0	17	0	0	0	0	0	0	0	0	0	438
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	61	0	0	0	0	61
Hemlock	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
Herbaceous Openland	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93
Jack Pine	0	66	0	0	0	23	0	2	0	0	0	0	0	0	0	0	0	0	91
Low-Density Trees	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Lowland Conifers	0	0	0	49	0	0	0	0	0	0	0	0	0	244	0	0	0	0	293
Lowland Shrub	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Spruce/Fir	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
Natural Mixed Pines	0	0	0	0	0	20	0	9	0	11	0	0	0	0	0	0	0	0	39
Northern Hardwood	0	0	0	0	0	0	0	0	86	0	0	0	0	0	0	0	0	0	86
Oak	0	0	0	0	0	0	0	0	0	85	30	0	0	0	0	0	0	0	114
Red Pine	0	78	64	0	0	0	107	61	98	0	0	0	0	0	0	0	0	0	408
Tamarack	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Upland Mixed Forest	0	0	0	35	0	0	16	0	0	5	41	0	0	0	0	0	0	0	97
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
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	0	14	0	0	0	0	0	0	0	0	0	0	0	0	14
Total	161	168	64	295	0	249	142	72	201	105	71	0	0	0	305	0	0	0	1831



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 42

Total Compartment Acres: 1,832

Commercial Harvest - 91
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	12	0	0	0	0	0	0	0	0	12
Red Pine	0	0	0	0	79	0	0	0	0	79
Total	12	0	0	0	79	0	0	0	0	91

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	91	34	0	0	0	0	0	72	0	197
Next Step	0	0	34	0	0	134	79	0	21	268
Total	91	34	34	0	0	134	79	0	93	465



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:

8	41042008-Cut	36.5	42110 - Planted Red Pine	Poetimber Well	58	111-140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin from below, removing small, suppressed trees. Remove all aspen and hardwood except oak.

Specs:

Next Step

Treatments:

Acceptable Red Pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

34	41042034-Prep	33.6	330 - Low-Density Trees	Nonstocked	0	Unspecified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	No
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Prescription trench

Specs:

Next Step Pesticide, Aerial - Site Prep; ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide,

Treatments: Aerial - Release; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release

Acceptable Red Pine

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

40	41042040-Cut	20.1	42110 - Planted Red Pine	Poetimber Well	58	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Third row thinning. Residual BA will be variable,

Specs:

Next Step

Treatments:

Acceptable Red Pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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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44	41042044-Cut	18.9	42110 - Planted Red Pine	Poletimber Well	73	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin stand, removing suppressed and poor quality trees to improve growth on remaining trees. BA should range from 110 to 120 sq. ft.
Specs: Remove all jack pine.

Next Step
Treatments:

Acceptable Red Pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

46	41042046-Cut	11.9	4139 - Aspen, Mixed Deciduous	Sawtimber Well	79	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Remove all merchantable trees leave retention on the edge. Remove all trees over 2 inches, but leave all oak.
Specs:

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

Acceptable Any current species.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

49	41042049-Cut	3.7	42110 - Planted Red Pine	Poletimber Well	58	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Third row thinning. Residual BA will be variable.
Specs:

Next Step
Treatments:

Acceptable Red Pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

47	41042424-NF	62.1	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription Opening Enhancement. Prescribed fire, herbicide, farming (dozing, disking, raking, seeding (native or naturalized species only), fertilizing and liming), brush hog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crab apple and others.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Percent to Treat = 100%
Comment:

Site Condition

Proposed Start Date: 1 /28/2019



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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
450 41042450-NF	10.3	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Prescribed fire, herbicide, farming (dozing, disking, raking, seeding (native or naturalized species only), fertilizing and liming), brush hog/saw removal of competing trees and establishment of native hard and soft mast producers such as red oak, crab apple or others</p> <p><u>Next Step Treatments:</u> NonForestMgt, Herbaceous/Crop/Grass Planting; NonForestMgt, Mowing</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> mast producers will be planted around edges of farmed openings.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 5 /2 /2019</p>										

Total Treatment Acreage Proposed: 197.1

Report 4 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment: 42
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
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Dominant Site Conditions

5B	5C	MC	3H	5E
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Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Condition	5B	5C	MC	3H	5E
438	434	3	0	Aspen			3		0
61	0	0	61	Cedar				61	
4	4	0	0	Hemlock					
93	93	0	0	Herbaceous Openland					
92	89	0	2	Jack Pine					2
36	34	2	1	Low-Density Trees			2		1
293	47	0	246	Lowland Conifers				246	
18	18	0	0	Lowland Shrub				0	
3	0	0	3	Lowland Spruce/Fir				3	
38	32	7	0	Natural Mixed Pines	7				
86	86	0	0	Northern Hardwood					
115	0	115	0	Oak	30	85			
407	407	0	0	Red Pine					0
22	22	0	0	Tamarack					
98	51	47	0	Upland Mixed Forest	5	41			
9	9	0	0	Urban					
5	5	0	0	Water					
14	14	0	0	White Pine					
1,832	1,345	173	314	Total Forested Acres	42	126	5	310	4
	73%	9%	17%	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	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	307	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Obligate deer yard on purchased lands. Dense cedar stand. Fir / spruce could not be harvested due to operability issues in the cedar.							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Sheila Clark : Examiner

Compartment: 42

Year of Entry: 2021

2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Open grown oak stand.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment: 42
Year of Entry: 2021

8	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5B: Maintain for regeneration purposes	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	Minor Change in Acreage	2				
Comments:							
13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	Minor Change in Acreage	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment: 42
Year of Entry: 2021

20	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



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	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	42210 - Natural Red Pine	Sawtimber Well	48.2	74	81-110	N/A	OPIC - FMD: Stand basal area not quite high enough to schedule again. [Last entry comments] Stand has a lot of inclusions of hardwood that were not cut in first entry, cut now to reduce competition. [1-5-05 BB] High Roll-ways Red Pine 31-01 closed, cut late fall 04. 2019 - Stand has enough basal area for a harvest. Tops have less than 30% live crown. But diameter is small 10-12. If thin, more hardwood regeneration will come in. 12/22/2022: Harvested in 2022 with January marking mix.																																														
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2	4112 - Maple, Beech, Cherry Association	Poletimber Well	42.4	78	81-110	N/A	OPIC - FMD: [1-5-05 BB] Smith Lake Hardwood 16-02 sale now closed, cut 03 & 04. 2019 - Stand has overall small diameters with very few logs. Most of the log trees are deformed or damaged. 12/22/2022: Stand harvested in spring 2022, January marking mix																																														
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3	42110 - Planted Red Pine	Sapling Medium	39.8	15	Immature	N/A	OPIC - FMD: Stand cut in "94" where all jack pine was cut out residual stand has minimal BA to manage red pine, time to CC and re-plant. [1-5-05 BB] High Rollways Red Pine 31-01 closed, FTP still open, cut late fall 04. (9/18/06AP) Site was site prep sprayed in fall 2006 with Accord. TMS said stand is still desirable to be burned to reduce slash load. If it is not burned soon, it will be trenched and planted in spring 2007. (7/22/07 AP) Spray did not work well. Should have used a higher rate. Will be trenched and planted with release work to come later. Inmates may cut down some of the larger maples present. (5/28/08 AP) Trenched and planted in spring 2008. Needs regen check in 2009. (8/25/08 AP) Inmates cut hardwood competition to release red pine. Keep monitoring for future release work. (6/15/09 AP) 3 year regen check needed in 2011. 2009 check - 827 red pine (9/13/2010 AP) Stand sprayed with Accord 1.5 quarts per acre by helicopter. (6/7/2011 AP) 2011 regen counts: 713 red pine, 80 jack pine. FTP is being kept open for possible release work in the future. 8/1/15: FTP was looked at for potential release work and it was determined that no further release work will be needed and FTP is now closed. 2019 - Overall stocking is good and stand is healthy. Some scattered cherry.																																														
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4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	31.6	78	81-110	N/A	OPIC - FMD: [1-5-05 BB] Smith Lake Hardwood 16-02 sale now closed, cut 03 & 04. 2019 - Stand is not high quality hardwoods. There is lots of beech in the understory. Next time stand is thinned will need to be opened up more with canopy gaps to encourage other regen than beech.																																																			
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5	42220 - Natural Jack Pine	Poletimber Well	2.4	69	141-170	N/A	10/19/11 bb Stand is now on proposal 27-11 Stray Bullets, Units 4,10. Actual acres 6. FTP C41-1513 submitted for planting. 3 acre retention patch in the middle of stands 6 and 42 will serve as retention for this stand as well since after the harvest all 3 stands will become 1 contiguous stand of jack pine. Stand was planted in spring 2015. Stand passed 1 year regen count with 530 jack pine and 130 jack pine volunteers. However, most of these volunteers were in one area (next to the road since it was chipped) and 40 % of the plots were under 600 trees per acre. Since the trenches are still fresh stand is going to be interplanted. Site was forwarded to TMS for planting. Planting never occurred and stand was placed back into monitoring status. [8/20/14 TI] Sale is closed. TCR Date 7/8/14 11/20/2017 - Stand counted 3 year check and had 805 TPA jack pine 2019 - Stand is a retention pocket from previous harvest.																																																			
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6	4319 - Mixed Upland Forest	Poletimber Well	35.1	26	51-80	N/A	Stand was part of a purchase that occurred in 2007. Needs to have stand lines checked and inventory done. Old data may be present from Plum Creek. 2019 - Stand was harvested before purchase. Healthy, no activity.																																																			
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7	4130 - Aspen	Poletimber Well	8.6	47	81-110	N/A	OPIC - FMD: Stand cut multiple times in a short time frame creating a two-aged stand in spots but overstory is not worth harvesting. 2019 - Stand is healthy, but small diameter.																																																			
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8	42110 - Planted Red Pine	Poletimber Well	39.8	58	111-140	N/A	<p>OPIC - FMD: Soils are poor and there are many frost pocket areas where BA will be lower. However, overall the trees have self pruned and a first thinning is needed. Maintain basal area and exclude lower BA areas with red line. Include small jack pine inclusions on south end.</p> <p>10/19/11 bb Stand is now on proposal 27-11 Stray Bullets, Unit 3. Actual acres 40. Residual BA = red pine 73 sq ft and aspen 1.5 sq ft. WLD comments say to retain deciduous trees for diversity, some had to be cut if they were in a cut row since this was a row thinning, all others were left.</p> <p>[8/20/14 TI] Sale is closed. TCR Date 7/8/14</p> <p>2019 - Stand is looking good. Crowns are healthy and well spaced. No activity at this time. Next entry stand will need to be thinned again.</p>																														
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9	4133 - Aspen, Mixed Pine	Poletimber Well	15.7	50	111-140	N/A	<p>OPIC - FMD: White birch also in stand. 2019 - Trees are small, but hitting max age. Poor ground. Stand should be cut, it is hilly. If cut it could be aspen, jack pine or red pine. Could be cut or left.</p>																														
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10	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	66.1	9	1-50	N/A	<p>10/19/11 bb Stand is now on proposal 27-11 Stray Bullets, Units 4,10. Actual acres 6. FTP C41-1513 submitted for planting. 3 acre retention patch in the middle of stands 6 and 42 will serve as retention for this stand as well since after the harvest all 3 stands will become 1 contiguous stand of jack pine.</p> <p>Stand was planted in spring 2015.</p> <p>Stand passed 1 year regen count with 530 jack pine and 130 jack pine volunteers. However, most of these volunteers were in one area (next to the road since it was chipped) and 40 % of the plots were under 600 trees per acre. Since the trenches are still fresh stand is going to be interplanted.</p> <p>Site was forwarded to TMS for planting. Planting never occurred and stand was placed back into monitoring status.</p> <p>[8/20/14 TI] Sale is closed. TCR Date 7/8/14</p> <p>11/20/2017 - Stand counted 3 year check and had 805 TPA jack pine</p> <p>2019- Trees look good, all around 3 feet or more tall.</p>																														
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11	4130 - Aspen	Poletimber Well	1.6	47	1-50	N/A	<p>2019 - Stand is poor quality. Could cut when cut stand 36.</p>																														
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12	6121 - Tamarack	Poletimber Well	22.3	26	141-170	N/A	Stand was part of a purchase that occurred in 2007. Needs to have stand lines checked and inventory done. Old data may be present from Plum Creek. 2019 - Stand was originally planted by Mead using a bulldozer plow. Stand is healthy, no activity.																																																	
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13	4123 - Red Oak	Sawtimber Poor	68.4	89	81-110	N/A	OPIC - FMD: Stand was burned through last entry when wildlife openings were burned for maintenance. 2019 - Stand is open but filling in with aspen and white pine.																																																	
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14	500 - Water	Nonstocked	2.1		Unspecified	No	OPIC - FMD: Camp 9 Lakes																																																	
15	42220 - Natural Jack Pine	Poletimber Medium	15.0	48	81-110	N/A	OPIC - FMD: Some aspen inclusions occur. 2019 - Trees are healthy. Jack pine are on the smaller side. Could cut or leave. If cut, could convert to aspen if not chemically treated.																																																	
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16	4133 - Aspen, Mixed Pine	Poletimber Medium	114.4	43	51-80	N/A	OPIC - FMD: old G stand that converted nicely to aspen. Wildlife and FMD decided to not manage for grass any longer. 2019 - Stand is variably stocked and a variety of diameters. The soil is poorer production. Stand is not of merchantable size yet. No activity.																																																	
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17	4133 - Aspen, Mixed Pine	Sapling Well	33.9	21	Immature	N/A	OPIC - FMD: [5-20-02] Stand cut in spring of 2002 and TSI'd by inmates. Some residual oak occurs. 2019 - Scattered large oak and white pine log trees. Stand is healthy and well stocked.																																																	
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18	4310 - Pine, Oak Mix	Sawtimber Medium	41.2	90	1-50	N/A	OPIC - FMD: Stocking is variable, there is a jack pine component in places, stand is healthy. There is oak regen but it is browsed 2-3' up. 2019 - Stand is open and healthy. No activity.																																										
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19	42290 - Natural Mixed Pine	Poletimber Medium	14.5	48	81-110	N/A	OPIC - FMD: Stand is variable with lots of jack pine as well. There is some pole size trees but not 10 square feet. 2019 - Stand is healthy, no activity.																																										
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20	42210 - Natural Red Pine	Poletimber Well	49.8	64	51-80	N/A	OPIC - FMD: Nice mixed stand with heavy regen made up of red and white pine as well as oak, most of the oak is browsed 2-3' up. Red and white pine 10-15' tall. Aspen, jack pine and white birch need to be cut, they are dying out. Species thin stand and maintain red pine, white pine and oak. Aspen clones will regenerate and pine will be released. 10/19/11 BB Stand is now on proposal, 24-11 Lonely Bluebill, actual acres 52, Unit 4. Residual BA = red pine 38', white pine 15', oak 7', aspen 1'. 61 total Stand was cut as part of the Lonely Bluebill Sale (#41-024-11-01). Sale is complete and now closed. TCR date 6/3/15. 2019 - Regeneration is hardwood and white pine. Not much can do to increase red pine in the stand. Trees are healthy. Lots of 4 inch red and white pine saplings.																																										
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21	4133 - Aspen, Mixed Pine	Sapling Medium	18.6	8	51-80	N/A	OPIC - FMD: Stand has some nice clones of aspen but also some sparse areas. Cut stand and leave oak and red and white pine. Aspen clones will regenerate nicely but off-site aspen areas may convert to pine. Make sure there is a minimum of 100' buffer to lake. [1/11/09 bb] Compartment Review Decision was to put cultural codes back on to TSI stand, actual work would be funded by WLD. 10/19/11 BB Stand is now on proposal, 24-11 Lonely Bluebill, actual acres 29, Unit 3. Residual BA = red pine 8', white pine 10' Stand was cut as part of the Lonely Bluebill Sale (#41-024-11-01). Sale is complete and now closed. TCR date 6/3/15. 2019 - Opening is starting to fill in. No activity.																																										
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22	42290 - Natural Mixed Pine	Poletimber Poor	4.0	88	51-80	N/A	OPIC - FMD: Stand is right along M-94, 2 aged stand. Species thin stand removing everything but white pine, red pine and oak. This will be a light thinning, also protect regen. Make certain the logger gets an M-DOT permit if they are working within the R-O-W. 10/19/11 BB Stand is now on proposal, 24-11 Lonely Bluebill, actual acres 4, Unit 1. Residual BA = red pine 32', white pine 16', oak 4'. 52 total 2019 - Stand is healthy but is only lightly filled in. The diameters are on the smaller sign. No activity.																																													
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23	4310 - Pine, Oak Mix	Poletimber Medium	5.4	88	81-110	N/A	OPIC - FMD: OI Stand Year Origin was 1935. 2019 - Trees are healthy and smaller diameter. There is a GTE cable buried along the road this won't stop future harvests, but may limit regeneration efforts. No activity at this time.																																													
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24	6129 - Mixed Coniferous Lowland Forest	Sapling Poor	1.7	24	Immature	N/A	OPIC - FMD: This is part of the Carley property that was purchased through DRIP funding to increase deeryard habitat. The parcel was in process of being cut over prior to gaining ownership. This stand was not cut however. 2019 - Stand is healthy.																																													
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25	4122 - Oak, Pine	Sawtimber Well	30.2	91	81-110	N/A	OPIC - FMD: great white pine regeneration. 2019 - The under-story of white pine will eventually take over the stand. Oak is healthy. No activity																																													
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26	42200 - Natural White Pine	Sawtimber Well	14.1	48	81-110	N/A	OPIC - FMD: Stand is 2 aged with a heavy understory of pine, aspen and oak. Overstory is mostly white pine. Hold stand till understory matures more. 2019 - Stand is healthy and no activity.																																													
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27	42290 - Natural Mixed Pine	Poletimber Well	6.6	64	111-140	N/A	OPIC - FMD: Stand is two-aged with an even mix of overstory logs and understory poles. There is also a heavy white pine understory.																																							
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28	4133 - Aspen, Mixed Pine	Sapling Well	14.5	42	111-140	N/A	OPIC - FMD: Decent white birch component.																																							
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29	4311 - Pine, Aspen Mix	Poletimber Well	16.2	52	81-110	N/A	OPIC - FMD: This stand was blended from several stands that were cut all around the same time period. Stand is a ridge that drops off to the flat on the west side. Transitioning nicely to poles. There is a component of red and white pine as well as hardwood and oak. Some residual white pine logs as well.																																							
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31	4130 - Aspen	Poletimber Well	11.5	43	81-110	N/A	OPIC - FMD: Stand has a heavy white pine component. Lumping in a small pie shaped piece on south end that was once part of an opening but wasn't treated last entry because it sets north of the road. This piece is a little more open and has filled in with aspen, and jack pine.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
32	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	4.7	47	81-110	N/A	2019 - No activity.																																									
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33	4130 - Aspen	Sapling Medium	13.7	21	Immature	N/A	OPIC - FMD: [5-20-02] Stand cut in spring of 2002 and TSI'd by inmates. 2019 - Stand is healthy. No activity.																																									
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34	330 - Low-Density Trees	Nonstocked	36.3	0	Unspecified	4211 - Planted Red Pine	OPIC - FMD: BA heavy enough to thin in spots, get rid of all additional competition. [1-5-05 BB] High Rollways Red Pine 31-01 closed, cut late fall 04. [New OI Comments] Good spacing, look at next entry for possible liquidation due to the planting history. 12/22/2022: Stand was harvested in spring and fall of 2022. January Marking Mix 2019 - Stand is health. Due to advanced hardwood regeneration stand should be clear cut.																																									
35	4130 - Aspen	Sapling Well	17.0	20	Immature	N/A	OPIC - FMD: [1-5-05 BB] Smith Lake Hardwood 16-02 sale now closed, FTP still open, cut 03. (9/8/05AP) FTP W41-1082 has been completed Aspen TSI. Stand was originally 3 separate stands but is now lumped all together, the center portion was typed as grass previously but has regenerated to mostly to A3. 2019 - Stand is healthy. No activity.																																									
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36	42110 - Planted Red Pine	Sawtimber Well	30.8	73	141-170	N/A	OPIC - FMD: Stand originally planted as alternate rows of red and jack pine, jack pine was cut out in 94'. Stand was split this entry year and the north half is being final harvested now and the south half which is this stand will hold 10 years to break up the area and fit in with other clearcuts to the east. 2019 - Stand is well stocked and does not have as much advanced regeneration as red pine stand 34.																																									
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37	122 - Road/Parking Lot	Nonstocked	3.7		Unspecified	No	OPIC - FMD: M-94 R.O.W.																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																								
38	42110 - Planted Red Pine	Sapling Well	23.9	12	Immature	N/A	<p>10/19/11 bb Stand is now on proposal 27-11 Stray Bullets, Units 1 and 7. Actual acres 25. FTP C41-1513 submitted for planting. (8/20/2012 AP). Stand was herbicide site prep sprayed by skidder with Garlon/Oust. (6/10/2013 AP): Stand was trenched and then planted in spring 2013. Regen check scheduled for 2014. 3 year regen check showed 550 red pine 6/10/2014 AP) 2014 Regen check: 603 red pine</p> <p>[8/20/14 TI] Sale is closed. TCR Date 7/8/14 Site was forwarded to TMS for planting. Planting never occurred and stand was placed back into monitoring status. Aerial herbicide release sprayed in summer 2018</p> <p>Spraying was done by Skyline Helicopters. Weather (on site) = Partly cloudy/sunny, 50 degrees at start, up to 60 degrees , RH 46% & Wind North @ 1 MPH. Started spraying at 9:00 A.M. This site sprayed around 9:50 A.M.</p> <p>Sprayed Rodeo @ 1.5 qt./acre and Garlon @ 0.75 qt/ac. Penetron @ 9 oz/ac.</p> <p>Mobilization cost of \$391.00 (\$852.00 in total for all 3 FTP's done this year.)</p> <p>Total herbicide cost = \$66.86/acre. This doesn't include any DNR labor/wages.</p> <p>2019 - Stand looks good.</p>																								
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39	4130 - Aspen	Sapling Well	5.0	8	Immature	N/A	<p>OPIC - FMD: Nice aspen, stay out of good hardwood on the north and retain or exclude beech pockets as well.</p> <p>[1/11/09 bb] Compartment Review Decision was to put cultural codes back on to TSI stand, actual work would be funded by WLD.</p> <p>10/19/11 bb Stand is now on proposal 27-11 Stray Bullets, Units 2. Actual acres 5. Retention was exclusion of pockets. Due to a change in WLD Biologists and philosophy, the TSI will be accomplished with sale specs.</p> <p>[8/20/14 TI] Sale is closed. TCR Date 7/8/14</p> <p>2019 - Stand looks great and is fully stocked.</p>																								
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40	42110 - Planted Red Pine	Poletimber Well	21.3	58	171-200	N/A	<p>OPIC - FMD: Soils are very droughty with frost pockets hold 10 more years.</p> <p>2019 - Stand has not been harvested. The crowns are starting to crowd in and need to be released. The trees are on the small side, with smaller diameters on the north end of the stand.</p>																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
41	6122 - Black Spruce	Poletimber Well	3.1	56	51-80	N/A	Stand was part of a purchase that occurred in 2007. Needs to have stand lines checked and inventory done.																																																		
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42	42290 - Natural Mixed Pine	Sawtimber Well	6.6	88	81-110	N/A	Stand was thinned in 2015. It was part of Lonely Bluebill 41-24-11. Red and white pine were marked and then all other species were cut except oak.																																																		
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43	4130 - Aspen	Sawtimber Well	1.9	79	81-110	N/A	OPIC - FMD: Hold stand 10 years to allow the adjacent stand regenerates since its on a main travel corridor and the stand being cut contains the Gun Club Archery Range.																																																		
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44	42110 - Planted Red Pine	Poletimber Well	18.6	73	141-170	N/A	OPIC - FMD: This stand is part of a mosaic of jack pine and red pine plantation strips that encompass a quarter section. The center red pine strip will be maintained and thinned as red pine (stand 44). All strips to the west will be clear-cut and converted to jack pine as these strips are a bit more droughty and even some frost pockets. All strips to the east will be clear-cut and converted to red pine. These cuts will make it easier to manage these stands in the future.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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45 4133 - Aspen, Mixed Pine Poletimber Poor 106.1 24 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Sapling	2	
Red Pine	5	Sapling	2	
Jack Pine	10	Sapling	2	
Red Oak	30	Pole/Sap/Log	8	
Bigtooth Aspen	45	Sapling	2	24

OPIC - FMD:) Sent: Wednesday, March 19, 2014 8:25 AMTo: Matson, Kristen (DNR)Subject: RE: SH C42 post-comp review modificationApprove – I'll need the final approved FTP on this one. Thanks-----

-----From: Kuhr, Donald (DNR) Sent: Tuesday, March 18, 2014 12:55 PMTo: Matson, Kristen (DNR)Subject: RE: SH C42 post-comp review modificationI approve.-----

-----From: Paquin, Thomas (DNR) Sent: Tuesday, March 18, 2014 12:49 PMTo: Moore, Dan (DNR); Matson, Kristen (DNR); Burnham, Robert (DNR)Cc: Kuhr, Donald (DNR)Subject: RE: SH C42 post-comp review modificationLooks good to me.ThanksTomFrom: Moore, Dan (DNR) Sent: Tuesday, March 18, 2014 12:33 PMTo: Matson, Kristen (DNR); Burnham, Robert (DNR); Paquin, Thomas (DNR)Cc: Kuhr, Donald (DNR)Subject: RE: SH C42 post-comp review modificationNo issues from my standpoint, Tom. Recommend we support. Interesting test....Dan MooreEUP Recreation SpecialistMDNR, Parks and Recreation5100 State Hwy M-123Newberry, MI 49868906-293-5131 ext 4045e-Mail MooreD9@michigan.gov-----

-----From: Swanson, Kevin (DNR) Sent: Tuesday, March 18, 2014 12:10 PMTo: Matson, Kristen (DNR)Cc: Albright, Craig (DNR); Brown, Donald (DNR)Subject: RE: SH C42 post-comp review modificationWildlife Division is very much in favor of this modification, we are hopeful that this work will allow us to manage for more diverse and nutritious plant species within break-out areas of the Sturgeon Hole Wintering Complex. Thanks.-----

-----From: Matson, Kristen (DNR) Sent: Tuesday, March 18, 2014 11:45 AMTo: Burnham, Robert (DNR); Stampfly, Jeffrey (DNR); Swanson, Kevin (DNR); Albright, Craig (DNR); Moore, Dan (DNR); Paquin, Thomas (DNR); Kramer, Darren (DNR); Mistak, Jessica (DNR)Cc: Kuhr, Donald (DNR)Subject: SH C42 post-comp review modificationThe Shingleton FMU is proposing a post-compartment review modification to Compartment 42 stand 424. The attached FTP shows a map of the area and further describes the proposed treatment. Additional information is in the note below. Compartment 42 is from the 2011 YOE and is in the OI system.

Please review the information, and send me your comments either for or against by April 1, 2014. Thank you.Kristen MatsonEUP Inventory and Planning Specialist(906) 293-5131 x 4042(906) 452-6227 x 242-----

-----From: Burnham, Robert (DNR) Sent: Tuesday, March 18, 2014 11:16 AMTo: Matson, Kristen (DNR)Subject: FW: Chap 7Hi Kris,Can you route a Chapter 7 with the info attached? Thanks-----

-----From: Kuhr, Donald (DNR) Sent: Monday, March 17, 2014 9:09 AMTo: Burnham, Robert (DNR)Subject: RE: Chap 7The FutureMark paper mill in Manistique generates several hundred tons of deinking waste per day. This waste is make up of approximately 50% clay and 50% waste fiber. Currently the waste (sludge) is being landfilled at a location off of M-94 north of Manistique. The land fill is approaching its capacity. This type of sludge is used by



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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other mills on agricultural lands as a source of lime. The mill and DEQ approached the DNR to see if it could be applied to forest lands. This FTP is for a trial to see what application rates are feasible. FTP W41-1605 has been completed and closed. Contract crew planted 385 bare root apple saplings in spring of 2014.

46 4139 - Aspen, Mixed Deciduous Sawtimber Well 15.5 79 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Pole	8	
White Pine	10	Log/Pole	12	
Quaking Aspen	55	Log/Pole	10	79
Red Maple	15	Log/Pole/Sap	10	
Paper Birch	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	5 - 10 feet	Sapling
White Pine	Medium	< 5 feet	Sapling

OPIC - FMD: Stand is under a long term use agreement with the Manistique Rifle and Pistol Club, the club has their Archery range within the stand. The State kept the timber rights and the stand needs to be cut. Discuss at pre-review how much input should be sought from the Club on Prescription. The stand has a decent white pine component which should be left as well as possibly some hardwood along the range course.

[10/20/09 bb] Prescription was agreed to at Pre-Review, met with the Club on 10-28-09, Club was very much against cutting. It was discovered that the Public Use Deed was never executed by the Township, this has taken priority in resolving. The club sent a letter against cutting the stand.

[1/11/10 bb] Compartment Review decision was to leave the stand prescribed and factor limit stand while the Public Use deed is resolved. If it is resolved there is an understanding that the prescription will be tweaked not to impact within the range itself.

[1/11/09 bb] Compartment Review Decision was to put cultural codes back on to TSI stand, actual work would be funded by WLD.

2019 - This stand is what is left after taking away the 40 acres the archery range is on. The stand is mature and ready for harvest.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
47	3102 - Grass	Nonstocked	62.1		Unspecified	Managed Opening	<p>OPIC - FMD:) Sent: Wednesday, March 19, 2014 8:25 AM To: Matson, Kristen (DNR) Subject: RE: SH C42 post-comp review modification</p> <p>Approve – I'll need the final approved FTP on this one. Thanks</p> <p>-----</p> <p>From: Kuhr, Donald (DNR) Sent: Tuesday, March 18, 2014 12:55 PM To: Matson, Kristen (DNR) Subject: RE: SH C42 post-comp review modification</p> <p>I approve.</p> <p>-----</p> <p>From: Paquin, Thomas (DNR) Sent: Tuesday, March 18, 2014 12:49 PM To: Moore, Dan (DNR); Matson, Kristen (DNR); Burnham, Robert (DNR) Cc: Kuhr, Donald (DNR) Subject: RE: SH C42 post-comp review modification</p> <p>Looks good to me. Thanks Tom</p> <p>-----</p> <p>From: Moore, Dan (DNR) Sent: Tuesday, March 18, 2014 12:33 PM To: Matson, Kristen (DNR); Burnham, Robert (DNR); Paquin, Thomas (DNR) Cc: Kuhr, Donald (DNR) Subject: RE: SH C42 post-comp review modification</p> <p>No issues from my standpoint, Tom. Recommend we support. Interesting test....</p> <p>Dan Moore EUP Recreation Specialist MDNR, Parks and Recreation 5100 State Hwy M-123 Newberry, MI 49868 906-293-5131 ext 4045 e-Mail MooreD9@michigan.gov</p> <p>-----</p> <p>From: Swanson, Kevin (DNR) Sent: Tuesday, March 18, 2014 12:10 PM To: Matson, Kristen (DNR) Cc: Albright, Craig (DNR); Brown, Donald (DNR) Subject: RE: SH C42 post-comp review modification</p> <p>Wildlife Division is very much in favor of this modification, we are hopeful that this work will allow us to manage for more diverse and nutritious plant species within break-out areas of the Sturgeon Hole Wintering</p>

TOOHEYH



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48	42110 - Planted Red Pine	Sapling Well	78.3	9	Immature	N/A	<p>10/19/11 bb Stand is now on proposal 27-11 Stray Bullets, Units 6,9,11. Actual acres 6. FTP C41-1513 submitted for planting.</p> <p>Stand was planted, trenched and sprayed. 1 year regen check showed 740 red pine, 30 RP volunteers, and 60 jack pine volunteers 11/1/17: Stand was counted in fall 2017 and showed 666 red pine, 25 white pine, 110 jack pine. Continue to monitor for herbicide work and disease issues.</p> <p>Aerial herbicide release sprayed in summer 2018. Spraying was done by Skyline Helicopters. Weather (on site) = Partly cloudy/sunny, 50 degrees, RH 46% & Wind North @ 1 MPH. Started spraying at 9:00 A.M. This site sprayed around 9:30 A.M.</p> <p>Sprayed Rodeo @ 1.5 qt./acre. Penetron @ 9 oz/ac. No Garlon on this site.</p> <p>Mobilization cost of \$330.00 (\$852.00 in total for all 3 FTP's done this year.)</p> <p>Total herbicide cost = \$56.51/acre. This doesn't include any DNR labor/wages.</p> <p>2019 - Stand looks good. Will be a mixed pine stand with red and jack and white pine, but trees are established and doing good. Herbicide did a good job of killing aspen. Maple is knocked back but not dead. Trees are free to grow.</p>																			
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49	42110 - Planted Red Pine	Poletimber Well	3.7	58	141-170	N/A	<p>OPIC - FMD: Very poor soils hold 1 more entry before thinning.</p> <p>2019 - The trees in this stand have a small diameter but should be thinned since the crowns are starting to crowd in and slow down growth.</p>																			
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50	110 - Low Intensity Urban	Nonstocked	0.4		Unspecified	No	OPIC - FMD: Powerline R.O.W.																			
51	42210 - Natural Red Pine	Poletimber Medium	39.5	58	111-140	N/A	<p>OPIC - FMD: Stand contains 2 age classes, likely more aspen than plots indicate. Species thin stand maintaining red and white pine and oak. Thinning will be light protect the pine regen.</p> <p>10/19/11 BB Stand is now on proposal, 24-11 Lonely Bluebill, actual acres 26, Unit 2. Residual BA = red pine 52', white pine 14', oak 3' 69 total</p> <p>Stand was cut as part of the Lonely Bluebill Sale (#41-024-11-01). Sale is complete and now closed. TCR date 6/3/15.</p> <p>2019 - Stand is healthy. Aspen is starting to come in.</p>																			
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52	4130 - Aspen	Sapling Well	17.9	21	Immature	N/A	OPIC - FMD: [5-20-02] Stand cut in spring of 2002 and TSI'd by inmates. 2019 - Stand looks healthy and well-stocked.																																													
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53	500 - Water	Nonstocked	2.6		Unspecified	No	OPIC - FMD: Camp 9 Lakes																																													
54	42350 - Upland Hemlock	Sawtimber Well	4.2	80	81-110	N/A	Stand was part of a purchase that occurred in 2007. Needs to have stand lines checked and inventory done. Old data may be present from Plum Creek. 2019- Stand is an uncut patch of hemlock. Healthy.																																													
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56	42220 - Natural Jack Pine	Poletimber Well	3.2	48	81-110	N/A	OPIC - FMD: Old G type that has filled in. 2019- Delineated this stand out of larger grass stand. Trees are healthy, no activity.																																													
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57	4123 - Red Oak	Sawtimber Poor	16.5	89	51-80	N/A	2019 - Delineated from aspen stand. More open and has large oak in the overstory. Understory is mostly aspen and jack pine. No activity.																																													
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59	42220 - Natural Jack Pine	Poletimber Medium	5.0	43	51-80	N/A	2019 - Small jack pine stand trees are healthy and too small to cut. No activity.																																																	
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61	4130 - Aspen	Poletimber Medium	16.6	43	81-110	N/A	OPIC - FMD: Stand has a heavy white pine component. Lumping in a small pie shaped piece on south end that was once part of an opening but wasn't treated last entry because it sets north of the road. This piece is a little more open and has filled in with aspen, and jack pine. 2019 - Stand looks good and healthy. Breaking off conifer stand to the south. No activity.																																																	
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62	42210 - Natural Red Pine	Poletimber Medium	2.6	58	51-80	N/A	stand cut in winter 2015 with Lonely bluebill sale. FTP 1513 is available for red pine planting. residual basal area is high, but FTP called for planting of red pine since stand is along M94 10/19/11 BB Stand is now on proposal, 24-11 Lonely Bluebill, actual acres 3, Unit 1. Residual BA = red pine 38', white pine 8', oak 5'. 51 total FTP C41-1513 submitted for planting. Planting will not be done, not needed. 2019- Stand has regenerated, no activity needed. Lots of small diameter trees 4-6 dbh.																																																	
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63	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	2.1	64	141-170	N/A	OPIC - FMD: Mixed pine oak stand hold 1 more entry before thinning. 2019 - Stand is healthy with variable stocking. Could cut or not.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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64 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 30.1 21 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	15	Pole/Sapling	6	
Paper Birch	20	Pole/Sapling	6	21
Tamarack	5	Pole/Sapling	6	
Bigtooth Aspen	10	Sapling	4	21
Red Oak	5	Sapling	4	
Northern White Cedar	20	Pole/Sapling	6	
White Pine	10	Log/XLog/Pole	16	79
Balsam Fir	15	Sapling	4	

OPIC - FMD: This is part of the Carley property that was purchased through DRIP funding to increase deeryard habitat. The parcel was in process of being cut over prior to gaining ownership. 2 fence enclosures were built with inmate labor and UP Whitetails provided funds for the fence. This stand consists of the northern enclosure. In the center of the stand is a cut over ridge which transitions to low ground the transition was partially cut and still contains cedar and spruce. Regen near the residual trees is good though it is mainly spruce. The remainder and bulk of the stand is a traditional clearcut with poor regen made up of fir, spruce and tamarack. However, regen was looked at during full green-up. There is a decent oak regen component naturally occurring on the ridge and transition and there is an FTP W41-1428 to supplement that oak with sapling size trees along the ridge.
[9/28/09] Vendor planted 20 oak saplings near the road along the ridge within the Sturgeon Hole deer yard.
(2/16/2010 AP) FTP W41-1428 is officially closed.

2019- Could not get behind gate. Stand looks healthy.

65 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 17.1 21 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	5	Sapling	4	
Paper Birch	20	Pole/Log/Sap	6	21
Tamarack	10	Pole/Sapling	6	
Balsam Fir	10	Pole/Sapling	6	
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Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Full	10 - 20 feet	Tall Shrub
Northern White Cedar	Low	< 5 feet	Sapling
Tamarack	Low	10 - 20 feet	Sapling
Paper Birch	Full	10 - 20 feet	Sapling

OPIC - FMD: This is part of the Carley property that was purchased through DRIP funding to increase deeryard habitat. The parcel was in process of being cut over prior to gaining ownership. 2 fence enclosures were built with inmate labor and UP Whitetails provided funds for the fence. This stand consists of the southern enclosure. On the east side of the stand is a cut over ridge which transitions to low ground the transition was partially cut and still contains cedar and spruce. Regen near the residual trees is good though it is mainly spruce. The remainder and bulk of the stand is a traditional clearcut with poor regen made up of fir, spruce and tamarack. However, regen was looked at during full green-up. There is a decent oak regen component naturally occurring on the ridge and transition and there is an FTP W41-1428 to supplement that oak with sapling size trees along the ridge. Hemlock was also planted on the ridge with inmates however only a handful could be found during inventory.
(2/16/2010 AP) FTP W41-1428 is officially closed. 20 oak saplings were planted

2019 - Gate key didn't work.

66 6120 - Lowland Cedar Poletimber Poor 45.4 133 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	25	Pole/Sapling	6	
Northern White Cedar	60	Pole/Sapling	6	133
Tamarack	15	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Full	10 - 20 feet	Sapling
Paper Birch	Medium	5 - 10 feet	Sapling
Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Medium	5 - 10 feet	Sapling
Tag Alder	High	5 - 10 feet	Tall Shrub

OPIC - FMD: This is part of the Carley property that was purchased through DRIP funding to increase deeryard habitat. The parcel was in process of being cut over prior to gaining ownership. This stand is sprawling and has pockets of trees that were left as the cutting was a high grade of sorts in which the best pockets were cut first. There is a decent oak regen component naturally occurring on the small ridge portion and an FTP W41-1428 to supplement that oak with planting sapling size trees along the ridge is open. Regen is decent when close to residual trees though it is mainly spruce, fir and tamarack.
(2/16/2010 AP) FTP W41-1428 is officially closed. 20 oak saplings were planted

2019 - Not a lot of change. Stand heavily cut, not a lot of change. Low ground and productivity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
67	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	31.9	133	81-110	N/A	OPIC - FMD: This is part of the Carley property that was purchased through DRIP funding to increase deeryard habitat. The parcel was in process of being cut over prior to gaining ownership. This stand was not cut however. 2019 - Stand is healthy.																																													
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68	6124 - Lowland Spruce-Fir	Sawtimber Well	212.0	133	141-170	N/A	OPIC - FMD: This is part of the Carley property that was purchased through DRIP funding to increase deeryard habitat. The parcel was in process of being cut over prior to gaining ownership. This stand was not cut however. 2019 - Stand is healthy.																																													
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69	4112 - Maple, Beech, Cherry Association	Poletimber Medium	11.5	74	1-50	N/A	OPIC - FMD: This is part of the Carley property that was purchased through DRIP funding to increase deeryard habitat. The parcel was in process of being cut over prior to gaining ownership. This hardwood stand was cut very heavy and the regen to follow was severely browsed spawning a heavy pin cherry crop. 2019 - Stand is healthy, no activity.																																													
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72	622 - Lowland Shrub	Nonstocked	18.4		Unspecified	No	OPIC - FMD: This is part of the Carley property that was purchased through DRIP funding to increase deeryard habitat. The parcel was in process of being cut over prior to gaining ownership. This stand is adjacent to the grade and looks to be an ancient beaver flooding. 2019 - Stand has lots of tag alder and drains.																																													
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450	3102 - Grass	Nonstocked	10.3		Unspecified	Managed Opening	OPIC - FMD: FTP W41-1605 has been completed and closed. Contract crew planted 385 bare root apple saplings in spring of 2014. W41-1605 "L-Gun Club": *Perimeter of stand planted with apple saplings, 2014. *Stand farmed and planted with rye/clover, 2016. *Field was re-farmed and planted to rye/clover mix, August 2021. *Mowed. 2017, 2018, 2019, 2020, 2022.																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																			
454	3102 - Grass	Nonstocked	20.3		Unspecified	No	OPIC - FMD: Most of stand was burned last entry, stand has a spattering of oak logs and jack pine seedlings.																			
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