



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41037

Entry Year 2021

Acreage: 1,936

County Schoolcraft

Management Area: Seney Lake Plain

Stand Examiner: Adam Petrelius

Legal Description:

T43N R16W Sections 4,5,9,16

Identified Planning Goals:

The goals in this compartment include conducting multiple resource management for current and future generations.

Soil and topography:

Most of section 5 consists of peat type soils and is low flat ground. As you move to the east into section 4 the terrain changes and gets higher as you enter the Hiawatha Moraine. The soils here are mainly McMillan Stutts Complex and Rubicon sands.

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

Ownership is somewhat fragmented within the center of the compartment, with a mix of permanent residences and seasonal camps. There is a private sand pit within section 4 and also an 800 MHz tower which is part of a long term lease.

Unique Natural Features:

None known.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

The southern portion of the compartment is within the Sturgeon Hole Deeryard.

Watershed and Fisheries Considerations:

The northern region of this compartment contains headwaters of Smith Creek which serves as a tributary to Indian Lake. Smith Creek is a non-designated stream less than 50' width. 100' plus 5' per 1% increase in slope; buffers are recommended for Smith Creek to protect riparian areas in accordance with Best Management Practices. The southeastern region of this compartment contains Kepler Lake. 100' plus 5' per 1% increase in slope; buffers are recommended for Kepler Lake to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is located along M-94 just east of the Mint Farm in Schoolcraft County. It contains a gradient of habitat types ranging from lowland brush in the west through early successional pine, aspen, and birch in the central and southern parts to northern hardwoods and grassy openings in the east. There is also a small portion of oak in the north and oak mixed with pine and other species in the south. The wildlife goals in this compartment are to provide super-canopy pine trees, promote age and structural diversity within the hardwood stands, protect the existing oak, and to promote age and structural diversity between aspen stands.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured till, lacustrine (lake) sand and gravel and minor peat and muck. The glacial drift thickness varies up to 200 feet. The Ordovician Bill Hill Dolomite and Stonington Formation subcrop below the glacial drift. These rocks could be used for stone. Gravel, sand & clay pits are located in the area and there appears to be potential. There is no commercial oil and gas production in the UP.

Vehicle Access:

M-94 runs through the compartment and there is excellent access to most of the compartment via county maintained roads and State two-tracks with the exception of section 5. Access is non-existent in section 5 due to the low ground and peat soils. There is an old closed road that runs along a ridge in the northwest corner of the section but there is no bridge across the Big Ditch to the west.

Survey Needs:

Yes.

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 Ashford Lake which sits just to the east of the compartment.

Fire Protection:

Most of the upland portions of the compartment have good access if needed for fire operation. However, the lower ground in section 5 has poor access but more importantly is comprised of peat soils which have proven to be difficult to extinguish due to the depth at which they can burn underground.

Additional Compartment Information:**The following reports from the Inventory are attached:**

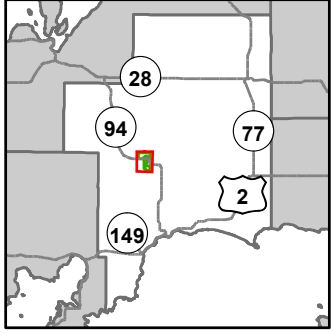
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

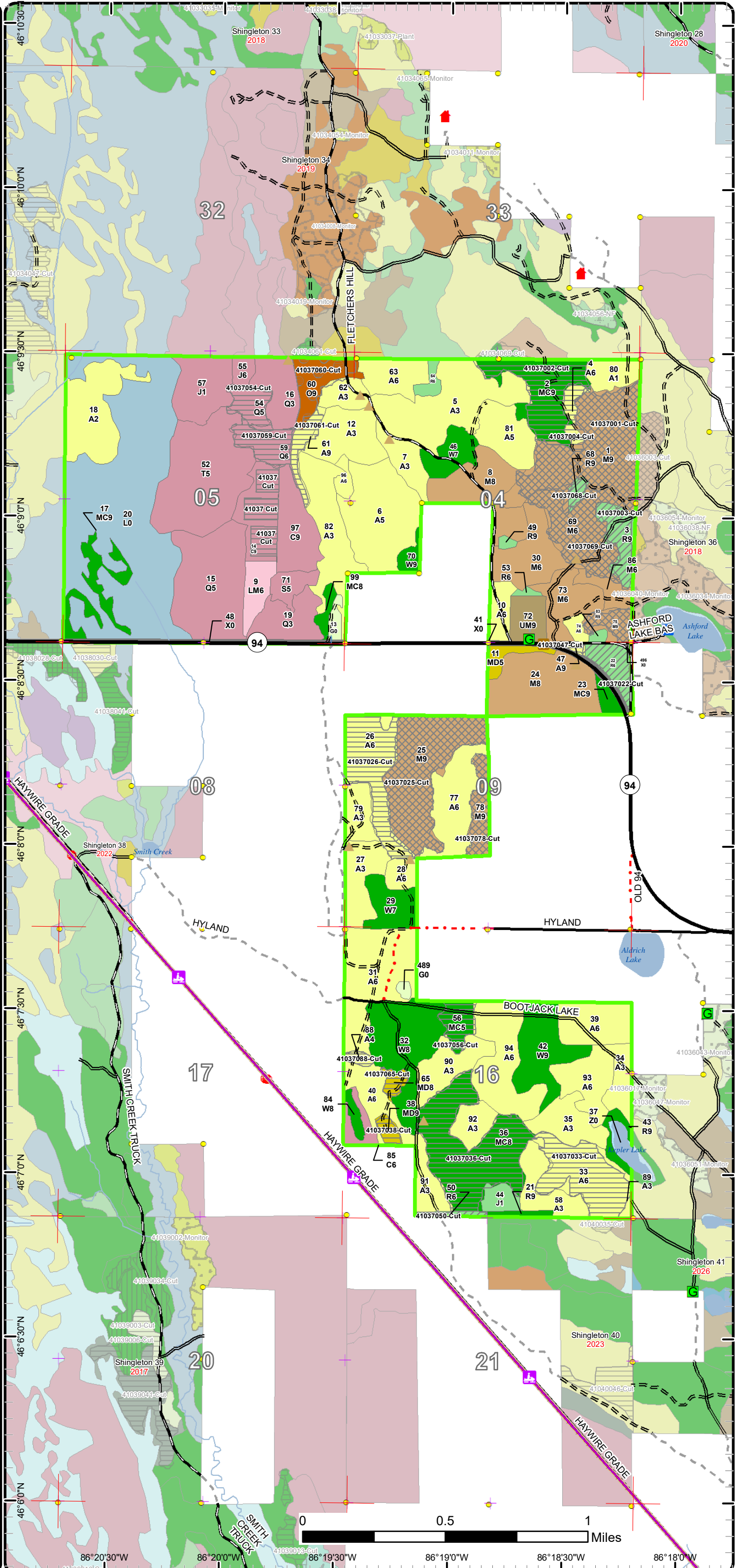
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 37
 T43N,R16W, Sec: 4, 5, 9, 16
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Seney Lake Plain
 YOE: 2021
 Acres: 1935.9 GIS Calculated
 Examiner: Adam Petrelius
 Map Revised: 9/20/2023
 Map Phase: Post Review

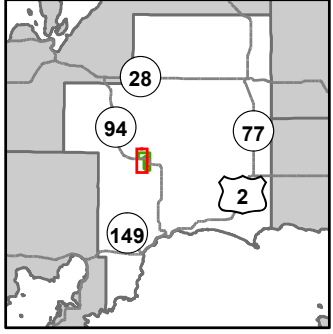


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - Private - Dirt / Gravel Road
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- Lakes and Rivers
- Berms
- Gate
- Boating Access Site
- Culvert
- Campground
- Sign
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Patch/Strip Cut (Femelschlag)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub

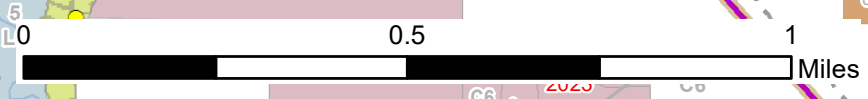
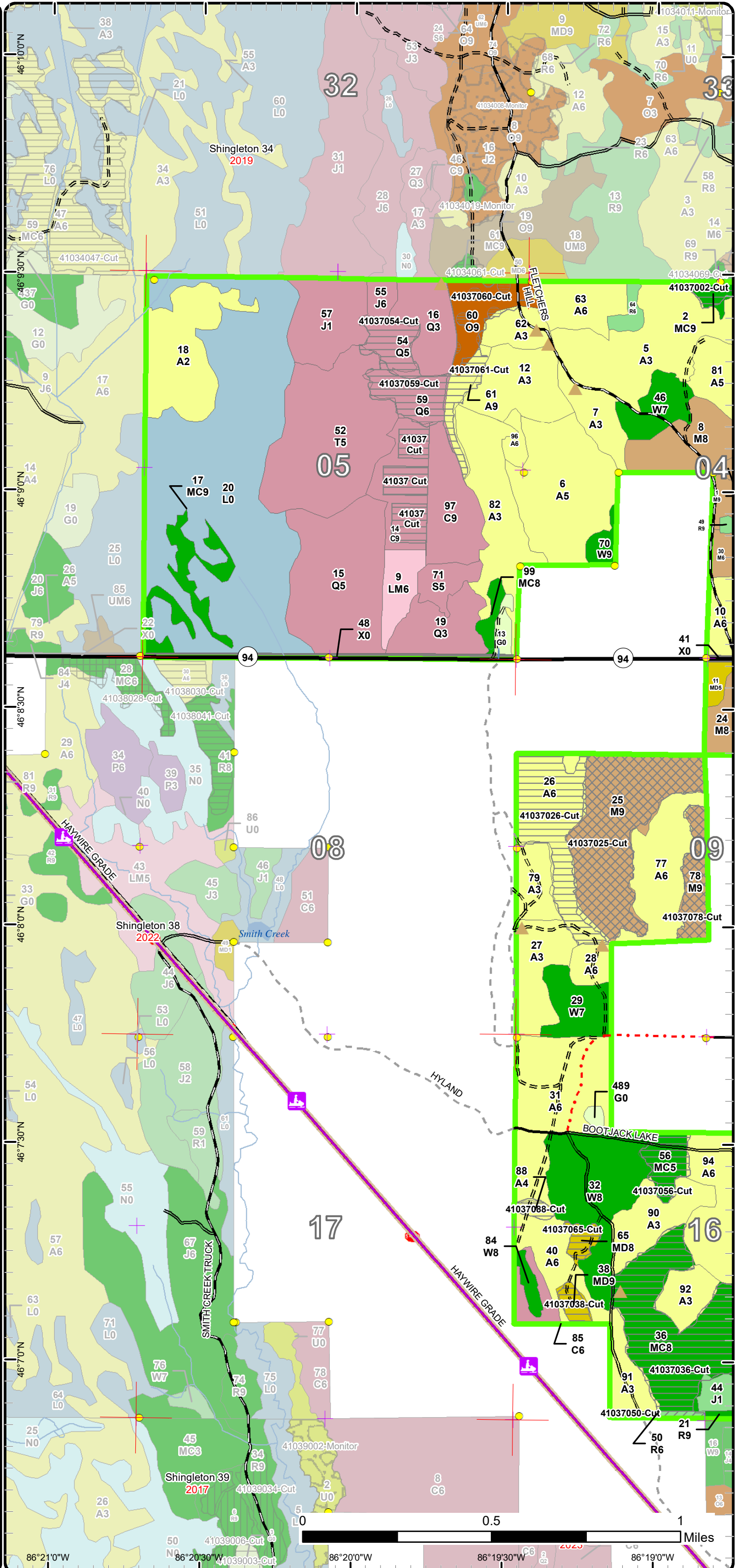


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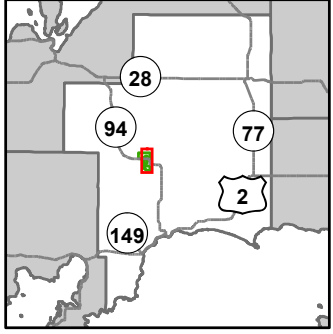
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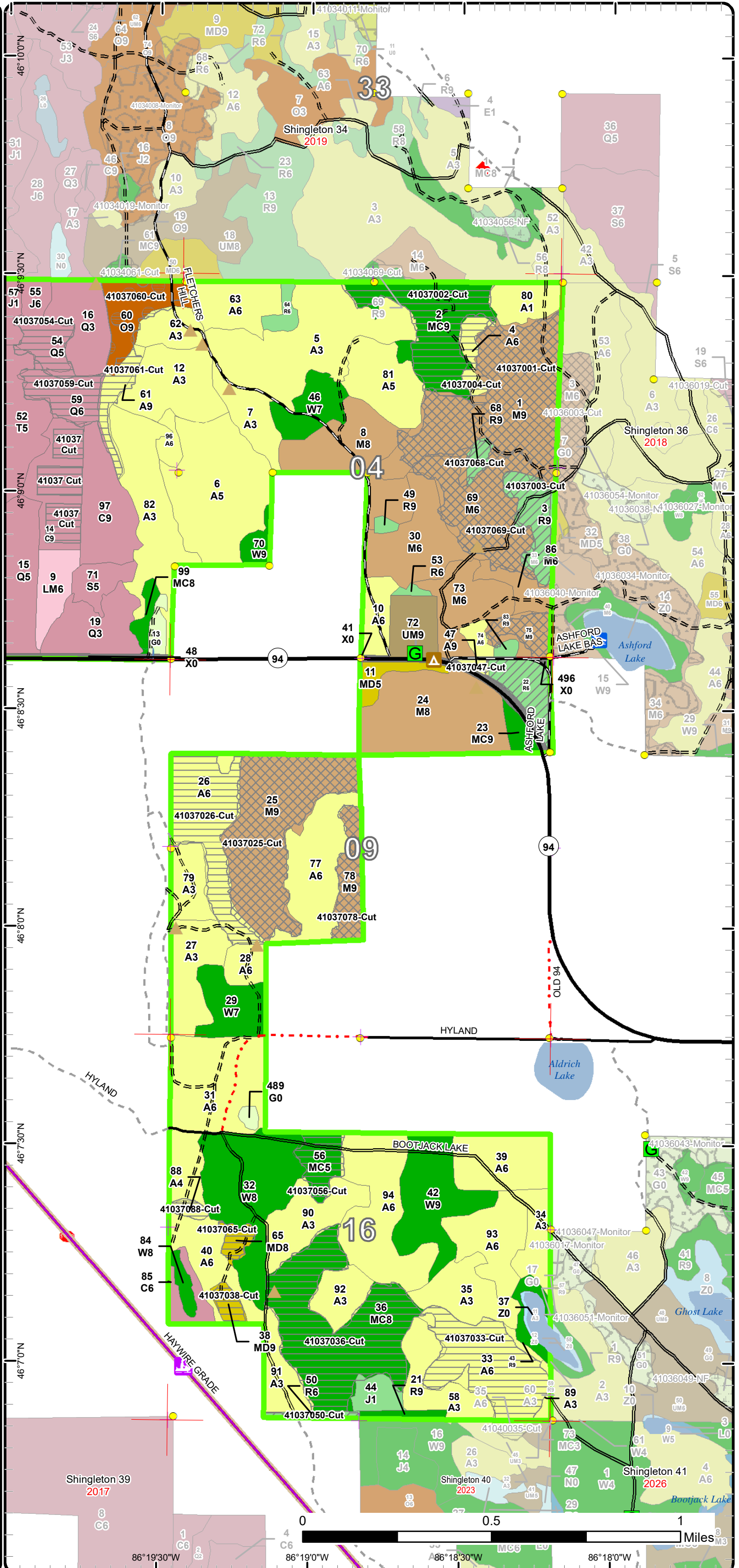
86°21'0"W 86°20'30"W 86°20'0"W 86°19'30"W 86°19'0"W

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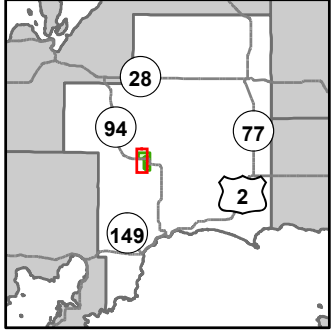


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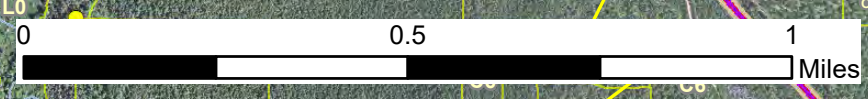
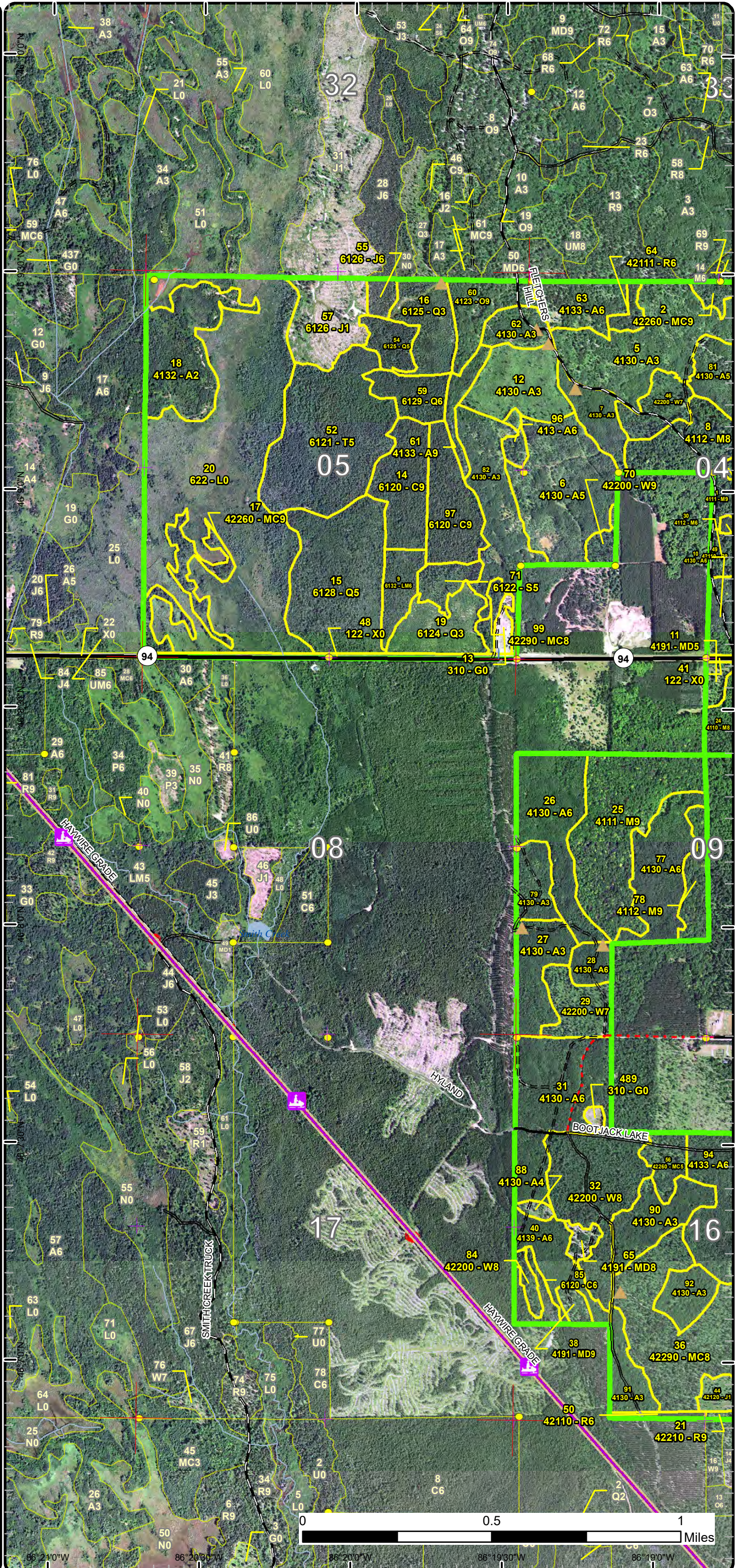


Stand Boundary Map

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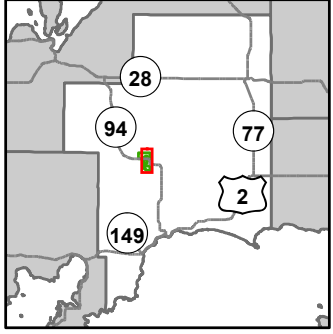
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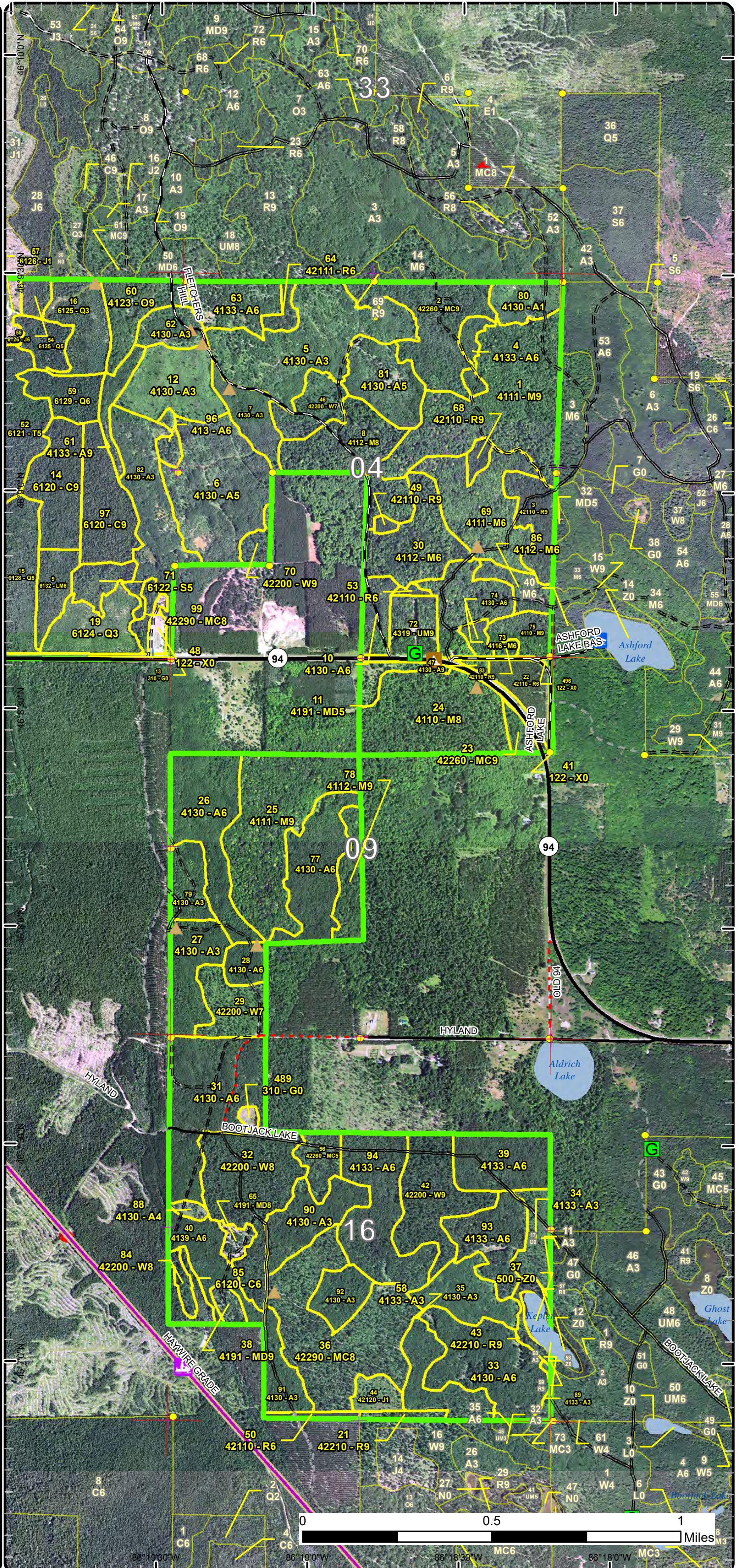
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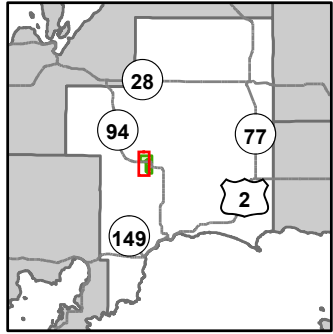


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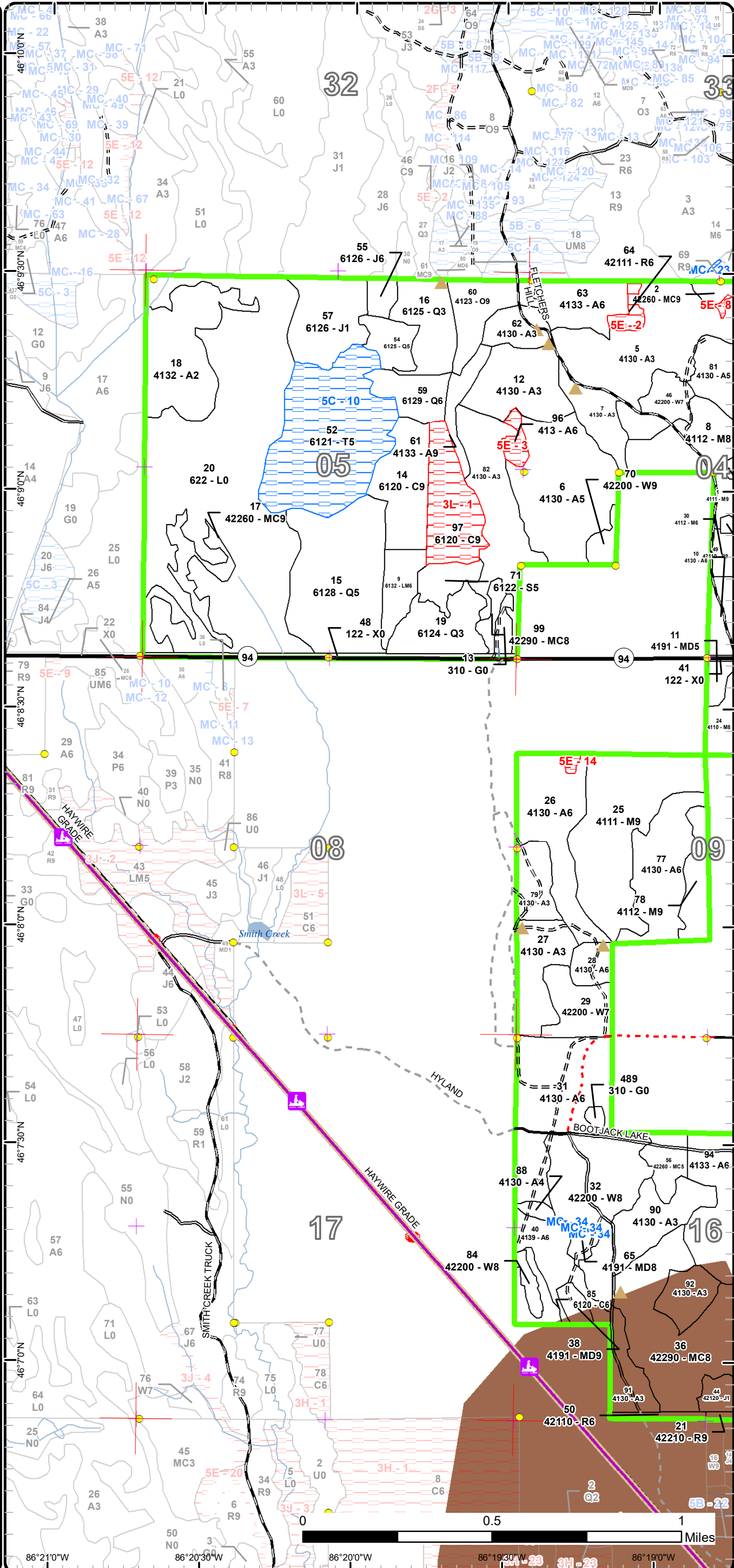


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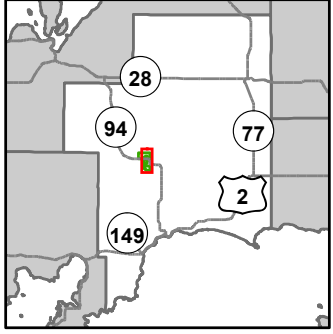


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- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Deer Winter Range

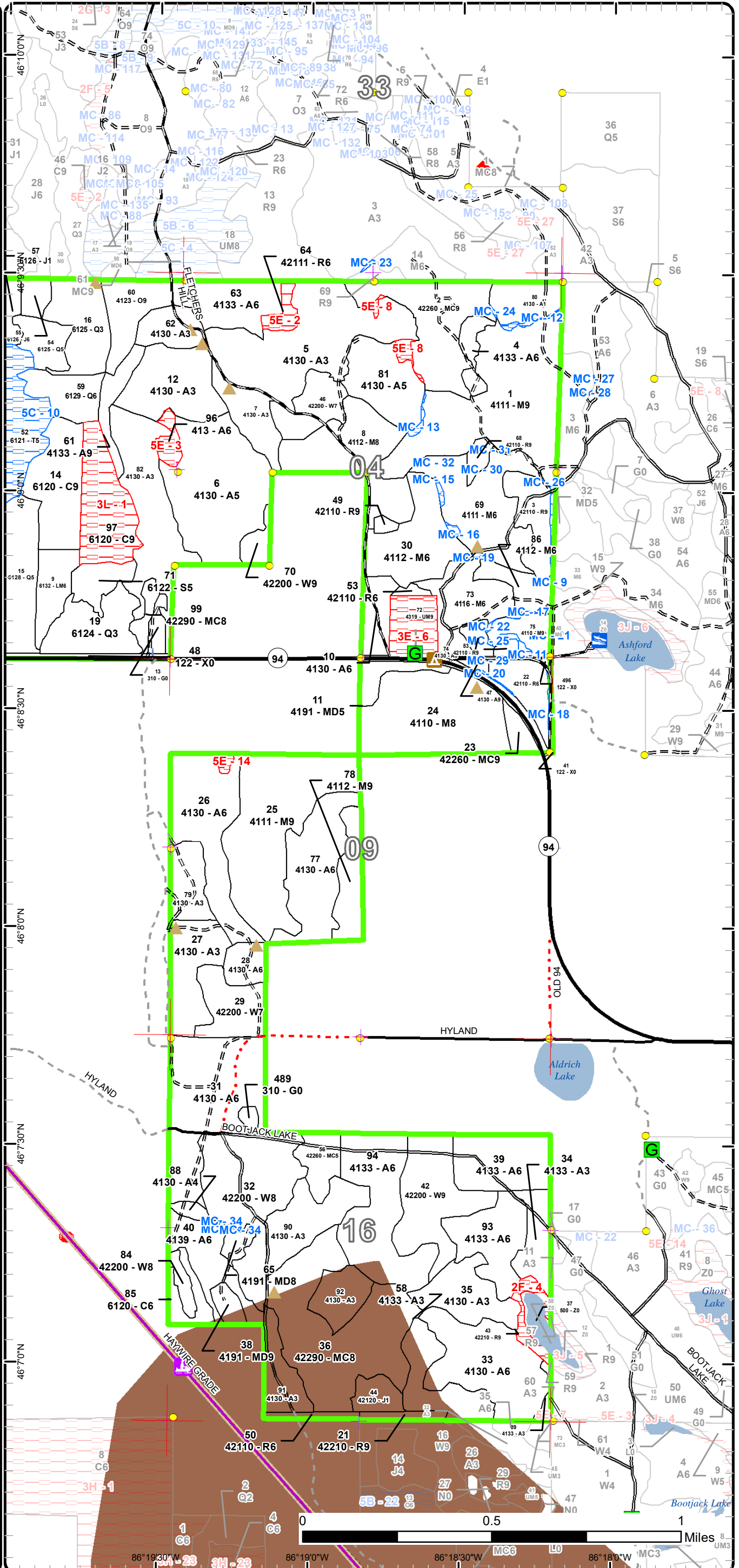


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- Culvert
- ▲ Campground
- STOP Sign
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Deer Winter Range



86°19'30"W 86°19'0"W 86°18'30"W 86°18'0"W
 MC6 LO MC3
 06 06 06 06
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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	0	73	258	8	236	147	5	0	0	0	0	0	0	0	0	0	0	726
Cedar	0	0	0	0	0	0	0	0	0	0	0	52	7	0	0	0	0	0	59
Herbaceous Openland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Jack Pine	0	0	34	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	39
Lowland Conifers	0	0	21	21	0	0	0	0	10	59	14	0	0	0	0	0	0	0	125
Lowland Mixed Forest	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	12
Lowland Shrub	181	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	181
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	15
Natural Mixed Pines	0	0	0	0	0	0	10	0	5	87	37	0	0	0	0	0	0	0	137
Northern Hardwood	0	0	0	0	0	9	0	22	36	45	172	0	0	0	0	0	0	49	333
Oak	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	18
Red Pine	0	0	0	0	3	0	24	16	0	3	6	0	0	0	0	0	0	0	52
Tamarack	0	0	0	0	0	0	0	71	0	0	0	0	0	0	0	0	0	0	71
Upland Mixed Forest	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	14
Urban	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
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	0	0	0	59	58	0	0	0	0	0	0	0	0	117
Total	210	0	128	279	11	260	186	140	110	261	247	52	7	0	0	0	0	49	1937



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 37

Total Compartment Acres: 1,936

Commercial Harvest - 478
 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	90	0	0	0	0	0	0	0	0	90
Cedar	16	0	0	0	0	0	0	0	0	16
Lowland Conifers	25	0	0	0	0	0	0	0	0	25
Mixed Upland Deciduous	7	0	0	0	0	0	0	0	0	7
Natural Mixed Pines	109	0	0	0	0	0	0	0	0	109
Northern Hardwood	0	184	0	0	0	0	0	0	0	184
Oak	0	0	16	0	0	0	0	0	0	16
Red Pine	0	0	0	0	0	30	0	0	0	30
Total	247	184	16	0	0	30	0	0	0	478

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	478	0	0	0	0	0	0	0	0	478
Next Step	0	117	117	0	107	514	575	0	0	1430
Total	478	117	117	0	107	514	575	0	0	1908



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:

61	41034061-Cut	2.9	42250 - Pine, Oak	Sawtimber Well	87	51-80	Harvest	Seed Tree with Retention	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> Remove red pine and white pine from overstory and let stand convert to oak. Regeneration should be protected with a timbersale spec. Less than 3% retention is acceptable due to small stand size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak will likely be the dominant species however any are acceptable.</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

69	41034069-Cut	4.0	42210 - Natural Red Pine	Sawtimber Well	83	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees live and dead greater than 2 inches. All retention should be left on edges of stand as to not hinder aerial herbicide operations.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Slash; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release;</p> <p><u>Treatments:</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

3	41036003-Cut	16.7	4112 - Maple, Beech, Cherry Association	Poletimber Well	88	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection harvest. Complete marker standards. Low overall residual basal area is acceptable due to regeneration gaps and beech presence.</p> <p><u>Specs:</u> Beech and ash may be designated for harvest.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species</p> <p><u>Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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14	41037 Cut	15.8	6120 - Lowland Cedar	Sawtimber Well	103	111-140	Harvest	Clearcut with Retention	6120 - Lowland Cedar	Even-Aged	No
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Prescription Cut all trees except hemlock and oak. Leave about 5 cedar trees per acre for seed. This could be accomplished with a timbersale spec.
Specs:

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

Acceptable any species
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

1	41037001-Cut	65.3	4111 - S.Maple, Hard Mast Association	Sawtimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selection harvest. Complete marker standards. Low overall residual basal area is acceptable due to regeneration gaps and beech presence.
Specs: Beech and ash may be designated for harvest. Attempt to regenerate less common species such as black cherry where possible.

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

Acceptable any species
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

2	41037002-Cut	34.7	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	92	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
---	--------------	------	---------------------------------------	----------------	----	---------	---------	-------------------------	-------------------------	-----------	----

Prescription Cut all trees live and dead greater than 2 inches. All retention should be left on edges of stand as to not hinder aerial herbicide operations.
Specs:

Next Step Burn, Slash; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release;
Treatments: SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial

Acceptable red pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

3	41037003-Cut	12.9	42110 - Planted Red Pine	Sawtimber Well	55	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin to 120
Specs:

Next Step
Treatments:

Acceptable
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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4	41037004-Cut	7.6	4133 - Aspen, Mixed Pine	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
----------	---------------------	-----	--------------------------	-----------------	----	--------	---------	-------------------------	-------------------------	-----------	----

Prescription Cut all trees live and dead greater than 2 inches. All retention should be left on edges of stand as to not hinder aerial herbicide operations.
Specs:

Next Step Burn, Slash; Pesticide, Skidder - Site Prep; Pesticide, Aerial - Site Prep; Pesticide, Skidder - Release; ; SitePrep, Trenching;
Treatments: Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable red pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

22	41037022-Cut	11.8	42110 - Planted Red Pine	Poletimber Well	62	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	------	--------------------------	-----------------	----	---------	---------	----------------	-------------------------	-----------	----

Prescription Thin. Target residual basal area is between 100 and 120.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

25	41037025-Cut	59.9	4111 - S.Maple, Hard Mast Association	Sawtimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
-----------	---------------------	------	---------------------------------------	----------------	----	---------	---------	-----------------------	-------------------------	-------------	----

Prescription Designate all beech for harvest. Selection harvest, focus removing majority of the high quality log trees since future harvest will likely be 30
Specs: or more years into the future due to high abundance of beech. Residual basal area goal should be 80 where quality trees exist, however overall residual may be much lower. Treatment should retain some large beech trees.

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

Acceptable any species
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

26	41037026-Cut	34.7	4130 - Aspen	Poletimber Well	53	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
-----------	---------------------	------	--------------	-----------------	----	------	---------	-------------------------	-------------	-----------	----

Prescription Cut all trees down to 2 inches except hemlock and oak. Retention should be 1 patch located in the NE where it is heavier to white pine.
Specs:

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

Acceptable any species
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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33	41037033-Cut	35.9	4130 - Aspen	Poletimber Well	51	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
-----------	---------------------	------	--------------	-----------------	----	---------	---------	-------------------------	-------------	-----------	----

Prescription Cut all trees down to 2 inches except oak. Retention can be placed in patches surrounding the couple grass open areas in stand. No cut on hemlock.
Specs:

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

Acceptable any species
Regen:

Other John Bauman: The southeastern region of this compartment contains Kepler Lake. 100' plus 5' per 1% increase in slope; buffers are recommended for Kepler Lake to protect riparian areas in accordance with Best Management Practices.
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

36	41037036-Cut	64.2	42290 - Natural Mixed Pine	Sawtimber Medium	88	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	------	----------------------------	------------------	----	-------	---------	-------------------------	-------------------------	-----------	----

Prescription Cut all trees live and dead down to 2 inches. Less than 3% retention is acceptable and must be located on edge for plantation management.
Specs:

Next Step SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Aerial - Site Prep; Burn, Slash; Pesticide, Skidder - Release; Pesticide, Treatments: Aerial - Release; Planting, Initial Plant; ; ; Pesticide, Aerial - Release

Acceptable red pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

38	41037038-Cut	3.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	45	1-50	Harvest	Clearcut	310 - Herbaceous Openland		No
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Prescription Cut all trees down to 2 inches except oak. Oak will be only retention.
Specs:

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

Acceptable any species
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

47	41037047-Cut	1.1	4130 - Aspen	Sawtimber Well	62	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Cut all trees. No retention due small stand size and windthrow potential along road. 2 inch spec on all trees.
Specs:

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

Acceptable any species
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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50	41037050-Cut	2.4	42110 - Planted Red Pine	Poletimber Well	33	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription 3rd row thin

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Stand was planted by Mead Paper. Recent harvesting activity by Weyerhaeuser excluded this stand. Will need survey work.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

54	41037054-Cut	11.0	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	70	81-110	Harvest	Clearcut	6125 - Lowland Black Spruce, Jack Pine	Even-Aged	No
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Prescription Cut all trees except hemlock and oak. Less than 3% retention is acceptable due to small stand size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any species

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

56	41037056-Cut	10.5	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	51	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Cut all trees live and dead down to 2 inches. No retention due to small stand size and plantation management.

Specs:

Next Step Pesticide, Aerial - Site Prep; Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial

Treatments: Regen(1yr); Monitoring, Artificial Regen(3yr); Monitoring, Herbicide Use; Pesticide, Aerial - Release

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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59	41037059-Cut	13.6	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	90	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
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Prescription Cut all species except hemlock, oak, and cedar. Retention can be placed on the edges.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any species

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

60	41037060-Cut	16.3	4123 - Red Oak	Sawtimber Well	91	81-110	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4123 - Red Oak	Two-Aged	No
-----------	---------------------	------	----------------	----------------	----	--------	---------	-----------------------------------	----------------	----------	----

Prescription Create large canopy gaps to promote oak regeneration and recruitment in overstory. Cut all trees within gaps down to 2 inches. Gaps should be placed in locations best suited for oak regeneration and / or recruitment. Avoid harvesting aspen unless needed for operations. A steep hill is located in the west and this area may need to have strips created instead of gaps.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any species

Regen:

Other

Include stand to north in C34.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

61	41037061-Cut	8.3	4133 - Aspen, Mixed Pine	Sawtimber Well	50	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Cut all trees except hemlock and oak. Less than 3% retention is acceptable due to small stand size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any species

Regen:

Other

High volume of mostly aspen. Steep ridge however an old road is located at bottom of ridge. Operations will be difficult and this could possibly get added to sale as optional unit.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
65	41037065-Cut	3.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	45	1-50	Harvest	Clearcut	310 - Herbaceous Openland		No
<p><u>Prescription</u> Cut all trees down to 2 inches except oak. Oak will be only retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
68	41037068-Cut	3.3	42110 - Planted Red Pine	Sawtimber Well	55	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to 120.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
69	41037069-Cut	37.4	4111 - S.Maple, Hard Mast Association	Poetimber Well	78	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Selection harvest. Complete marker standards. Low overall residual basal area is acceptable due to regeneration gaps and beech presence.</p> <p><u>Specs:</u> Beech and ash may be designated for harvest. No cut on hemlock.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
75	41037075-Cut	7.9	4110 - Sugar Maple Association	Sawtimber Well	88	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selection harvest. Complete Marker standards. Beech and ash may be designated for harvest. Attempt to regenerate less common species such as black cherry where possible.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
78 41037078-Cut	13.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Designate all beech for harvest. Selection harvest, focus removing majority of the high quality log trees since future harvest will likely be 30 or more years into the future due to high abundance of beech. Residual basal area goal should be 80 where quality trees exist, however overall residual may be much lower. Treatment should retain some large beech trees.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
88 41037088-Cut	2.4	4130 - Aspen	Poletimber Poor	28	1-50	Harvest	Clearcut	310 - Herbaceous Openland		No
<p><u>Prescription</u> Cut all trees down to 2 inches except oak.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any species</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment Acreage Proposed: 501.7

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 37
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions						
		With Condition				5C	MC	2F	3E	3L	5E	
727	721	0		6	Aspen		0					6
60	33	0		26	Cedar						26	
5	5	0		0	Herbaceous Openland							
38	38	0		0	Jack Pine							
125	125	0		0	Lowland Conifers							
12	12	0		0	Lowland Mixed Forest							
181	181	0		0	Lowland Shrub							
9	9	0		0	Lowland Spruce/Fir							
15	15	0		0	Mixed Upland Deciduous		0					
137	135	0		2	Natural Mixed Pines		0					2
334	329	5		0	Northern Hardwood		5					
18	18	0		0	Oak							
52	39	2		10	Red Pine		2	6				4
71	0	71		0	Tamarack	71						
14	0	0		14	Upland Mixed Forest				14			
18	18	0		0	Urban							
5	5	0		0	Water							
117	117	0		0	White Pine							
1,936	1,799	79		58	Total Forested Acres	71	8	6	14	26		12
	93%	4%		3%	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	3L: Other wildlife concerns	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: purchased land							
2	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 13 and adjacent stands 5 and 63							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 37
Year of Entry: 2021

3	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Area will serve as long term retention for adjacent stands 12 and 6							
4	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: State Police Radio Lease							
8	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	Minor Change in Acreage	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	71	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	Minor Change in Acreage	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 37
Year of Entry: 2021

12	Available	Minor Change in Acreage	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	Minor Change in Acreage	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	Minor Change in Acreage	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	Minor Change in Acreage	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 37
Year of Entry: 2021

20	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius : Examiner

Compartment: 37
Year of Entry: 2021

28	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Available	Minor Change in Acreage	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	Minor Change in Acreage	0				
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	4111 - S.Maple, Hard Mast Association	Sawtimber Well	70.9	95	111-140	N/A	Stand cut in 1994 Parking Lot North Sale then cut again in Summer 2002 Parking Lot North Part 2																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>20</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Beech</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>60</td> <td>Log/Pole</td> <td>12</td> <td>95</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Log/Pole	12		Yellow Birch	5	Log/Pole	10		Beech	10	Log/Pole	12		Black Cherry	5	Log/Pole	10		Sugar Maple	60	Log/Pole	12	95	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Full</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	Medium	5 - 10 feet	Sapling	Sugar Maple	Full	10 - 20 feet	Sapling			
Canopy Species	% Cover	Size Class	DBH	Age																																												
Red Maple	20	Log/Pole	12																																													
Yellow Birch	5	Log/Pole	10																																													
Beech	10	Log/Pole	12																																													
Black Cherry	5	Log/Pole	10																																													
Sugar Maple	60	Log/Pole	12	95																																												
Sub-Canopy Species	Density	Avg. Height	Size																																													
Beech	Medium	5 - 10 feet	Sapling																																													
Sugar Maple	Full	10 - 20 feet	Sapling																																													
2	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	36.7	92	111-140	N/A																																										
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3	42110 - Planted Red Pine	Sawtimber Well	15.8	55	111-140	N/A	2008 comments : Stand was cut in the spring of 2002 Tower Aspen Red Pine Unit 3A Thick hardwood understory, grow pine till maturity then convert to hardwood.																																									
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4	4133 - Aspen, Mixed Pine	Poletimber Well	6.0	45	81-110	N/A	2 aged stand caused from leaving white pine within stand when it was clearcut in 1978, both should mature at same time.																																									
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5	4130 - Aspen	Sapling Well	56.4	21	1-50	N/A	Stand was cut in the spring of 2002, Tower Aspen Red Pine Units 1 & 2.																																									
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8	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	35.2	85	81-110	N/A	Stand is more even aged red maple to the west and un-evenaged to the east. 4/5/11 bb Stand is now on proposal 41-011-11-01 Ashford Mix, Unit 4. Actual acres = 36. Residual Basal Area = Sugar maple 29 sq ft, red maple 23 sq ft, beech 2 sq ft, aspen 1 sq ft, fir 1 sq ft, white pine 5 sq ft, red pine 1 sq ft, black cherry 3 sq ft, yellow birch 1 sq ft (total 67 sq ft)																																																		
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9	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	12.0	65	51-80	N/A	Stand was separated from original stand since southern end has alot of black ash and is much wetter. Keeping factors off for now. A harvest could be attempted in future, however there would be some major rutting issues. Possibly harvest with stand 71, 82, and 99 in future.																																																		
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11	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	6.5	45	51-80	N/A	Stand is an old G type that has filled in to cherry, maple and white pine. Let the stand convert since it is right on M-94. Management of this stand should at same time period as adjacent hardwood stand due to needed MDOT permit for access.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13	310 - Herbaceous Openland	Nonstocked	3.8		Unspecified	No	Stand is an old borrow pit for M-94 construction, some aspen encroachment starting to occur.
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14	6120 - Lowland Cedar	Sawtimber Well	26.0	103	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	90	Log/Pole	10	103	Balsam Fir	Low	< 5 feet	Sapling
Paper Birch	5	Pole/Log	8					
Balsam Fir	5	Pole	7					

15	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	59.4	81	51-80	N/A	Factors are being left off for now. Stand is wet and may be too wet to harvest in future.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	25	Pole	7		Black Spruce	Medium	5 - 10 feet	Sapling
Tamarack	15	Pole	7		Tag Alder	High	5 - 10 feet	Tall Shrub
Paper Birch	10	Pole	6					
White Pine	5	Log/Pole	14					
Northern White Cedar	30	Pole	8	81				
Red Maple	15	Pole	7					

16	6125 - Lowland Black Spruce, Jack Pine	Sapling Well	20.8	28	1-50	N/A	Part of JA Sale
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	30	Sapling	3	28	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	40	Sapling	3	28	Black Spruce	Medium	< 5 feet	Sapling
White Pine	10	Sapling	3					
Jack Pine	20	Sapling	3					

17	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	17.6	80	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	40	Log/Pole	14	80	White Pine	Medium	5 - 10 feet	Sapling
Jack Pine	20	Pole/Sapling	5		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	10	Pole/Sapling	5					
Quaking Aspen	20	Pole/Sapling	5	28				
Paper Birch	10	Pole/Sapling	5					

18	4132 - Aspen, Jack Pine	Sapling Medium	39.3	28	1-50	N/A	Swimming Rabbit Sale, stand is a ridge or series of ridge cut in 1995 to maintain sharptail opening. Regen is a mix of species including jack pine, aspen, red pine and oak. Sparse regen on top of ridges in places. Stand should be managed with compartment to west.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	30	Sapling/Pole	4		Red Maple	Medium	5 - 10 feet	Sapling
Quaking Aspen	70	Sapling/Pole	4	28	Tag Alder	Medium	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
19	6124 - Lowland Spruce-Fir	Sapling Well	21.2	19	1-50	N/A	Stand was cut late winter 2004 (Fletcher's Swamp Sale 15-01)																																										
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20	622 - Lowland Shrub	Nonstocked	181.0		Unspecified	No																																											
21	42210 - Natural Red Pine	Sawtimber Well	3.3	89	51-80	N/A	should be managed with adjacent compartment																																										
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22	42110 - Planted Red Pine	Poletimber Well	11.9	62	111-140	N/A	Stand was thinned in 2002 and 2012.																																										
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23	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	4.5	75	81-110	N/A	Stand should be managed when adjacent stand 24 is harvested due to MDOT permit for access.																																										
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24	4110 - Sugar Maple Association	Sawtimber Medium	49.1	95	81-110	N/A	Unit 1 Ski Trail Parking Lot Sale, cut around 1997.4/5/11 bb Stand is now on proposal 41-011-11-01 Ashford Mix, Unit 6. Actual acres = 48. Residual Basal Area = Sugar maple 60 sq ft, beech 2 sq ft, white pine 1 sq ft, black cherry 2 sq ft, yellow birch 2 sq ft, ironwood 1 sq ft (total 68 sq ft)[8/20/14 TI] Sale is closed. TCR Date 5/24/13																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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25	4111 - S.Maple, Hard Mast Association	Sawtimber Well	59.5	95	111-140	N/A	Unit 2 of Ski Trail Parking Lot Sale, cut 1997 and 2004. This stand was TSI'd in 1976			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Log/Pole	12		Sugar Maple		Medium	5 - 10 feet	Sapling
Sugar Maple		60	Log/Pole	12	95	Hemlock		Low	>20 feet	Pole
Beech		20	Log/Pole	14		Beech		High	5 - 10 feet	Sapling
Black Cherry		5	Log/Pole	12						
Yellow Birch		5	Log/Pole	12						

26	4130 - Aspen	Poletimber Well	37.5	53	1-50	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		5	Pole	6		Balsam Fir		Low	5 - 10 feet	Sapling
Bigtooth Aspen		80	Pole	8	53	Sugar Maple		Medium	5 - 10 feet	Sapling
White Pine		5	Log/Pole	12		Beech		Medium	5 - 10 feet	Sapling
Paper Birch		10	Pole	8						

27	4130 - Aspen	Sapling Well	21.2	29	1-50	N/A	Little Bit Sale, cut 1994			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		10	Sapling/Pole	4		Beech		Medium	5 - 10 feet	Sapling
Bigtooth Aspen		80	Sapling/Pole	4	29					
White Pine		10	Pole/Sap/Log	8						

28	4130 - Aspen	Poletimber Well	7.5	39	51-80	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		95	Pole/Sapling	6	39	White Pine		Low	5 - 10 feet	Sapling
White Pine		5	Log/Pole	14						

29	42200 - Natural White Pine	Sawtimber Poor	16.8	80	1-50	N/A	Stand was cut as part of LotsaDucks Sale # 41-028-11-01. TCR date 9/2/2014.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		80	Log/Pole	12	80	Bigtooth Aspen		Full	10 - 20 feet	Sapling
Red Pine		20	Log/Pole	12		White Pine		Medium	5 - 10 feet	Sapling

30	4112 - Maple, Beech, Cherry Association	Poletimber Well	28.0	93	51-80	N/A	2008 comments: Stand is predominantly hardwood with some mature aspen within it. Regen is M3 cut stand and remove aspen to create holes for some aspen clones to regenerate as well as release the regen that occurs. There are some failed red pine plantations patches within stand, hold for their conifer component.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		65	Pole/Log	9	93	Quaking Aspen		Medium	10 - 20 feet	Sapling
Red Pine		15	Pole/Log	9		Beech		Medium	5 - 10 feet	Sapling
Black Cherry		10	Pole/Log	9		Balsam Fir		Medium	5 - 10 feet	Sapling
Quaking Aspen		5	Pole/Log	9		Red Maple		Medium	5 - 10 feet	Sapling
Beech		5	Log/Pole	14						

4/5/11 bb Stand is now on proposal 41-011-11-01 Ashford Mix, Unit 5. Actual acres = 29. Residual Basal Area = red maple 25 sq ft, beech 3 sq ft, aspen 4 sq ft, white pine 1 sq ft, red pine 10 sq ft, black cherry 6 sq ft, white birch .5 sq ft, hemlock .5 sq ft (total 50 sq ft)

[8/20/14 TI] Sale is closed. TCR Date 5/24/13



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
31	4130 - Aspen	Poletimber Well	49.6	45	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		5	Log/XLog	16		White Pine	
Bigtooth Aspen		80	Pole/Sapling	6	45	Red Oak	
White Pine		10	Log/Pole	10		Medium	
Paper Birch		5	Pole/Sapling	6		5 - 10 feet	
						Sapling	
32	42200 - Natural White Pine	Sawtimber Medium	44.8	72	1-50	N/A	Aldrich Lake Sale 20-01 now closed FTP still open, cut late fall 04. (9/20/05AP)(9/8/05AP) FTP W41-1037has been completed Aspen TSI. Aspen has regenerated nicely to make a 2 aged stand in which they will mature at the same time. The south end is heavy to red pine and will likely be split out next entry.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		100	Log/Pole	10	72	Red Oak	
						Low	
						5 - 10 feet	
						Sapling	
						White Pine	
						Medium	
						5 - 10 feet	
						Sapling	
						Bigtooth Aspen	
						Full	
						>20 feet	
						Sapling	
33	4130 - Aspen	Poletimber Well	38.4	51	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		5	Pole	8		White Pine	
White Pine		5	Log/Pole/XLog	9		Red Maple	
Bigtooth Aspen		90	Pole/Log	9	51	Medium	
						10 - 20 feet	
						Sapling	
34	4133 - Aspen, Mixed Pine	Sapling Well	12.3	11	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		5	Log/Pole	14			
White Pine		15	Log/Pole/Sap	14			
Quaking Aspen		80	Sapling	1	11		
35	4130 - Aspen	Sapling Well	19.1	18	1-50	N/A	[1-5-05 BB] Aldrich Lake Sale 20-01 now closed FTP still open, cut late fall 04. Stand regenerating nicely TSI'd in 2005 FTP closed.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		10	Log/Pole/Sap	14		White Pine	
Bigtooth Aspen		85	Sapling	3	18	Medium	
Red Pine		5	Log/Pole	12		5 - 10 feet	
						Sapling	
36	42290 - Natural Mixed Pine	Sawtimber Medium	64.3	88	51-80	N/A	2008 comments: Cut as part of LotsaDucks Sale #41-028-11-01. TCR Date 9/2/2014. Cut type was actually a thinning. It is coded as a group selection due to a data migration error between OI and MIF1.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		50	Log/Pole	12	88	Red Maple	
Quaking Aspen		5	Log/Pole	10		Bigtooth Aspen	
Paper Birch		5	Log/Pole	10		Medium	
Red Pine		35	Log/Pole	14	88	5 - 10 feet	
Red Oak		5	Log/Pole	14		Low	
						5 - 10 feet	
						Sapling	
						White Pine	
						Medium	
						5 - 10 feet	
						Sapling	
37	500 - Water	Nonstocked	4.7		Unspecified	No	Kepler Lake



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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38 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 4.3 45 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	30	Log/Pole	14		Red Oak	Medium	5 - 10 feet	Sapling
Paper Birch	15	Pole/Sapling	5		White Pine	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	15	Pole	6	33				
White Pine	40	Log/Pole	14	45				

39 4133 - Aspen, Mixed Pine Poletimber Well 24.1 41 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	25	Pole/Log	9		White Pine	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	75	Pole	7	41	Red Maple	Medium	5 - 10 feet	Sapling

40 4139 - Aspen, Mixed Deciduous Poletimber Well 17.7 45 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	15	Pole/Sapling	5		Red Oak	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	55	Pole/Sapling	5	45	White Pine	Medium	5 - 10 feet	Sapling
Red Oak	15	Pole/Sapling	5					
Paper Birch	15	Pole/Sapling	5					

41 122 - Road/Parking Lot Nonstocked 9.2 Unspecified No OPIC - FMD: M-94 R-O-W

42 42200 - Natural White Pine Sawtimber Well 32.2 83 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	100	Log/Pole	14	83	Bigtooth Aspen	Full	>20 feet	Sapling
					Red Maple	Medium	5 - 10 feet	Sapling
					Paper Birch	Medium	10 - 20 feet	Sapling
					White Pine	Medium	10 - 20 feet	Sapling

OPIC - FMD: [1-5-05 BB] Unit 3 Aldrich Lake Complex Sale 20-01 now closed, cut fall 03. Aspen really sprouted well however, there is a lot of white pine regen as well.

43 42210 - Natural Red Pine Sawtimber Well 5.8 95 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Log/Pole	12		White Pine	Medium	5 - 10 feet	Sapling
Red Pine	70	Log/Pole	16	95				
White Pine	20	Log/Pole	16					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
44	42120 - Planted Jack Pine	Sapling Poor	7.0	12	1-50	N/A	Sale # 41-023-03-01 North Forty Sale [6/23/05 BB] Sale is now closed, will need regen counts in 2009. (9/18/07 AP) Stand scarified 7/7/07 by Holli Forest Products. On regen timeclock for 2009. (3/7/08 AP) Stand seeded with snowmobile. (4/24/09 AP) Failed regen check in 2009. Cultural work was recently completed and stand needs a few years to become established. Regen count scheduled in 2011. (5/27/11 AP) Stand failed regen check in 2011 (9 out of 10 plots were non stocked). It was planted with jack pine in spring 2011. Regen count in 2012 scheduled (5/15/2012 AP) 2012 regen check results - 412 jack pine. Stand failed and is added to planting list. (10/26/2015 AP) Acceptable species of white pine, red pine, and jack pine combined enable this stand to pass regeneration counts. FTP is closed.																											
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White Pine	10	Sapling	1	18																														
46	42200 - Natural White Pine	Sawtimber Poor	14.2	79	1-50	N/A																												
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47	4130 - Aspen	Sawtimber Well	1.3	62	111-140	N/A																												
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48	122 - Road/Parking Lot	Nonstocked	8.3		Unspecified	No																												
49	42110 - Planted Red Pine	Sawtimber Well	1.5	55	141-170	N/A	2008 comments : Stand is small well stocked plantation with heavy M3 understorey thin stand. Stand will likely convert to hardwood at the end of its rotation. 4/5/11 bb Stand is now on proposal 41-011-11-01 Ashford Mix, Unit 4. Actual acres = 2. Residual Basal Area = red pine 140 sq ft, black cherry 5 sq ft (total 145 sq ft) [8/20/14 TI] Sale is closed. TCR Date 5/24/13																											
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50	42110 - Planted Red Pine	Poletimber Well	2.7	33	111-140	N/A	Stand was planted by Mead Paper. Recent harvesting and property line establishment by Weyerhaeuser shows this stand to be on state land. It was left unharvested when Weyerhaeuser cut their adjacent property.																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
52	6121 - Tamarack	Poletimber Medium	70.8	67	51-80	N/A	Possibly look into harvest next entry. May be too wet for operations.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		85	Pole	6	67	Red Maple	Medium	5 - 10 feet	Sapling
Black Spruce		10	Pole	6		Black Spruce	Medium	5 - 10 feet	Sapling
White Pine		5	Log/Pole	12		Tag Alder	Medium	5 - 10 feet	Tall Shrub
53	42110 - Planted Red Pine	Poletimber Well	1.4	55	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/Pole	10	55	Sugar Maple	High	10 - 20 feet	Sapling
						Beech	Medium	10 - 20 feet	Sapling
54	6125 - Lowland Black Spruce, Jack Pine	Poletimber Medium	9.9	70	81-110	N/A	Stand was partially cut through in 1995, JA sale, stand could not be completed because contractor was unable to freeze the peat soils.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		35	Pole	9	70	Black Spruce	Medium	5 - 10 feet	Sapling
Black Spruce		25	Pole/Log	9		Tamarack	Medium	5 - 10 feet	Sapling
Tamarack		25	Pole/Log	9		Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine		10	Log/Pole	12					
Red Pine		5	Log/Pole	12					
55	6126 - Lowland Jack Pine	Poletimber Well	4.7	57	51-80	N/A	Stand should be managed with compartment to the north, stand 28		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		5	Pole/Sapling	6		Black Spruce	Medium	5 - 10 feet	Sapling
Jack Pine		90	Pole/Sapling	7	57				
Tamarack		5	Pole/Sapling	5					
56	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	9.9	51	51-80	N/A	Stand was separated from 94 in west due to poor site conditions for aspen.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		40	Pole	7	51	Red Pine	Low	5 - 10 feet	Sapling
White Pine		30	Log/Pole	10		White Pine	Medium	5 - 10 feet	Sapling
Jack Pine		10	Pole	6					
Red Pine		20	Log/Pole/XLog	10					
57	6126 - Lowland Jack Pine	Sapling Poor	26.6	11	1-50	N/A	OPIC - FMD: Stand set up and sold last entry but never cut because of peat soil. Stand was set up and is on being sold again with adjacent stands to the north, Fletchers Hill Jack pine 09-09-01 [9/24/2014] Stand was cut as part of Fletcher Hill Jack Pine. Sale was closed on 8/23/2012. Cutting was completed in Feb/Mar 2012.		
Canopy Species		% Cover	Size Class	DBH	Age				
Black Spruce		10	Sapling	1					
Tamarack		15	Sapling	1					
Jack Pine		60	Sapling	1	11				
Red Pine		15	Log/Pole/Sap	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
58	4133 - Aspen, Mixed Pine	Sapling Well	18.9	28	1-50	N/A																																																		
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59	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	13.5	90	81-110	N/A																																																		
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60	4123 - Red Oak	Sawtimber Well	17.8	91	81-110	N/A	2008 comments: Stand was species thinned in 1994 JA Sale, Some aspen clone areas, Lots of oak regen but heavily browsed when it gets 3' high or so.																																																	
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61	4133 - Aspen, Mixed Pine	Sawtimber Well	8.1	50	111-140	N/A	western edge is older and located on a hill.																																																	
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63	4133 - Aspen, Mixed Pine	Poletimber Well	17.9	40	51-80	N/A	: Unit 1 Ashford Lake Sale cut 1983. Much of the stand was likely pockets of G prior to sale being cut mostly on west side.																																													
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64	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	4.2	69	111-140	N/A	Reserved as retention for C-34 stand 13																																													
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65	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	4.1	45	1-50	N/A																																														
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69	4111 - S.Maple, Hard Mast Association	Poletimber Well	36.4	78	111-140	N/A	10 basal area plots in stand showed 115 ft.																																													
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70	42200 - Natural White Pine	Sawtimber Well	4.9	80	51-80	N/A	4/5/11 bb Stand is now on proposal 41-011-11-01 Ashford Mix, Unit 3. Actual acres = 4. Residual Basal Area = white pine 75 sq ft, red pine 3 sq ft (total 78 sq ft) [8/20/14 TI] Sale is closed. TCR Date 5/24/13 Future management should be in conjunction with stand 6																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
71	6122 - Black Spruce	Poletimber Medium	8.9	80	51-80	N/A	Stand is wet and sparse. Factors are being kept off for now since it could possibly be harvested with 9, 99, and 82 in future. Major rutting may occur since there are not many tops to operate on. Eastern edge has 2 acres on higher ground that could be harvested for sure in future with adjacent stands.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Tamarack		20	Pole	8		Tamarack		Medium	5 - 10 feet	Sapling	
Black Spruce		80	Pole	8	80	Tag Alder		Medium	5 - 10 feet	Tall Shrub	
						Black Spruce		Medium	5 - 10 feet	Sapling	
72	4319 - Mixed Upland Forest	Sawtimber Well	13.7	65	111-140	N/A	State police Radio Antenna Lease				
73	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	22.2	65	81-110	N/A	Mixed stand. Push towards hardwood management in future and possibly mark next entry. Thick understory present.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		20	Pole	8		Balsam Fir		High	10 - 20 feet	Sapling	
Balsam Fir		15	Pole	7		Beech		Medium	5 - 10 feet	Sapling	
Sugar Maple		15	Pole/Log	9		Red Maple		Medium	10 - 20 feet	Sapling	
Black Cherry		5	Pole	9		Sugar Maple		Medium	10 - 20 feet	Sapling	
Beech		5	Pole/Log	9							
Red Maple		40	Pole/Log	9	65						
74	4130 - Aspen	Poletimber Well	3.6	40	51-80	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		90	Pole	7	40	Balsam Fir		High	10 - 20 feet	Sapling	
Red Maple		10	Pole	7							
75	4110 - Sugar Maple Association	Sawtimber Well	10.1	88	111-140	N/A	Parking Lot North Sale, cut 1994.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Log/Pole	12		Balsam Fir		Medium	5 - 10 feet	Sapling	
Red Pine		5	Log/Pole	10		Sugar Maple		Medium	5 - 10 feet	Sapling	
Black Cherry		5	Pole	9		Beech		Medium	5 - 10 feet	Sapling	
Sugar Maple		80	Log/Pole	12	88						
77	4130 - Aspen	Poletimber Well	32.4	45	81-110	N/A					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Balsam Fir		5	Pole	8		Sugar Maple		High	>20 feet	Sapling	
Paper Birch		10	Pole	7		Balsam Fir		Medium	5 - 10 feet	Sapling	
Sugar Maple		10	Pole	7							
Bigtooth Aspen		75	Pole	8	45						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
78	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.5	95	111-140	N/A																																									
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79	4130 - Aspen	Sapling Well	12.4	21	1-50	N/A	Aldrich Lake Sale 20-01 now closed FTP still open but TSI not needed for this stand, cut early summer 2002.																																								
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80	4130 - Aspen	Sapling Poor	11.6	10	1-50	N/A	Compartment Review Decision was to put cultural codes back on to TSI stand, actual work would be funded by WLD. 4/5/11 bb Stand is now on proposal 41-011-11-01 Ashford Mix, Unit 1. Actual acres = 12. Residual Basal Area = white pine 5 sq ft, red pine 3 sq ft, white birch 1 sq ft (total 9 sq ft) WLD wants to use 2" spec rather than relying on an internal crew to do TSI because funding for the crew is temporary. [8/20/14 TI] Sale is closed. TCR Date 5/24/13																																								
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81	4130 - Aspen	Poletimber Medium	22.3	40	51-80	N/A	Unit 2 Ashford Lake Sale, cut 1983 nice aspen. There is an opening G type in center of stand.																																								
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83	42110 - Planted Red Pine	Sawtimber Well	1.6	55	51-80	N/A	2008 comments: Stand was planted with inmates in spring of 2004. No additional monitoring required. Poor red pine plantation allow to grow to maturity and let convert to hardwood.																																								
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86	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.0	40	1-50	N/A	Unit 3 Ashford Lake Sale, cut 1983.																																										
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88	4130 - Aspen	Poletimber Poor	2.3	28	1-50	N/A	Stand is an old G type that is filling in to aspen and brush.																																										
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93	4133 - Aspen, Mixed Pine	Poletimber Well	22.5	51	51-80	N/A	Mixed aspen white pine stand, good regen some small G type inclusions in center. Small red pine island within stand.																																
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94	4133 - Aspen, Mixed Pine	Poletimber Well	40.7	51	51-80	N/A	2008 comments: Large stand that will likely be broken up later. Good mix of white pine and aspen on east side transitioning to poorer aspen on west side. 2018 comments: Possible site to convert to red pine next entry.																																
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96	413 - Aspen	Poletimber Well	4.1	65	111-140	N/A	Stand was saved as retention for stand 12 and will also serve as future retention for stand 6.																																
97	6120 - Lowland Cedar	Sawtimber Well	26.4	103	111-140	N/A	purchased land by WLD																																
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496	122 - Road/Parking Lot	Nonstocked	0.3		Unspecified	No																																	