



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63019

Entry Year 2025

Acreage: 1,979

County Lake

Management Area: Lake County Outwash

Stand Examiner: James Park

Legal Description:

T18N, R13W, Sections 1, 2, 11, and 12

Identified Planning Goals:

Vegetation management in the Lake County Outwash management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on harvesting older jack pine and balancing the age-class distribution of aspen. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation; maintaining soft and hard mast sources including oak; and preserving related recreational opportunity.

Expected trends within this 10-year planning period are the need to minimize jack pine budworm damage by reducing the amount of more susceptible older jack pine; the need to regenerate oak and red pine; the need to target some accessible aspen in older age-classes for harvest; and increased recreational pressure.

Soil and topography:

Rubicon, Montcalm, Graycalm, Grayling, and Croswell.

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

Private parcels in the northwest, west, and southeast parts of the compartment. Dispose the small private parcel in the SWNW of section 11.

Unique Natural Features:

Hill's thistle to the west/northwest, south/southwest, and southeast. Karner blue butterfly to the northwest, common loon to the north/northwest, eastern massasauga to the north/northeast, east, and southeast, eastern box turtle to the east/southeast and southwest, spotted turtle to the south, bald eagle to the south, and the great plains spittlebug to the west/southwest. Potential for hill's thistle, rough fescue, alleghany plum, pale agoseris, northern goshawk, red-shouldered hawk, dusted skipper, grizzled skipper and red-legged spittlebug.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

There are no Fisheries concerns within this Compartment.

Wildlife Habitat Considerations:

State Game Fund purchased lands makes up the NE 640 acres of this compartment.

This compartment is in the Newaygo Outwash Plain Ecosystem, LTA 2211 in the north half of the compartment and LTA 5111 in the south half of the compartment. Several soil associations occur in LTA 2211. Soils in LTA 5111 are associations of Rubicon-Grayling, Grayling-Graycalm, or Plainfield sands, all of which are excessively drained, deep sands. Historically, red pine/white pine, jack pine, or red pine/jack pine dominated the area. These forests were likely influenced by fire which spread from adjacent outwash plains. Wildlife objectives are to maintain the diversity of cover types and age classes, encourage coniferous cover types, and promote barrens where possible. Featured species of special interest are marten, pileated woodpecker, red-headed woodpecker, deer and turkey.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and an end moraine of coarse-textured till. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift are the Mississippian

Michigan Formation and Bayport Limestone. The Michigan is quarried for gypsum and the Bayport for limestone in other areas of the State. Gravel pits are located in the Compartment and potential is considered good especially the upland areas. The nearest production is at Peacock Field three located miles to the northwest. Peacock Field has produced over 1.6 million BO from the Devonian Traverse Limestone. The compartment is not leased for oil and gas.

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for closure. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

Survey Needs:

Corners needed for Section 11, SWNE and Section 12, SWNW.

Recreational Facilities and Opportunities:

Motorized recreational facilities within this compartment include: a dual use portion of snowmobile trail #344E & 344W, which is also known as the Little Manistee route during non-winter use and the Little Manistee ORV Motorcycle Trail-which is under Directors Order for motorcycle use only, and therefore should be kept narrow. A recently upgraded ORV parking lot is located on 16th St.

"Leave trees" or unmerchantable vegetation should be left adjacent to the Little Manistee motorcycle trail where practical to deter illegal use by larger ORV's such as quads. Those trees harvested directly adjacent to the motorcycle trail should be cut flush to reduce hazard stumps that are often hidden by ferns. Proposed timber management activities along all trails should include trail protection specifications to reduce impacts, as well as serve as an example of how sound timber harvesting methods can co-exist, and often improve recreation and wildlife experiences for future generations.

Fire Protection:

County roads and M-37 state Highway provide good access to the compartment. Recreational use in the compartment would be a concern of an ignition of a wildfire. Several private holdings could be a protection issue. This compartment is close to the Baldwin Field Office which will make for a rapid fire suppression response. (B. Tower 2023).

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**

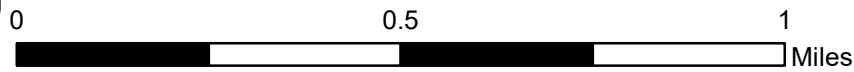
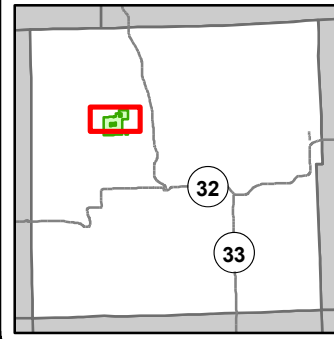
The following information is displayed, where pertinent, on the attached compartment maps:

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

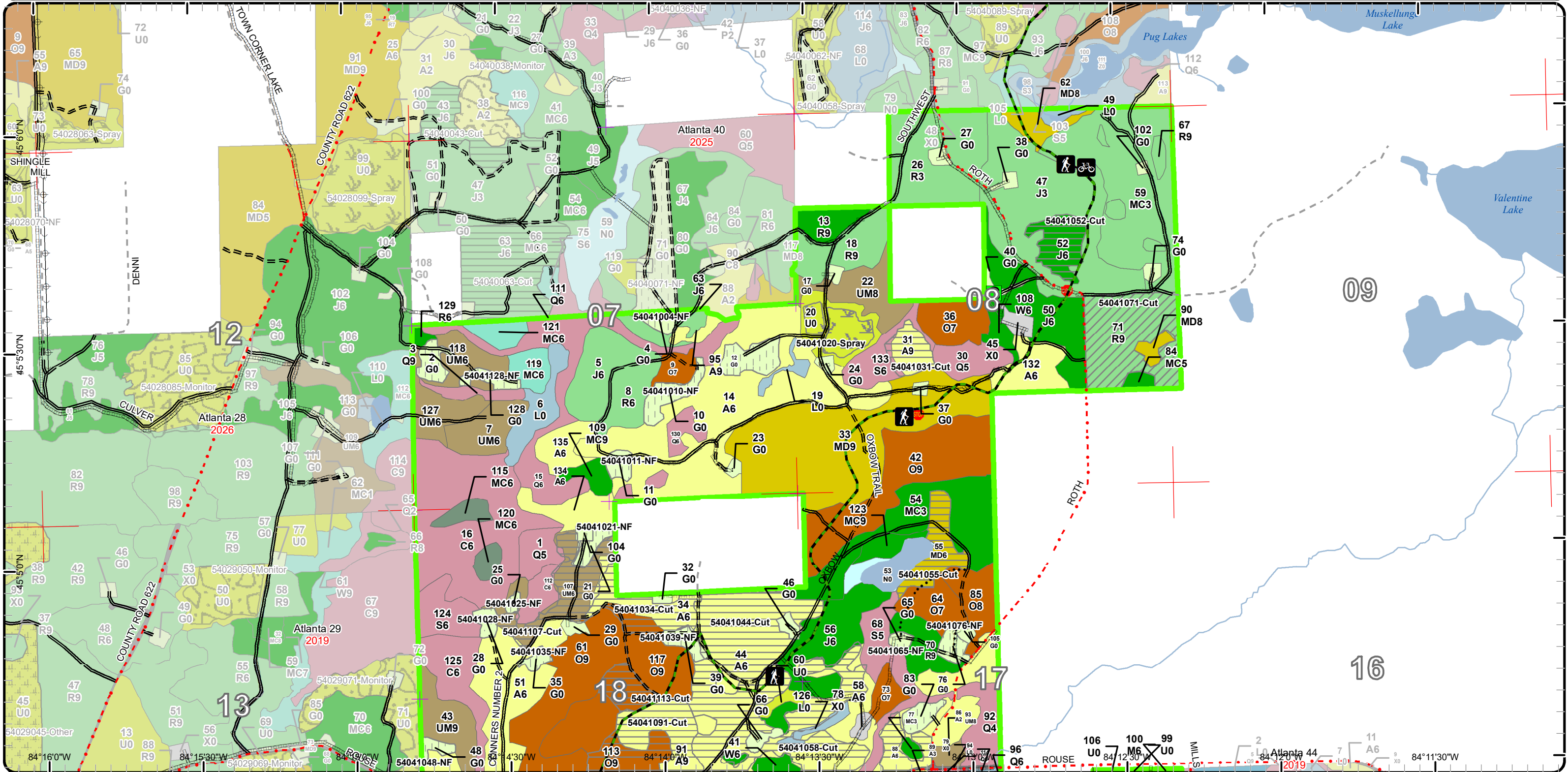
Cover Type & Treatments Map

Compartment: 41
 T31N, R02E, Sec. 7, 8, 17, 18
 County: Montmorency
 Unit: Atlanta
 Mgmt Area: Presque Isle Lake and Till Plains
 YOE: 2024

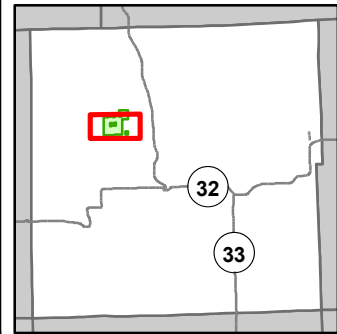
Acres: 1748.4 GIS Calculated
 Examiner: Darrick Coy
 Map Revised: 10/19/2023
 Map Phase: Post-Maps



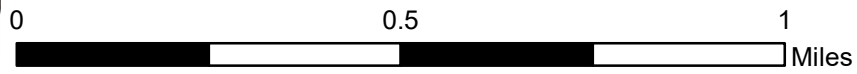
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
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- Pipeline
- Powerline
- Compartment Boundary
- Pesticide
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed 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
- 622 - Lowland Shrub
- 623 - Emergent Wetland



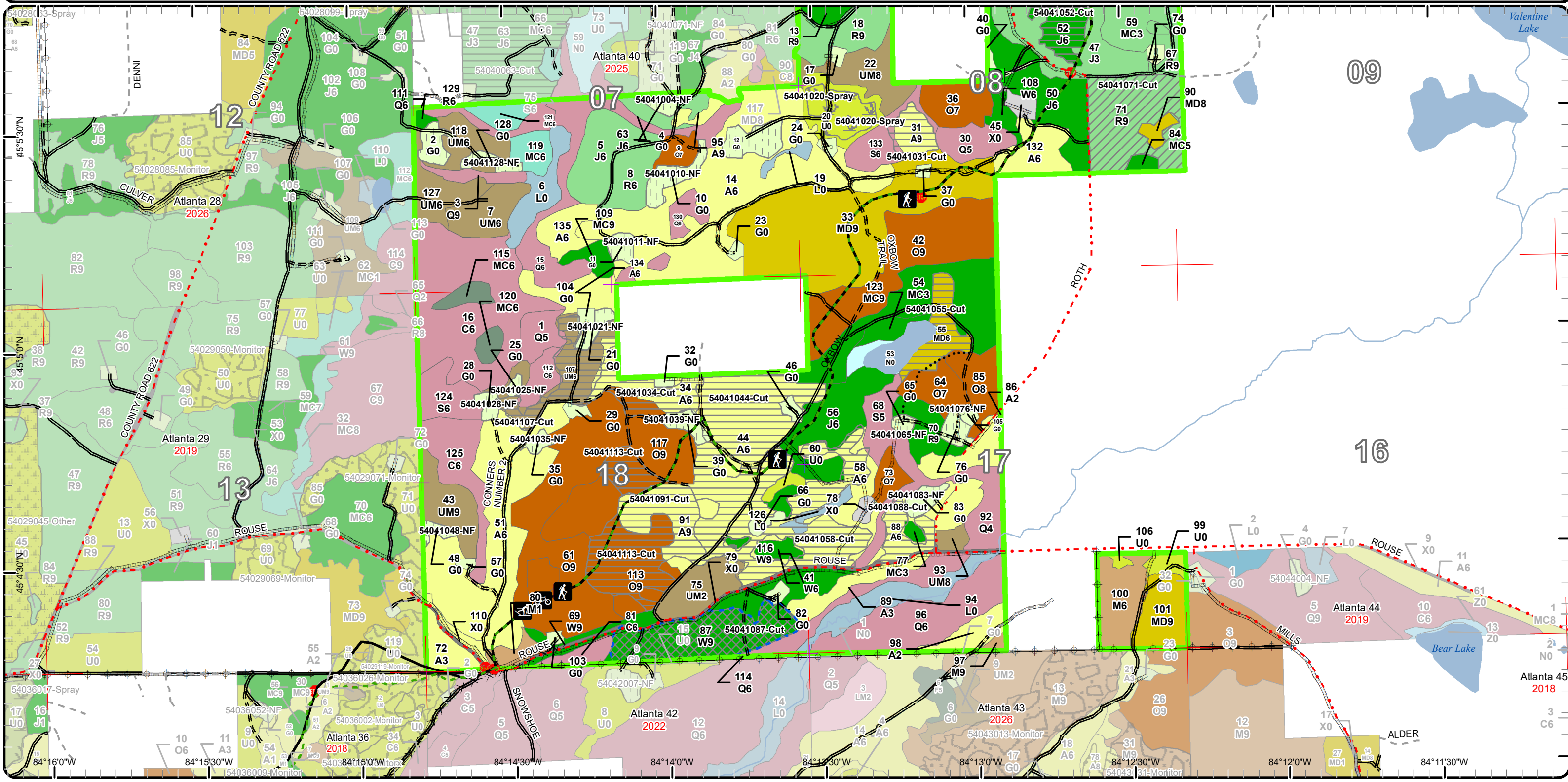
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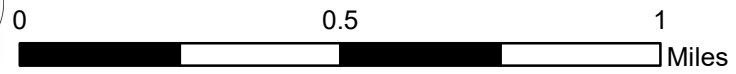
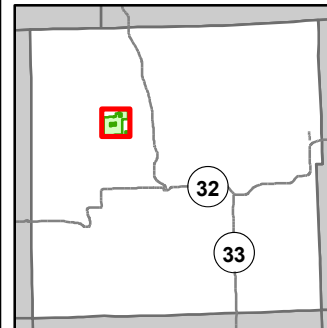


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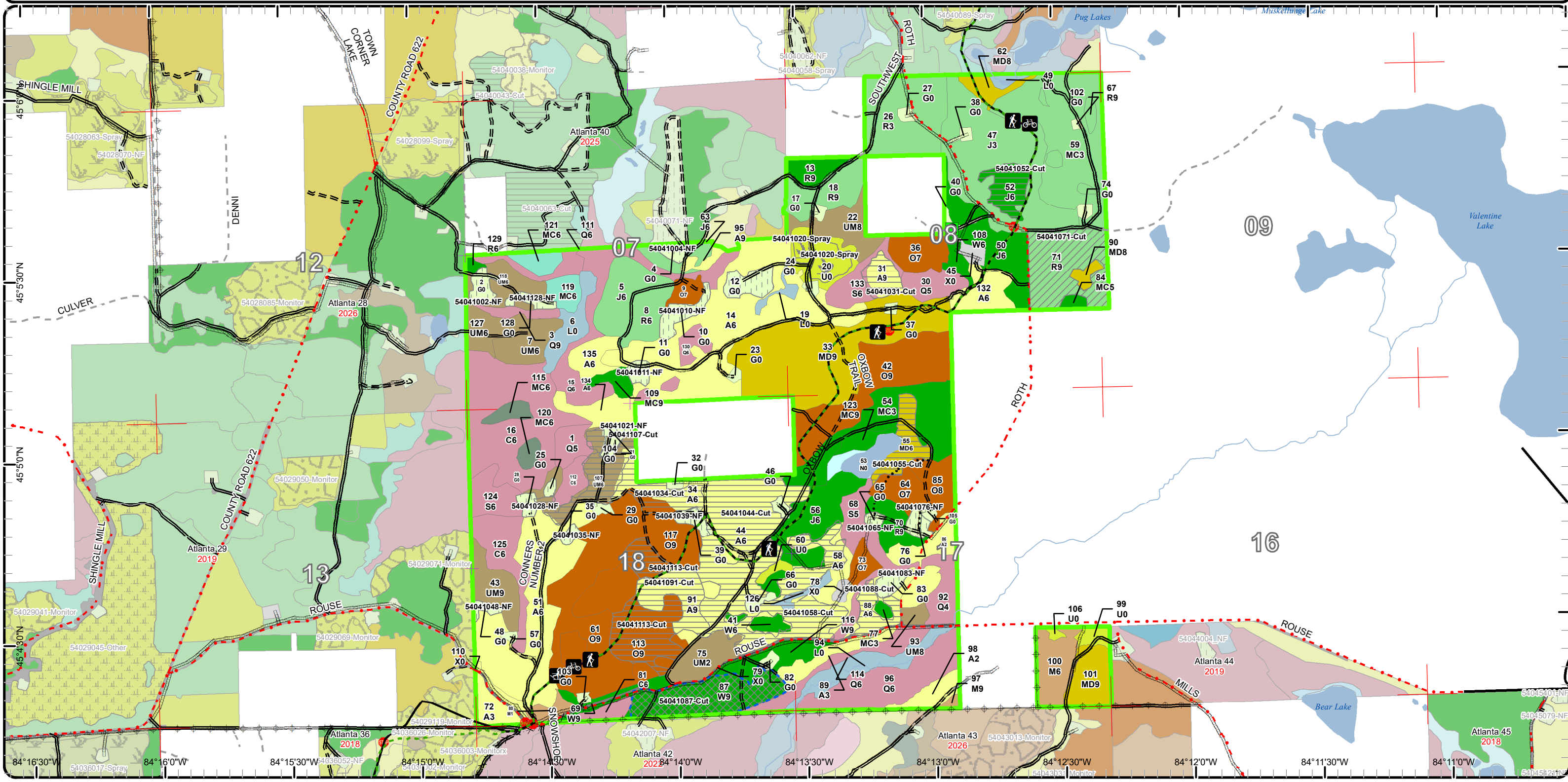


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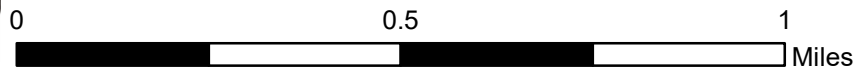
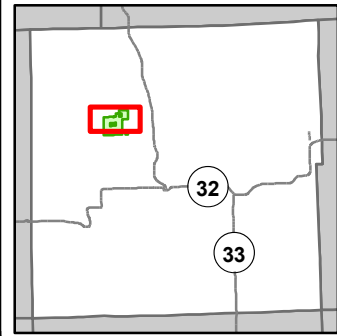
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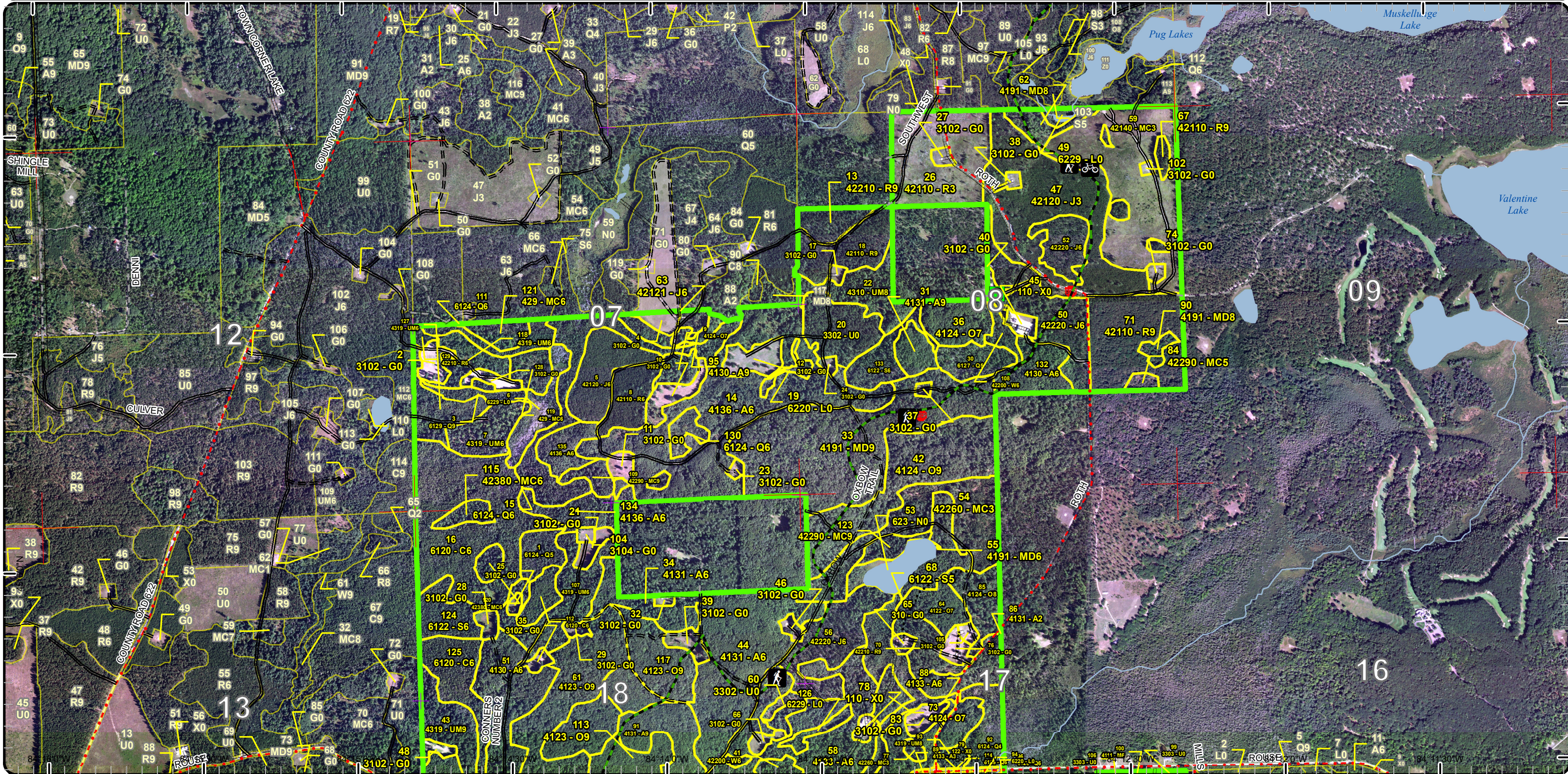
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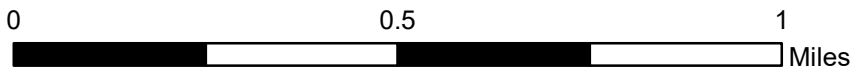
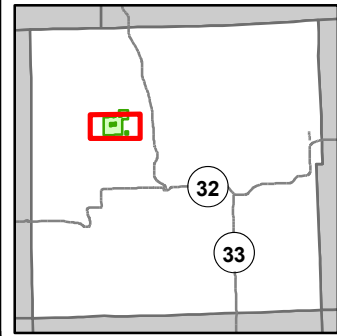


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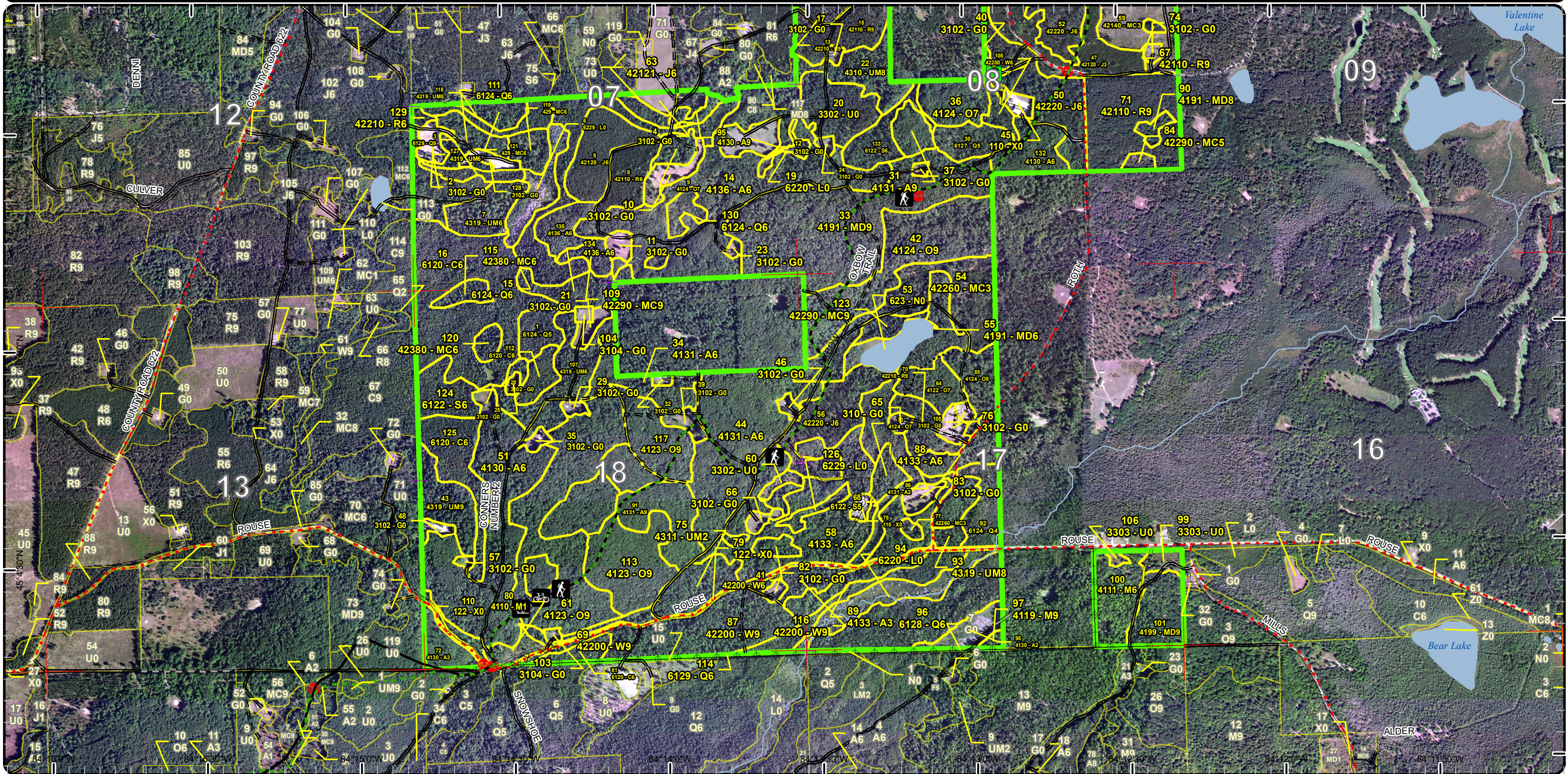


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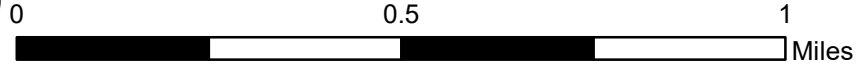


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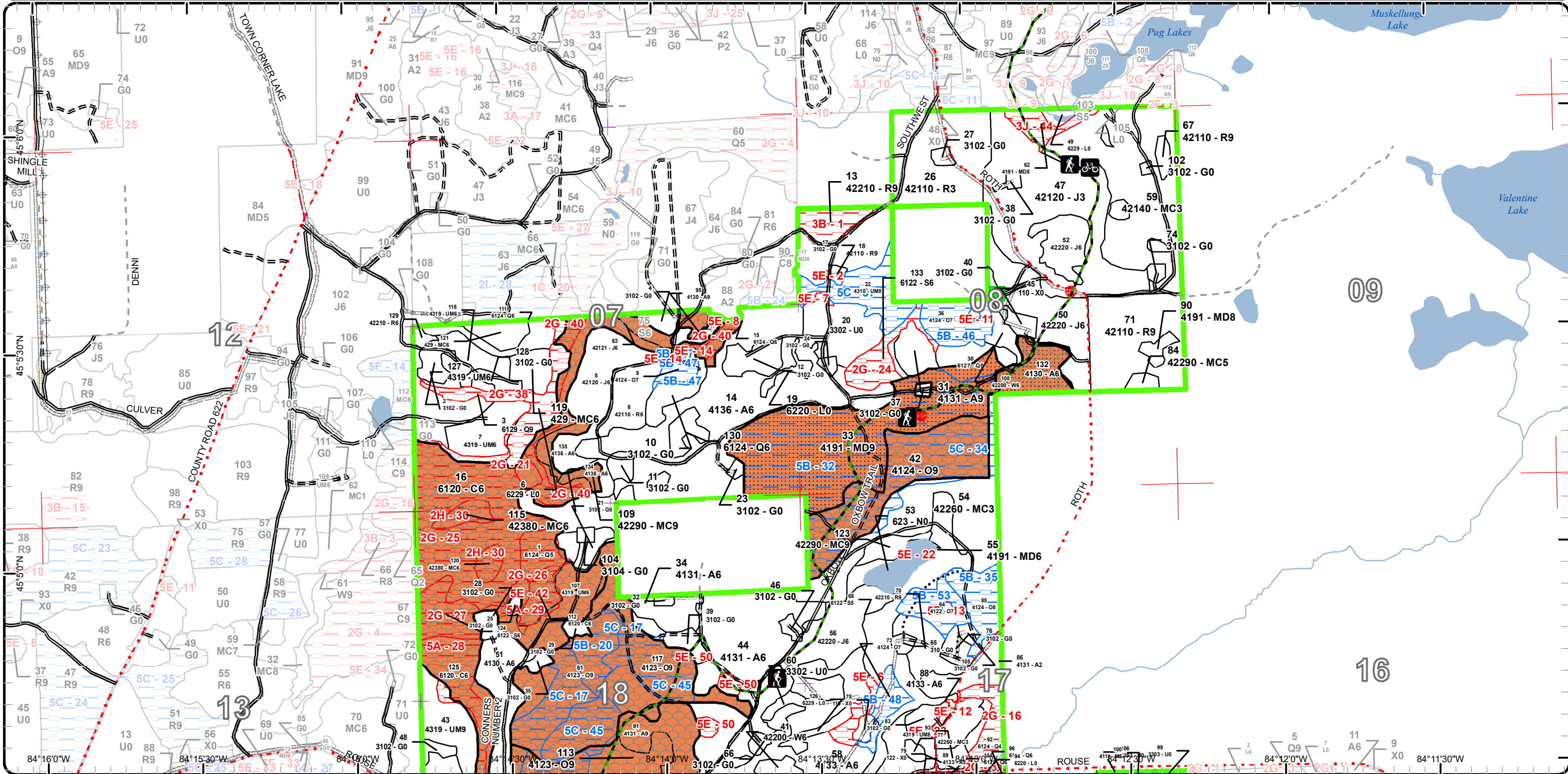


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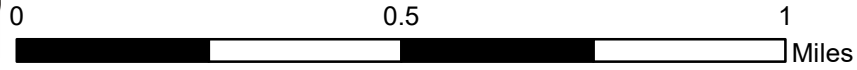
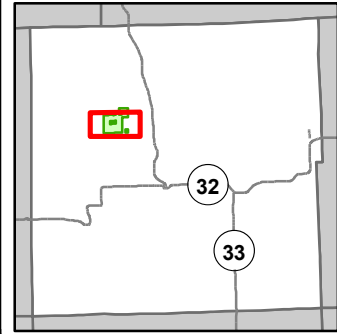


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- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- SCA Removal
- Cold Water Streams
- Other Habitat Area

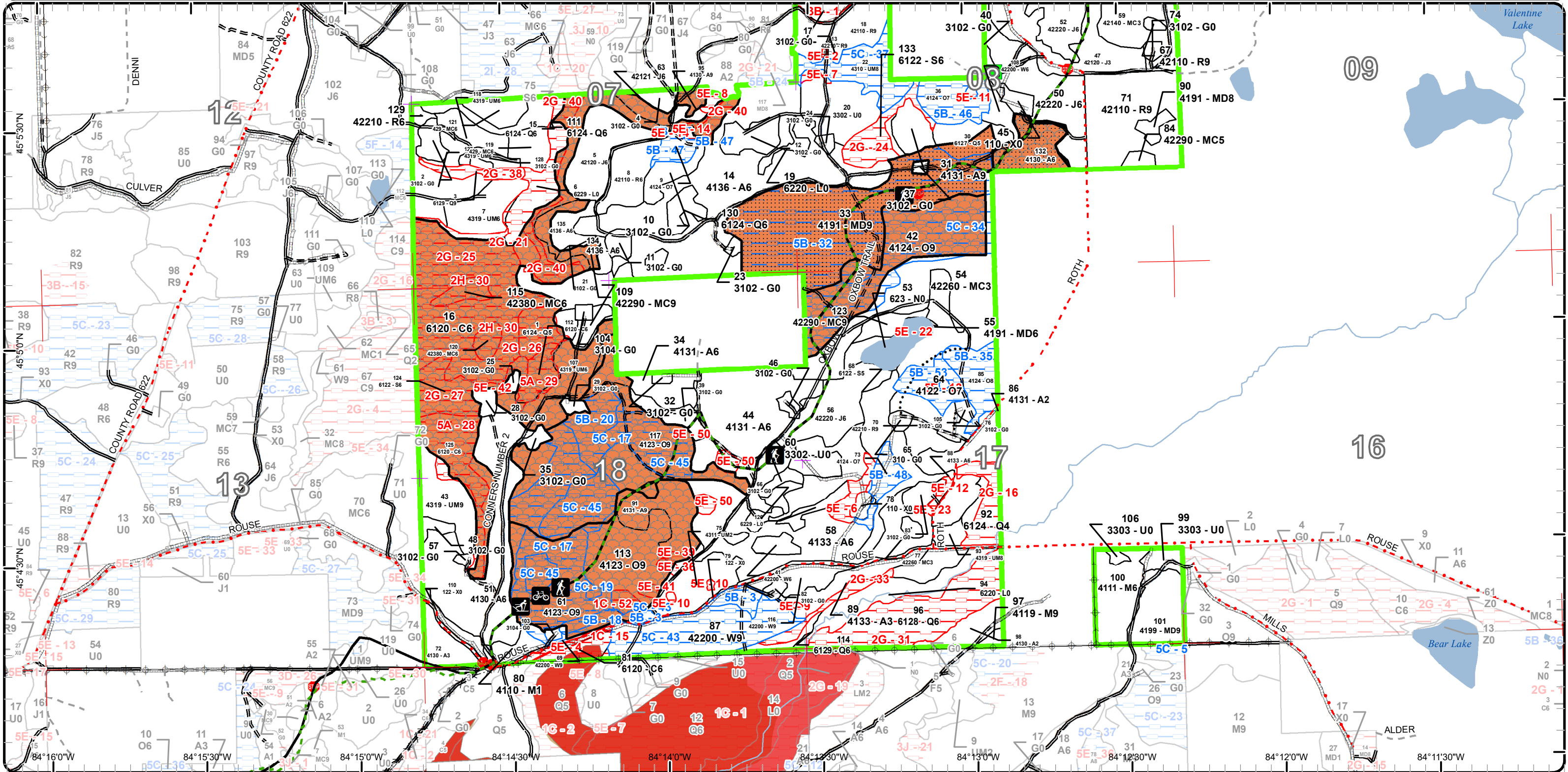


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- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- SCA Removal
- Ecological Reference Areas
- Forest Habitat Core Interior
- Cold Water Streams
- Other Habitat Area



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	22	0	62	190	79	40	0	0	0	0	0	0	0	0	0	0	0	393
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cropland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Herbaceous Openland	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Jack Pine	0	0	0	46	0	0	37	0	0	0	0	0	0	0	0	0	0	0	83
Low-Density Trees	131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	131
Mixed Upland Deciduous	0	57	47	65	21	55	30	0	0	24	22	8	0	0	0	0	0	0	329
Natural Mixed Pines	0	0	0	40	0	0	0	0	0	7	0	0	0	0	0	0	0	0	47
Northern Hardwood	0	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Oak	0	0	67	12	0	77	0	0	9	87	0	181	207	0	0	0	0	0	639
Planted Mixed Pines	0	0	0	0	65	0	0	0	0	0	0	0	0	0	0	0	0	0	65
Red Pine	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	16
Upland Mixed Forest	0	0	0	99	0	29	17	0	0	0	0	0	0	0	0	0	0	0	145
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Urban	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	0	9	10	16	0	0	0	0	0	0	0	0	0	0	35
Total	179	79	114	373	276	265	134	16	9	118	22	189	207	0	0	0	0	0	1980



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 19

Total Compartment Acres: 1,979

Commercial Harvest - 124
 Harvests with Site Condition - 188
 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	85	0	0	0	0	0	0	0	0	85
Jack Pine	37	0	0	0	0	0	0	0	0	37
Mixed Upland Deciduous	32	0	0	0	0	0	0	0	0	32
Natural Mixed Pines	7	0	0	0	0	0	0	0	0	7
Oak	81	0	54	0	0	0	0	0	0	135
Red Pine	0	0	0	0	0	16	0	0	0	16
Total	242	0	54	0	0	16	0	0	0	312

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	312	0	0	0	43	0	0	0	14	369
Next Step	0	0	0	0	131	0	393	0	0	523
Total	312	0	0	0	174	0	393	0	14	892



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

1	63019001-NF	1.2	2113 - Forage Crops Nonstocked				Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass	No
<p><u>Prescription</u> Managed Wildlife Opening</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 /2024</p>											
5	63019005-NF	1.8	3102 - Grass Nonstocked				Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass	No
<p><u>Prescription</u> Managed Wildlife Opening</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 /2024</p>											
6	63019006-Cut	67.2	4131 - Aspen, Oak Poletimber Well	47	81-110		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with island retention. Use oak wilt spec with exceptions. Use trail protection spec. Leave a buffer around the grassy opening.</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> Aspen spp., maple spp., oak spp., pine spp..</p> <p><u>Regen:</u></p> <p><u>Other</u> Use timbersale to clean up any potential trespass issues in the stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</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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8	63019008-Cut	76.8	4125 - Black, N. Pin Oak	Sawtimber Well	115	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Clearcut with 3-10% retention in the form of islands. Use oak wilt with exceptions. Add a post harvest burn.

Specs:

Next Step Burn, Slash; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple spp., oak spp., aspen spp., pine spp., black cherry.

Regen:

Other

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024

12	63019012-Burn	43.0	4123 - Red Oak	Poletimber Poor	115	1-50	Burn	Understory	412 - Oak Types	Even-Aged	No
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Prescription Burn to set back red maple understory and promote oak regen.

Specs:

Next Step Monitoring, Prescribed Burn

Treatments:

Acceptable Oak spp.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 4 /1 /2024

13	63019013-Cut	12.1	4126 - White, Black, N. Pin Oak	Sawtimber Well	105	81-110	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Strip/Patch cut 50% of this stand. Use trail protection spec. Use oak wilt spec with no exceptions. Use grouse spec.

Specs:

Next Step Burn, Understory; Monitoring, Prescribed Burn

Treatments: ; Monitoring, Natural Regen (Re-Inventory)

Acceptable Oak spp., red maple, aspen, pine spp. and other native upland deciduous species.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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	63019014-Cut	29.1	4126 - White, Black, N. Pin Oak	Sawtimber Well	115	81-110	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4199 - Other Mixed Upland Deciduous	Two-Aged	No
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Prescription Strip/patch cut 50% of the volume from this stand. Use oak wilt restriction no exceptions. Use trail protection spec. Use grouse spec.
Specs:

Next Step Burn, Understory; Monitoring, Prescribed Burn
Treatments: ; Monitoring, Natural Regen (Re-Inventory)

Acceptable Oak spp., red maple, aspen spp., white pine, and other native upland species.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

20	63019020-Cut	12.0	4131 - Aspen, Oak	Poletimber Well	58	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with standard retention. Use grouse spec. Use Oak wilt spec with exceptions. Use trail protection spec. Island retention.
Specs:

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

Acceptable Aspen spp., oak spp., red maple, white pine, and other native upland species.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

28	63019028-Cut	23.5	4199 - Other Mixed Upland Deciduous	Poletimber Well	85	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Clear-cut with island retention. Use trail spec. Use grouse spec. Use oak wilt spec with exceptions. Buffer the wildlife opening.
Specs:

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

Acceptable Oak spp., aspen spp., red maple, black cherry and other native upland species.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
29	63019029-Cut	12.7	4125 - Black, N. Pin Oak	Sawtimber Well	105	51-80	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Strip/patch cut 50% of this stand this entry. Use trail protection spec. Use oak wilt with no exceptions. Use grouse spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Understory; Monitoring, Prescribed Burn</p> <p><u>Treatments:</u> ; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable</u> Oak spp., red maple, white pine, and other native upland 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 /2024</p>											
33	63019033-NF	3.0	2113 - Forage Crops	Nonstocked			Unspecified	NonForestMgt /Grass Planting	Herbaceous/Crop	3102 - Grass	No
<p><u>Prescription</u> Managed Wildlife Opening</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 /2024</p>											
42	63019042-Cut	12.0	4133 - Aspen, Mixed Pine	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with standard retention. Use grouse spec. Use oak wilt spec with exceptions. Pocket 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> Aspen spp., oak spp., white pine, red maple, and other native upland 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 /2024</p>											
58	63019058-Cut	5.6	4130 - Aspen	Poletimber Well	58	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut with no retention. Use grouse spec. Use oak wilt with exceptions spec. Add spec to cut all autumn olive around the managed opening.</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> Aspen spp., oak spp., and other native upland 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 /2024</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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59	63019059-Cut	4.6	4126 - White, Black, N. Pin Oak	Sawtimber Well	102	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Clearcut with retention. Harvest in conjunction with stand 68 for access. Use grouse spec. Use oak wilt with exceptions spec.
Specs:

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

Acceptable Oak spp., red maple, white pine, aspen spp. and other native upland species
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

62	63019062-NF	2.1	2113 - Forage Crops Nonstocked				Unspecified NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		No
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Prescription Managed Wildlife Opening
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

68	63019068-Cut	8.2	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	105	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Clearcut with no retention due to small stand size. Use grouse drumming spec. Use trail protection spec. Use oak wilt with exceptions spec.
Specs:

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

Acceptable Oak spp., red maple, white pine, jack pine, aspen spp.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

70	63019070-Cut	6.8	42250 - Pine, Oak	Sawtimber Well	84	81-110	Harvest	Clearcut	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Clearcut with no retention due to small size. Use grouse spec. Use the timbersale to obliterate any illegal ORV trails.
Specs:

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

Acceptable White pine, aspen, oak, red maple and other native upland species.
Regen:

Other Check for survey corners to ensure property boundary is properly established.
Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
73	63019073-NF	3.4	2113 - Forage Crops	Nonstocked			Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass	No
<p><u>Prescription</u> Managed Wildlife Opening</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 /2024</p>											
79	63019079-Cut	16.4	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	48	51-80	Harvest	Systematic Thinning	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> 3rd row thin. Cut all red and jack pine in rows. Do not cut oak or cherry.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Pine spp., oak spp., maple spp. and other native upland deciduous species.</p> <p><u>Regen:</u></p> <p><u>Other</u> DRIP funding source.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
82	63019082-NF	0.5	3102 - Grass	Nonstocked			Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass	No
<p><u>Prescription</u> Managed Wildlife Opening</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> Recreational/Scenic</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
90	63019090-NF	1.8	2113 - Forage Crops	Nonstocked			Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass	No
<p><u>Prescription</u> Managed Wildlife Opening</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 /2024</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
91 63019091-Cut	37.2	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut with standard retention. Buffer the wildlife opening and use island retention. Use oak wilt spec with exceptions.</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> Jack pine, white pine, red pine, oak spp., red maple, and other native upland species.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

Total Treatment 381
Acreage Proposed:

Report 4 – Site Conditions

Cadillac Mgt. Unit
James Park : Examiner

Compartment: 19
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions							
		With Condition				2I	5B	5C	2F	3D	5E		
393	303	90		0	Aspen	67		23					
1	1	0		0	Bog								
11	11	0		0	Cropland								
29	28	0		0	Herbaceous Openland		0	0		0			
83	46	37		0	Jack Pine	37	0	0					
131	125	6		0	Low-Density Trees			6					
327	305	22		0	Mixed Upland Deciduous		22	0					
47	40	7		0	Natural Mixed Pines	7							
49	49	0		0	Northern Hardwood								
640	259	376		5	Oak	77	198	102	4			1	
65	65	0		0	Planted Mixed Pines								
16	16	0		0	Red Pine								
145	145	0		0	Upland Mixed Forest								
5	5	0		0	Upland Shrub		0						
1	1	0		0	Urban								
35	35	0		0	White Pine								
1,979	1,435	539		5	Total Forested Acres	188	220	131	4	0		1	
	73%	27%		0%	Relative Percent								

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3D: Recreational / Scenic values	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Little Manistee Motorcycle trailhead							
2	Available	5B: Maintain for regeneration purposes	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

**Cadillac Mgt. Unit
James Park : Examiner**

**Compartment: 19
Year of Entry: 2025**

3	Available	5B: Maintain for regeneration purposes	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
James Park : Examiner

Compartment: 19
Year of Entry: 2025

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5B: Maintain for regeneration purposes	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5B: Maintain for regeneration purposes	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was treated in 2009. Overstory varies in BA from 0 to 50 averaging approximately 20-30. Retain overstory for mast.							
14	Available	5B: Maintain for regeneration purposes	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand has been planted to jack pine. Stand was treated in 2009. Overstory varies in BA from 0 to 50 averaging approximately 20-30. Retain overstory for mast and planting concerns.							

Report 4 – Site Conditions

Cadillac Mgt. Unit
James Park : Examiner

Compartment: 19
Year of Entry: 2025

15	Available	2I: Survey needed	144	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Need survey on stand 6 and 8 for a timbersale.							
16	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

**Cadillac Mgt. Unit
James Park : Examiner**

**Compartment: 19
Year of Entry: 2025**

21	Available	2I: Survey needed	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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
Little Manistee Motorcycle Trail and Route	Concentrated Recreation Area	Trail Head	SCA	0
Comments				

Mgt. Unit

Compartment:

Year of Entry



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	2113 - Forage Crops	Nonstocked	1.2		Unspecified	Managed Opening	Maintained wildlife opening.		
2	4131 - Aspen, Oak	Poletimber Well	22.7	52	111-140	N/A	Previous comment: FTP # G-128. Treated residual from commercial clearcut: "This is a commercial cut over area which will be managed for aspen & oak. Therefore, all red maple and oak left should be cut." Timber sale paperwork could not be found. Treated in 1971 to remove all red maple and oak that were left after harvest completed in 1971. Lower quality pole stand with a small oak component. Various densities and diameters, but mostly smaller poles in the aspen. Hold for 10 years.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Pole	7		Witch Hazel	High	Variable	Tall Shrub
White Oak		10	Pole	6		Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		60	Pole	7	52				
Black/Red (Hybrid) Oak		15	Pole	6					
3	4130 - Aspen	Poletimber Well	12.6	30	Unspecified	N/A	Stand treated in timber sale approximately 30 years ago. Paperwork could not be found.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		35	Pole	5		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen		65	Pole	5	30				
4	4199 - Other Mixed Upland Deciduous	Sapling Medium	9.0	5	1-50	N/A	Stand treated timber sale #63-006-15-01, "1910 Overture". Cut in 2017.		
Canopy Species		% Cover	Size Class	DBH	Age				
White Oak		10	Log	10					
Bigtooth Aspen		15	Sapling	1					
Black/Red (Hybrid) Oak		15	Log	11	105				
White Oak		5	Sapling	1					
Black/Red (Hybrid) Oak		5	Sapling	1					
Red Maple		50	Sapling	1	5				
5	3102 - Grass	Nonstocked	1.8		Unspecified	No	Opening - Non-maintained		
6	4131 - Aspen, Oak	Poletimber Well	67.2	47	81-110	N/A	FTP # W-264, II-36. Treat residual from commercial clearcut: "Fell all aspen, red maple, and oak trees to improve aspen and deer habitat". Timber sale paperwork could not be found. Treated in 1976.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25	Pole	8		Witch Hazel	Medium	Variable	Tall Shrub
White Oak		10	Pole	6					
Bigtooth Aspen		40	Pole	8	47				
Black/Red (Hybrid) Oak		20	Pole	6					
Jack Pine		5	Pole/Sapling	7					
7	4131 - Aspen, Oak	Poletimber Well	25.5	38	51-80	N/A	Stand was treated around 1986 due to age.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25	Pole/Sapling	6		Witch Hazel	Medium	Variable	Tall Shrub
White Oak		15	Pole/Sapling	5					
Bigtooth Aspen		40	Pole/Sapling	6	38				
Black/Red (Hybrid) Oak		20	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
8	4125 - Black, N. Pin Oak	Sawtimber Well	110.8	115	81-110	N/A	Heavy red maple understory filled with pole-sized stems. Treat next entry to allow for red maple merchantability and for the oak to move fully into the sawlog class.																																																							
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9	4126 - White, Black, N. Pin Oak	Sawtimber Medium	9.1	100	1-50	N/A	Patchy stand with some older aspen. Do not treat this entry period. Keep stand for age class and species diversity.																																																							
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10	4199 - Other Mixed Upland Deciduous	Sapling Well	17.3	26	1-50	N/A	Stand treated timber sale #63-020-95-01, "Centerline Oak". Cut in 1997. Green marked oak were left. Heavier oak component to east of stand.																																																							
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11	3303 - Mixed Low Density Trees	Nonstocked	37.3	0	Unspecified	4319 - Mixed Upland Forest	Stand treated timber sale #63-006-15-01, "1910 Overture". Cut in 2017.																																																							
12	4123 - Red Oak	Poletimber Poor	43.0	115	1-50	N/A	Stand was cut in 2018 as part of sale #, "63-008-15", "Eight Point Oak".																																																							
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13	4126 - White, Black, N. Pin Oak	Sawtimber Well	23.3	105	81-110	N/A	Do not treat this entry period. Keep for age class and species diversity. Pocket of white pine pulp/small logs in northeast part of stand.																																																							
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14	4126 - White, Black, N. Pin Oak	Sawtimber Well	53.3	115	81-110	N/A	Medium to high quality oak stand. Do not treat stand this entry. Save for age class and species diversity.																																		
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15	4199 - Other Mixed Upland Deciduous	Sapling Medium	10.4	23	Immature	N/A	Stand treated approximately 13 years ago however, paperwork could not be found. Overstory small to medium pole sized oak and red maple.																																		
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16	4131 - Aspen, Oak	Sapling Medium	27.5	27	Unspecified	N/A	Stand treated timber sale #63-006-95-01, "Service Trail Oak". 1996. Good oak seedling & sapling regeneration.																																		
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19	4126 - White, Black, N. Pin Oak	Sawtimber Medium	22.9	108	1-50	N/A	Stand treated timber sale #63-020-95-01, Centerline Oak. All species cut except for trees 10" DBH and larger. Occasional white and red pine pulp to log trees. Good oak regen in the form of stump sprouts and single stem.																																		
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20	4131 - Aspen, Oak	Poletimber Well	12.0	58	51-80	N/A	Stand treated but paperwork could not be found. Cut over aspen and red maple with overstory oak. Grassy opening in northeast portion of stand.																													
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21	4130 - Aspen	Sapling Well	14.3	6	Immature	N/A	Stand treated timber sale #63-006-15-01, "1910 Overture". Cut in 2017.																													
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22	3303 - Mixed Low Density Trees	Nonstocked	20.8	0	Unspecified	4319 - Mixed Upland Forest	Stand treated timber sale #69-006-15-01, "1910 Overture".																													
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23	4125 - Black, N. Pin Oak	Sapling Poor	40.4	16	Immature	N/A	Stand treated timber sale #63-009-05-01, "Nuts & Trails". Cut in 2007. Oak stump sprouts and single stem saplings. Red maple stump sprouts and single stem saplings.																													
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24	4319 - Mixed Upland Forest	Sapling Well	17.1	52	1-50	N/A	Stand treated timber sale #63-014-97-01, "Over the hill again". Few jack pine and red pine in stand.																													
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25	3102 - Grass	Nonstocked	13.3		Unspecified	Managed Opening	Previous comments: Stand treated timber sale #63-009-05-01, "Nuts & Trails". Prescribed burn per FTP #C63-580 on 08/12/08. Burn was excessively hot. Update 10/2022: Regen in this stand remains sparse but does show signs of healing post burn.																													
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26	330 - Low-Density Trees	Nonstocked	25.9	0	Unspecified	412 - Oak Types	Stand treated timber sale #63-006-15-01, "1910 Overture". Cut in 2017.																																														
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27	4126 - White, Black, N. Pin Oak	Sapling Well	12.3	27	Immature	N/A	Stand treated timber sale #63-020-95-01, Centerline Oak. Beginning to enter pulp stage.																																														
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29	4125 - Black, N. Pin Oak	Sawtimber Well	27.0	105	51-80	N/A	Stand treated timber sale #63-006-15-01, "1910 Overture". Cut in 2017. Stands 4 and 34 were previously part of this stand and were thinned.																																														
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30	4199 - Other Mixed Upland Deciduous	Sapling Medium	7.9	16	Immature	N/A	Stand treated timber sale #63-009-05-01, "Nuts & Trails". Cut in 2007. Scattered mature oak.																																														
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31	42200 - Natural White Pine	Poletimber Well	5.9	48	81-110	N/A	Stand treated timber sale #63-029-85-02. Overstory oak removal.																																														
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32	42200 - Natural White Pine	Poletimber Well	6.0	65	111-140	N/A	Stand treated timber sale #63-010-89-02. Overstory removal of hardwoods to release white pine understory.																																								
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33	2113 - Forage Crops	Nonstocked	3.0		Unspecified	Managed Opening	Maintained wildlife opening.																																								
34	4199 - Other Mixed Upland Deciduous	Sapling Medium	11.5	5	1-50	N/A	Stand treated timber sale #63-006-15-01, "1910 Overture". Cut in 2017.																																								
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35	4131 - Aspen, Oak	Sapling Well	34.1	25	Unspecified	N/A	Stand treated timber sale #63-014-97-01, Over the Hill Again.																																								
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36	4199 - Other Mixed Upland Deciduous	Poletimber Well	10.6	37	1-50	N/A	Stand treated timber sale #63-001-85-01, "Checkerboard". ORV Route and Trail through stand.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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37 4199 - Other Mixed Upland Deciduous Sapling Medium 36.1 5 1-50 N/A Stand treated timber sale #63-006-15-01, "1910 Overture". Cut in 2017.

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	5	Sapling	1	
White Oak	5	Log	11	
Red Maple	50	Sapling	1	5
Black/Red (Hybrid) Oak	5	Sapling	1	
Bigtooth Aspen	20	Sapling	1	
Black/Red (Hybrid) Oak	15	Log	12	115

38 42100 - Planted White Pine Poletimber Well 3.1 45 1-50 N/A Planted per FTP #179 in approximately 1997. Trenched and hand planted.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	15	Pole/Sapling	6	
White Pine	85	Pole/Sapling	6	45

39 4131 - Aspen, Oak Poletimber Well 10.0 38 1-50 N/A Stand treated timber sale #63-001-85-01, "Checkerboard".

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Sapling	6	
White Oak	10	Pole/Sapling	5	
Bigtooth Aspen	50	Pole/Sapling	7	38
Black Cherry	5	Sapling/Pole	4	
Black/Red (Hybrid) Oak	15	Pole/Sapling	5	

40 330 - Low-Density Trees Nonstocked 33.2 0 Unspecified 412 - Oak Types Stand was cut in 2018 as part of sale #, "63-008-15", "Eight Point Oak".

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Red Maple	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	Low	>20 feet	Log
White Oak	Low	>20 feet	Log

41 110 - Low Intensity Urban Nonstocked 1.1 Unspecified No M-37

42 4133 - Aspen, Mixed Pine Poletimber Well 12.0 49 81-110 N/A Treat residual from commercial clearcut: "Cut all residual to improve aspen conversion and deer habitat." Timber sale paperwork could not be found. Treated in 1974.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	6		White Pine	Low	< 5 feet	Sapling
White Oak	20	Pole/Sap/Log	6		Witch Hazel	Medium	Variable	Tall Shrub
Bigtooth Aspen	50	Pole/Log	8	49	Black Cherry	Low	< 5 feet	Sapling
White Pine	20	Pole/Log	12		Red Maple	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	5	Pole/Sap/Log	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
43	4119 - Mixed Northern Hardwoods	Sapling Well	49.3	26	1-50	N/A	Stand treated timber sale #63-014-97-01, "Over the Hill Again". Residual oak and red maple left.																												
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44	3102 - Grass	Nonstocked	1.3		Unspecified	No	Powerline																												
45	4130 - Aspen	Poletimber Well	44.1	38	1-50	N/A	Stand treated timber sale #63-002-85-01, "Webber 8th & 12th St."																												
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46	3205 - Mixed Upland Shrub	Nonstocked	5.3		Unspecified	Managed Opening	Stand treated timber sale #63-061-05-01, "James 12:16".																												
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47	4131 - Aspen, Oak	Poletimber Well	10.4	37	1-50	N/A	Stand treated timber sale #63-001-85-01, "Checkerboard".																												
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48	4199 - Other Mixed Upland Deciduous	Sapling Medium	37.3	26	Immature	N/A	Stand treated timber sale #63-004-95-01, "8th Street Pine and Hdwd".																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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49 4199 - Other Mixed Upland Deciduous Poletimber Well 10.6 38 1-50 N/A Stand treated timber sale #63-006-88-01" (no sale name).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	10	Sapling/Pole	4		Witch Hazel	Medium	Variable	Tall Shrub
Jack Pine	5	Pole/Log	8		Hawthorn (spp.)	Low	Variable	Tall Shrub
Black/Red (Hybrid) Oak	30	Pole/Sapling	5	38	White Oak	Medium	< 5 feet	Sapling
White Oak	25	Sapling/Pole	4		Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling
White Pine	10	Log/Pole	11					
Bigtooth Aspen	20	Pole/Sapling	7					

50 4131 - Aspen, Oak Poletimber Well 44.1 37 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Sapling	5	
Bigtooth Aspen	45	Pole/Sapling	5	37
White Oak	15	Sapling/Pole	4	
Black/Red (Hybrid) Oak	10	Sapling/Pole	4	
White Pine	10	Pole/Log	8	

51 4126 - White, Black, N. Pin Oak Poletimber Well 14.5 83 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Pole/Log	7		Witch Hazel	Low	Variable	Tall Shrub
White Oak	50	Pole/Log	9	83	White Pine	Low	< 5 feet	Sapling
Bigtooth Aspen	5	Log	10		Red Maple	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	20	Pole/Log	10		Black Cherry	Medium	5 - 10 feet	Sapling
Red Maple	5	Pole/Log	9					

52 4199 - Other Mixed Upland Deciduous Poletimber Well 26.6 45 1-50 N/A Stand treated timber sale # 3-76A II-35. Cut in 1978.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Pole/Sapling	7	
White Oak	15	Pole/Sapling	5	
Bigtooth Aspen	10	Pole/Sapling	6	
Black/Red (Hybrid) Oak	40	Pole/Sapling	7	45

53 4125 - Black, N. Pin Oak Poletimber Well 24.9 47 51-80 N/A Stand treated timber sale Permit # 3-76A, II-35. Treated 1976 with stand to the east. FTP# W63-287, Removed scattered aspen and red maple left over from timber sale.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Pole	8	
Bigtooth Aspen	10	Pole	8	
Black/Red (Hybrid) Oak	45	Pole/Sap/Log	8	47
White Oak	15	Pole/Sapling	7	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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54 330 - Low-Density Trees Nonstocked 14.0 0 Unspecified 412 - Oak Types Stand was treated in Spring 2019 with timber sale # "63-020-15-01", "East Side Oak". Stand treated timber sale #63-019-95-01, "Autumn Olive Oak". All trees were cut except oak 10" DBH and larger.

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Low	>20 feet	Log
White Oak	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Oak	Low	>20 feet	Log
White Pine	Low	< 5 feet	Sapling

55 4126 - White, Black, N. Pin Oak Sawtimber Poor 18.8 100 1-50 N/A Stand was cut in 2018 as part of sale #, "63-008-15", "Eight Point Oak".

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	20	Log/Pole	12	
Red Pine	5	Log/Pole	14	
White Oak	65	Log	10	100
White Pine	10	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sassafras	Low	5 - 10 feet	Sapling
Red Maple	Low	< 5 feet	Sapling
White Oak	Medium	< 5 feet	Sapling
Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling
White Pine	Medium	5 - 10 feet	Sapling
Hawthorn (spp.)	Low	Variable	Tall Shrub

56 4199 - Other Mixed Upland Deciduous Sapling Medium 28.8 18 Immature N/A Stand treated timber sale #63-009-05-01, "Nuts & Trails".

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Sapling	3	
Black Cherry	5	Sapling	3	
Red Maple	20	Sapling/Pole	3	
White Oak	15	Sapling/Pole	2	
Bigtooth Aspen	35	Sapling/Pole	3	18
Black/Red (Hybrid) Oak	20	Sapling	2	

57 4121 - Oak, Aspen Sapling Well 26.9 14 Immature N/A Stand treated timber sale #63-001-06-01, "CRS". Treated in 2009. Excellent oak regeneration.

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	15	Sapling	1	
Black/Red (Hybrid) Oak	50	Sapling	1	14
Black Cherry	5	Sapling	1	
Bigtooth Aspen	30	Sapling	2	

58 4130 - Aspen Poletimber Well 5.6 58 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	5	Pole/Sapling	5	
White Pine	15	Pole	9	
Bigtooth Aspen	80	Pole	8	58

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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59 4126 - White, Black, N. Pin Oak Sawtimber Well 5.8 102 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	50	Log/Pole	13	102	White Pine	Low	5 - 10 feet	Sapling
Red Maple	20	Pole/Log	8		Witch Hazel	Low	Variable	Tall Shrub
White Oak	30	Log/Pole	11					

60 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 29.6 56 51-80 N/A

Stand treated timber sale #63-013-95-01, "Tip of the Trail". Previous comments: Good amount of oak seedlings and saplings. Occasional jack pine. Pockets of heavy oak pulpwood.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling/Pole	4		White Oak	Medium	Variable	Sapling
Bigtooth Aspen	20	Sapling/Pole	4		Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Oak	20	Sapling/Pole	3					
White Pine	40	Pole	9	56				
Black/Red (Hybrid) Oak	10	Sapling/Pole	3					

61 4199 - Other Mixed Upland Deciduous Sapling Medium 21.8 90 1-50 N/A

Stand was treated in Spring 2017 with timber sale # "63-020-15-01", "East Side Oak".

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	20	Sapling	1	6	Witch Hazel	Medium	Variable	Tall Shrub
White Oak	10	Sapling	1		White Oak	Medium	Variable	Sapling
Black/Red (Hybrid) Oak	20	Sapling	1	6	White Pine	Medium	5 - 10 feet	Sapling
White Oak	15	Log	10	80				
White Pine	10	Pole	8					
Black/Red (Hybrid) Oak	25	Log	12	90				

62 2113 - Forage Crops Nonstocked 2.1 Unspecified No

63 4126 - White, Black, N. Pin Oak Sawtimber Well 37.2 105 51-80 N/A

Previous comments: Stand treated timber sale #63-019-95-01, "Autumn Olive Oak". All trees were cut except oak 10" DBH and larger.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Log/Pole	12		White Pine	Low	10 - 20 feet	Sapling
Red Maple	5	Pole	7		Witch Hazel	Medium	Variable	Tall Shrub
White Oak	40	Log/Pole	11		Red Maple	High	>20 feet	Sapling
Black/Red (Hybrid) Oak	50	Log/Pole	13	105	Autumn Olive	Low	Variable	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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64 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 27.6 48 1-50 N/A Stand treated timber sale #63-009-05-01, "Nuts & Trails". Stand interplanted with white pine in 1975 per planting form No. 178.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	20	Pole/Log	7		Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling
White Pine	30	Pole/Log	9	48	Jack Pine	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	25	Pole/Log	8		White Pine	Low	< 5 feet	Sapling
Black Cherry	5	Pole/Sapling	6		White Oak	Medium	5 - 10 feet	Sapling
Red Pine	5	Log/Pole	11					
Red Maple	15	Pole	7					

65 4310 - Pine, Oak Mix Sapling Well 7.0 28 Immature N/A Stand treated timber sale #63-004-95-01, "8th Street Pine and Hdwd". FTP# C63-480. Trenched and handplanted May of 2001.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	55	Sapling/Pole	4	28
Black Cherry	5	Sapling/Pole	3	
White Oak	15	Sapling/Pole	3	
Black/Red (Hybrid) Oak	25	Sapling/Pole	3	

66 4126 - White, Black, N. Pin Oak Poletimber Medium 25.5 88 1-50 N/A Stand treated timber sale #63-061-05-01, "James 12:16". Treated in 2009. Do not cut overstory, leave stand for mast and age class diversity. Oak seedlings moderate to heavy. Powerline on west side of stand paralleling James Rd.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Pole	7		Black Cherry	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	20	Log/Pole	12		White Oak	Low	5 - 10 feet	Sapling
White Oak	75	Log/Pole	10	88	White Pine	Low	5 - 10 feet	Sapling
					Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling

67 4126 - White, Black, N. Pin Oak Poletimber Poor 9.3 78 1-50 N/A Stand was cut in 2018 as part of sale #, "63-008-15", "Eight Point Oak".

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Pole/Log	8		White Oak	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	30	Pole/Log	10		Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling
White Oak	60	Pole/Log	8	78	Bigtooth Aspen	Low	5 - 10 feet	Sapling
					White Pine	Low	< 5 feet	Sapling
					Black Cherry	Medium	5 - 10 feet	Sapling

68 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 8.2 105 51-80 N/A Poor quality stand. Restart.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	5	Pole/Sapling	6	
Red Maple	15	Pole/Sap/Log	8	
White Oak	10	Pole/Log	8	
Jack Pine	25	Pole/Sapling	7	
White Pine	10	Pole/Sap/Log	8	
Black/Red (Hybrid) Oak	35	Pole/Log	8	105



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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69 4126 - White, Black, N. Pin Oak Sapling Medium 6.2 47 1-50 N/A Stand treated timber sale Permit # 3-76A, II-35. Treated 1976 with stand to the west.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	10	Pole/Sapling	5	
Black/Red (Hybrid) Oak	45	Pole/Sapling	6	47
White Pine	10	Sapling/Pole	4	
Red Maple	10	Pole/Sapling	6	
White Oak	25	Pole/Sapling	6	

70 42250 - Pine, Oak Sawtimber Well 6.8 84 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Pole/Log	10		White Pine	High	5 - 10 feet	Sapling
White Pine	60	Pole/Log	12	84	Black Cherry	Medium	< 5 feet	Sapling
White Oak	15	Pole/Log	8		Witch Hazel	Medium	Variable	Tall Shrub
Black/Red (Hybrid) Oak	15	Pole/Log	8					

71 4131 - Aspen, Oak Sapling Well 7.2 6 Immature N/A Jack pine, aspen, oak, and white pine regen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	10	Sapling	1		White Oak	Low	< 5 feet	Sapling
Bigtooth Aspen	45	Sapling	1	6	Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
White Pine	5	Sapling	1					
Black/Red (Hybrid) Oak	15	Sapling	1					
Black Cherry	15	Sapling	1					
White Oak	10	Sapling	1					

72 4122 - Oak, Pine Poletimber Medium 46.1 88 1-50 N/A Stand treated timber sale #63-061-05-01, "James 12:16". Trenched and planted to jack pine in 2010-2011. Powerline and ORV spur trail to campground along southern end, parallel to 16th St.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	30	Sapling/Pole	3	13	Black Cherry	Medium	< 5 feet	Sapling
Black/Red (Hybrid) Oak	35	Log/Pole	10	88	Jack Pine	Low	< 5 feet	Sapling
White Oak	30	Log/Pole	10	88	White Pine	Low	5 - 10 feet	Sapling
White Pine	5	Pole/Log	8		White Oak	Low	< 5 feet	Sapling

73 2113 - Forage Crops Nonstocked 3.4 Unspecified Managed Opening Maintained wildlife opening.

74 4122 - Oak, Pine Sawtimber Well 12.3 105 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Pole/Log	8		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	40	Pole/Log	10	105	Jack Pine	Low	< 5 feet	Sapling
White Oak	30	Pole/Log	9		White Pine	Low	5 - 10 feet	Sapling
Jack Pine	10	Pole/Log	8		White Oak	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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76	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	46.2	26	1-50	N/A	Stand treated timber sale #63-013-95-01, "Tip of the Trail". Trenched with skidder 2003-2004. Stand adjacent to 16th St. ORV trail head and parking lot. Scattered overstory oak and white pine. Excellent jack pine regeneration. Powerline and ORV spur trail to campground along southern end, parallel to 16th St.
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Canopy Species	% Cover	Size Class	DBH	Age
White Oak	10	Sapling/Pole	4	
Black/Red (Hybrid) Oak	15	Pole/Sapling	5	
White Pine	10	Pole/Log	8	
Jack Pine	60	Pole/Sapling	6	26

77	4126 - White, Black, N. Pin Oak	Poletimber Poor	23.9	102	1-50	N/A	Stand was treated in Fall 2018 with timber sale # "63-020-15-01", "East Side Oak".
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	35	Pole/Log	8		White Oak	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	65	Pole/Log	10	102	White Pine	Medium	5 - 10 feet	Sapling
					Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling
					Jack Pine	Medium	5 - 10 feet	Sapling

78	4310 - Pine, Oak Mix	Poletimber Well	28.7	46	1-50	N/A	Stand planted via FTP #178, 1977.
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	30	Pole/Sapling	6	
Jack Pine	20	Pole/Sapling	5	
Black Cherry	10	Sapling/Pole	4	
Red Pine	35	Pole/Sapling	6	46
White Oak	5	Pole/Sapling	5	

79	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	16.4	48	51-80	N/A	Stand treated timber sale #63-044-85-01, "Pine Release #1". Stand planted to red pine per Planting Form #178, 1975.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	65	Pole	6	48
Jack Pine	10	Pole/Sapling	5	
Black Cherry	10	Sapling/Pole	4	
White Oak	10	Pole/Sapling	5	
Black/Red (Hybrid) Oak	5	Pole	5	

80	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	37.8	37	51-80	N/A	Previous comments: Stand planted to red pine circa 1986. No planting form could be found but tree core was taken.
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Canopy Species	% Cover	Size Class	DBH	Age
White Oak	10	Sapling/Pole	4	
Black/Red (Hybrid) Oak	25	Pole/Sapling	5	
Jack Pine	10	Sapling/Pole	4	
Red Pine	50	Sapling/Pole	4	37
Black Cherry	5	Sapling/Pole	3	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
81	4126 - White, Black, N. Pin Oak	Poletimber Well	46.3	46	51-80	N/A	Stand treated timber sale #63-013-73-A, II-37. Overstory removal. Occasional jack pine saplings and pulpwood. Core samples ~ 45 years old.																																								
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82	3102 - Grass	Nonstocked	0.5		Unspecified	No	ORV Trailhead Parking Lot																																								
83	4310 - Pine, Oak Mix	Sapling Medium	92.4	25	1-50	N/A	Stand treated timber sale #63-014-97-01, "Over the Hill Again". Disced with skidder per FTP #63-548 in 2004.																																								
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84	3102 - Grass	Nonstocked	11.9		Unspecified	No	Powerline																																								
85	42260 - Natural Pine, Mixed Deciduous	Sapling Well	40.0	27	1-50	N/A	Stand treated timber sale #63-004-95-01, cut 1996. Trenched and seeded approximately 1997. Previous comments: Snow load damage to small area in very southwest portion of stand.																																								
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86	42200 - Natural White Pine	Poletimber Well	10.4	50	81-110	N/A	Stand treated timber sale #63-014-97-01. Conversion to white pine.																																								
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87	6225 - Bog	Nonstocked	1.1		Unspecified	No	Leatherleaf bog.																																								
88	42200 - Natural White Pine	Poletimber Well	9.6	65	81-110	N/A	Stand treated timber sale #63-013-73-A, II-37. Overstory removal. Weevil damage high.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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89 42141 - Planted Mixed Pine, Mixed Deciduous Poletimber Well 26.9 37 51-80 N/A Planted per FTP #C63-341.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	10	Pole/Sapling	6	
White Pine	30	Log/Pole	10	
Black Cherry	10	Pole/Sapling	6	
White Oak	5	Pole/Sapling	6	
Jack Pine	45	Pole	7	37

90 2113 - Forage Crops Nonstocked 1.8 Unspecified Managed Opening Maintained wildlife opening.

91 42121 - Planted Jack Pine, Mixed Deciduous Poletimber Well 37.2 50 81-110 N/A Stand treated FTP #153, II-36; 1974. Scarified with roller chopper and drag chain. Direct seeding of jack pine. Scattered white pine left over from treatment. FTP #R-164, II-36; 1976. Direct seeded.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	20	Pole/Sap/Log	6	
White Pine	15	Pole/Log	7	
Jack Pine	65	Pole	6	50