



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71076

Entry Year 2023

Acreage: 2,972

County Ogemaw

Management Area: Kirtland's Warbler

Stand Examiner: Dale Ekdorn

Legal Description:

T24N R01E Sections 1-3, 10-12, and 14; T24N R02E Section 6

Identified Planning Goals:

The Kirtland's Warbler management area (MA) consists of fifteen units of land that are managed for the federally endangered Kirtland's warbler. Kirtland's warbler management is guided by two documents: Kirtland's Warbler Breeding Range Conservation Plan and Operational Plan for Kirtland's Warbler Habitat Management on Michigan State Forests. Of the 148,017 acres of state forest land that make up the Kirtland's Warbler management area, approximately 90,000 acres, most of the jack pine in the management area, have been identified as essential habitat where management is done in accordance with the Kirtland's Warbler Conservation Plan and Operational Plan. Management on the portion that is not classified as essential habitat will emphasize balancing the age classes of aspen and red pine and regenerating the aging oak resource. Management activities may be constrained or modified based on management recommendations described in the Conservation Strategy. Expected trends within this 10-year planning period are introduced pests and diseases and assuring jack pine regeneration on Kirtland's warbler sites.

Soil and topography:

Terrain is mostly flat to rolling with some steeper terrain in the center and eastern part of the compartment where there is a ridge of hardwoods. Soils include Grayling sand and Newton loamy sand in the uplands and Rifle or Greenwood peats in the bottomlands adjacent to the W. Branch of Big Creek.

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

Compartment is a fairly solid block of state land with the exception of a few larger parcels. Non-state land in and adjacent to the compartment consists of several larger blocks of U.S. Fish and Wildlife parcels managed for the Kirtland Warbler and numerous smaller wooded parcels containing both seasonal and permanent residences. These smaller private parcels are mostly clustered around the town of Damon which is just to the east of the compartment and also in the NE1/4 of Section 1. The land to the north of the compartment in Oscoda County is all USFS land (Huron-Manistee National Forest).

Unique Natural Features:

Kirtland's warbler has been recorded historically and recently on lands within and adjacent to this compartment. There is high potential for occurrence of several T & E species associated with pine barrens communities. Red-shouldered hawk has been documented in the compartment.

Archeological, Historical, and Cultural Features:

None known or detected during fieldwork

Special Management Designations or Considerations:

KW stands within the compartment are designated as High Conservation Value Areas (HCVA). Stands or portions of stands adjacent to W. Branch of Big Creek – a tributary of the Au Sable River - are HCVA's by virtue of its natural river designation.

Watershed and Fisheries Considerations:

W. Branch of Big Creek is a tributary to the Au Sable River – a natural river and Class 1 cold-water trout stream.

Wildlife Habitat Considerations:

Compartment located west of the Damon townsite in Foster Township. Management in this compartment is directed by the Kirtland's Warbler Management Plan. No managed wildlife openings are in this compartment.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. No known active sand/gravel pits occur in the area, but there appears to be some good potential for sand & gravel within the compartment. The Rose City oil & gas field is just south of the compartment, overlapping some in Section 14. The field is still active but is undergoing secondary recovery operations. Mineral rights in Sec 14 are currently leased and held by production in the

Rose City Field. In addition, mineral rights west of the compartment are currently nominated for leasing. There may be potential for additional oil & gas exploration and development within the compartment. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Vehicle access to exterior and some interior parts of the compartment are good via county seasonal roads and forest roads. Vehicle access to the interior of some parts of the compartment has been restricted due to KW management needs.

Survey Needs:

None necessary at this time

Recreational Facilities and Opportunities:

No developed recreational facilities are within the compartment but the state land is heavily used for dispersed recreation such as hunting and wildlife viewing.

Fire Protection:

This compartment has an abundance of jack pine cover types of mostly younger ages and is in the Zone 3 fire dispatch area. Remnants of numerous small and several large jack pine fires can still be found on the landscape. Compartment has many existing fuel-breaks which are actively maintained. Fuelbreaks within 1 mile of the USFS boundary may qualify for federal money for fuelbreak maintenance.

Additional Compartment Information:

The following reports from the Inventory are attached:

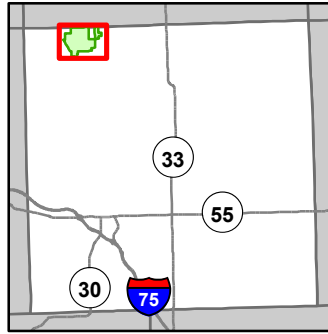
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

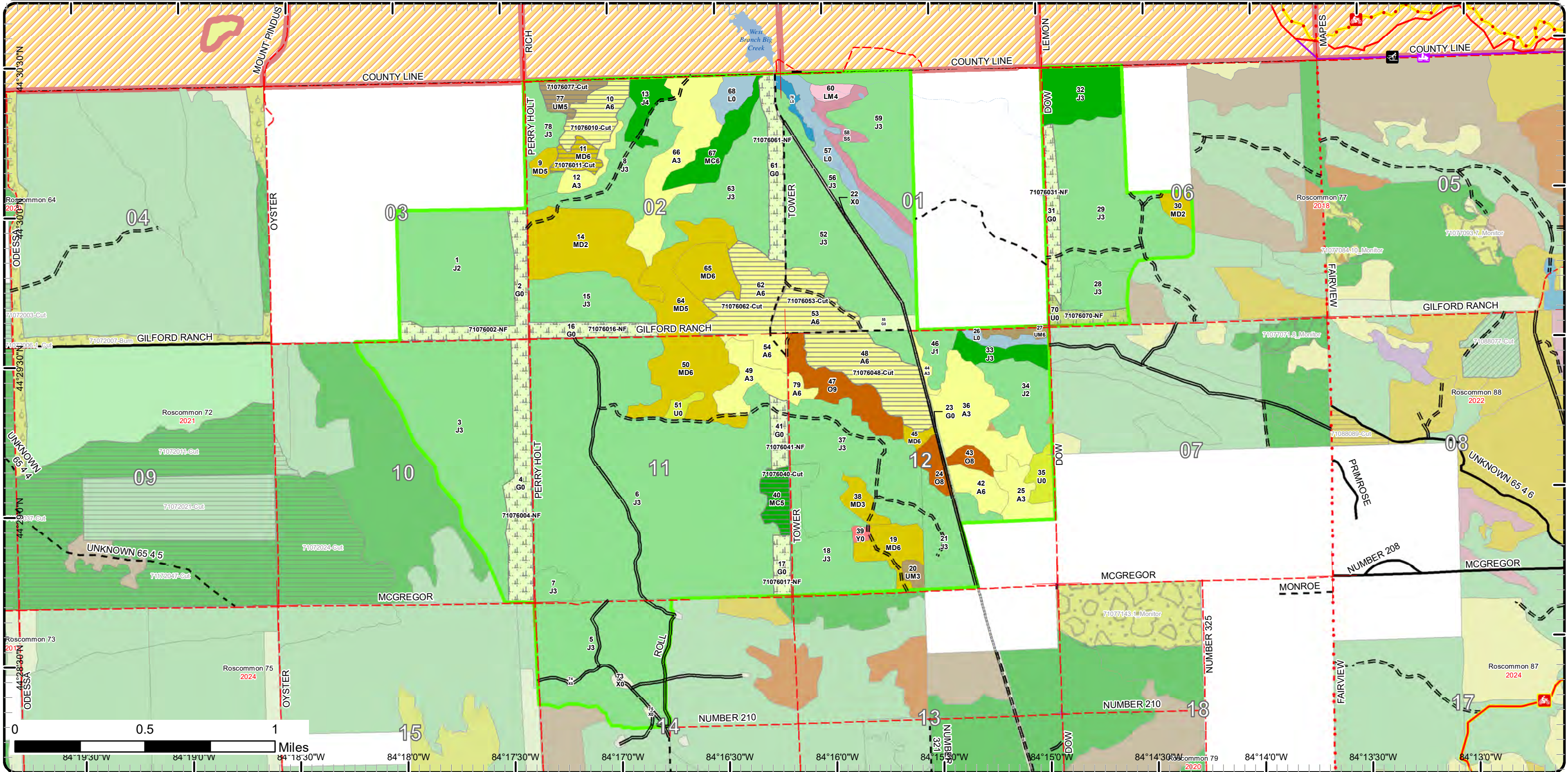
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 76
 T24N, R01E, Sec. 01-03, 10-12, 14
 T24N, R02E, Sec. 06
 County: Ogemaw
 Unit: Roscommon
 Mgmt Area: Kirtland's Warbler
 YOE: 2023
 Acres: 2971.7 GIS Calculated
 Examiner: Dale Ekdorn
 Map Revised: 4/11/2022
 Map Phase: Post-Review

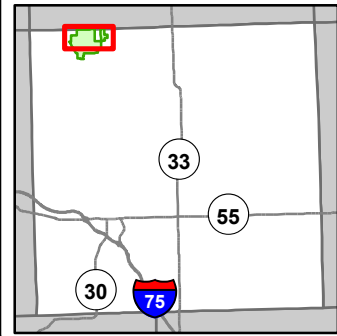


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Designated ATV
- Designated Snowmobile Trails
- ▲ Berms
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- 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
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland
- 730 - Mud Flats
- 790 - Other Bare/Sparsely Vegetated

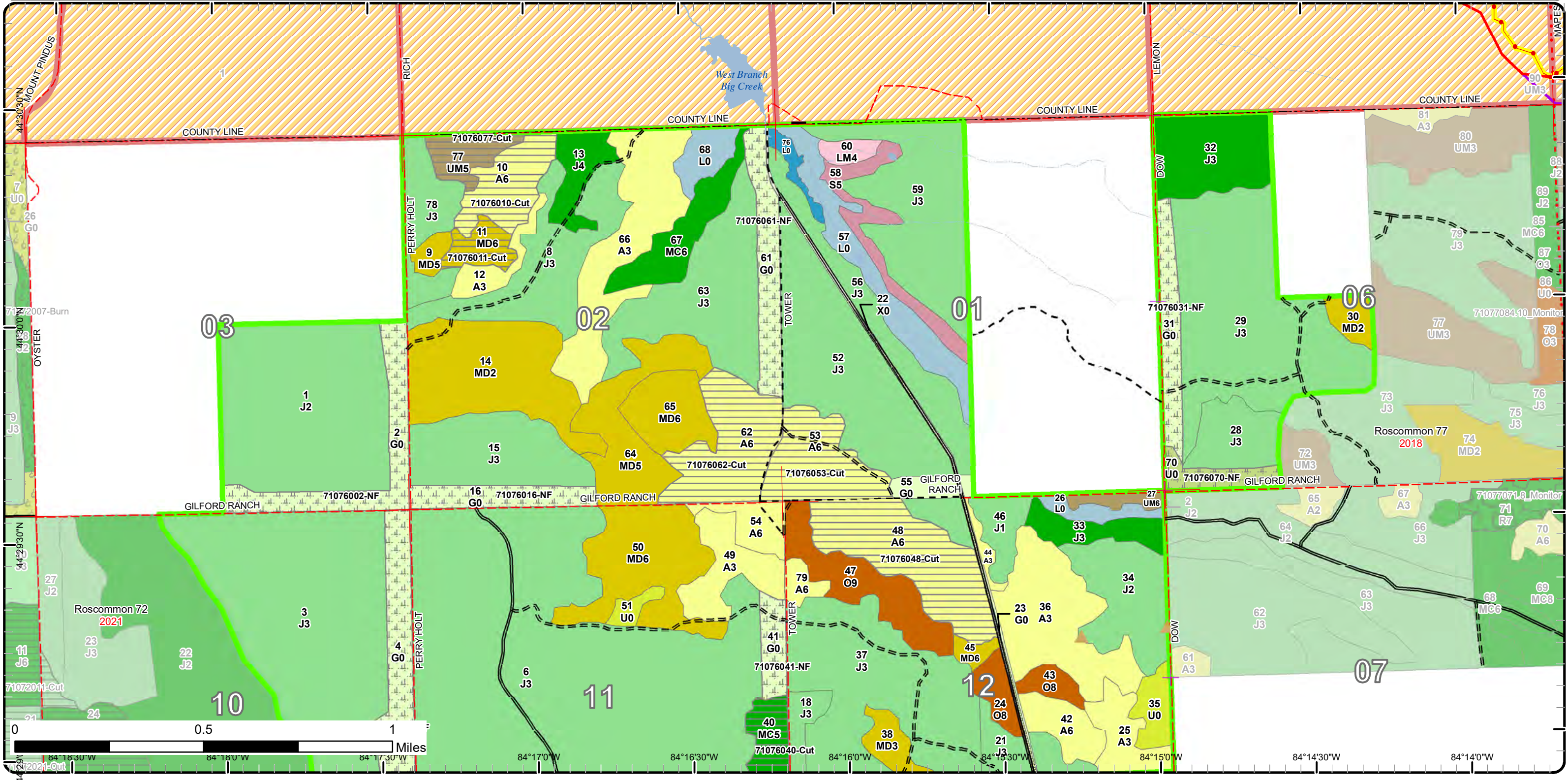


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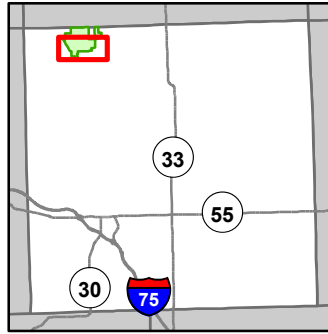


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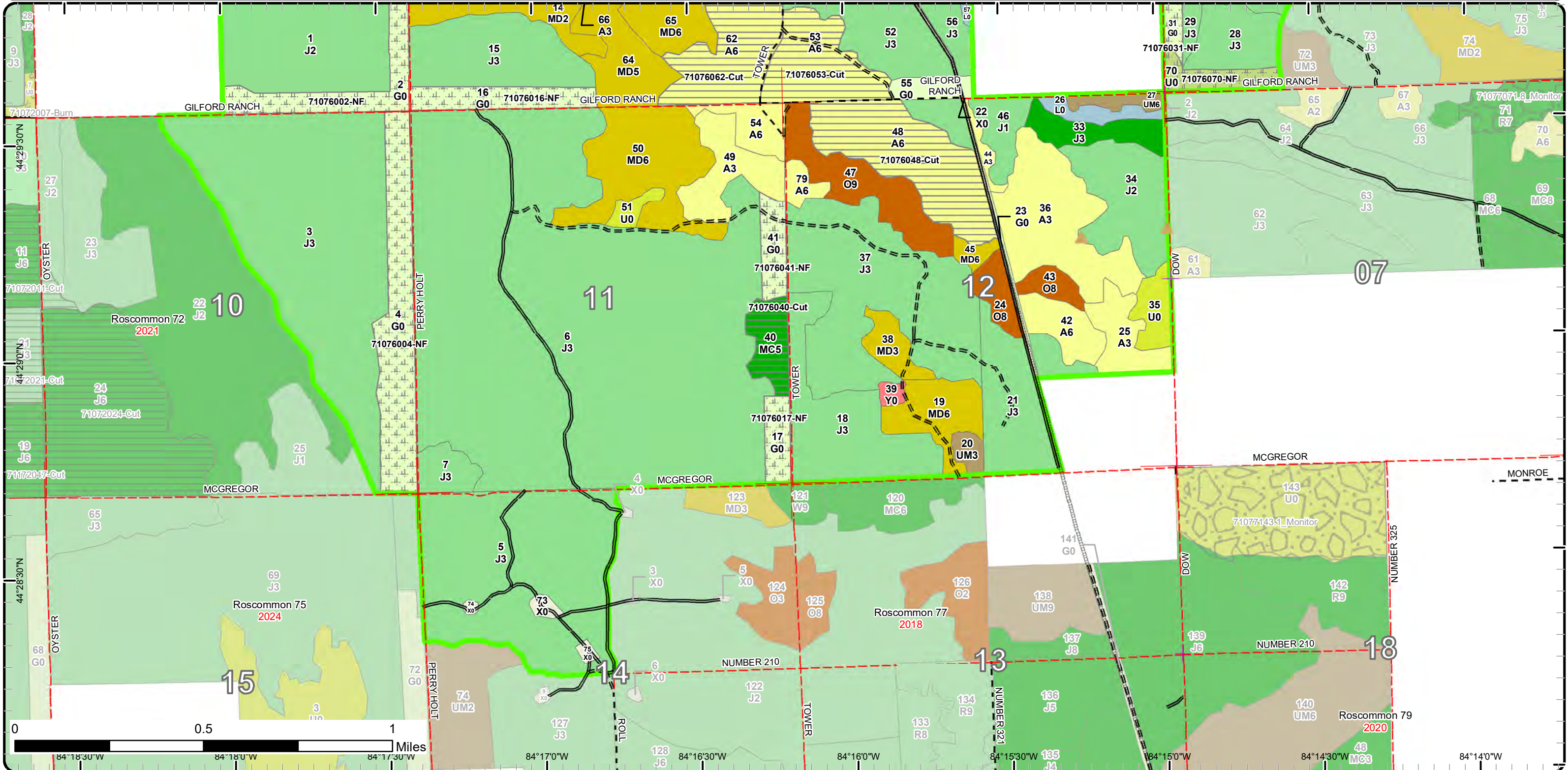


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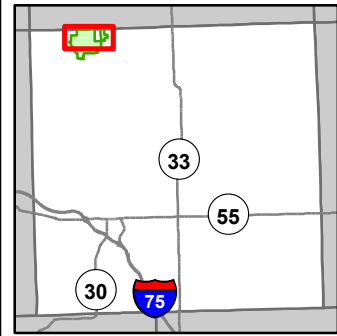


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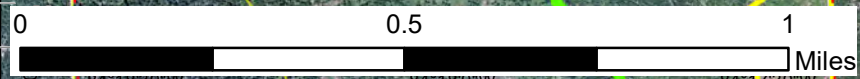
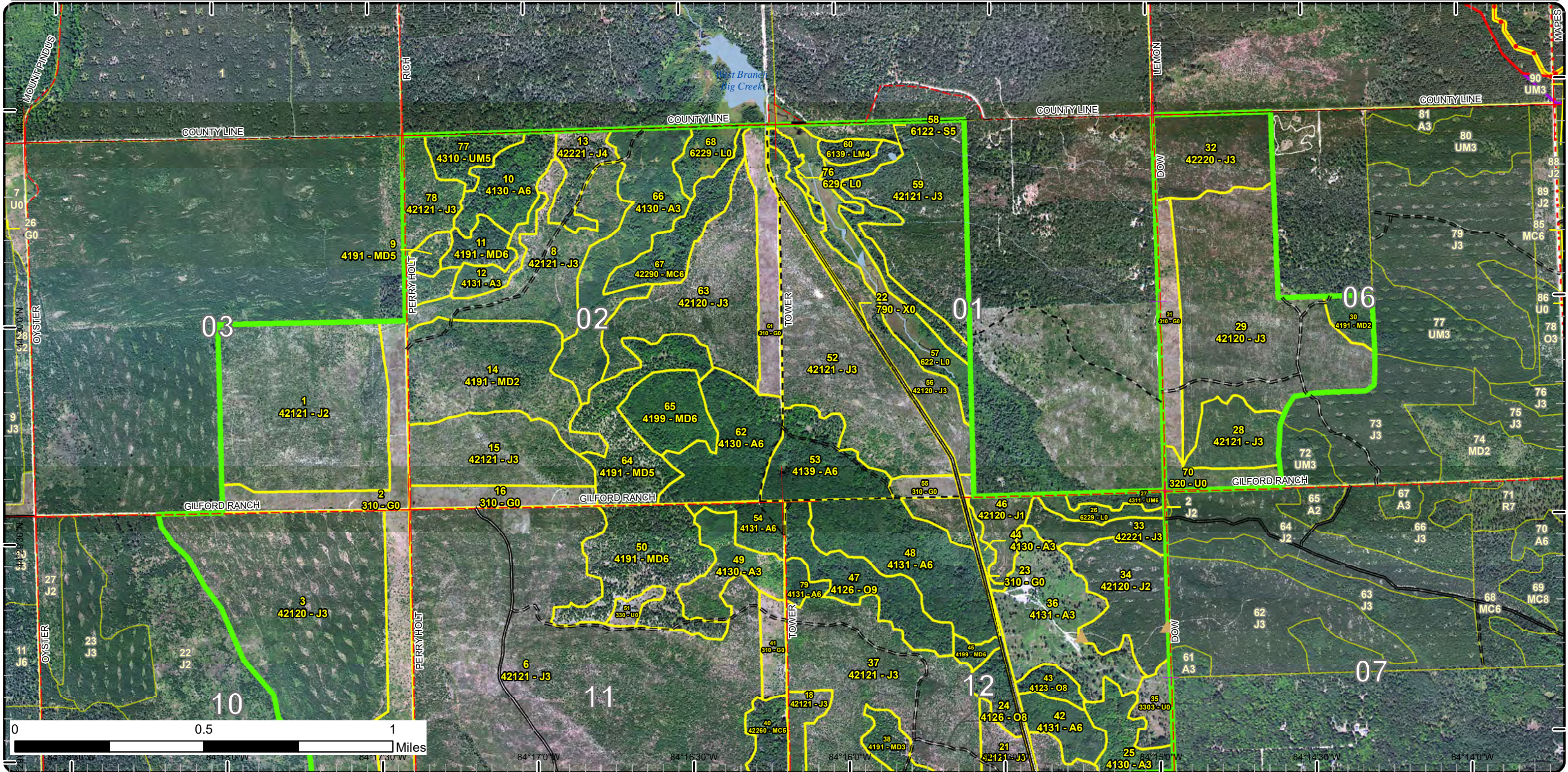


Stand Boundary Map

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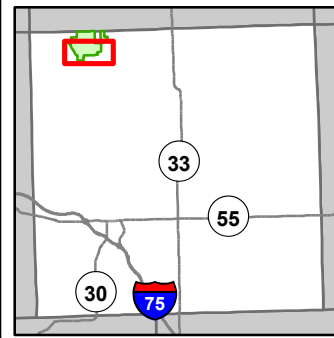


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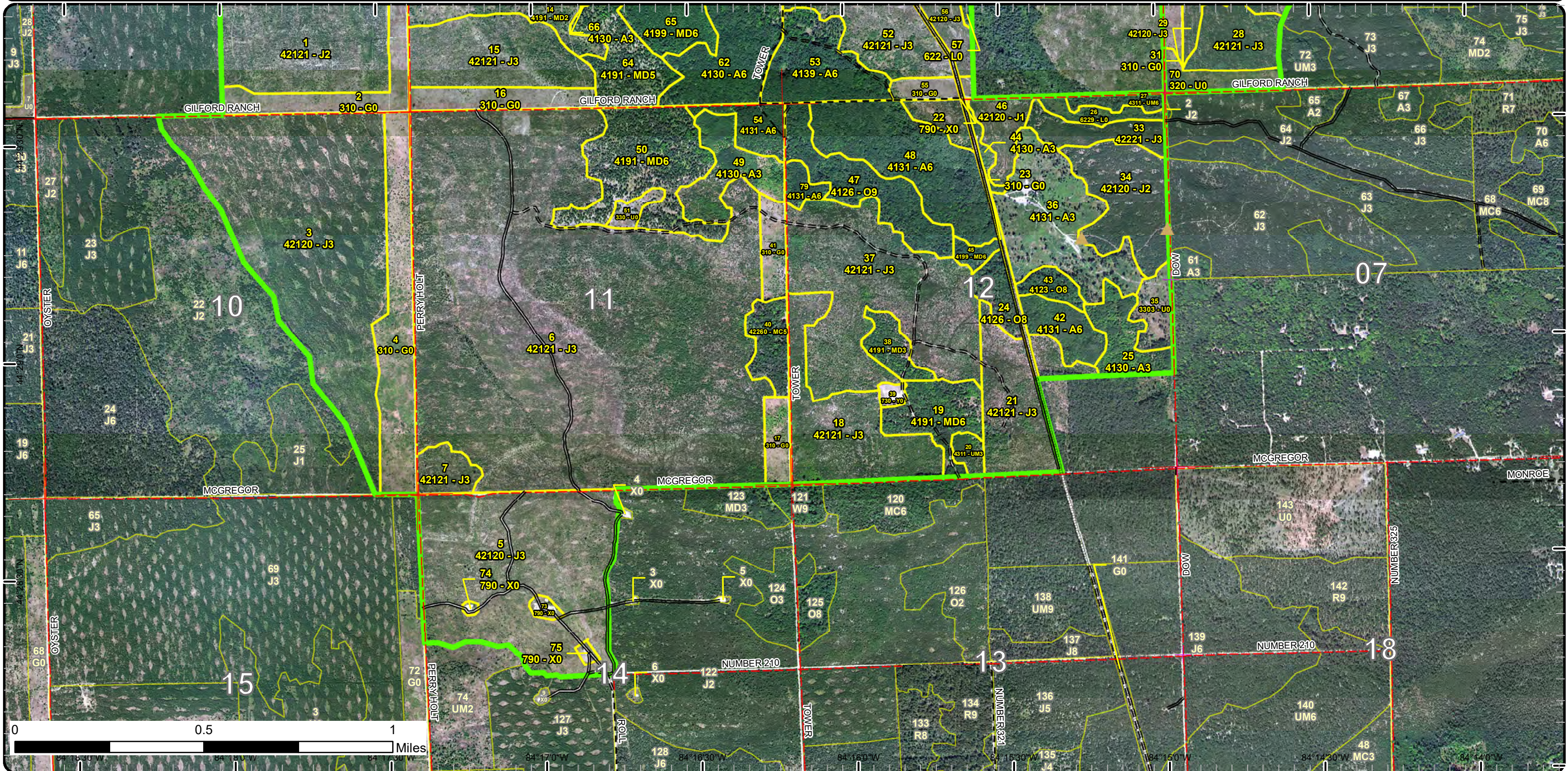
84°17'0" W 84°16'30" W 84°16'0" W 84°15'30" W 84°15'0" W

Stand Boundary Map



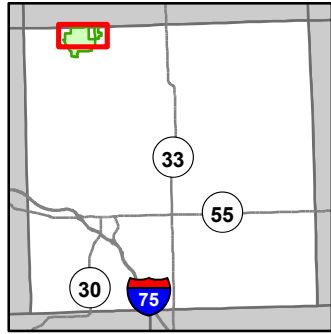
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Special Conservation Areas

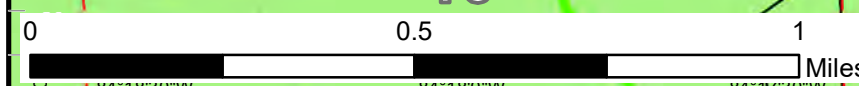
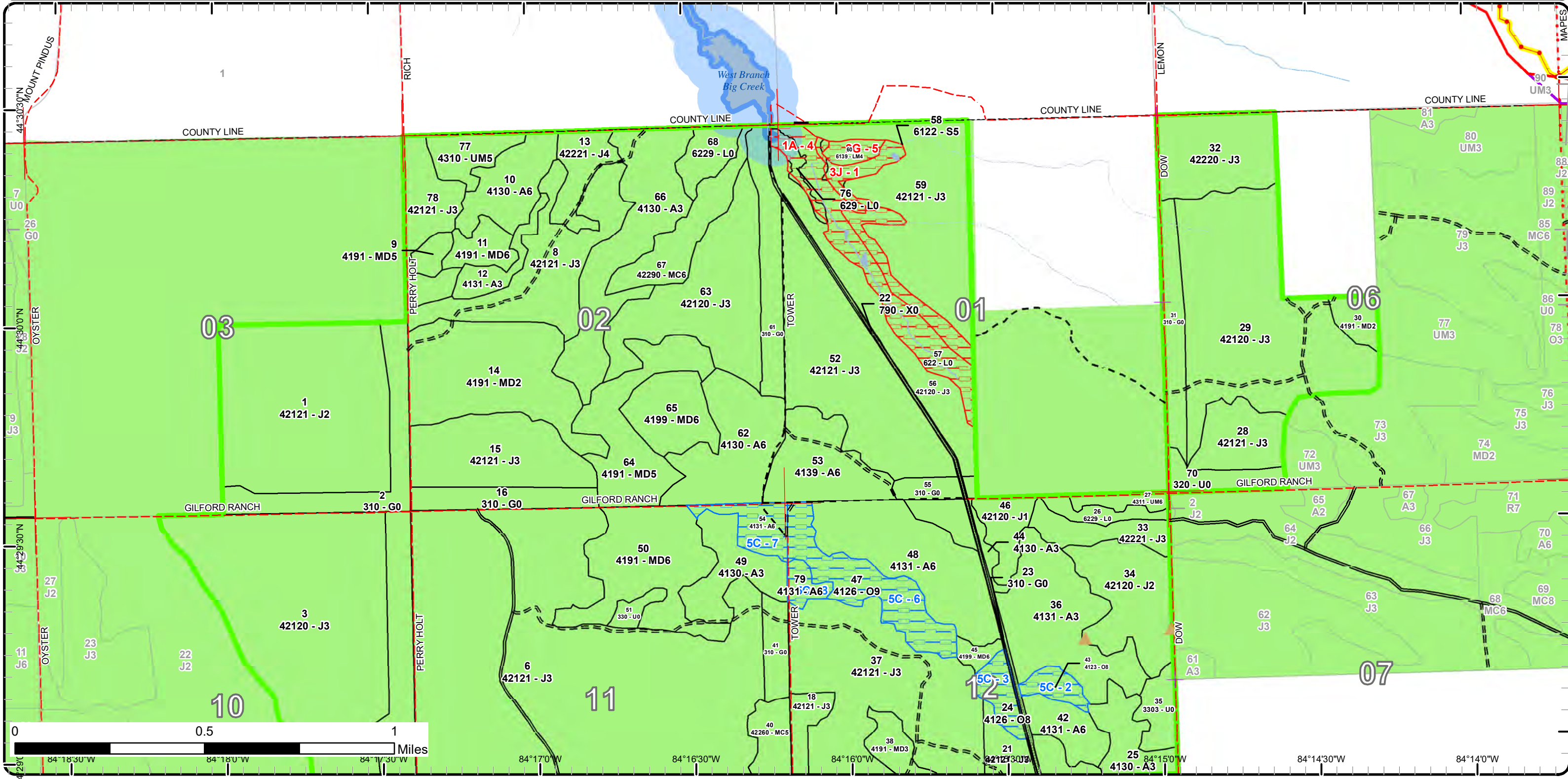
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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- 2G: Too wet (sensitive soils, does not include access issues)

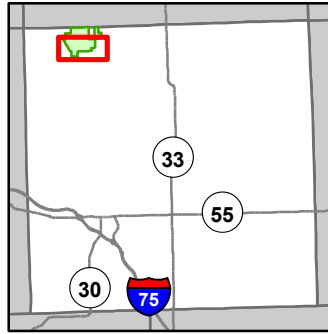
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams



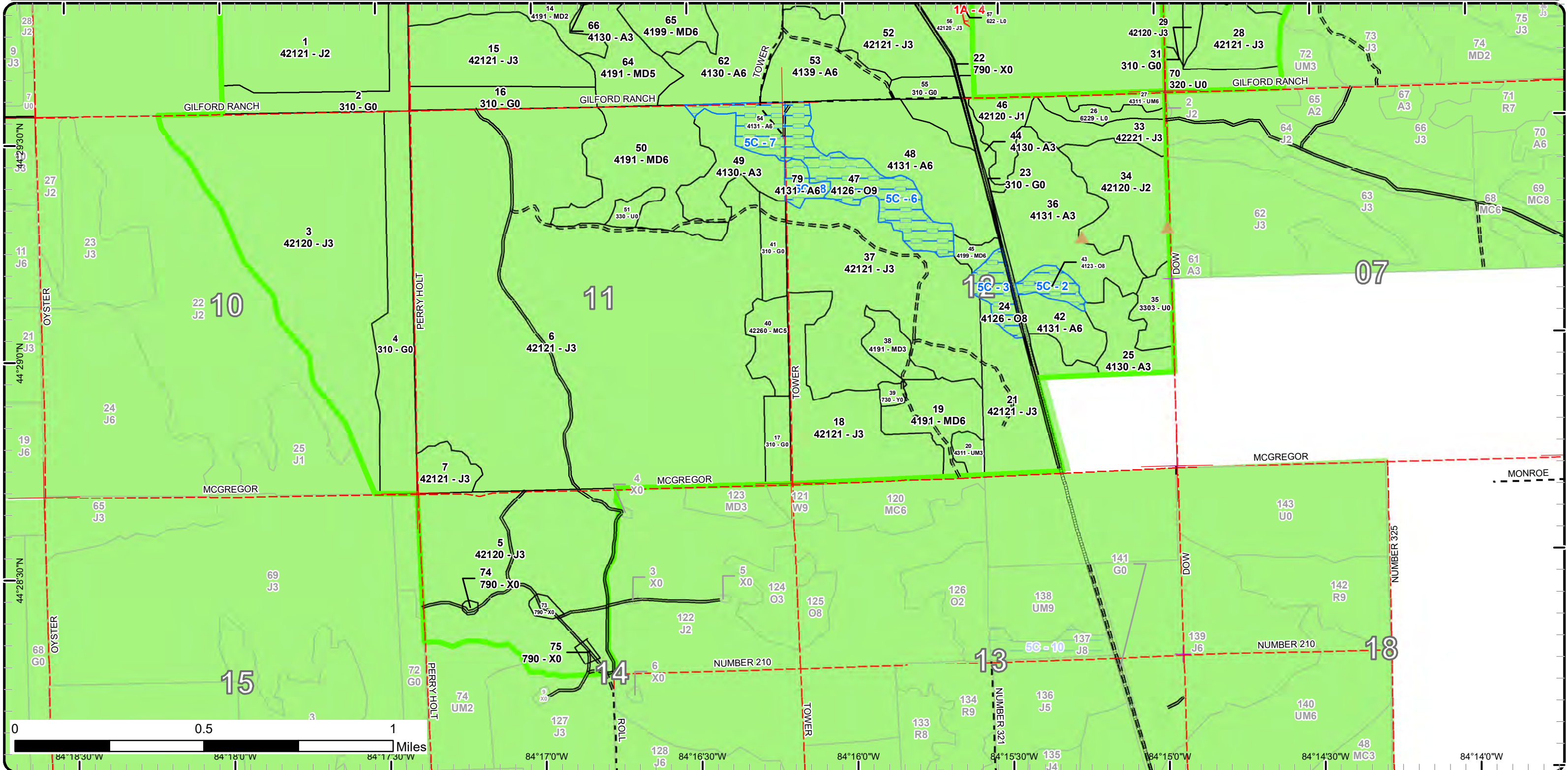
44°29'00"N
84°18'30"W
84°17'00"W
84°16'30"W
84°16'00"W
84°15'30"W
84°14'30"W
84°14'00"W

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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	59	100	19	0	42	114	46	0	0	0	0	0	0	0	0	0	0	380
Bare/Sparsely Vegetated	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Herbaceous Openland	189	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	189
Jack Pine	0	0	1692	180	17	0	0	0	0	0	0	0	0	0	0	0	0	0	1888
Low-Density Trees	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Mixed Forest	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Lowland Shrub	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	21
Mixed Upland Deciduous	0	0	9	0	235	16	0	0	0	4	0	0	0	0	0	0	0	0	264
Natural Mixed Pines	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	15	41
Oak	0	0	0	0	0	0	0	0	0	35	18	0	0	0	0	0	0	0	53
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	5	0	0	15	7	0	0	0	0	0	0	0	0	0	0	0	27
Upland Shrub	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	293	59	1806	199	252	73	147	46	6	39	18	0	21	0	0	0	0	15	2973



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 76
Total Compartment Acres: 2,972

Commercial Harvest - 207
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	167	0	0	0	0	0	0	0	0	167
Mixed Upland Deciduous	11	0	0	0	0	0	0	0	0	11
Natural Mixed Pines	15	0	0	0	0	0	0	0	0	15
Upland Mixed Forest	15	0	0	0	0	0	0	0	0	15
Total	207	0	0	0	0	0	0	0	0	207

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	207	0	0	0	0	0	0	188		395
Next Step	0	52	26	0	0	52	207	0	15	351
Total	207	52	26	0	0	52	207	0	203	746



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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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Approved Treatments:

2	71076002-NF	33.9	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
<p><u>Prescription</u> periodically burn or masticate to maintain as a fuelbreak</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 /2022</p>										
4	71076004-NF	52.8	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland	No
<p><u>Prescription</u> periodically burn or masticate to maintain as a fuelbreak</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 /2022</p>										
10	71076010-Cut	26.4	4130 - Aspen	Poletimber Well	49		Harvest	Clearcut with Retention	413 - Aspen Even-Aged	No
<p><u>Prescription</u> cut for aspen management, mark a few areas out which are heavy to oak and red pine for retention especially if along the road to the north,</p> <p><u>Specs:</u> possibly leave M6 part for retention also, use drumming log spec.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any combination of aspen and other species to a fully stocked stand</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 /2022</p>										



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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11	71076011-Cut	11.3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	49	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest and trench/plant red pine with full suite of tools including chipping of the tops, mark white oak or just leave all white oak for
Specs: seed/diversity, no retention due to small size of stand, areas of A3 can be left un-trenched/un-planted

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

Acceptable fully stocked red pine plantation
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

16	71076016-NF	18.4	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription periodically burn or masticate to maintain as a fuelbreak
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

17	71076017-NF	10.0	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription periodically burn or masticate to maintain as a fuelbreak
Specs:

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31	71076031-NF	22.5	310 - Herbaceous Openland	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> periodically burn or masticate to maintain as a fuelbreak</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 /2022</p>											

40	71076040-Cut	14.7	42260 - Natural Pine, Mixed Deciduous	Poetimber Medium	72	81-110	Harvest	Clearcut	310 - Herbaceous Openland		No
<p><u>Prescription</u> Clearcut and incorporate into fuel break to north and south, no retention due to non-forested management objective</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> None</p> <p><u>Regen:</u></p> <p><u>Other</u> after cutting, periodically burn or masticate to maintain as a fuelbreak</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

41	71076041-NF	11.4	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> periodically burn or masticate to maintain as a fuelbreak</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 /2022</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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48	71076048-Cut	58.7	4131 - Aspen, Oak	Poletimber Well	58		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription final harvest for aspen management, treatment area may be smaller or larger than prescription depending on terrain, mark oaks - esp. WO -
Specs: to leave for mast if treated, use drumming log spec.

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

Acceptable Any combination of aspen and other species to a fully stocked stand
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

53	71076053-Cut	35.8	4139 - Aspen, Mixed Deciduous	Poletimber Well	58		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription final harvest for aspen management. try to have them chip tops and cut during dormant season, avoid steep terrain along Guilford Ranch
Specs: Road and southwest part of stand, avoid vernal ponds and potholes with steep sides in SW part of stand and also north end of stand, old RR grade running thru south and middle of stand, leave some of the brushy areas on north edge for retention - north of 2T, treatment area will most likely be smaller than what was prescribed due to elimination of vernal ponds, steep terrain, and potholes.

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

Acceptable Any combination of aspen and other species to a fully stocked stand
Regen:

Other See treatment history for possible shape of actual cut
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

61	71076061-NF	26.7	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
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Prescription periodically burn or masticate to maintain as a fuelbreak
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

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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
62 71076062-Cut	45.6	4130 - Aspen	Poletimber Well	61		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> final harvest for aspen age class distribution. mark some oak in clumps for mast, especially where white oak is heavy. use drumming log <u>Specs:</u> spec. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any combination of aspen and other species to a fully stocked stand <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										
70 71076070-NF	12.4	320 - Upland Shrub	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<u>Prescription</u> periodically burn or masticate to maintain as a fuelbreak <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										
77 71076077-Cut	14.6	4310 - Pine, Oak Mix	Poletimber Medium	49	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription</u> final harvest and trench/plant red pine with full suite of tools including chipping of the tops, mark out a few areas for retention along the <u>Specs:</u> county line road which are heavy to red pine poles. <u>Next Step</u> SitePrep, Trenching; SitePrep, Roller Chopping; Planting, Initial Plant; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; <u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Acceptable</u> fully stocked red pine plantation <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022										

Total Treatment 395.2
Acreage Proposed:

Report 4 – Site Conditions

Roscommon Mgt. Unit
Dale Ekdom : Examiner

Compartment: 76
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	1A	2G	3J
379	360	19	0	Aspen	19			
11	11	0	0	Bare/Sparsely Vegetated				
189	189	0	0	Herbaceous Openland				
1888	1888	0	0	Jack Pine		0		
17	17	0	0	Low-Density Trees				
6	0	0	6	Lowland Mixed Forest			5	0
61	21	0	40	Lowland Shrub		40		1
21	0	0	21	Lowland Spruce/Fir		0		21
265	265	0	0	Mixed Upland Deciduous				
41	41	0	0	Natural Mixed Pines				
53	0	53	0	Oak	53			
3	3	0	0	Sand, Soil				
26	26	0	0	Upland Mixed Forest				
12	12	0	0	Upland Shrub				
2,972	2,832	72	67	Total Forested Acres	72	40	5	22
	95%	2%	2%	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	3J: Water quality / BMPs (stream, river, or lake)	22	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: low/wet stand of black spruce poles and WP SL and XL, stand is long and narrow running along east bank of WB of Big Creek which is a tributary to Au Sable River - natural river, contains a few small inclusions of R9/W9 and A9 in draws leading to the creek							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 76

Dale Ekdorn : Examiner

Year of Entry: 2023

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	1A: Federal/State/Local Law	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Trib to Nat River							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
1	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	125.2	16	Immature	N/A	planted in 2006 to jack pine for KW but not in opposing weave in most of stand																									
<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>Jack Pine</td> <td>80</td> <td>Sapling</td> <td>1</td> <td>16</td> </tr> <tr> <td>Pin Cherry</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>15</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	80	Sapling	1	16	Pin Cherry	5	Sapling	1		Black/Red (Hybrid) Oak	15	Sapling	2						
Canopy Species	% Cover	Size Class	DBH	Age																												
Jack Pine	80	Sapling	1	16																												
Pin Cherry	5	Sapling	1																													
Black/Red (Hybrid) Oak	15	Sapling	2																													
2	310 - Herbaceous Openland	Nonstocked	33.9			Managed Opening	fuelbreak, periodically burn to maintain fuelbreak, has newly developed orv hill climb in southern leg of stand. Masticated February 2021																									
3	42120 - Planted Jack Pine	Sapling Well	189.4	16	Immature	N/A	cut in 2004 and planted to jack pine for KW in 2006																									
<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>Black/Red (Hybrid) Oak</td> <td>10</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>85</td> <td>Sapling</td> <td>1</td> <td>16</td> </tr> <tr> <td>Pin Cherry</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Black/Red (Hybrid) Oak	10	Sapling	2		Jack Pine	85	Sapling	1	16	Pin Cherry	5	Sapling	1						
Canopy Species	% Cover	Size Class	DBH	Age																												
Black/Red (Hybrid) Oak	10	Sapling	2																													
Jack Pine	85	Sapling	1	16																												
Pin Cherry	5	Sapling	1																													
4	310 - Herbaceous Openland	Nonstocked	52.8		Immature	Managed Opening	fuelbreak with scattered sapling size pin cherry, oak, and jack pine. burned periodically to maintain fuel break. Just jack pine was masticated February 2021.																									
5	42120 - Planted Jack Pine	Sapling Well	138.8	15	Immature	N/A	Planted to jack pine for KW in 2007, north 2/3rds is opposing weave, south 1/3rd is not opposing weave, has 3 active well sites within stand and 1 just south of the stand																									
<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>Pin Cherry</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>90</td> <td>Sapling</td> <td>1</td> <td>15</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Pin Cherry	5	Sapling	1		Black/Red (Hybrid) Oak	5	Sapling	1		Jack Pine	90	Sapling	1	15					
Canopy Species	% Cover	Size Class	DBH	Age																												
Pin Cherry	5	Sapling	1																													
Black/Red (Hybrid) Oak	5	Sapling	1																													
Jack Pine	90	Sapling	1	15																												
6	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	492.7	16	Immature	N/A	planted in 2006 to jack pine for KW, west 1/2 was opposing weave, E1/2 was more of a natural planting pattern or natural regeneration, E1/2 heavier to hardwoods than W1/2.																									
<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>Pin Cherry</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>15</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>75</td> <td>Sapling</td> <td>1</td> <td>16</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Pin Cherry	5	Sapling	1		Quaking Aspen	5	Sapling	2		Black/Red (Hybrid) Oak	15	Sapling	2		Jack Pine	75	Sapling	1	16
Canopy Species	% Cover	Size Class	DBH	Age																												
Pin Cherry	5	Sapling	1																													
Quaking Aspen	5	Sapling	2																													
Black/Red (Hybrid) Oak	15	Sapling	2																													
Jack Pine	75	Sapling	1	16																												
7	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	11.4	14	Immature	N/A	planted in 2008 to jack pine for KW, scattered red pine poles and logs																									
<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>Pin Cherry</td> <td>8</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>15</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>75</td> <td>Sapling</td> <td>1</td> <td>14</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Pin Cherry	8	Sapling	1		Red Pine	2	Pole/Log	8		Black/Red (Hybrid) Oak	15	Sapling	2		Jack Pine	75	Sapling	1	14
Canopy Species	% Cover	Size Class	DBH	Age																												
Pin Cherry	8	Sapling	1																													
Red Pine	2	Pole/Log	8																													
Black/Red (Hybrid) Oak	15	Sapling	2																													
Jack Pine	75	Sapling	1	14																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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8	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	56.7	16	Immature	N/A	planted to jack pine for KW in 2006
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Canopy Species	% Cover	Size Class	DBH	Age
Pin Cherry	20	Sapling	1	
Black/Red (Hybrid) Oak	10	Sapling	1	
Jack Pine	70	Sapling	1	16

9	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	5.4	49	51-80	N/A	stand was cut to 4" in 1994, bulk of stand is 1973 YOO, not much regeneration from 1994 cut and stand is fairly open in spots, scattered larger oaks and RP also, jack pine and oak are both low quality, possibly treat with surrounding stands or keep for future mast in an area of the compartment with little hard mast.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	10	Pole	7	
Jack Pine	20	Pole/Sapling	6	49
Quaking Aspen	5	Pole/Sapling	5	
Pin Cherry	15	Sapling	4	28

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Medium	>20 feet	Sapling

10	4130 - Aspen	Poletimber Well	26.4	49		N/A	pockets of aspen and red maple poles interspersed with areas of oak/pine logs, mix of trembling and big tooth aspen but trembling aspen is declining, SW lobe is pretty much solid red maple (M6), bulk of stand should be cut for aspen management
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Canopy Species	% Cover	Size Class	DBH	Age
White Oak	2	Log	16	
Black/Red (Hybrid) Oak	8	XLog/Log	18	
Quaking Aspen	35	Pole	7	49
Red Pine	8	Log	12	
Bigtooth Aspen	25	Pole/Log	8	
Red Maple	20	Pole	6	48
White Pine	2	Pole	5	

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

11	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	11.3	49	81-110	N/A	mix of younger aspen/oak/JP/RP with older oak and red pine, possibly treat with stand to the north, all species poorer quality except red pine which is somewhat open-grown and bushy in spots.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	20	Log/Pole/XLog	10	
Jack Pine	15	Pole	7	
White Oak	5	Log/Pole	12	
Black/Red (Hybrid) Oak	40	Pole	7	49
Red Maple	10	Pole	5	
Quaking Aspen	10	Pole	5	

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

12	4131 - Aspen, Oak	Sapling Well	10.7	19	Immature	N/A	cut 2003 for KW and regenerated to aspen, south and north end are solid A3, middle part is oak and pin cherry with scattered aspen, middle is less dense but looks to be still fully stocked stand overall
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Canopy Species	% Cover	Size Class	DBH	Age
Pin Cherry	20	Sapling	1	
Black/Red (Hybrid) Oak	20	Sapling	1	
Quaking Aspen	60	Sapling	2	19



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
13	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Poor	17.0	38	1-50	N/A	stand was cut to 4" in 1984 and never planted, now oldest jack pine is pole size with sparse younger jack pine, stand is somewhat of a frost pocket, possible barrens management as KW cut to the south matures																														
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Canopy Species	% Cover	Size Class	DBH	Age																																	
Black/Red (Hybrid) Oak	5	Sapling	2																																		
Jack Pine	65	Pole	6	38																																	
Pin Cherry	25	Sapling	2																																		
Red Pine	5	Pole	8																																		
14	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	72.6	39	1-50	N/A	frost pocket at bottom of hill to the north, cut in 1983 and did not regenerate to fully stocked stand either naturally or from planting, stand is mostly pin cherry and sapling size J/O with scattered jack pine poles, some scattered small aspen pockets, very slow growing																														
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Canopy Species	% Cover	Size Class	DBH	Age																																	
Quaking Aspen	10	Sapling	2	39																																	
Jack Pine	25	Sapling	3	39																																	
Black/Red (Hybrid) Oak	25	Sapling	3	39																																	
15	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	51.0	16	Immature	N/A	planted in 2006 to jack pine for KW																														
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Canopy Species	% Cover	Size Class	DBH	Age																																	
Black/Red (Hybrid) Oak	12	Sapling	2																																		
Pin Cherry	8	Sapling	1																																		
Jack Pine	80	Sapling	1	16																																	
16	310 - Herbaceous Openland	Nonstocked	18.4			Managed Opening	fuelbreak, very scattered pin cherry, oak, and jack pine, periodically burn to maintain fuelbreak. Masticated February 2021																														
17	310 - Herbaceous Openland	Nonstocked	10.0			Managed Opening	fuelbreak with scattered pin cherry, oak, and jack pine, periodically burn to maintain fuelbreak																														
18	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	58.9	14	Immature	N/A	planted in 2008 to jack pine for KW, not in opposing weave throughout most of stand, mix of everything plus the planted jack pine																														
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19	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	24.8	39	51-80	N/A	stand is just reaching pole-size except for areas heavy to aspen which is bigger, stand is a mix of aspen and hardwoods and natural pine, basal area higher in spots where aspen is heavier, not ready for any treatment																																																																
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20	4311 - Pine, Aspen Mix	Sapling Well	5.0	16	Immature	N/A	planted to jack pine for KW in 2006, lots of areas heavy to aspen especially west central part, scattered pole size oak and pine, some aspen is pole size																																																																
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21	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	47.1	18	Immature	N/A	planted jack pine in 2004? for KW but a lot of this stand is heavy to hardwoods																																																																
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22	790 - Other Bare/Sparsely Vegetated	Nonstocked	6.5			No	Pipeline ROW																																																																
23	310 - Herbaceous Openland	Nonstocked	5.4			No	Utility ROW																																																																
24	4126 - White, Black, N. Pin Oak	Sawtimber Medium	10.8	91	81-110	N/A	Stand was thinned in the winter 2014. No treatment recommended this year-of-entry.																																																																
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25	4130 - Aspen	Sapling Well	19.0	26	Immature	N/A																																																							
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26	6229 - Mixed lowland shrub	Nonstocked	7.9		Immature	No	Headwaters of West Branch Big Creek, wet swale with scattered trees and grass, west part has lots of tag alder, east part is more upland with a wet meadow feel. scattered super-canopy white pine																																																						
27	4311 - Pine, Aspen Mix	Poletimber Well	6.6	54	81-110	N/A	Quaking aspen that is declining mixed with jack pine that is declining, long narrow shape and steep slope to wet swale on the south side of stand makes this stand difficult to produce, possibly just leave for diversity or cut and regenerate as much aspen as possible, would be difficult to artificially regenerate jack pine due to slope.																																																						
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28	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	24.0	18	Immature	N/A	came back to aspen in some spots but guessing was seeded in 2004 with KW jack pine stand to the north. Was aspen but now jack pine is more dominant																																																						
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29	42120 - Planted Jack Pine	Sapling Well	131.2	18	Immature	N/A	Seeded to jack pine in 2004. Sparse in a couple spots, but overall stocking is sufficient. Good natural mosaic to regen.																																																						
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30	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	8.8	18	Immature	N/A	came back to aspen after cutting for KW but was partially planted/seeded to jack pine with stand to the SW, despite planting/seeding there is still a few open areas in the stand.																																																						
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31	310 - Herbaceous Openland	Nonstocked	22.5		Immature	Managed Opening	fuelbreak, periodically burn to maintain fuelbreak. Masticated February 2021																																																						



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32	42220 - Natural Jack Pine	Sapling Well	42.2	20	Immature	N/A	Natural regen from 2001 Jacobs Fire. Very thick in some areas. Abundant snags.																																								
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33	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	16.3	28	Immature	N/A	Strange treatment shape on old imagery. This may have been roller chopped or bulldozed for a safety zone at some point. Also possible experiment with Sigma seeder as some of the regen is in tightly spaced rows and has tight tree spacing within rows. No Cultivation records found so called natural regen for now.																																								
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34	42120 - Planted Jack Pine	Sapling Medium	41.7	28	Immature	N/A	Planted to jack pine for KW in opposing weave pattern. Some natural regen mixed in along the south edge.																																								
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35	3303 - Mixed Low Density Trees	Nonstocked	11.9	0	Unspecified	No	Stand was treated in the winter 2014/2015. All red and white pine left and handful of oak left for mast. Not quite forested yet but lots of red maple and pin cherry starting to fill in with scattered aspen and oak and some pines. Should be forested next YOE but probably will never be fully stocked. Somewhat of a frost pocket especially the south end. Check again next YOE inventory cycle.																																								
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36	4131 - Aspen, Oak	Sapling Well	58.6	8	Immature	N/A	Stand was treated in the winter 2014/2015. All the pine was left and average 10 basal area oak left also where present. Now A3 with supercanopy pine and oak and scattered sparse areas with mostly pin cherry																																								
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37	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	115.4	16	Immature	N/A	planted in 2006 to jack pine for KW, most of stand is not opposing weave																																								
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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 Sapling Well 11.1 30 Immature N/A Dukes mix of everything

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Sapling	2	30
Red Pine	10	Sapling	4	
Jack Pine	10	Sapling	2	
White Oak	15	Sapling	2	
Red Maple	20	Sapling	2	30
Black/Red (Hybrid) Oak	25	Sapling	2	30

39 730 - Mud Flats Nonstocked 2.6 No oil well plugged in 1990. UFO hole developing in stand as it's becoming an ORV play/party spot

40 42260 - Natural Pine, Mixed Deciduous Poletimber Medium 14.7 72 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	5	46
Quaking Aspen	5	Pole	9	
Black/Red (Hybrid) Oak	25	Log	14	82
Red Pine	20	Log	12	82
Jack Pine	40	Pole	9	72

Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	Medium	Variable	Sapling
Red Maple	Medium	Variable	Sapling
Jack Pine	Medium	Variable	Sapling

mix of everything and not much quality on any species, larger jack pine is slowly declining but there is a good cohort of jack pine saplings in much of the stand, areas are heavy to aspen or oak also especially on the north end, stand is 2 aged going to all aged, could cut JP/aspen and manage for u.s. oak/JP/RM or treat when u.s. becomes more merchantable or final harvest and incorporate into fuel breaks to north and south

41 310 - Herbaceous Openland Nonstocked 11.4 Managed Opening fuel break with lots of encroaching pin cherry, oak, and jack pine saplings. burn this YOE to maintain as fuelbreak or may hit threshold for forested standing not maintained

42 4131 - Aspen, Oak Poletimber Well 16.0 45 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling/Pole	3	45
White Oak	10	Pole	5	45
Red Oak	30	Pole	6	45
Bigtooth Aspen	50	Pole	7	45
Black Cherry	5	Sapling/Pole	3	45

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	10 - 20 feet	Sapling
Witch Hazel	Medium	5 - 10 feet	Tall Shrub

Could not find sale records. Has some dense oak stump sprouts with occasional aspen on the top of the ridge to the north. Dense aspen with an occasional oak in the southeast. Steeper slopes on the edges.

43 4123 - Red Oak Sawtimber Medium 7.5 91 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log	8	
Red Oak	70	Log/Pole	11	91
Red Pine	20	Log	16	129

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Maple	Medium	>20 feet	Sapling

Stand was thinned in fall 2014. No treatment recommended this year-of-entry.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
44	4130 - Aspen	Sapling Well	3.5	19	Immature	N/A	A3 with some spots that are A1/A2, scattered jack pine
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		40	Sapling	1	19		
Jack Pine		5	Sapling	1	19		
Quaking Aspen		30	Sapling	1	19		
Black/Red (Hybrid) Oak		5	Sapling	1	19		
Black Cherry		20	Sapling	2	19		
45	4199 - Other Mixed Upland Deciduous	Poletimber Well	4.2	87	51-80	N/A	aspen/oak knoll, fairly equal mix of aspen and oak, solid aspen with scattered oak or oak with scattered aspen, oak is decent to poor quality red oak with some black and white oak also, aspen and oak both growing well, cut now with aspen to north or hold and cut with oak to the west in 10 years.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		15	Pole	8	58		
Bigtooth Aspen		35	Pole/Log	8	58		
Red Oak		40	Log	12	87		
White Oak		10	Log	13	87		
Sub-Canopy Species		Density	Avg. Height	Size			
Witch Hazel		Low	Variable	Tall Shrub			
Red Maple		Low	Variable	Sapling			
46	42120 - Planted Jack Pine	Sapling Poor	14.1	19	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Northern Pin Oak		5	Sapling	1	19		
Jack Pine		85	Sapling	1	19		
Black Cherry		10	Sapling	1	19		
47	4126 - White, Black, N. Pin Oak	Sawtimber Well	34.7	87	111-140	N/A	middle of stand is mostly oak and grades into O/A to the north and south as you drop off the top of the ridge, top of ridge is WO/BO, rest of stand is RO/WO, oak quality isn't that great but both oak and aspen are growing well and should hold another 10 years.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		5	Pole	6			
Bigtooth Aspen		15	Pole	9			
White Oak		25	Log	10	87		
Black/Red (Hybrid) Oak		55	Log	10	87		
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		Medium	Variable	Sapling			
Witch Hazel		Medium	Variable	Tall Shrub			
48	4131 - Aspen, Oak	Poletimber Well	58.7	58		N/A	aspen is mostly BTA with scattered oak SL, also areas heavy to oak interspersed within aspen clones, cut as much of this stand as possible given the steeper terrain if desired
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		15	Pole	8	58		
Red Oak		25	Log	12	87		
White Oak		15	Log	13	87		
Bigtooth Aspen		45	Pole/Log	8	58		
Sub-Canopy Species		Density	Avg. Height	Size			
Witch Hazel		Low	Variable	Tall Shrub			
Red Maple		Low	Variable	Sapling			
49	4130 - Aspen	Sapling Well	25.7	19	Immature	N/A	cut 2003 for KW and regenerated to mostly aspen so did not plant this area to jack pine
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		70	Sapling	2	19		
Black/Red (Hybrid) Oak		10	Sapling	1	19		
Pin Cherry		15	Sapling	1			
Red Maple		5	Sapling	2	19		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
50	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	56.3	39	51-80	N/A	mix of everything but mostly jack pine poles and MO stump sprouts, SE arm has inclusion of oak SL with lots of blowdown and heavy FW theft occurring despite fact that roads leading to this inclusion were planted closed when the warbler cuts were planted, most species are just reaching pole size.																																																														
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51	330 - Low-Density Trees	Nonstocked	4.7			No	Was a site for oil well from 1989 but the permit was terminated, somewhat of a frost pocket so natural regeneration is not taking over site very fast.																																																														
52	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	99.5	16	Immature	N/A	planted in 2006 to jack pine for KW, scattered hardwood saplings also																																																														
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53	4139 - Aspen, Mixed Deciduous	Poletimber Well	35.8	58		N/A	mostly pole-size TA/RM but some BTA on south end with oak SL, cut as much of this stand as possible given steep terrain and vernal ponds/potholes																																																														
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55	310 - Herbaceous Openland	Nonstocked	7.6			No	fuelbreak, periodically burn to maintain fuelbreak. Masticated February 2021.																																																														



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57	622 - Lowland Shrub	Nonstocked	35.8			No	Series of beaver floodings on Big Creek																																																						
58	6122 - Black Spruce	Poletimber Medium	21.2	118		N/A	low/wet stand of black spruce poles and WP SL and XL, stand is long and narrow running along east bank of WB of Big Creek which is a tributary to Au Sable River - natural river, contains a few small inclusions of R9/W9 and A9 in draws leading to the creek																																																						
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59	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	79.0	27	1-50	N/A	cut 1993 and planted to jack pine April 1995																																																						
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60	6139 - Mixed Lowland Forest	Poletimber Poor	5.6	71		N/A	low/wet drainage are with TA and black spruce, stand is not well stocked and has lots of tag alder in the u.s., will probably be classified as non-forested (622) after TA dies out unless black spruce takes over, small patch of W9 in NW corner.																																																						
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61	310 - Herbaceous Openland	Nonstocked	26.7			No	fuelbreak, periodically burn to maintain fuelbreak. Masticated February 2021																																																						
62	4130 - Aspen	Poletimber Well	45.6	61		N/A	stand has north aspect, top of slope (south) is mostly pole-size BTA with scattered oak and grades into SL oak over pole-size TA to the north (bottom of slope), scattered J/R pine poles thru-out especially the north border, oak is not great quality, stand could hold 10 years although TA is starting to develop hypox. canker, steeper terrain in spots, north end has old narrow gauge RR grade																																																						
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63	42120 - Planted Jack Pine	Sapling Well	70.8	16	Immature	N/A	planted 2006 to jack pine for KW																																														
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64	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	44.8	39	1-50	N/A	stump sprout oak/RM and aspen poles with scattered RP SL and JP poles, very open in most spots, other parts are well stocked with pin cherry/RM, somewhat of a frost pocket, no treatment necessary this time around																																														
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65	4199 - Other Mixed Upland Deciduous	Poletimber Well	25.9	39	1-50	N/A	cut to 4" in 1983, nice stand of stump sprout/seed oak and red maple with scattered aspen and RP, also scattered larger oak (6" - 8" dbh)																																														
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66	4130 - Aspen	Sapling Well	59.9	19	Immature	N/A	cut in 2003 for KW and regenerated to aspen																																														
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67	42290 - Natural Mixed Pine	Poletimber Well	25.9	58	81-110	N/A	stand is a steep bank with jack pine poles sloping towards the west/north down to low wet ground with black spruce and tamarack, retain as buffer on bog/"L" to the west/north																																														
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68	6229 - Mixed lowland shrub	Nonstocked	12.2			No																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
70	320 - Upland Shrub	Nonstocked	12.4		Immature	Managed Opening	fuelbreak which was once heavy to aspen but it has been burned already several time, now grass with scattered small aspen clones and open areas with pin cherry and some oak, burned in last 10 years for fuelbreak maintenance. Masticated February 2021																																						
73	790 - Other Bare/Sparsely Vegetated	Nonstocked	2.5				oil/gas infrastructure																																						
74	790 - Other Bare/Sparsely Vegetated	Nonstocked	0.8				oil/gas infrastructure																																						
75	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.4				oil well																																						
76	629 - Mixed non-forested wetland	Nonstocked	5.1			No	Lowland brush with scattered conifers and some hardwoods, other spots are forested with spruce and other conifers, transition zone between upland to the west and lowland to the east																																						
77	4310 - Pine, Oak Mix	Poletimber Medium	14.6	49	51-80	N/A	cut to 4" in 1994' but left red pine and some oak for seed, bulk of canopy red pine is 1973 YOO or older, oak and jack pine is poor quality and starting to decline, recommend cutting with aspen stand to the east and south and trenching/planting red pine.																																						
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78	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	28.1	16	Immature	N/A	cut 2003 and planted to Jack pine in 2006																																						
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79	4131 - Aspen, Oak	Poletimber Well	5.9	58	81-110	N/A	nice big tooth aspen stand mixed with r/b/w oak, growing well, should hold 10 more years no problem, on hill sloping to the south																																						
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