



# Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33109

Entry Year 2023

Acreage: 1,523

County Menominee

Management Area: Menominee End Moraine

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**Revision Date:** 2021-06-04

**Stand Examiner:** Dan Beaudou

**Legal Description:**

T35N, R29W, Sections 11, 12, 13, 14, 25, and 36.

T35N, R28W, Sections 19, 30, and 31.

**Identified Planning Goals:**

The compartment is within a landscape of more sandy soils containing aspen, pine and oak. Upland types are aspen, mixed deciduous, mixed conifer, oak, and white pine. Lowland types consist of black spruce, hardwood and open lowland. Recommended treatments on mature aspen retaining some oak seed trees then planting pine to promote the long term goal of the Oak-Pine Barrens natural community, shelterwood harvest leaving a low basal area of mature oak/pine, and treatments on the Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA with opportunities for expansion but dependent upon funding.

Oak wilt epicenters have been treated in the past by clearcutting leaving pine and vibratory plowing to sever oak root grafts. Oak wilt surveillance with treatment of epicenter will continue contingent upon funding.

**Soil and topography:**

Soils include well drained sandy over loamy soils and excessively drained sands. Major soil types include Grayling Sands and Pemene-Rubicon complex. Topography is nearly level to moderately steep.

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

Ownership around this compartment is a mix of State, private and County. Most of the private land is small to 40 acre parcels with some larger land owners and clubs. Land use around this compartment is mainly forest, with a mix of private residences. The county maintains a recreation site between the two blocks of this compartment. There is mineral exploration in progress around the northern block of this compartment.

**Unique Natural Features:**

This compartment is part of the Shakey Lakes Oak-Pine Barrens ERA containing some of the Element Occurrence for the oak-pine barrens natural community.

**Archeological, Historical, and Cultural Features:**

None known.

**Special Management Designations or Considerations:**

Shakey Lakes Oak-Pine Barrens ERA

**Watershed and Fisheries Considerations:**

Compartment 33109: NLMMU – Jennifer Johnson: This compartment contains Muskrat Lake and small unnamed ponds. A 100' buffer is recommended around these water bodies.

Given recent Great Lakes high-water levels, standing water in the form of vernal pools or temporary waterbodies may exist throughout all compartments. Therefore, buffers are recommended to protect these areas in accordance with Best Management Practices.

**Wildlife Habitat Considerations:**

-Wildlife Division-

**Mineral Resource and Development Concerns and/or Restrictions**

No known potential exists for commercial oil & gas production in this part of the state. The closest active sand/gravel pits are about five miles to the east. There is good sand & gravel potential in the compartment on the uplands. Aquila's Back Forty project is adjacent to the north block of this Compartment and there may be potential for discovery of additional sulfide deposits, like Back Forty, in the area. Mineral rights adjacent to the north block on the northeast side of the compartment are currently under lease. 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:**

Most of the compartment has good access by conventional two-wheel drive vehicles.

**Survey Needs:**

None at this time.

**Recreational Facilities and Opportunities:**

No developed recreational opportunities on state land in this area. There is a county campground between the two blocks of this compartment. Opportunities for hunting, hiking, wildlife viewing, photography, ORV and trapping currently exist.

**Fire Protection:**

This area is prone to fire due to the droughty soils, timber types and is within the Shakey Lakes Wildfire Zone Dispatch area. Access for fire protection is very good. There is an abundant source of water including Shakey Lakes and the Menominee River.

**Additional Compartment Information:**

Yearly oak wilt monitoring has detected oak wilt epicenters within the compartment. Any oak wilt identification that occurs during this 10 year inventory period can be treated by using oak wilt treatment guidelines. The oak wilt epicenters will be identified and the appropriate distance away from the center will be cleared for vibratory plow operations, harvested and/or herbicide to minimize the spread of oak wilt.

**The following reports from the Inventory are attached:**

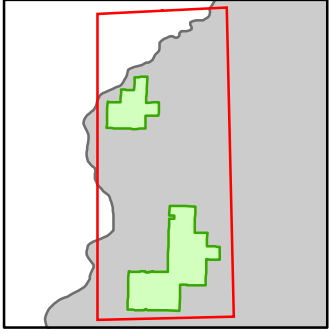
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

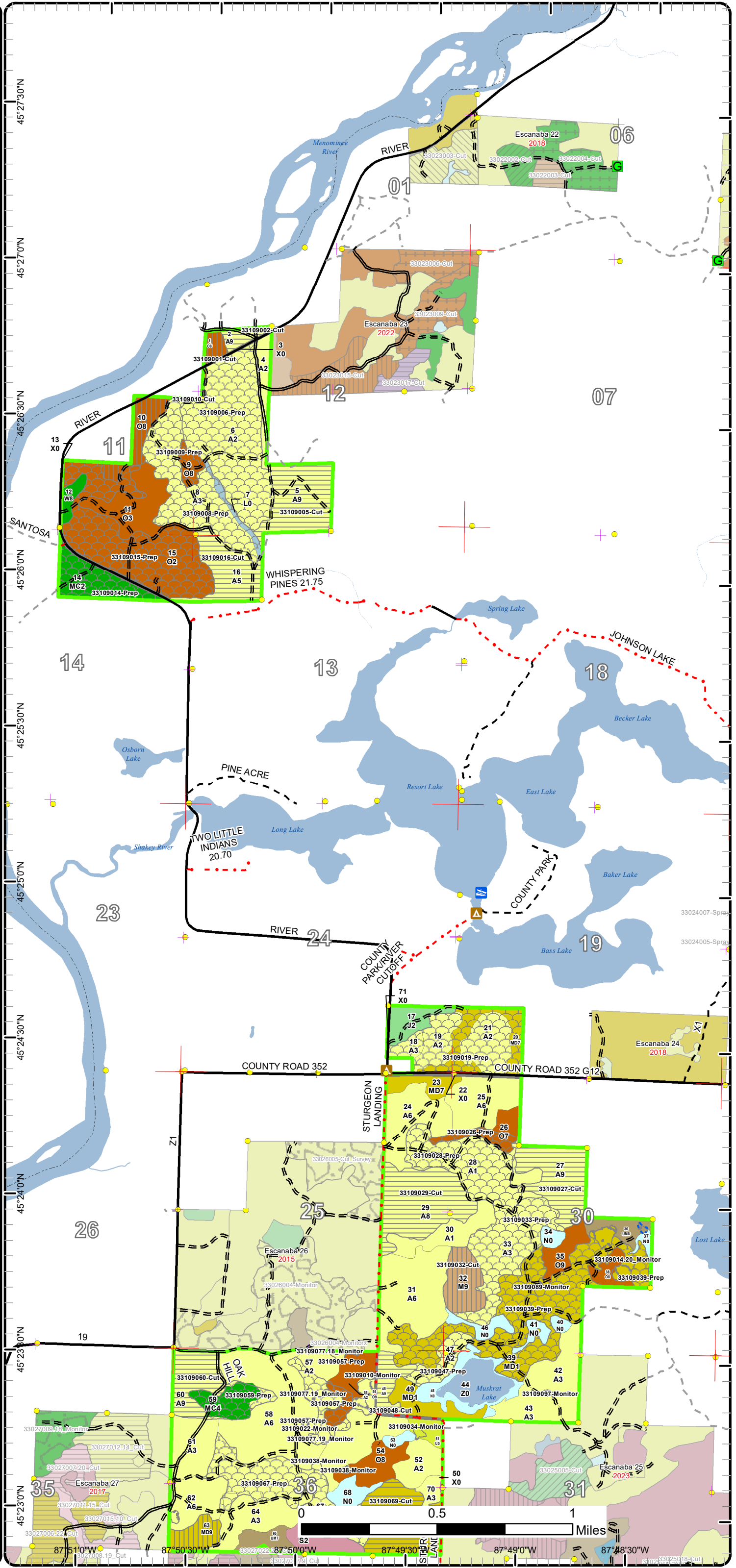
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 109  
 T35N, R29W, Sec. 11, 12, 3, 14, 25, 36  
 County: Menominee  
 Unit: Escanaba  
 Mgmt Area: Menominee End Moraine  
 YOE: 2023  
 Acres: 1523 GIS Calculated  
 Examiner: Dan Beaudo  
 Map Revised: 7/6/2021  
 Map Phase: Web-Post



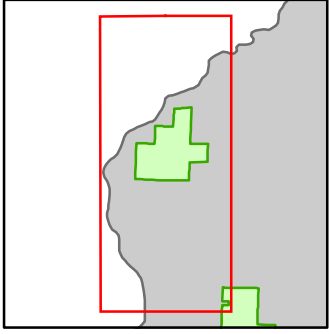
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- - County - Gravel Road
- - Private - Dirt / Gravel Road
- - Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Ⓜ Gate
- Ⓜ Boating Access Site
- Ⓜ Campground
- Ⓜ Compartment Boundary
- Ⓜ Treatments with Site Conditions
- ▨ Clearcut (w/Reserves)
- ▨ Regeneration Survey
- ▨ Shelter Wood (w/Reserves)
- ▨ Site Prep
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



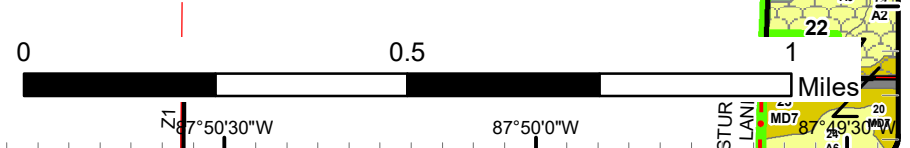
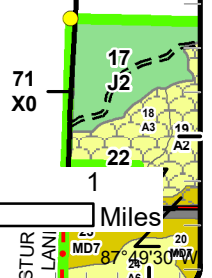
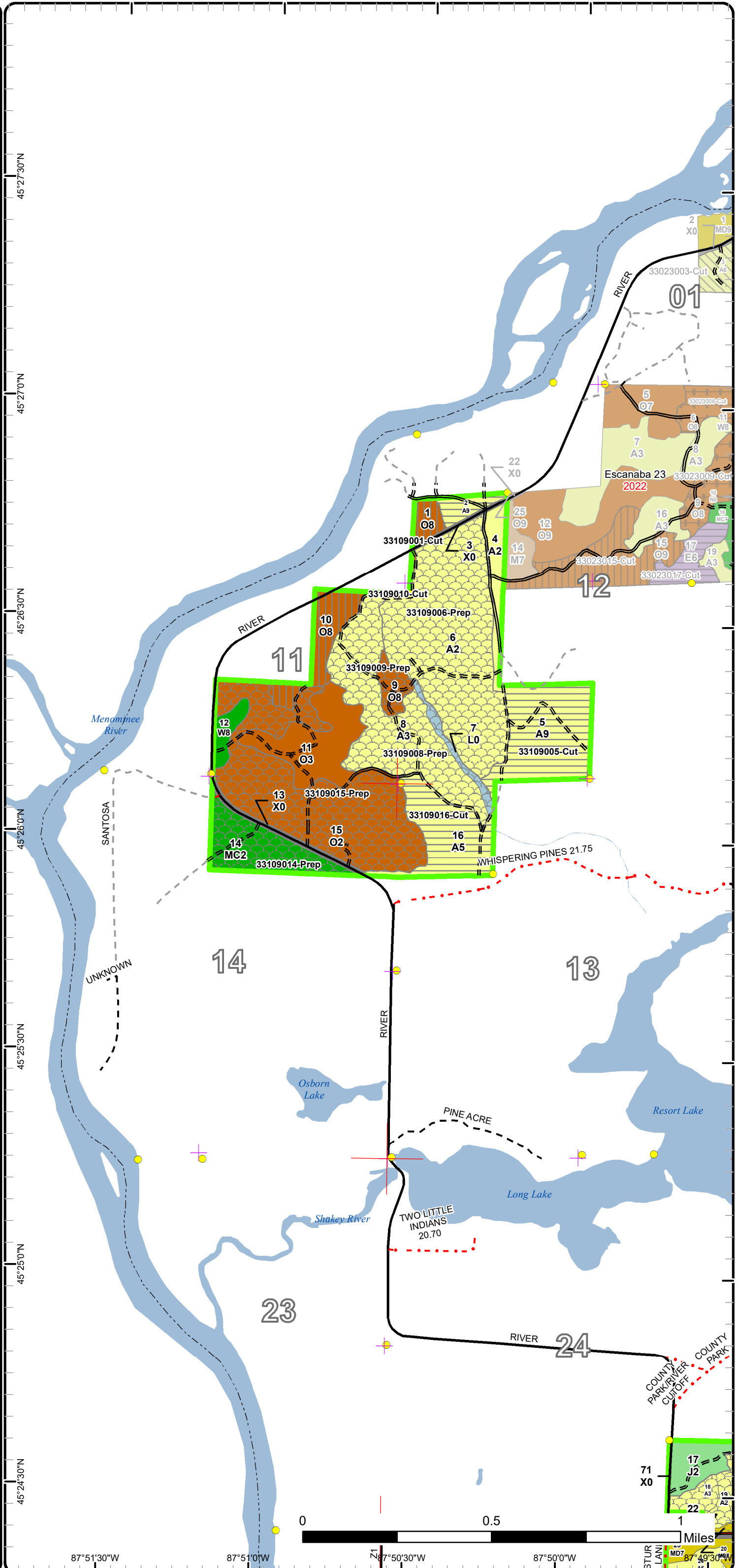
87°51'0"W 87°50'30"W 87°50'0"W 87°49'30"W 87°49'0"W 87°48'30"W

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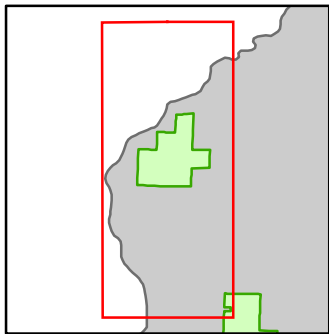
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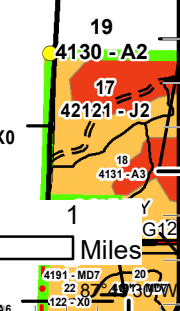
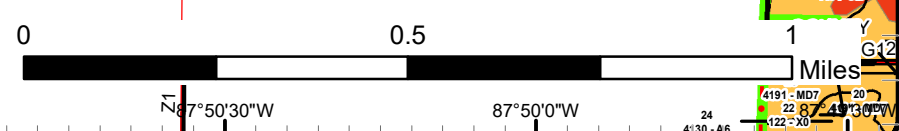
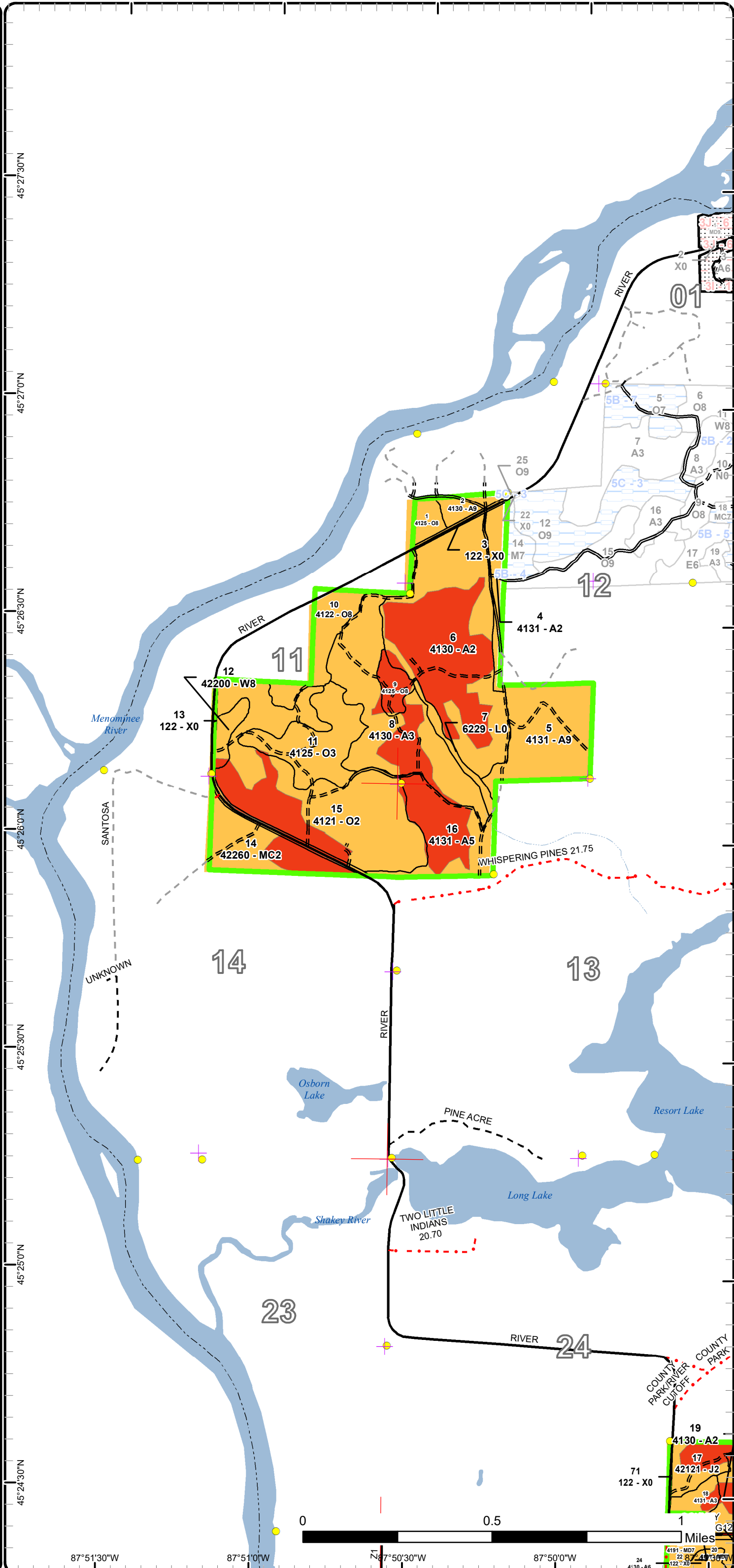


# Special Conservation Areas

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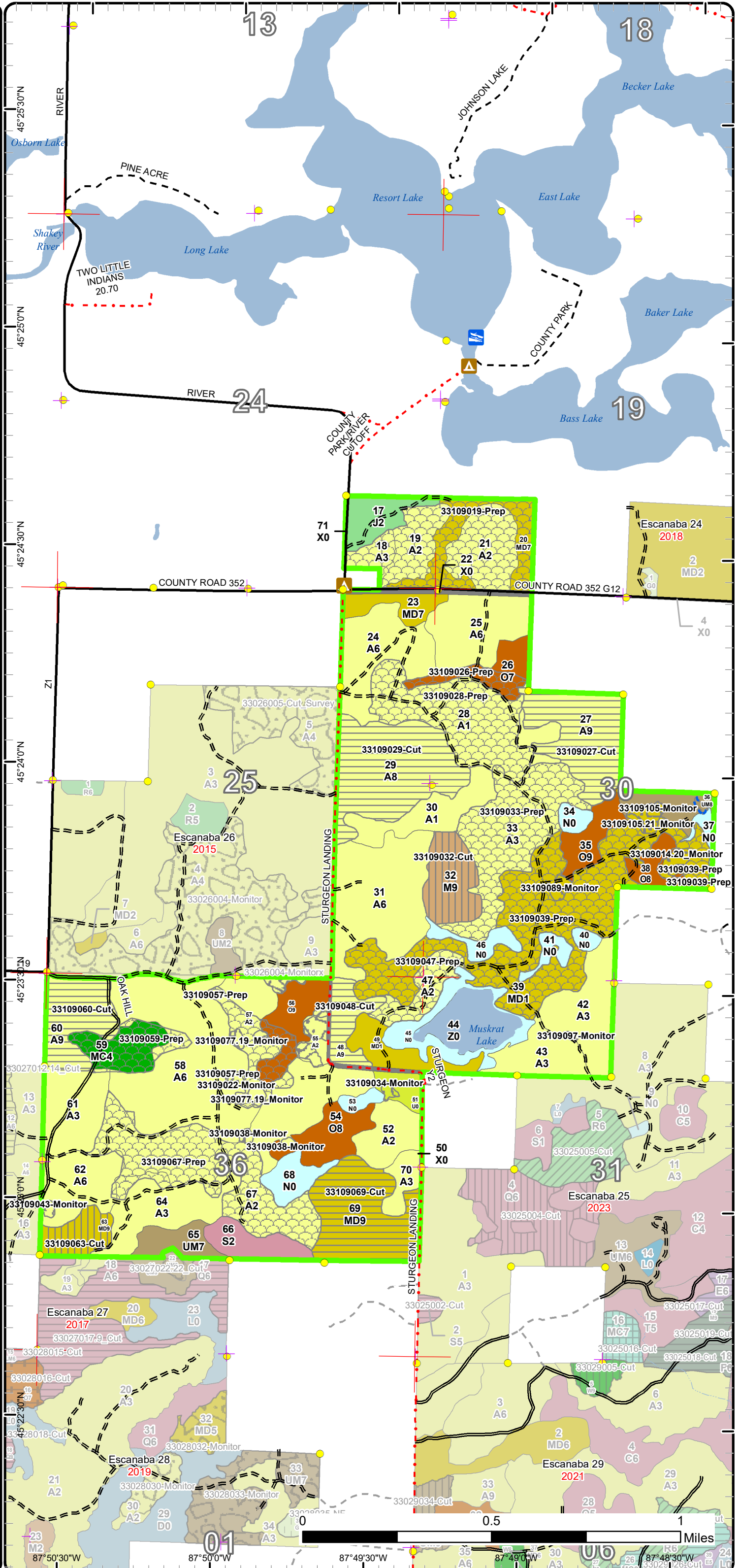
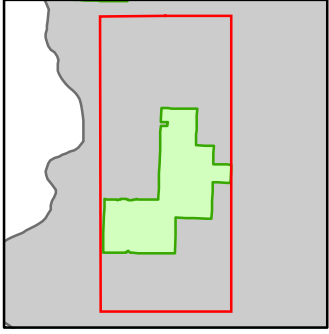


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- Compartment Boundary
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Non-Dedicated Natural Areas and National Natural Landmarks

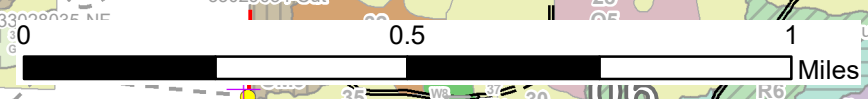


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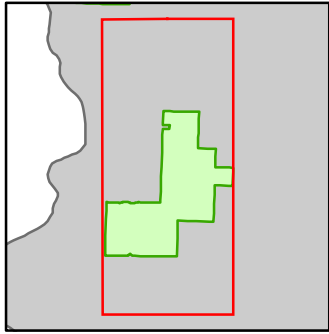
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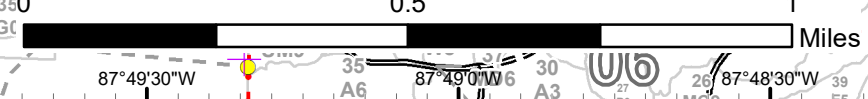
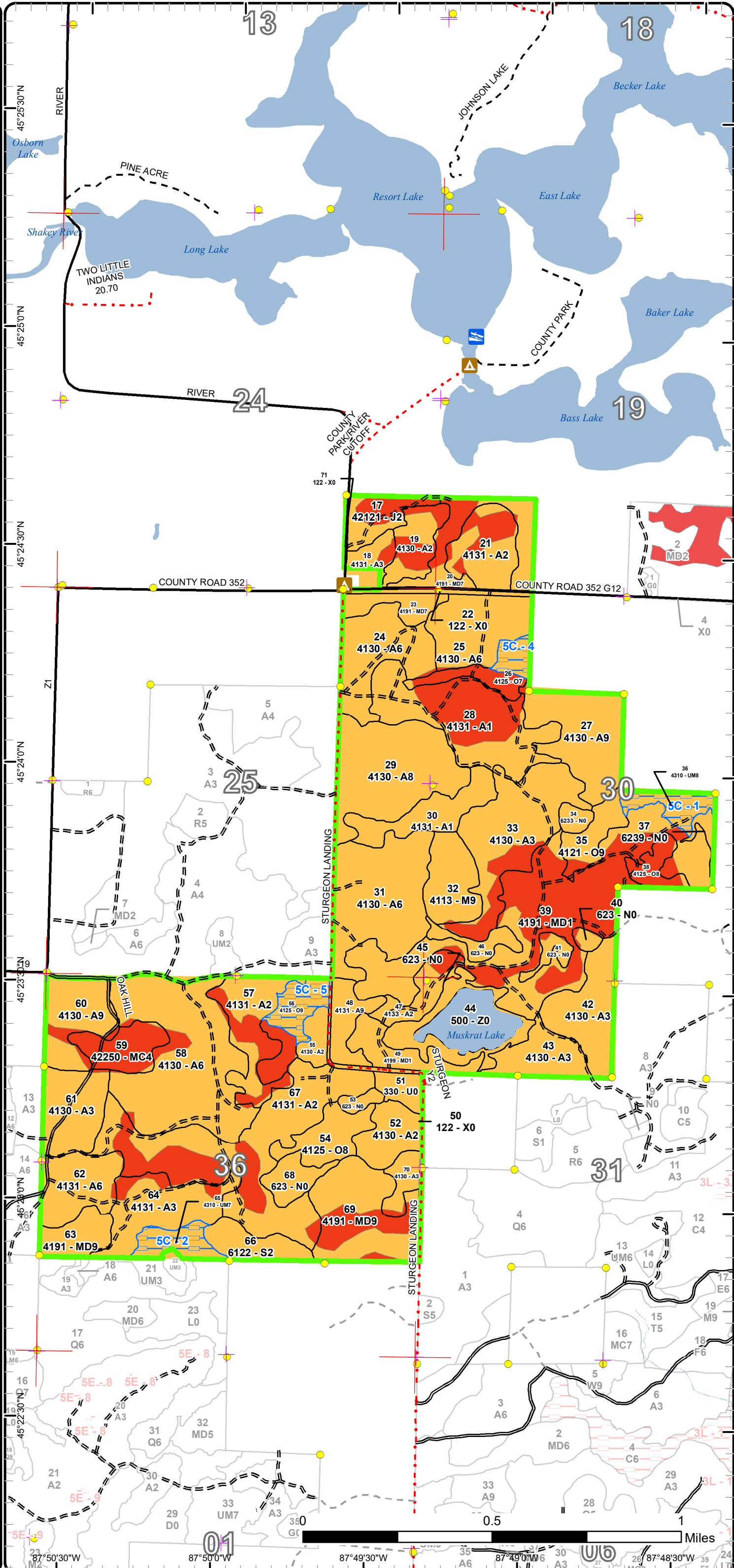


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- Lakes and Rivers
- Ⓡ Boating Access Site
- Campground
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Stand Boundaries
- Ecological Reference Areas
- Non-Dedicated Natural Areas and National Natural Landmarks



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	25	330	83	76	100	78	0	0	0	0	12	0	0	0	0	0	227	930
Jack Pine	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12
Marsh	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Mixed Upland Deciduous	0	13	0	0	0	0	0	0	0	20	0	12	0	0	0	0	0	149	194
Natural Mixed Pines	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	15	39
Northern Hardwood	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	19
Oak	0	0	110	0	0	0	0	0	19	21	13	23	0	0	0	0	0	15	201
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	20
Urban	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
White Pine	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
<b>Total</b>	<b>93</b>	<b>50</b>	<b>440</b>	<b>107</b>	<b>76</b>	<b>105</b>	<b>78</b>	<b>0</b>	<b>19</b>	<b>80</b>	<b>13</b>	<b>47</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>418</b>	<b>1524</b>



## Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 109

Total Compartment Acres: 1,523

Commercial Harvest - 280  
 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	189	0	0	0	0	0	0	0	0	189
Mixed Upland Deciduous	39	0	0	0	12	0	0	0	0	51
Northern Hardwood	0	0	0	0	19	0	0	0	0	19
Oak	0	0	0	0	22	0	0	0	0	22
<b>Total</b>	<b>227</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>52</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>280</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	280	615	0	0	0	0	21	0	0	915
Next Step	0	173	145	0	1285	788	252	0	0	2644
<b>Total</b>	<b>280</b>	<b>788</b>	<b>145</b>	<b>0</b>	<b>1285</b>	<b>788</b>	<b>272</b>	<b>0</b>	<b>0</b>	<b>3559</b>



Stand	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:**

<b>1</b>	<b>33109001-Cut</b>	5.0	4125 - Black, N. Pin Oak	Sawtimber Medium	89	1-50	Harvest	Shelterwood	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Cut merchantable trees except retain a minimum of 4 trees per acre of pine and healthy mast producing oaks.</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 Regen:</u> Species in the canopy layers.</p> <p><u>Other Comment:</u> Mature stand with dead trees present. Promote seedlings from acorns to minimize root grafted systems. This will decrease the spread of oak wilt through the root systems which will creates a healthier stand more capable to withstand oak wilt disease.</p> <p>The shelterwood system lies somewhere in between the visual extremes of clearcutting and selection management. The parent forest is removed in several stages, with each stage successively establishing optimum environmental conditions for tree regeneration and then nursing the regeneration along to a point where the remaining parent forest can be harvested. Red oaks and white pine stands will often benefit from shelterwood harvesting.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>2</b>	<b>33109002-Cut</b>	5.6	4130 - Aspen	Sawtimber Well	59	81-110	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" dbh except cut oak greater than 6" dbh.</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 Regen:</u> Species within the canopy layers.</p> <p><u>Other Comment:</u> Aspen is mature with dead oak trees present. regenerate stand while sprouting is still available. This is a small aspen stand that will be allowed to regenerate naturally due to the fragmentation by roads within the stand.</p> <p>Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch, and jack pine require full sunlight. Oak sprouting responds well to full sunlight with rapid growth keeping up to aspen sprouts. This aids desired regeneration to reach heights in a shorter length of time that will put buds out of browser's reach.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
<b>5</b>	<b>33109005-Cut</b>	37.7	4131 - Aspen, Oak	Sawtimber Well	47	81-110	Harvest	Clearcut	4310 - Pine, Oak Mix	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" dbh except leave some healthy oak to retain for mast and seed. Next Steps of trench, herbicide and plant red pine. Natural white pine seedlings and white pine seed from adjacent trees will provide pine diversity.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Herbicide Use</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Species of pine and oak that will over time bring this stand to resemble more of the Oak-Pine Barrens habitat type.</p> <p><u>Other Comment:</u> This is a mature aspen stand with dead oak present. This stand is within the Shakey Lakes Oak-Pine Barrens ERA but not within an Element Occurrence. The proposed treatment will help remove aspen and other species not indicative of the Oak-Pine Barrens habitat. Then follow up with planting red pine to full stock will ensure pine will remain a dominant species and oak seed trees will provide seed for dispersed oak trees. Planted pine seedling failure will provide open areas and should not be followed up with a re-planting. Over time this stand will be thinned down to densities that better resemble the Oak-Pine Barrens habitat.</p> <p>Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch, and jack pine require full sunlight. Oak sprouting responds well to full sunlight with rapid growth keeping up to aspen sprouts. This aids desired regeneration to reach heights in a shorter length of time that will put buds out of browser's reach.</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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<b>6</b>	<b>33109006-Prep</b>	87.1	4130 - Aspen	Sapling Medium	10	Immature	SitePrep	Roller Chopping	31021 - Cool Season Grass	No
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Prescription A 4-step process is recommended to be incorporated for setting back succession in the Oak-Pine Barrens as funding is available:

Specs:

1. Depending on the merchantability of the trees, this stand could first be treated with a clearcut to remove the merchantable species except leave 4 oak/pine trees per acre. Then the stand will need to be treated by reducing the height of smaller saplings using a skidsteer or skidder mounted pulverizer or if the roller chopping would be effective. Leave 4 trees per acre of oak and pine where present. This will also stimulate sprouting to maximize mortality of the root system with the next step.
2. The following year, or before aspen gets too tall, new aspen growth should be herbicide treated to remove the aspen and unwanted species. The use of a wiper applicator to only apply herbicide to the emergent species would target only the aspen, maple, cherry that would be taller above the grasses. Sprayer application would penetrate the grasses which would help set back the pennsylvania sedge.
3. The following year a prescribed burn would remove dead debris and help promote conditions for desired grasses such as big and little bluestem.
4. Then ideal/range fire return interval for ground fires is 1-3 years for restored sites to promote herbaceous diversity and remove woody cover.

Next Step Pesticide, Skidder - Site Prep; Burn, Opening; Burn, Other

Treatments:

Acceptable Species of the oak-pine barrens natural community.

Regen:

Other This process to set back succession while trying to maintain Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA will be dependent upon funding.

Site Condition

Proposed Start Date: 10/1 /2022

<b>8</b>	<b>33109008-Prep</b>	57.6	4130 - Aspen	Sapling Well	20	Immature	SitePrep	Roller Chopping	31021 - Cool Season Grass	No
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4. Then ideal/range fire return interval for ground fires is 1-3 years for restored sites to promote herbaceous diversity and remove woody cover.

Next Step Pesticide, Skidder - Site Prep; Burn, Opening; Burn, Opening

Treatments:

Acceptable Species within the Oak-Pine Barrens natural community.

Regen:

Other This process to set back succession while trying to maintain Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA will be dependent upon funding.

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
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<b>9</b>	<b>33109009-Prep</b>	6.2	4125 - Black, N. Pin Oak	Sawtimber Medium	104	1-50	SitePrep	Roller Chopping	31021 - Cool Season Grass	No
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Prescription A 4-step process is recommended to be incorporated for setting back succession in the Oak-Pine Barrens as funding is available:

Specs:

1. Depending on the merchantability of the trees, this stand could first be treated with a clearcut to remove the merchantable species except leave 4 oak/pine trees per acre. Then the stand will need to be treated by reducing the height of smaller saplings using a skidsteer or skidder mounted pulverizer or if the roller chopping would be effective. Leave 4 trees per acre of oak and pine where present. This will also stimulate sprouting to maximize mortality of the root system with the next step.
2. The following year, or before aspen gets too tall, new aspen growth should be herbicide treated to remove the aspen and unwanted species. The use of a wiper applicator to only apply herbicide to the emergent species would target only the aspen, maple, cherry that would be taller above the grasses. Sprayer application would penetrate the grasses which would help set back the pennsylvania sedge.
3. The following year a prescribed burn would remove dead debris and help promote conditions for desired grasses such as big and little bluestem.
4. Then ideal/range fire return interval for ground fires is 1-3 years for restored sites to promote herbaceous diversity and remove woody cover.

Next Step Pesticide, Skidder - Site Prep; Burn, Opening; Burn, Opening

Treatments:

Acceptable Species of the oak-pine barrens natural community.

Regen:

Other This process to set back succession while trying to maintain Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA will be dependent upon funding.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

<b>10</b>	<b>33109010-Cut</b>	16.8	4122 - Oak, Pine	Sawtimber Medium	104	51-80	Harvest	Shelterwood	4122 - Oak, Pine	Uneven-Aged	No
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Prescription Shelterwood cut merchantable trees except leave 20 basal area, or minimum of 4 trees per acre, of oak and pine for shade, mast and seed production.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Species in the canopy layers.

Regen:

Other The shelterwood system lies somewhere in between the visual extremes of clearcutting and selection management. The parent forest is removed in several stages, with each stage successively establishing optimum environmental conditions for tree regeneration and then nursing the regeneration along to a point where the remaining parent forest can be harvested. Red oaks and white pine stands will often benefit from shelterwood harvesting.

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
<b>14 33109014-Prep</b>	23.6	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	27	1-50	SitePrep	Roller Chopping	31021 - Cool Season Grass		No
<p><u>Prescription</u> A 4-step process is recommended to be incorporated for setting back succession in the Oak-Pine Barrens as funding is available:1. <u>Specs:</u> Depending on the merchantability of the trees, this stand could first be treated with a clearcut to remove the merchantable species except leave 4 oak/pine trees per acre. Then the stand will need to be treated by reducing the height of smaller saplings using a skidsteer or skidder mounted pulverizer or if the roller chopping would be effective. Leave 4 trees per acre of oak and pine where present. This will also stimulate sprouting to maximize mortality of the root system with the next step.2. The following year, or before aspen gets too tall, new aspen growth should be herbicide treated to remove the aspen and unwanted species. The use of a wiper applicator to only apply herbicide to the emergent species would target only the aspen, maple, cherry that would be taller above the grasses. Sprayer application would penetrate the grasses which would help set back the pennsylvania sedge.3. The following year a prescribed burn would remove dead debris and help promote conditions for desired grasses such as big and little bluestem.4. Then ideal/range fire return interval for ground fires is 1-3 years for restored sites to promote herbaceous diversity and remove woody cover.</p> <p><u>Next Step Treatments:</u> Pesticide, Skidder - Site Prep; Burn, Opening; Burn, Opening</p> <p><u>Acceptable Regen:</u> Species of the oak-pine barrens natural community.</p> <p><u>Other Comment:</u> This process to set back succession while trying to maintain Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA will dependent upon funding.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>15 33109015-Prep</b>	83.0	4121 - Oak, Aspen	Sapling Medium	13	Immature	SitePrep	Roller Chopping	31021 - Cool Season Grass		No
<p><u>Prescription</u> A 4-step process is recommended to be incorporated for setting back succession in the Oak-Pine Barrens as funding is available:1. <u>Specs:</u> Depending on the merchantability of the trees, this stand could first be treated with a clearcut to remove the merchantable species except leave 4 oak/pine trees per acre. Then the stand will need to be treated by reducing the height of smaller saplings using a skidsteer or skidder mounted pulverizer or if the roller chopping would be effective. Leave 4 trees per acre of oak and pine where present. This will also stimulate sprouting to maximize mortality of the root system with the next step.2. The following year, or before aspen gets too tall, new aspen growth should be herbicide treated to remove the aspen and unwanted species. The use of a wiper applicator to only apply herbicide to the emergent species would target only the aspen, maple, cherry that would be taller above the grasses. Sprayer application would penetrate the grasses which would help set back the pennsylvania sedge.3. The following year a prescribed burn would remove dead debris and help promote conditions for desired grasses such as big and little bluestem.4. Then ideal/range fire return interval for ground fires is 1-3 years for restored sites to promote herbaceous diversity and remove woody cover.</p> <p><u>Next Step Treatments:</u> Pesticide, Skidder - Site Prep; Burn, Opening; Burn, Opening</p> <p><u>Acceptable Regen:</u> Species of the oak-pine barrens natural community.</p> <p><u>Other Comment:</u> This process to set back succession while trying to maintain Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA will dependent upon funding.</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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16	33109016-Cut	27.9	4131 - Aspen, Oak	Poletimber Medium	46	1-50	Harvest	Clearcut with Retention	31021 - Cool Season Grass	No
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Prescription Cut all trees greater than 3" dbh except leave a minimum of 4 trees per acre of pine and oak trees.

Specs:

A 4-step process is recommended to be incorporated for setting back succession in the Oak-Pine Barrens as funding is available:

1. Depending on the merchantability of the trees, this stand could first be treated with a clearcut to remove the merchantable species except leave 4 oak/pine trees per acre. Then the stand will need to be treated by reducing the height of smaller saplings using a skidsteer or skidder mounted pulverizer or if the roller chopping would be effective. Leave 4 trees per acre of oak and pine where present. This will also stimulate sprouting to maximize mortality of the root system with the next step.

2. The following year, or before aspen gets too tall, new aspen growth should be herbicide treated to remove the aspen and unwanted species. The use of a wiper applicator to only apply herbicide to the emergent species would target only the aspen, maple, cherry that would be taller above the grasses. Sprayer application would penetrate the grasses which would help set back the pennsylvania sedge.

3. The following year a prescribed burn would remove dead debris and help promote conditions for desired grasses such as big and little bluestem.

4. Then ideal/range fire return interval for ground fires is 1-3 years for restored sites to promote herbaceous diversity and remove woody cover.

Next Step SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Burn, Opening; Burn, Opening

Treatments:

Acceptable Species of the oak-pine barrens natural community.

Regen:

Other This process to set back succession while trying to maintain Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA will be dependent upon funding, except the initial step of clearcutting.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

21	33109019-Prep	60.8	4131 - Aspen, Oak	Sapling Medium	14	Immature	SitePrep	Roller Chopping	31021 - Cool Season Grass	No
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Prescription A 4-step process is recommended to be incorporated for setting back succession in the Oak-Pine Barrens as funding is available:1.

Specs:

Depending on the merchantability of the trees, this stand could first be treated with a clearcut to remove the merchantable species except leave 4 oak/pine trees per acre. Then the stand will need to be treated by reducing the height of smaller saplings using a skidsteer or skidder mounted pulverizer or if the roller chopping would be effective. Leave 4 trees per acre of oak and pine where present. This will also stimulate sprouting to maximize mortality of the root system with the next step.2. The following year, or before aspen gets too tall, new aspen growth should be herbicide treated to remove the aspen and unwanted species. The use of a wiper applicator to only apply herbicide to the emergent species would target only the aspen, maple, cherry that would be taller above the grasses. Sprayer application would penetrate the grasses which would help set back the pennsylvania sedge.3. The following year a prescribed burn would remove dead debris and help promote conditions for desired grasses such as big and little bluestem.4. Then ideal/range fire return interval for ground fires is 1-3 years for restored sites to promote herbaceous diversity and remove woody cover.

Next Step Pesticide, Skidder - Site Prep; Burn, Opening; Burn, Opening

Treatments:

Acceptable Species of the oak-pine barrens natural community.

Regen:

Other This process to set back succession while trying to maintain Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA will be dependent upon funding.

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
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26	33109026-Prep	7.6	4125 - Black, N. Pin Oak	Sawtimber Poor	90	1-50	SitePrep	Roller Chopping	31021 - Cool Season Grass	No
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Prescription A 4-step process is recommended to be incorporated for setting back succession in the Oak-Pine Barrens as funding is available:1. Depending on the merchantability of the trees, this stand could first be treated with a clearcut to remove the merchantable species except leave 4 oak/pine trees per acre. Then the stand will need to be treated by reducing the height of smaller saplings using a skidsteer or skidder mounted pulverizer or if the roller chopping would be effective. Leave 4 trees per acre of oak and pine where present. This will also stimulate sprouting to maximize mortality of the root system with the next step.2. The following year, or before aspen gets too tall, new aspen growth should be herbicide treated to remove the aspen and unwanted species. The use of a wiper applicator to only apply herbicide to the emergent species would target only the aspen, maple, cherry that would be taller above the grasses. Sprayer application would penetrate the grasses which would help set back the pennsylvania sedge.3. The following year a prescribed burn would remove dead debris and help promote conditions for desired grasses such as big and little bluestem.4. Then ideal/range fire return interval for ground fires is 1-3 years for restored sites to promote herbaceous diversity and remove woody cover.

Next Step Treatments: Pesticide, Skidder - Site Prep; Burn, Opening; Burn, Opening

Acceptable Regen: Species of the oak-pine barrens natural community.

Other Comment: This process to set back succession while trying to maintain Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA will dependent upon funding.

Site Condition

Proposed Start Date: 10/1 /2022

27	33109027-Cut	34.1	4130 - Aspen	Sawtimber Well	49	51-80	Harvest	Clearcut	4310 - Pine, Oak Mix	Even-Aged	No
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Prescription Specs: Cut all trees greater than 3" dbh except leave some healthy oak to retain for mast and seed. Next Steps of trench, herbicide and plant red pine. Natural white pine seedlings and white pine seed from adjacent trees will provide pine diversity.

Next Step Treatments: SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Herbicide Use

Acceptable Regen: Species of pine and oak that will over time bring this stand to resemble more of the Oak-Pine Barrens natural community.

Other Comment: This is a mature aspen stand with dead oak present. This stand is within the Shakey Lakes Oak-Pine Barrens ERA but not within an Element Occurrence. The proposed treatment will help remove aspen and other species not indicative of the Oak-Pine Barrens habitat. Then follow up with planting red pine to full stock will ensure pine will remain a dominant species and oak seed trees will provide seed for dispersed oak trees. Planted pine seedling failure will provide open areas and should not be followed up with a re-planting. Over time this stand will be thinned down to densities that better resemble the Oak-Pine Barrens habitat.

Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch, and jack pine require full sunlight. Oak sprouting responds well to full sunlight with rapid growth keeping up to aspen sprouts. This aids desired regeneration to reach heights in a shorter length of time that will put buds out of browser's reach.

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
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28	33109028-Prep	44.2	4131 - Aspen, Oak	Sapling Poor	14	Immature	SitePrep	Roller Chopping	31021 - Cool Season Grass	No
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Prescription A 4-step process is recommended to be incorporated for setting back succession in the Oak-Pine Barrens as funding is available:

Specs:

1. Depending on the merchantability of the trees, this stand could first be treated with a clearcut to remove the merchantable species except leave 4 oak/pine trees per acre. Then the stand will need to be treated by reducing the height of smaller saplings using a skidsteer or skidder mounted pulverizer or if the roller chopping would be effective. Leave 4 trees per acre of oak and pine where present. This will also stimulate sprouting to maximize mortality of the root system with the next step.
2. The following year, or before aspen gets too tall, new aspen growth should be herbicide treated to remove the aspen and unwanted species. The use of a wiper applicator to only apply herbicide to the emergent species would target only the aspen, maple, cherry that would be taller above the grasses. Sprayer application would penetrate the grasses which would help set back the pennsylvania sedge.
3. The following year a prescribed burn would remove dead debris and help promote conditions for desired grasses such as big and little bluestem.
4. Then ideal/range fire return interval for ground fires is 1-3 years for restored sites to promote herbaceous diversity and remove woody cover.

Next Step Pesticide, Skidder - Site Prep; Burn, Opening; Burn, Opening

Treatments:

Acceptable Species of the oak-pine barrens natural community.

Regen:

Other This process to set back succession while trying to maintain Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA will be dependent upon funding.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

29	33109029-Cut	48.5	4130 - Aspen	Sawtimber Medium	50	51-80	Harvest	Clearcut	4310 - Pine, Oak Mix	Even-Aged	No
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Prescription Cut all trees greater than 3" dbh except leave some healthy oak to retain for mast and seed. Next Steps of trench, herbicide and plant red pine. Natural white pine seedlings and white pine seed from adjacent trees will provide pine diversity.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Species of pine and oak that will over time bring this stand to resemble more of the Oak-Pine Barrens natural community.

Regen:

Other This is a mature aspen stand with dead oak present. This stand is within the Shakey Lakes Oak-Pine Barrens ERA but not within an Element Occurrence. The proposed treatment will help remove aspen and other species not indicative of the Oak-Pine Barrens habitat. Then follow up with planting red pine to full stock will ensure pine will remain a dominant species and oak seed trees will provide seed for dispersed oak trees. Planted pine seedling failure will provide open areas and should not be followed up with a re-planting. Over time this stand will be thinned down to densities that better resemble the Oak-Pine Barrens habitat.

Comment:

Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch, and jack pine require full sunlight. Oak sprouting responds well to full sunlight with rapid growth keeping up to aspen sprouts. This aids desired regeneration to reach heights in a shorter length of time that will put buds out of browser's reach.

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
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32	33109032-Cut	18.8	4113 - R.Maple, Conifer	Sawtimber Well	87	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Cut all merchantable trees except leave a minimum of 4 trees per acre of pine and oak.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Species within the canopy layers.

Regen:

Other This is a mature stand with mortality present.

Comment:

The shelterwood system lies somewhere in between the visual extremes of clearcutting and selection management. The parent forest is removed in several stages, with each stage successively establishing optimum environmental conditions for tree regeneration and then nursing the regeneration along to a point where the remaining parent forest can be harvested. Red oaks and white pine stands will often benefit from shelterwood harvesting.

Site Condition

Proposed Start Date: 10/1 /2022

33	33109033-Prep	46.6	4130 - Aspen	Sapling Well	10	Immature	SitePrep	Roller Chopping	31021 - Cool Season Grass		No
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Prescription A 4-step process is recommended to be incorporated for setting back succession in the Oak-Pine Barrens as funding is available:1.

Specs: Depending on the merchantability of the trees, this stand could first be treated with a clearcut to remove the merchantable species except leave 4 oak/pine trees per acre. Then the stand will need to be treated by reducing the height of smaller saplings using a skidsteer or skidder mounted pulverizer or if the roller chopping would be effective. Leave 4 trees per acre of oak and pine where present. This will also stimulate sprouting to maximize mortality of the root system with the next step.2. The following year, or before aspen gets too tall, new aspen growth should be herbicide treated to remove the aspen and unwanted species. The use of a wiper applicator to only apply herbicide to the emergent species would target only the aspen, maple, cherry that would be taller above the grasses. Sprayer application would penetrate the grasses which would help set back the pennsylvania sedge.3. The following year a prescribed burn would remove dead debris and help promote conditions for desired grasses such as big and little bluestem.4. Then ideal/range fire return interval for ground fires is 1-3 years for restored sites to promote herbaceous diversity and remove woody cover.

Next Step Pesticide, Skidder - Site Prep; Burn, Opening; Burn, Opening

Treatments:

Acceptable Species of the oak-pine barrens natural community.

Regen:

Other This process to set back succession while trying to maintain Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA will

Comment: dependent upon funding.

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
<b>39 33109039- Prep</b>	93.8	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	10	Immature	SitePrep	Roller Chopping	31021 - Cool Season Grass		No
<p><u>Prescription</u> A 4-step process is recommended to be incorporated for setting back succession in the Oak-Pine Barrens as funding is available:1. <u>Specs:</u> Depending on the merchantability of the trees, this stand could first be treated with a clearcut to remove the merchantable species except leave 4 oak/pine trees per acre. Then the stand will need to be treated by reducing the height of smaller saplings using a skidsteer or skidder mounted pulverizer or if the roller chopping would be effective. Leave 4 trees per acre of oak and pine where present. This will also stimulate sprouting to maximize mortality of the root system with the next step.2. The following year, or before aspen gets too tall, new aspen growth should be herbicide treated to remove the aspen and unwanted species. The use of a wiper applicator to only apply herbicide to the emergent species would target only the aspen, maple, cherry that would be taller above the grasses. Sprayer application would penetrate the grasses which would help set back the pennsylvania sedge.3. The following year a prescribed burn would remove dead debris and help promote conditions for desired grasses such as big and little bluestem.4. Then ideal/range fire return interval for ground fires is 1-3 years for restored sites to promote herbaceous diversity and remove woody cover.</p> <p><u>Next Step Treatments:</u> Pesticide, Skidder - Site Prep; Burn, Opening; Burn, Opening</p> <p><u>Acceptable Regen:</u> Species of the oak-pine barrens natural community.</p> <p><u>Other Comment:</u> This process to set back succession while trying to maintain Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA will dependent upon funding.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>47 33109047- Prep</b>	12.1	4133 - Aspen, Mixed Pine	Sapling Medium	10	Immature	SitePrep	Roller Chopping	31021 - Cool Season Grass		No
<p><u>Prescription</u> A 4-step process is recommended to be incorporated for setting back succession in the Oak-Pine Barrens as funding is available:1. <u>Specs:</u> Depending on the merchantability of the trees, this stand could first be treated with a clearcut to remove the merchantable species except leave 4 oak/pine trees per acre. Then the stand will need to be treated by reducing the height of smaller saplings using a skidsteer or skidder mounted pulverizer or if the roller chopping would be effective. Leave 4 trees per acre of oak and pine where present. This will also stimulate sprouting to maximize mortality of the root system with the next step.2. The following year, or before aspen gets too tall, new aspen growth should be herbicide treated to remove the aspen and unwanted species. The use of a wiper applicator to only apply herbicide to the emergent species would target only the aspen, maple, cherry that would be taller above the grasses. Sprayer application would penetrate the grasses which would help set back the pennsylvania sedge.3. The following year a prescribed burn would remove dead debris and help promote conditions for desired grasses such as big and little bluestem.4. Then ideal/range fire return interval for ground fires is 1-3 years for restored sites to promote herbaceous diversity and remove woody cover.</p> <p><u>Next Step Treatments:</u> Pesticide, Skidder - Site Prep; Burn, Opening; Burn, Opening</p> <p><u>Acceptable Regen:</u> Species of the oak-pine barrens natural community.</p> <p><u>Other Comment:</u> This process to set back succession while trying to maintain Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA will dependent upon funding.</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	33109048-Cut	11.5	4131 - Aspen, Oak	Sawtimber Well	101	111-140	Harvest	Clearcut	4310 - Pine, Oak Mix	Even-Aged	No
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Prescription Cut all trees greater than 3" dbh except leave some healthy oak to retain for mast and seed. Next Steps of trench, herbicide and plant red pine. Natural white pine seedlings and white pine seed from adjacent trees will provide pine diversity.

Next Step SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Herbicide Use

Acceptable Regen: Species of pine and oak that will over time bring this stand to resemble more of the Oak-Pine Barrens natural community.

Other Comment: This is a mature aspen stand with dead oak present. This stand is within the Shakey Lakes Oak-Pine Barrens ERA but not within an Element Occurrence. The proposed treatment will help remove aspen and other species not indicative of the Oak-Pine Barrens habitat. Then follow up with planting red pine to full stock will ensure pine will remain a dominant species and oak seed trees will provide seed for dispersed oak trees. Planted pine seedling failure will provide open areas and should not be followed up with a re-planting. Over time this stand will be thinned down to densities that better resemble the Oak-Pine Barrens habitat.

Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch, and jack pine require full sunlight. Oak sprouting responds well to full sunlight with rapid growth keeping up to aspen sprouts. This aids desired regeneration to reach heights in a shorter length of time that will put buds out of browser's reach.

Site Condition

Proposed Start Date: 10/1 /2022

56	33109056-Prep	5.9	4125 - Black, N. Pin Oak	Sawtimber Well	87	81-110	SitePrep	Roller Chopping	31021 - Cool Season Grass		No
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Prescription A 4-step process is recommended to be incorporated for setting back succession in the Oak-Pine Barrens as funding is available:1. Depending on the merchantability of the trees, this stand could first be treated with a clearcut to remove the merchantable species except leave 4 oak/pine trees per acre. Then the stand will need to be treated by reducing the height of smaller saplings using a skidsteer or skidder mounted pulverizer or if the roller chopping would be effective. Leave 4 trees per acre of oak and pine where present. This will also stimulate sprouting to maximize mortality of the root system with the next step.2. The following year, or before aspen gets too tall, new aspen growth should be herbicide treated to remove the aspen and unwanted species. The use of a wiper applicator to only apply herbicide to the emergent species would target only the aspen, maple, cherry that would be taller above the grasses. Sprayer application would penetrate the grasses which would help set back the pennsylvania sedge.3. The following year a prescribed burn would remove dead debris and help promote conditions for desired grasses such as big and little bluestem.4. Then ideal/range fire return interval for ground fires is 1-3 years for restored sites to promote herbaceous diversity and remove woody cover.

Next Step Pesticide, Skidder - Site Prep; Burn, Opening; Burn, Opening

Acceptable Regen: Species of the oak-pine barrens natural community.

Other Comment: This process to set back succession while trying to maintain Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA will dependent upon funding.

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
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57	33109057- Prep	12.7	4131 - Aspen, Oak	Sapling Medium	10	111- 140	SitePrep	Roller Chopping	31021 - Cool Season Grass	No
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Prescription A 4-step process is recommended to be incorporated for setting back succession in the Oak-Pine Barrens as funding is available:1.  
Specs: Depending on the merchantability of the trees, this stand could first be treated with a clearcut to remove the merchantable species except leave 4 oak/pine trees per acre. Then the stand will need to be treated by reducing the height of smaller saplings using a skidsteer or skidder mounted pulverizer or if the roller chopping would be effective. Leave 4 trees per acre of oak and pine where present. This will also stimulate sprouting to maximize mortality of the root system with the next step.2. The following year, or before aspen gets too tall, new aspen growth should be herbicide treated to remove the aspen and unwanted species. The use of a wiper applicator to only apply herbicide to the emergent species would target only the aspen, maple, cherry that would be taller above the grasses. Sprayer application would penetrate the grasses which would help set back the pennsylvania sedge.3. The following year a prescribed burn would remove dead debris and help promote conditions for desired grasses such as big and little bluestem.4. Then ideal/range fire return interval for ground fires is 1-3 years for restored sites to promote herbaceous diversity and remove woody cover.

Next Step Pesticide, Skidder - Site Prep; Burn, Opening; Burn, Opening  
Treatments:

Acceptable Species of the oak-pine barrens natural community.  
Regen:

Other This process to set back succession while trying to maintain Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA will  
Comment: dependent upon funding.

Site Condition

Proposed Start Date: 10/1 /2022

59	33109059- Prep	17.5	42250 - Pine, Oak	Poletimber Poor	25	Immatur re	SitePrep	Roller Chopping	31021 - Cool Season Grass	No
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Prescription A 4-step process is recommended to be incorporated for setting back succession in the Oak-Pine Barrens as funding is available:1.  
Specs: Depending on the merchantability of the trees, this stand could first be treated with a clearcut to remove the merchantable species except leave 4 oak/pine trees per acre. Then the stand will need to be treated by reducing the height of smaller saplings using a skidsteer or skidder mounted pulverizer or if the roller chopping would be effective. Leave 4 trees per acre of oak and pine where present. This will also stimulate sprouting to maximize mortality of the root system with the next step.2. The following year, or before aspen gets too tall, new aspen growth should be herbicide treated to remove the aspen and unwanted species. The use of a wiper applicator to only apply herbicide to the emergent species would target only the aspen, maple, cherry that would be taller above the grasses. Sprayer application would penetrate the grasses which would help set back the pennsylvania sedge.3. The following year a prescribed burn would remove dead debris and help promote conditions for desired grasses such as big and little bluestem.4. Then ideal/range fire return interval for ground fires is 1-3 years for restored sites to promote herbaceous diversity and remove woody cover.

Next Step Pesticide, Skidder - Site Prep; Burn, Opening; Burn, Opening  
Treatments:

Acceptable Species of the oak-pine barrens natural community.  
Regen:

Other This process to set back succession while trying to maintain Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA will  
Comment: dependent upon funding.

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
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<b>60</b>	<b>33109060-Cut</b>	23.2	4130 - Aspen	Sawtimber Well	52	111-140	Harvest	Clearcut	4310 - Pine, Oak Mix	Even-Aged	No
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Prescription Specs: Cut all trees greater than 3" dbh except leave some healthy oak to retain for mast and seed. Next Steps of trench, herbicide and plant red pine. Natural white pine seedlings and white pine seed from adjacent trees will provide pine diversity.

Next Step Treatments: SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Herbicide Use

Acceptable Regen: Species of pine and oak that will over time bring this stand to resemble more of the Oak-Pine Barrens natural community.

Other Comment: This is a mature aspen stand with dead oak present. This stand is within the Shakey Lakes Oak-Pine Barrens ERA and partially within an Element Occurrence. The proposed treatment will help remove aspen and other species not indicative of the Oak-Pine Barrens habitat. Then follow up with planting red pine to full stock will ensure pine will remain a dominant species and oak seed trees will provide seed for dispersed oak trees. Planted pine seedling failure will provide open areas and should not be followed up with a re-planting. Over time this stand will be thinned down to densities that better resemble the Oak-Pine Barrens habitat.

Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch, and jack pine require full sunlight. Oak sprouting responds well to full sunlight with rapid growth keeping up to aspen sprouts. This aids desired regeneration to reach heights in a shorter length of time that will put buds out of browser's reach.

Site Condition

Proposed Start Date: 10/1 /2022

<b>63</b>	<b>33109063-Cut</b>	11.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	101	1-50	Harvest	Shelterwood	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Specs: Cut all merchantable trees except leave a minimum of 4 trees per acre of oak and pine trees.

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

Acceptable Regen: Species within the canopy layers.

Other Comment: Mature forest with past areas treated for oak wilt. Regenerate to a healthy stand leaving some mast and seed trees.

The shelterwood system lies somewhere in between the visual extremes of clearcutting and selection management. The parent forest is removed in several stages, with each stage successively establishing optimum environmental conditions for tree regeneration and then nursing the regeneration along to a point where the remaining parent forest can be harvested. Red oaks and white pine stands will often benefit from shelterwood harvesting.

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
<b>67 33109067-Prep</b>	56.1	4131 - Aspen, Oak	Sapling Medium	12	1-50	SitePrep	Roller Chopping	31021 - Cool Season Grass		No
<p><u>Prescription</u> A 4-step process is recommended to be incorporated for setting back succession in the Oak-Pine Barrens as funding is available:1. Depending on the merchantability of the trees, this stand could first be treated with a clearcut to remove the merchantable species except leave 4 oak/pine trees per acre. Then the stand will need to be treated by reducing the height of smaller saplings using a skidsteer or skidder mounted pulverizer or if the roller chopping would be effective. Leave 4 trees per acre of oak and pine where present. This will also stimulate sprouting to maximize mortality of the root system with the next step.2. The following year, or before aspen gets too tall, new aspen growth should be herbicide treated to remove the aspen and unwanted species. The use of a wiper applicator to only apply herbicide to the emergent species would target only the aspen, maple, cherry that would be taller above the grasses. Sprayer application would penetrate the grasses which would help set back the pennsylvania sedge.3. The following year a prescribed burn would remove dead debris and help promote conditions for desired grasses such as big and little bluestem.4. Then ideal/range fire return interval for ground fires is 1-3 years for restored sites to promote herbaceous diversity and remove woody cover.</p> <p><u>Next Step Treatments:</u> Pesticide, Skidder - Site Prep; Burn, Opening; Burn, Opening</p> <p><u>Acceptable Regen:</u> Species of the oak-pine barrens natural community.</p> <p><u>Other Comment:</u> This process to set back succession while trying to maintain Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA will dependent upon funding.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
<b>69 33109069-Cut</b>	38.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	87	111-140	Harvest	Clearcut	4310 - Pine, Oak Mix	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than 3" dbh except leave some healthy oak to retain for mast and seed. Next Steps of trench, herbicide and plant red pine. Natural white pine seedlings and white pine seed from adjacent trees will provide pine diversity.</p> <p><u>Next Step Treatments:</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Herbicide Use</p> <p><u>Acceptable Regen:</u> Species of pine and oak that will over time bring this stand to resemble more of the Oak-Pine Barrens natural community.</p> <p><u>Other Comment:</u> This is a mature stand with dead oak present. This stand is within the Shakey Lakes Oak-Pine Barrens ERA but not within an Element Occurrence. The proposed treatment will help remove aspen and other species not indicative of the Oak-Pine Barrens habitat. Then follow up with planting red pine to full stock will ensure pine will remain a dominant species and oak seed trees will provide seed for dispersed oak trees. Planted pine seedling failure will provide open areas and should not be followed up with a re-planting. Over time this stand will be thinned down to densities that better resemble the Oak-Pine Barrens habitat.</p> <p>Clearcutting is the solution to forest types whose seedlings or sprouts require full sunlight. Seeds and buds respond well to the warmed ground. The abundance of light produces excellent growth, some of the fastest we have. Species such as aspen, paper birch, and jack pine require full sunlight. Oak sprouting responds well to full sunlight with rapid growth keeping up to aspen sprouts. This aids desired regeneration to reach heights in a shorter length of time that will put buds out of browser's reach.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										

**Approved Treatments:**

<b>55 33109010-Monitor</b>	2.1	4130 - Aspen	Sapling Medium	3	Immature	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Regen survey and monitor for oak wilt.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Oak, maple, aspen and pine.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></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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Proposed Start Date: 3 /25/2021

39	<b>33109014.20_</b> <b>Monitor</b>	3.0	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	10	Immatur re	Monitoring	Natural Regen (Re-Inventory)	4121 - Oak, Aspen	Even-Aged	No
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Prescription Monitor for oak wilt and regeneration.

Specs:

Next Step

Treatments:

Acceptable Oak, aspen, and red maple.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 6 /19/2017

57	<b>33109022-</b> <b>Monitor</b>	0.9	4131 - Aspen, Oak	Sapling Medium	10	111- 140	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Regen survey and monitor for oak wilt.

Specs:

Next Step

Treatments:

Acceptable Oak, maple, aspen and pine.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 3 /25/2021

51	<b>33109034-</b> <b>Monitor</b>	0.9	330 - Low-Density Trees	Nonstocked		Unspec ified	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Regen survey and monitor for oak wilt.

Specs:

Next Step

Treatments:

Acceptable Oak, maple, aspen and pine.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 3 /25/2021



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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
<b>67 33109038-Monitor</b>	1.1	4131 - Aspen, Oak	Sapling Medium	12	1-50	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Regen survey and monitor for oak wilt.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Oak, maple, aspen and pine.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 3 /25/2021</p>										
<b>62 33109043-Monitor</b>	0.8	4131 - Aspen, Oak	Poletimber Well	44	51-80	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Regen survey and monitor for oak wilt.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Oak, maple, aspen and pine.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 3 /25/2021</p>										
<b>55 33109077.18_Monitor</b>	3.7	4130 - Aspen	Sapling Medium	3	Immature	Monitoring	Natural Regen (Re-Inventory)	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> Monitor for oak wilt and regeneration.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Oak, aspen, and red maple.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 6 /19/2017</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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<b>57</b>	<b>33109077.19_Monitor</b>	2.4	4131 - Aspen, Oak	Sapling Medium	10	111-140	Monitoring	Natural Regen (Re-Inventory)	4121 - Oak, Aspen	Even-Aged	No
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Prescription Monitor for oak wilt and regeneration.

Specs:

Next Step

Treatments:

Acceptable Oak, aspen, and red maple.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 6/19/2017

<b>39</b>	<b>33109089-Monitor</b>	1.6	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	10	Immature	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Regen survey, monitor for oak wilt.

Specs:

Next Step

Treatments:

Acceptable Oak, maple, aspen, birch and pine.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 3/25/2021

<b>42</b>	<b>33109097-Monitor</b>	0.4	4130 - Aspen	Sapling Well	13	Immature	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	No
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Prescription Regen survey and monitor for oak wilt.

Specs:

Next Step

Treatments:

Acceptable Aspen, maple and oak.

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 3/25/2021



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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
<b>39 33109105.21_Monitor</b>	3.1	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	10	Immature	Monitoring	Natural Regen (Re-Inventory)	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> Monitor for oak wilt and regeneration.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Oak, aspen, and red maple.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 6 /19/2017</p>										
<b>36 33109105-Monitor</b>	0.5	4310 - Pine, Oak Mix	Sawtimber Medium	81	51-80	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Regen survey, monitor for oak wilt.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Oak, maple, aspen, birch and pine.  <u>Regen:</u>  <u>Other</u> Percent to Treat = 100%  <u>Comment:</u>  <u>Site Condition</u> Age-Class or Site Quality  <u>Proposed Start Date:</u> 3 /25/2021</p>										

**Total Treatment 915**  
**Acreage Proposed:**

## Report 4 – Site Conditions

Escanaba Mgt. Unit  
Dan Beaudou : Examiner

Compartment: 109  
Year of Entry: 2023

### Availability for Management

Total	Acres	<b>Acres Avail</b>	Acres
Acres	Available	<b>With Condition</b>	Not Available

### Dominant Site Conditions

**5C**

928	928	<b>0</b>	0	Aspen	
12	12	<b>0</b>	0	Jack Pine	
6	6	<b>0</b>	0	Low-Density Trees	
5	5	<b>0</b>	0	Lowland Shrub	
12	12	<b>0</b>	0	Lowland Spruce/Fir	
47	47	<b>0</b>	0	Marsh	
194	194	<b>0</b>	0	Mixed Upland Deciduous	
38	38	<b>0</b>	0	Natural Mixed Pines	
19	19	<b>0</b>	0	Northern Hardwood	
201	185	<b>16</b>	0	Oak	<b>16</b>
20	0	<b>20</b>	0	Upland Mixed Forest	<b>20</b>
17	17	<b>0</b>	0	Urban	
18	18	<b>0</b>	0	Water	
5	5	<b>0</b>	0	White Pine	
1,523	1,488	<b>35</b>		Total Forested Acres	<b>35</b>
	98%	<b>2%</b>	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	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Save for age and class diversity.							
2	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Lower density of large trees to save for age and size class diversity.							

**Report 4 – Site Conditions**

**Escanaba Mgt. Unit**  
**Dan Beaudou : Examiner**

**Compartment: 109**  
**Year of Entry: 2023**

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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
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**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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
1	4125 - Black, N. Pin Oak	Sawtimber Medium	5.0	89	1-50	N/A	Majority of the trees are northern pin oak with some aspen, red oak, pine and red maple. Over mature stand with dead oak trees present. This stand should be treated to promote oak, pine and aspen regeneration before mortality sets back the ability for stump and root sprouting.																																							
<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>Northern Pin Oak</td> <td>75</td> <td>Log</td> <td>14</td> <td>89</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>10</td> <td>Log</td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Northern Pin Oak	75	Log	14	89	Bigtooth Aspen	10	Log/Pole	10		Quaking Aspen	5	Log/Pole	10		Red Oak	10	Log	14		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Hazelnut (Spp.)</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Ironwood</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub	Ironwood	Medium	Variable	Sapling					
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2	4130 - Aspen	Sawtimber Well	5.6	59	81-110	N/A	Aspen starting to get conks. Mature stand ready for final harvest to promote stump and root sprouting. Dead oak trees present. Trace of red and jack pine.																																							
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3	122 - Road/Parking Lot	Nonstocked	2.0		Unspecified	No	River Road-an asphalt County road and right of way.																																							
4	4131 - Aspen, Oak	Sapling Medium	10.3	11	1-50	N/A	The northern portion of this stand was treated in 2009 by the Savanna Oak and Aspen 33-023-08 timber sale. All species were cut except oak, red and white pine. Good aspen and oak regeneration. The southern portions was an opening that is filling in with aspen and oak with some mature large trees present.																																							
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5	4131 - Aspen, Oak	Sawtimber Well	37.7	47	81-110	N/A	Portions of this stand was cut in 1982 under contract 17-82 which removed some of the jack pine and aspen. This produced a stand with variable aspen diameters as noted in 2006 comments of more smaller diameter than larger diameter aspen. The majority of the stand is now merchantable with some signs of being over mature such as conk formation on the aspen and dead oak trees present.  trace of pine spruce fir																																							
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6	4130 - Aspen	Sapling Medium	87.1	10	Immature	N/A	Part of this stand contains an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA. This area was burned in May of 1994. Aspen and hazel have filled in this stand since prescribed burn has been used. There is trace amounts of larger oak and pine. Management objective is Oak pine barrens conditions. May take several successive burns to achieve oak-pine barrens conditions.																																							
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7	6229 - Mixed lowland shrub	Nonstocked	4.5		Unspecified	No	Lowland brush stand with some scattered tree species.																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
8	4130 - Aspen	Sapling Well	53.1	20	Immature	N/A	Variable size to the aspen being 1-8" dbh. Stand has been prescribed burned in the past. This area was burned in May of 1994. Aspen and hazel have filled in this stand since prescribed burn has been used. There is trace amounts of larger oak and pine. Management objective is Oak pine barrens conditions. May take several successive burns to achieve oak-pine barrens conditions.  Part of this stand contains an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA.																																															
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9	4125 - Black, N. Pin Oak	Sawtimber Medium	6.2	104	1-50	N/A	Most of this stand is within an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA. There is clumps of dead oak and trace amounts of pine, red oak and aspen.																																															
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10	4122 - Oak, Pine	Sawtimber Medium	16.8	104	51-80	N/A	Part of this stand was shelterwood treated in 2009 by the Savanna Oak and Aspen 33-023-08. A shelterwood harvest was used, 40 BA of a mix of species was retained. Trace amounts of cherry, red and jack pine. Mature stand with some dead trees present.																																															
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11	4125 - Black, N. Pin Oak	Sapling Well	26.9	13	Immature	N/A	Stand was treated in 2008 by the Savanna Oak Wilt 33-024-08 timber sale. Most of it was part of a prescribe burn in 2017. Good oak regeneration with some mature pine present.																																															
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12	42200 - Natural White Pine	Sawtimber Medium	5.0	47	51-80	N/A	Conifer stand mostly made up of white pine with some pin oak, jack and white pine. Regeneration from past oak wilt treatment is aspen, oak and some pine.  Part of this stand contains an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA.																																															
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13	122 - Road/Parking Lot	Nonstocked	5.3		Unspecified	No	River Road and Menominee County Right Of Way.																																															



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14	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	23.6	27	1-50	N/A	Stand had oak wilt epicenters scattered within it and identified by the 2015 oak wilt surveillance. All trees were cut greater than 3" dbh except red and white pine by the Southern Oak Wilt 33-022-16 timber sale. Aspen and oak regeneration is filling in the open areas.  The east half of this stand contains an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA.																																						
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15	4121 - Oak, Aspen	Sapling Medium	83.0	13	Immature	N/A	Much of this stand was treated by the Savanna Oak Wilt 33-024-08 timber sale. The roller chopped areas have a high density of aspen and oak sprouting/regeneration. Trace of maple, birch, and white pine.  Part of this stand contains an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA.																																						
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Hazelnut (Spp.)	Medium	5 - 10 feet	Tall Shrub																																										
16	4131 - Aspen, Oak	Poletimber Medium	27.9	46	1-50	N/A	The majority of this stand is within an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA. The rest of the stand is part of a burn buffer up to the private land. Variable age and density of trees in this stand. Some trace amounts of maple, red pine, white pine and cherry.																																						
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17	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	12.3	9	Immature	N/A	This stand was harvested by the G-12 Oak Wilt 33-021-07 timber sale. The stand was then trenched with a passive trencher in 2011 and planted with 2-0 jack pine on 5/5/12 at a rate of 788 trees per acre. Maybe 50 % of the jack pine is growing good. Oak sprouting with some aspen, cherry and maple filling in. Part of this stand contains an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA.																																						
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18	4131 - Aspen, Oak	Sapling Well	5.8	14	1-50	N/A	Stand was treated by the G-12 Oak Wilt 33-021-07 timber sale. Mature pine with aspen, oak and maple regeneration. Trace of red pine, jack pine, cherry and spruce. Part of this stand contains an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA.																																						
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19	4130 - Aspen	Sapling Medium	14.0	14	Immature	N/A	Stand was treated by the G-12 Oak Wilt 33-021-07 timber sale. Good regeneration of aspen, oak, maple with some residual large pine present. Aspen is thick with open areas filling in with cherry, oak and pine. Part of this stand contains an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA.																																																				
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20	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	20.0	86	1-50	N/A	This stand was treated by the G-12 Oak Wilt 33-021-07 timber sale. The stand has 30-50 basal area of oak retained with some large pine. About 15% of the oak are dead standing. Regeneration of pine, oak, maple and aspen understory. Part of this stand contains an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA.																																																				
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21	4131 - Aspen, Oak	Sapling Medium	20.9	14	Immature	N/A	Stand was treated by the G-12 Oak Wilt 33-021-07 timber sale. There is scattered areas of dead oak stump sprouts. Trace of pine, cherry, spruce, and red oak. Mature retention trees of maple, oak and pine.  Part of this stand contains an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA.																																																				
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23	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	9.1	91	1-50	N/A	Stand was treated in 2007 by the G-12 Oak Wilt 33-021-07 timber sale. This has produced an uneven aged stand with dense regeneration of aspen.																																																				
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24	4130 - Aspen	Poletimber Well	29.5	28	Immature	N/A	This stand was treated by the Shakey Lakes Block 33-44-90 timber sale. Trace amounts of red maple, birch, cherry, jack and red pine																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
25	4130 - Aspen	Poletimber Well	26.9	37	111-140	N/A	Stand was treated under contract #42-83 in 1984. Clearcut except leave oak with 12" or greater at the stump. Some large oak mast trees present trace of birch and cherry. Some small oak wilt patches were treated in 2007.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Quaking Aspen		60	Pole	6	37	Hazelnut (Spp.)		Low	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		20	Pole/Log	8							
Red Maple		15	Sapling/Pole	4							
Northern Pin Oak		5	Sapling/Pole	3							
26	4125 - Black, N. Pin Oak	Sawtimber Poor	12.9	90	1-50	N/A	Few scattered oak - clumps of Jack Pine. Understory hazel. This stand was than burned under FTP W33-612. Some of the stand had red oak removed by the G-12 Oak Wilt timber sale in 2007 due to oak wilt. Part of this stand contains an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Northern Pin Oak		90	Log	14	90	Northern Pin Oak		Medium	Variable	Sapling	
Jack Pine		10	Pole	6		Sweet Fern		High	5 - 10 feet	Tall Shrub	
						Big Bluestem		Low	Unspecified	Non-Wood	
						Little Bluestem		Medium	Unspecified	Non-Wood	
						Hazelnut (Spp.)		Medium	5 - 10 feet	Tall Shrub	
27	4130 - Aspen	Sawtimber Well	34.1	49	51-80	N/A	1.5 acres of this stand was cut in the winter of 2012-13 on contract 021-13-01 to treat oak wilt. This stand had a vibratory plow line put around it, than all pin/red oak and aspen was cut. The rest of the stand is over mature aspen, dying aspen and oak. The canopy is closer to 75% due to wind thrown trees and low areas have signs of recent flooding.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Quaking Aspen		75	Log/Pole	10	49	Hazelnut (Spp.)		Low	5 - 10 feet	Tall Shrub	
Northern Pin Oak		15	Log	16		Northern Pin Oak		Low	5 - 10 feet	Sapling	
Jack Pine		5	Log	10							
Bigtooth Aspen		5	Log	12							
28	4131 - Aspen, Oak	Sapling Poor	49.0	14	Immature	N/A	This stand was roller chopped in the spring of 2007, with the intent of killing of the aspen and hazel. This stand was than burned under FTP W33-612 on 6/14/07.  Part of this stand contains an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Quaking Aspen		50	Sapling	2	14	Hazelnut (Spp.)		High	5 - 10 feet	Tall Shrub	
Northern Pin Oak		40	Sapling	4		Little Bluestem		Low	Unspecified	Non-Wood	
Jack Pine		10	Sapling	2		Bracken Fern		Low	Unspecified	Non-Wood	
29	4130 - Aspen	Sawtimber Medium	48.5	50	51-80	N/A	This stand is mature with some trees over mature having conks and mortality. 3 acres of this stand was cut in the winter of 2012-13 on contract 021-13-01 to treat oak wilt. This stand had a vibratory plow line put around it, than all pin/red oak and aspen were cut. Low areas show signs of flooding within the last couple years. Trace amounts of pine, cherry, balm and red oak.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Quaking Aspen		60	Log/Pole	10	50	Northern Pin Oak		Medium	Variable	Sapling	
Bigtooth Aspen		20	Log	14		Hazelnut (Spp.)		High	5 - 10 feet	Tall Shrub	
Red Maple		5	Log/Pole	12		Aspen (spp.)		Medium	Variable	Sapling	
Northern Pin Oak		15	Log	14							
30	4131 - Aspen, Oak	Sapling Poor	18.8	8	Immature	N/A	Stand was treated in 2013 by the Scattered Oak Wilt 33-021-13 timber sale. The aspen and red oak were removed. Trace amounts of red maple and northern pin oak trees.				
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>	
Quaking Aspen		40	Sapling	1	8	Hazelnut (Spp.)		High	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		40	Sapling	1							
Northern Pin Oak		20	Sapling	1							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
31	4130 - Aspen	Poletimber Well	48.7	35	111-140	N/A	This stand was clearcut under contract #35-85-01 between 1985 and 1987. Trace amounts of oak and cherry.																																						
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32	4113 - R.Maple, Conifer	Sawtimber Well	18.8	87	81-110	N/A	Variable stand with a higher concentration of red maple for the area. Stand is mature with dead trees on the ground and overall poor quality.																																						
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33	4130 - Aspen	Sapling Well	46.6	10	Immature	N/A	Stand was treated by the Muskrat Oak Wilt 33-021-11 timber sale. All oak greater than 3", jack pine greater than 4" and aspen were cut except leave a healthy aspen every 33'. Aspen and oak has dense regeneration. Trace of birch, cherry and pine.																																						
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34	6233 - Wet Meadow	Nonstocked	3.5		Unspecified	No	Aspen saplings and some jack pine scattered in a tall grassy wet area.																																						
35	4121 - Oak, Aspen	Sawtimber Well	11.3	70	81-110	N/A	Larger oak with pole to log sized aspen. Oak wilt epicenter treated south tip of stand.																																						
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36	4310 - Pine, Oak Mix	Sawtimber Medium	9.5	81	51-80	N/A	This is a mature stand containing both upland and lowland areas. Oak wilt epicenters have been treated within this stand. The most current treatment was in during the winter of 2020/21 by the 109 Oak Wilt 33-021-20 timber sale. Trace amounts of balsam, spruce, balm, ash and cherry.																																						
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37	6239 - Mixed Emergent Wetland	Nonstocked	2.7		Unspecified	No	Low area with intermittent water present.																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
<b>38</b>	4125 - Black, N. Pin Oak	Sawtimber Medium	7.7	72	81-110	N/A	A 3.1 acre piece of this stand was harvested in 2017 on contract 33-022-01 to treat oak wilt. This area was along the north line. In 2014, an oak wilt epicenter was located in the stand. It was about 0.3 acre in size, treated with vibratory plow and all trees(except pine, white oak and spruce) removed under contract 33-021-14-01. OPIC - FMD: Lots of dead oak. Low quality over mature pin oak. Pockets of overmature aspen. (See compartment header for additional information regarding ERA management objectives and treatments) 16.9 acres of this stand were final harvested in the winter of 2010-11 on contract 021-11-01. This stand was cut to stop the spread of oak wilt disease. There was a vibratory plow line put in to severe the oak roots. Some of the oak stumps will sprout, but the stand is being managed for Savanna/Oak Pine Barrens.																																																			
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<b>39</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	101.2	10	Immature	N/A	Areas treated for oak wilt are scattered within this stand originating from the adjacent mature oak stands. This is a more open stand with scattered mature oak and pine. Regeneration of aspen, oak, pine and maple is present.  Part of this stand contains an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA.																																																			
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<b>40</b>	623 - Emergent Wetland	Nonstocked	2.2		Unspecified	No	During wet years this contains water.																																																			
<b>41</b>	623 - Emergent Wetland	Nonstocked	4.1		Unspecified	No	This contains water during a wet year.																																																			
<b>42</b>	4130 - Aspen	Sapling Well	25.6	13	Immature	N/A	Stand was final harvested on contract 023-06-01 in 11/08. This sale is filed in comp 6. 15.4 acres of this stand had the oak final harvested in the winter of 2010-11 on contract 021-11-01. This stand was cut to stop the spread of oak wilt disease. There was a vibratory plow line put in to severe the oak roots. Some of the oak stumps will sprout, but the stand is being managed for Savanna/Oak Pine Barrens. Trace amounts of beech and pine.																																																			
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<b>43</b>	4130 - Aspen	Sapling Well	16.2	10	Immature	N/A	Oak wilt was found in the stand during 2015 oak wilt surveillance. 17.1 acres was treated with timber harvest under the Southern Oak Wilt 33-022-16 timber sale. In 2009 on contract Baked Muskrat 33-038-08 all aspen, birch, and red maple were removed. A couple of small epicenters of oak wilt were removed as part of the timber sale. These areas were not trenched, they were surrounded by aspen.																																																			
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44	500 - Water	Nonstocked	17.9		Unspecified	No	Muskrat Lake. Water level is high in 2020-21. A high number of water fowl are using the lake at this time.																																						
45	623 - Emergent Wetland	Nonstocked	16.0		Unspecified	No	This area is holding water during 2020-21. Shoreline around Muskrat Lake vary with water level.																																						
46	623 - Emergent Wetland	Nonstocked	6.5		Unspecified	No	Contains water during wet years like 2020-21. Some trees species scattered on higher areas of this wet area.																																						
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47	4133 - Aspen, Mixed Pine	Sapling Medium	12.1	10	Immature	N/A	This stand was treated for oak wilt by the Scattered Oak Wilt 33-021-13 timber sale. Infected oak along with all aspen and oak greater than 3" were cut. Regenerating to oak, aspen and pine.																																						
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48	4131 - Aspen, Oak	Sawtimber Well	11.5	101	111-140	N/A	Stand is over mature aspen and oak with mortality setting in. Parts of the original stand have been cut due to oak wilt presence.																																						
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49	4199 - Other Mixed Upland Deciduous	Sapling Poor	13.4	5	Immature	N/A	Several small oak wilt epicenters have been treated within this stand over the years. It is now primarily regenerating aspen, oak and maple with hazel shrub.																																						
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50	122 - Road/Parking Lot	Nonstocked	4.1		Unspecified	No	Sturgeon Landing Road maintained by the Menominee County Road Commission.																																						
51	330 - Low-Density Trees	Nonstocked	6.2		Unspecified	No	Two different oak wilt treatments have occurred within this stand by trenching and clearcut except pine. Most recent oak wilt epicenter treatment was by the 109 Oak Wilt 33-021-20 timber sale. There is residual pine, oak stump sprouts and seedlings, cherry, maple and hazelnut.																																						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
<b>52</b>	4130 - Aspen	Sapling Medium	14.0	12	Immature	N/A	Stand was treated in 2008 by the Puzzle Piece Oak Wilt 33-025-08 timber sale. There is scattered large pine, oak, aspen. Mostly aspen with some oak and pine regeneration and hazelnut shrub currently present. Trace of other species like cherry and some pine regeneration.																																																
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<b>53</b>	623 - Emergent Wetland	Nonstocked	2.9		Unspecified	No	Small wet meadow or emergent wetlands.																																																
<b>54</b>	4125 - Black, N. Pin Oak	Sawtimber Medium	15.1	87	51-80	N/A	There was an oak wilt epicenter treated the winter of 2020/21 by the 109 Oak Wilt 33-021-20 timber sale. The rest of the stand is oak, pine with pockets of aspen and oak regeneration.																																																
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<b>55</b>	4130 - Aspen	Sapling Medium	6.1	3	Immature	N/A	All species were removed except oak, red pine and white pine by the Unbalanced Aspen 33-034-08 timber sale in 2010. In 2017, an oak wilt epicenter was treated in the center of the stand by the Broken Witch O.W. 33-022-17 timber sale. Two oak wilt epicenters were treated at the north and south ends of this stand by the 109 Oak Wilt 33-021-20 timber sale in 2021. First, they were trenched fall of 2019 with vibratory plow then clearcutting the winter of 2020/21 within the perimeter. Aspen and oak sprouts are prevalent in the older treatment. There is a strip of mature oak between the treatments.																																																
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<b>56</b>	4125 - Black, N. Pin Oak	Sawtimber Well	16.3	87	81-110	N/A	Mature oak stand that was treated in 2010 by the Unbalanced Aspen 33-034-08 timber sale. All merchantable species were removed except oak, red and white pine. Since then oak wilt epicenters have been treated reducing the stand size. There is aspen, maple and oak regeneration with trace amounts of other species.  Part of this stand contains an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA.																																																
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<b>57</b>	4131 - Aspen, Oak	Sapling Medium	24.8	10	111-140	N/A	There are small treated oak wilt patches within this stand by different timber sales over the years. All merchantable species except oak, red pine and white pine were removed in 2010 by the Unbalanced Oak 33-034-008 timber sale. Most of the stand is younger regeneration with scattered areas of larger oak and some pine. Trace amounts of other species like red oak, cherry, birch, balsam and spruce.  Part of this stand contains an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>58</b>	4130 - Aspen	Poletimber Well	72.7	27	Immature	N/A	Most of this stand was treated by the Unbalanced Aspen 33-034-08 timber sale. Larger aspen and red maple were removed along with some jack and red pine. Oak was retained except for areas of oak wilt epicenters.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		40	Pole	6	27	Hazelnut (Spp.)		
Bigtooth Aspen		40	Pole	8		Aspen (spp.)		
Northern Pin Oak		15	Pole	6		Cherry (spp.)		
Red Maple		5	Pole	8		Red Maple		
<b>59</b>	42250 - Pine, Oak	Poletimber Poor	14.6	25	Immature	N/A	Grass opening with scattered pin oak, jack pine and cherry.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Jack Pine		60	Pole	6	25	Mixes Sedges/Grasses		
Northern Pin Oak		30	Pole	8		Sweet Fern		
Black Cherry		10	Sapling	4				
<b>60</b>	4130 - Aspen	Sawtimber Well	23.2	52	111-140	N/A	Mature aspen stand with some oak, maple, cherry, spruce and pine.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Quaking Aspen		40	Log	10	52	Red Maple		
Bigtooth Aspen		40	Log	12	52			
Red Maple		5	Pole	8				
White Pine		10	XLog	18				
Red Pine		5	Log	16				
<b>61</b>	4130 - Aspen	Sapling Well	22.7	12	Immature	N/A	Stand was harvested in 2009 by the 33-024-07 timber sale with the adjacent compartment. Good aspen regeneration. Some residual large pine and oak. Trace of maple, jack and red pine.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Bigtooth Aspen		55	Sapling	3	12	Mixes Sedges/Grasses		
Quaking Aspen		30	Sapling	2				
White Pine		5	Log	16				
Northern Pin Oak		10	Log/Pole	10				
<b>62</b>	4131 - Aspen, Oak	Poletimber Well	21.6	44	51-80	N/A	Aspen stand with some variable size. Oak wilt epicenters have been treated in the past. Most recent oak wilt epicenter treatment was in 2020-21 by the 109 Oak Wilt 33-021-20 timber sale.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Bigtooth Aspen		60	Pole	8	44	Hazelnut (Spp.)		
Quaking Aspen		20	Pole	6				
Northern Pin Oak		20	Log/Pole	12				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
63	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	11.8	101	1-50	N/A	This is a mature stand with dead oak and past oak wilt epicenters that were treated. Trace amounts of birch, cherry, balsam, spruce and tamarack.																																																						
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64	4131 - Aspen, Oak	Sapling Well	28.1	25	Immature	N/A	Stand was treated in 2008 by the Oak Hill Oak Wilt 33-023-07 timber sale. Good regeneration with some large pine residual trees present.																																																						
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65	4310 - Pine, Oak Mix	Sawtimber Poor	10.2	87	1-50	N/A	Scattered large pine, aspen, maple, oak over aspen, oak, maple regeneration.																																																						
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66	6122 - Black Spruce	Sapling Medium	12.3	58	1-50	N/A	Overall small diameter poor quality and wet. Trace cedar, maple and oak.																																																						
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67	4131 - Aspen, Oak	Sapling Medium	78.5	12	1-50	N/A	Part of this stand contains Element Occurrence areas of the Shakey Lakes Oak-Pine Barrens ERA. Various timber harvests have occurred to primarily treat oak wilt areas.																																																						
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68	623 - Emergent Wetland	Nonstocked	9.0		Immature	No	Variable wet areas with others supporting tag alder, pine, spruce and tamarack.																																																						
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<b>69</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	38.8	87	111-140	N/A	Stand has been treated for oak wilt in the past and has been reduced in size over the years. The southern portion was clearcut in 1989 except leave pine by contract #24-86. The northern portions had red oak removed with oak wilt treatments. Northern pin oak remains with aspen, maple, pine with trace amounts of white oak, spruce, fir and cherry.  Part of this stand contains an Element Occurrence area of the Shakey Lakes Oak-Pine Barrens ERA.																																																							
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<b>70</b>	4130 - Aspen	Sapling Well	6.9	13	Immature	N/A	Oak wilt treatment occurred in 2007-08 by the Puzzle Piece Oak Wilt 33-025-08 timber sale. Good regeneration of aspen, maple, oak and cherry with trace amounts of spruce, fir and pine.																																																							
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<b>71</b>	122 - Road/Parking Lot	Nonstocked	0.8		Unspecified	No	River Road with grass shoulder.																																																							