



# Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63025

Entry Year 2021

Acreage: 1,952

County Lake

Management Area: Lake County Outwash

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**Revision Date:** 2019-06-20

**Stand Examiner:** Ryan Adamczyk

**Legal Description:**

T18N R12W Sec.20, 21, 22, 27, 28, 29.

**Identified Planning Goals:**

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

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

**Soil and topography:**

Grayling-Graycalm,; Tawas-Croswell-Tawas, flat and very wet with scattered ridges and rolling hills surrounding swampy areas.

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

This compartment is mostly state owned and generally in large blocks. There are a few isolated tax reverted parcels. The private lands are mostly seasonal recreation properties.

**Unique Natural Features:**

Dusted skipper recorded on state land within section 13. Great Plains spittlebug\* recorded in se 1/4 of section 13 within compartment, in the ne 1/4 of section 11 just outside of compartment, and to the sw. Bald eagle to s. Common loon to s. Redshouldered hawk to ne. Northern goshawk to e and n. Grasshopper sparrow to n. Massasauga to s. Wood turtle to n, ne, s, and sw. Eastern box turtle to n. Ottoe skipper to sw. Several Hill's thistle records to the n, nw, and sw. Two Missouri rock-cress records to the w. Historical Virginia bluebells record to ne along Honey Creek. High quality poor conifer swamp to s. Potential or dry prairie plants in grassy openings: Hill's thistle, rough fescue, Alleghany plum, and pale agoseris. Potential for dusted skipper, Ottoe skipper, and Great Plains spittlebug.

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

Parts of this area are old hay fields from the early 1900's. During this same period there were also numerous shingle and sawmills surrounding the swamp. There is no evidence of these mills currently.

**Special Management Designations or Considerations:**

This area is isolated and mostly inaccessible so visual management concerns will be limited to roads, private lands, and maintained grass openings. The streams and headwaters will be protected and their integrity maintained.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:**

Featured wildlife species in this Management Area are diverse reflecting the wide range of habitat types present. Featured Species for the MA include two which are not much of a focus in this compartment, Mallard and Woodduck. More applicable are American Martin, American Woodcock, Beaver, Black Bear, Eastern Massauga rattlesnake, Golden-winged warbler, Pileated woodpecker, Red-headed woodpecker, Ruffed Grouse, Snowshoe Hare, Wild Turkey, and White Tailed deer. Most of these species benefit from young forest and open types while some require some old trees for foraging and nest/den sites. Maintaining the opening types and balancing harvests with a diverse assortment of age classes in the timber types will meet the goals for these species.

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

The nearest active sand/gravel pit is located two miles to the west, and there appears to be some sand & gravel potential on the uplands within the compartment. The nearest oil and gas production, past or present, is greater than four miles away. A number of test holes have been drilled in the area targeting Devonian carbonates but all were reported as dry holes. However, mineral rights in the western portion of the compartment have been leased within the past year. There has been additional leasing activity to the northeast, and a well permit was issued three weeks ago in Section 23 for a new oil well with a proposed target of the Traverse Formation. Potential for oil & gas exploration and development within the compartment appears to be relatively high at this time. There is no known metallic mineral potential in this part of the state. 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:**

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR.

**Survey Needs:**

None needed.

**Recreational Facilities and Opportunities:**

Due to the limited access of the area the use is primarily for hunting and trapping.

**Fire Protection:**

Access is extremely limited to vehicles such as engines. The stand is very wet which will reduce the concern for fires, during most times. Any fire that does occur within this compartment will be very labor intensive to control.

**Additional Compartment Information:**

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

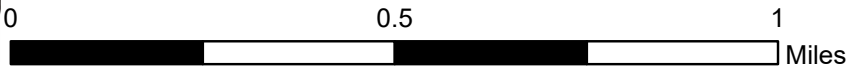
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

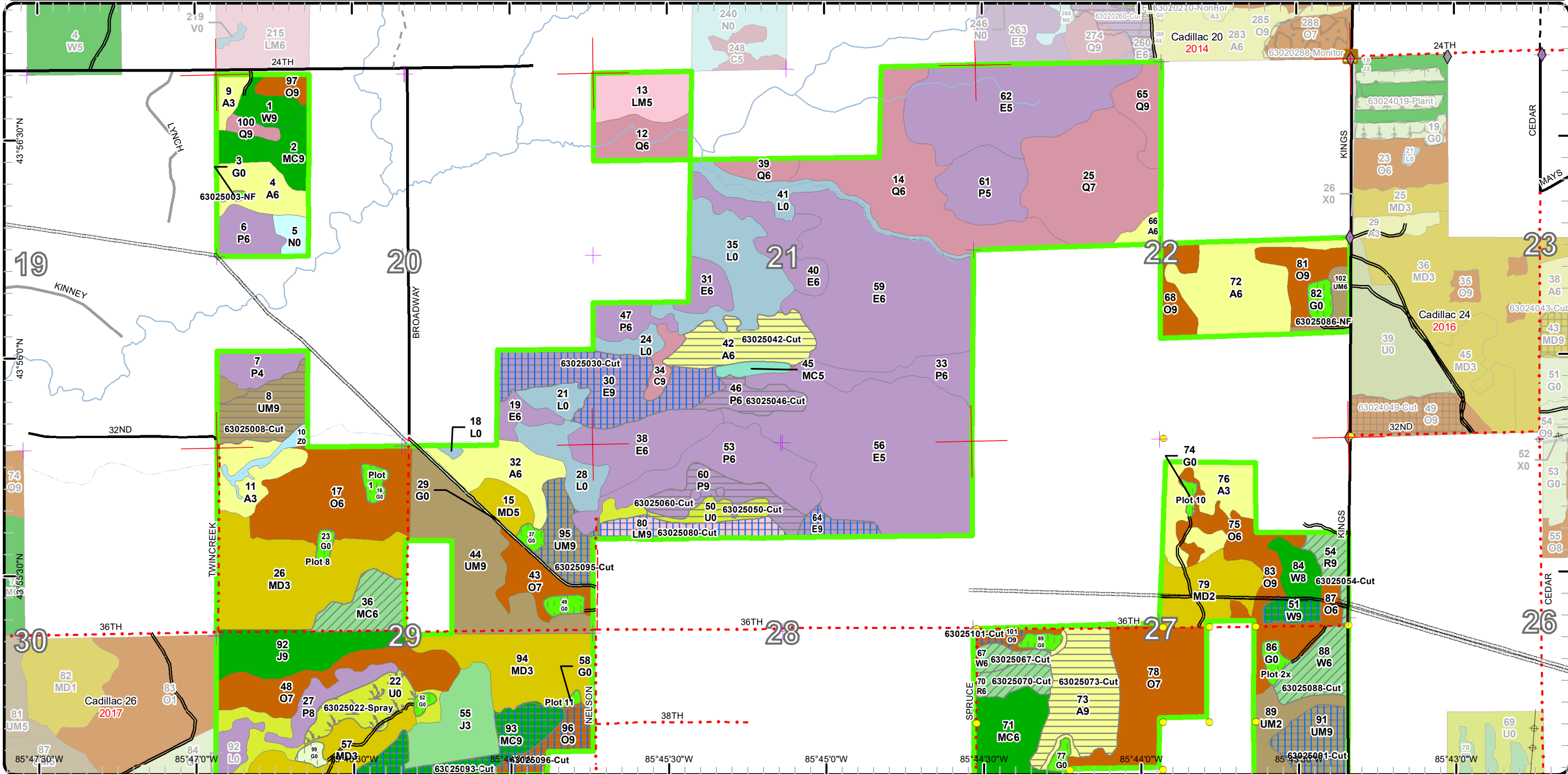
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 25  
 T13N - R12W Sec. 20-22, 27-29  
 County: Lake  
 Unit: Cadillac  
 Mgmt Area: Lake County  
 Outwash  
 YOE: 2021  
 Acres: 1,952 GIS Calculated  
 Examiner: Ryan Adamczyk  
 Map Revised: 11/18/2019  
 Map Phase: Post-Review



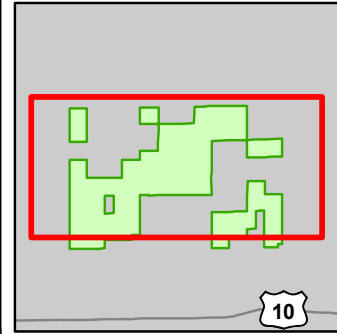
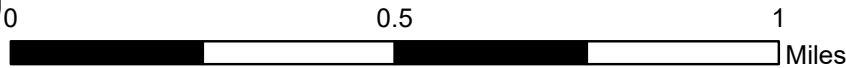
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- ▲ Campground
- Intermittent Stream
- Perennial River
- Pipeline
- Powerline
- Compartment Boundary
- Pesticide
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 211 - Cropland
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



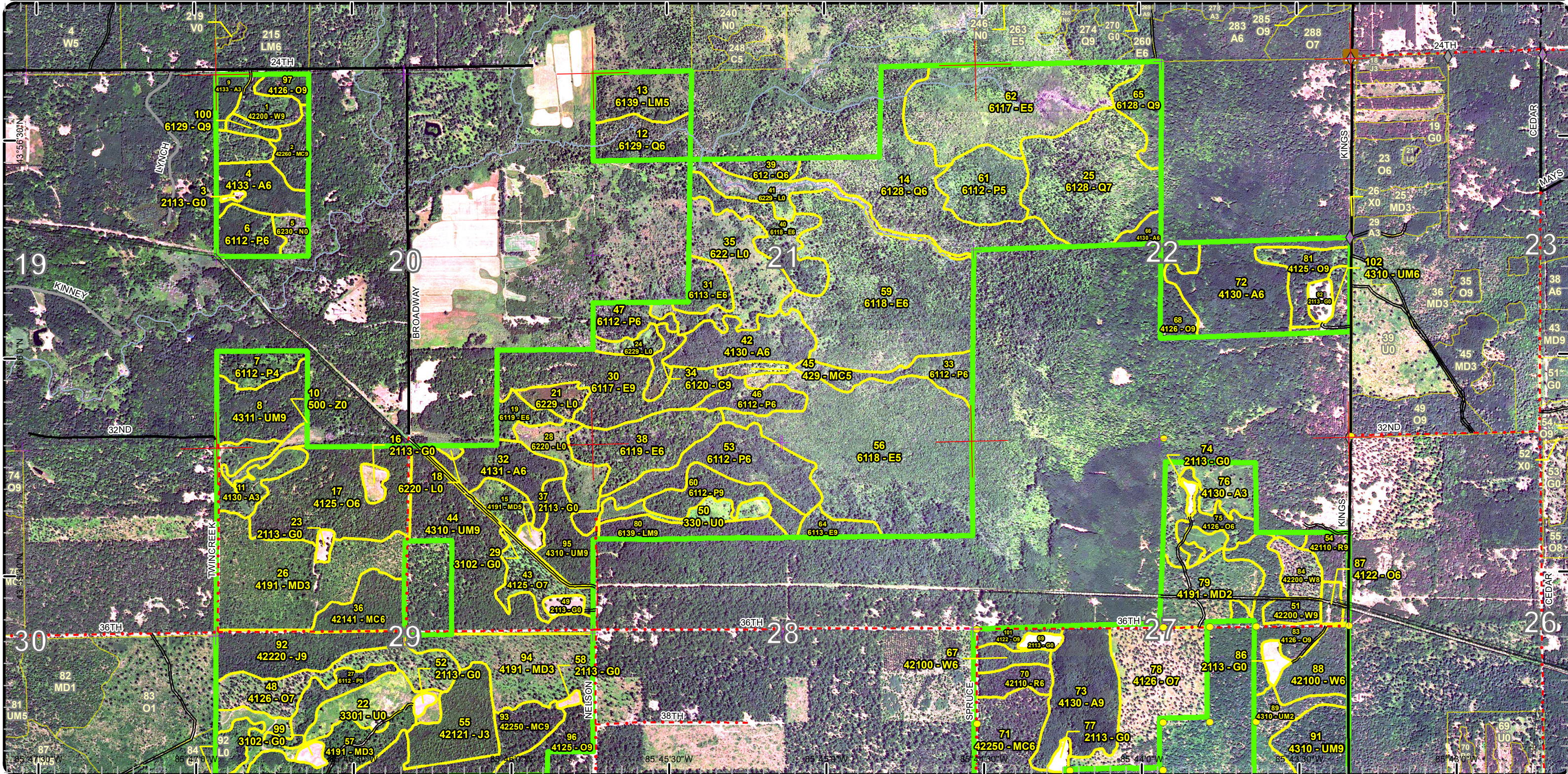


# Stand Boundary Map

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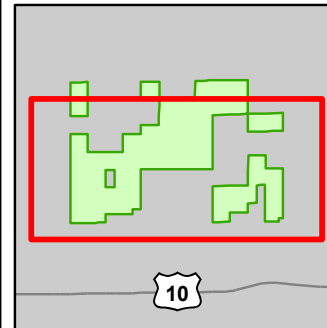




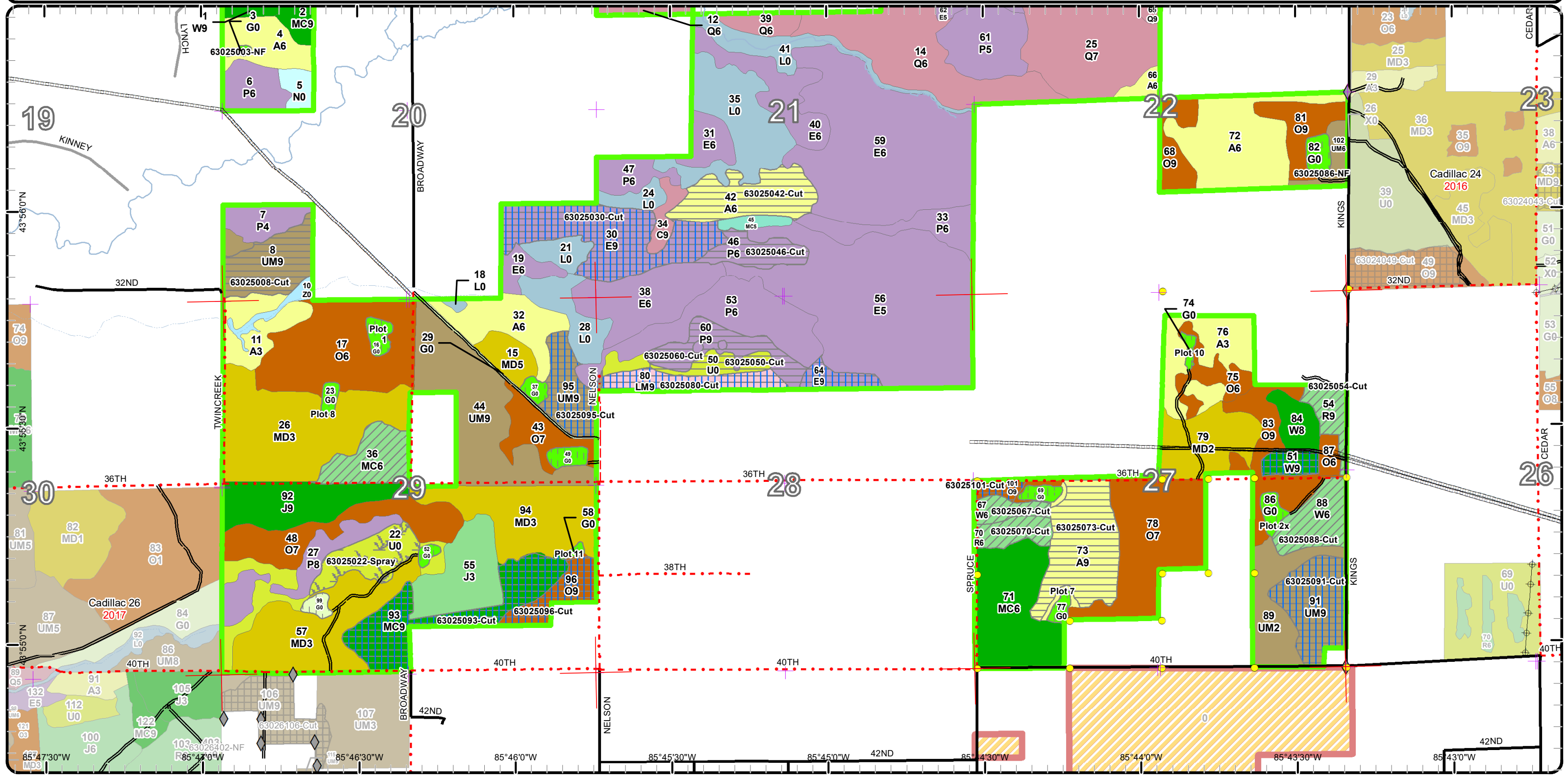


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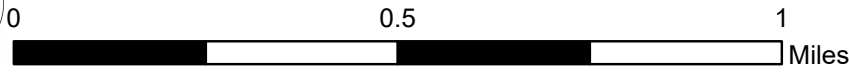
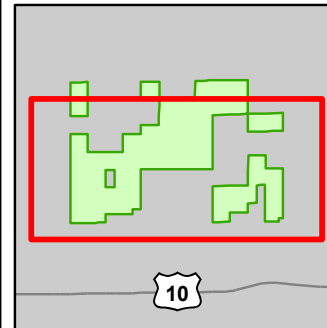
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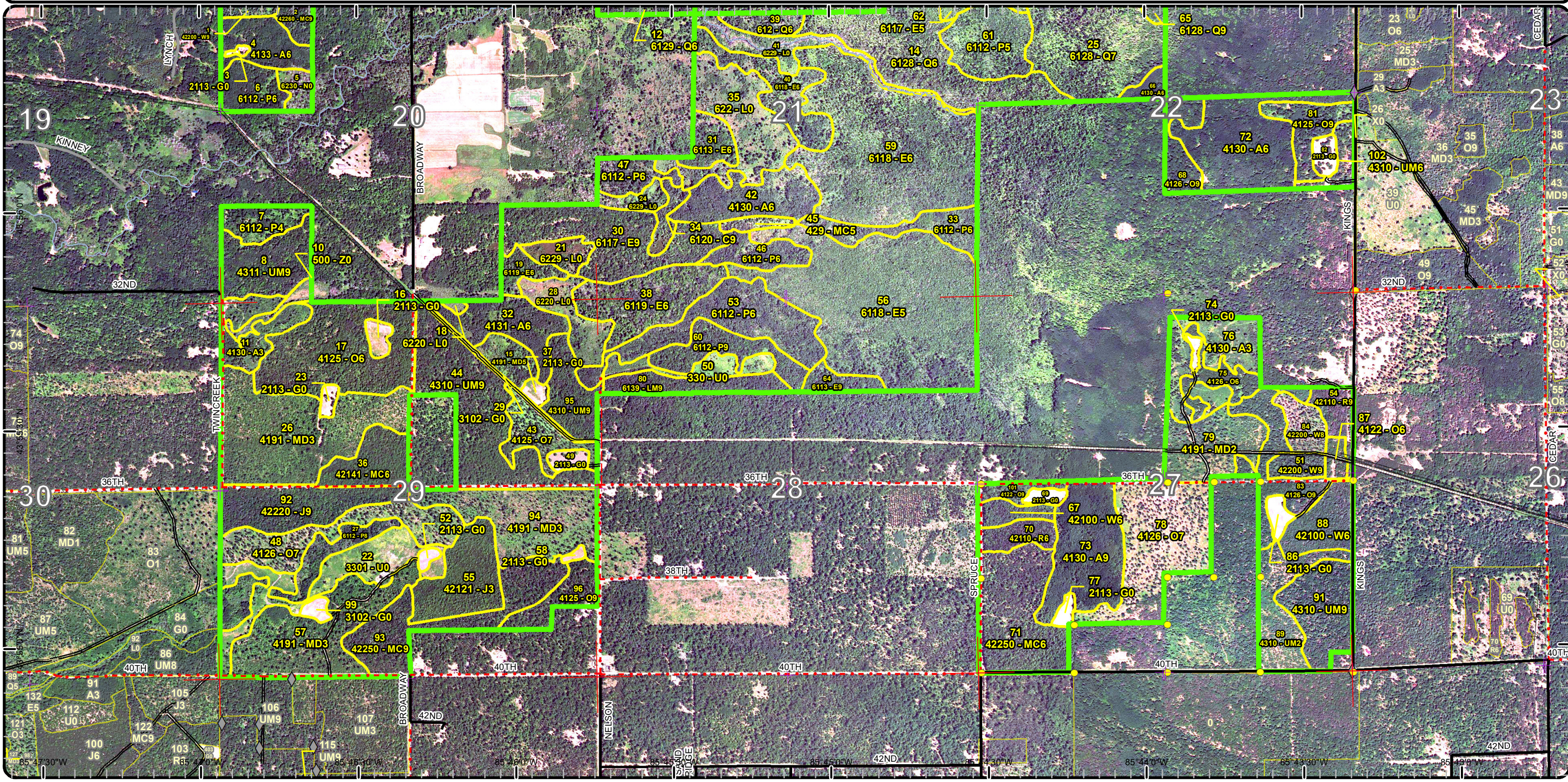


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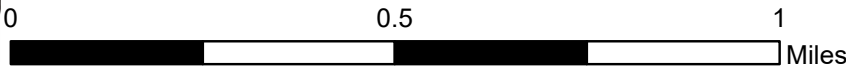
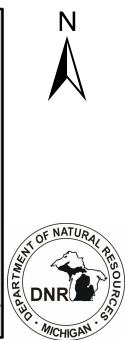
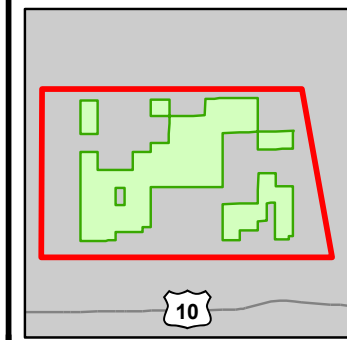
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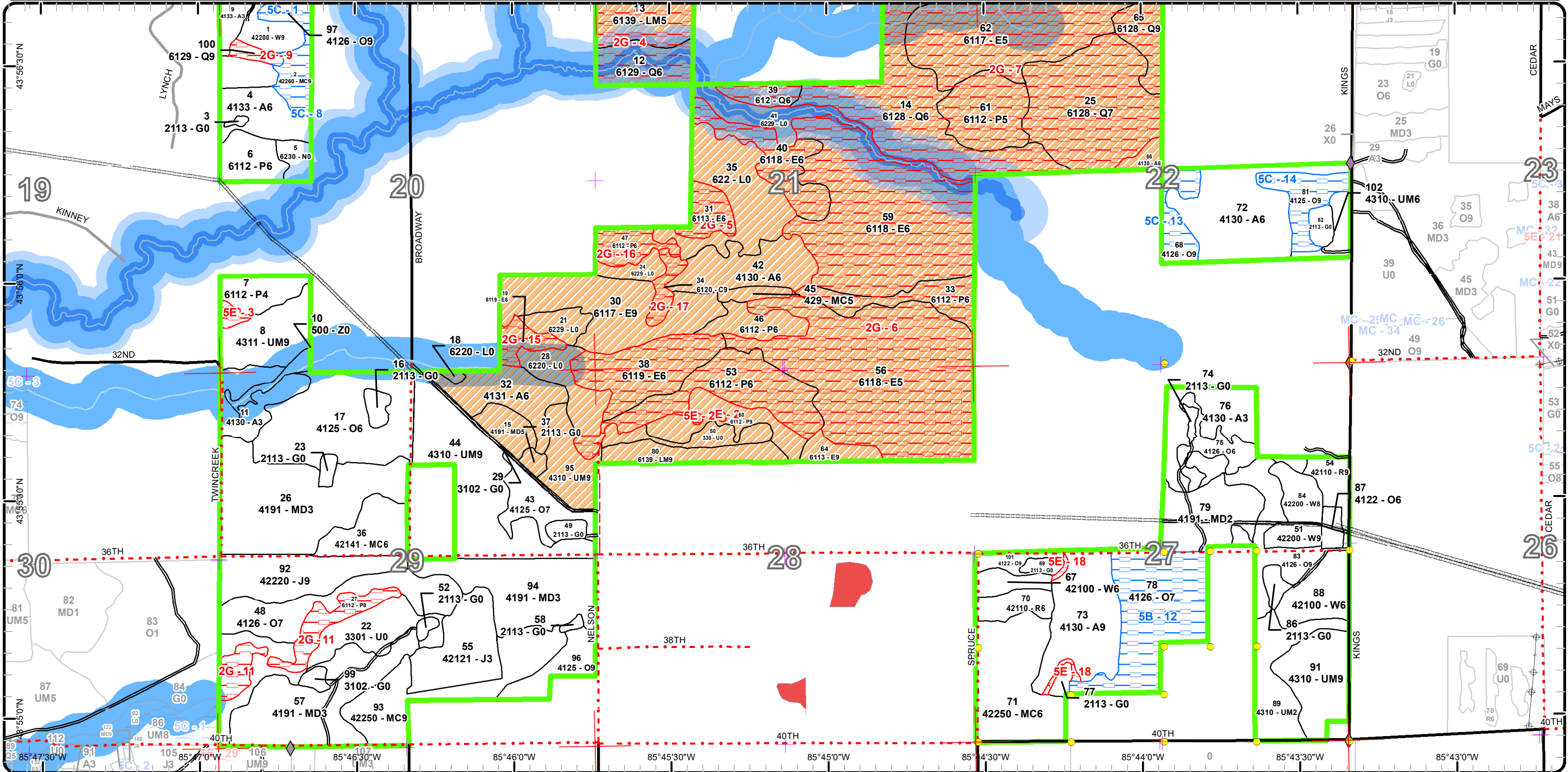


# Special Conservation Areas & Site Conditions Map

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- Pipeline
- ⊕ Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Eastern Massasauga Managed Land
- Cold Water Streams







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	43	5	0	0	86	64	0	0	0	0	0	0	0	0	0	0	0	197
Cedar	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
Cropland	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Jack Pine	0	0	0	27	0	0	29	0	0	0	0	0	0	0	0	0	0	0	56
Low-Density Trees	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Lowland Aspen/Balsam Poplar	0	0	0	0	0	35	108	18	0	0	0	0	0	0	0	0	0	0	161
Lowland Conifers	0	0	0	0	0	0	0	0	7	18	143	0	0	0	0	0	0	0	168
Lowland Deciduous	0	0	0	0	0	108	127	60	117	0	0	0	0	0	0	0	0	0	412
Lowland Mixed Forest	0	0	0	0	0	0	0	15	0	0	20	0	0	0	0	0	0	0	35
Lowland Shrub	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	40	134	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	183
Natural Mixed Pines	0	0	0	0	42	0	35	0	0	0	0	10	0	0	0	0	0	0	87
Oak	0	0	0	0	53	16	0	0	84	12	20	50	0	0	0	0	0	0	235
Planted Mixed Pines	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Red Pine	0	0	0	0	0	9	9	0	0	0	0	0	0	0	0	0	0	0	18
Upland Conifers	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	0	23	0	0	7	0	54	43	0	0	24	0	0	0	0	0	0	151
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	23	0	0	15	16	0	0	0	0	0	0	0	0	54
<b>Total</b>	<b>166</b>	<b>83</b>	<b>162</b>	<b>27</b>	<b>125</b>	<b>284</b>	<b>372</b>	<b>147</b>	<b>142</b>	<b>152</b>	<b>64</b>	<b>227</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1950</b>





## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 25

Total Compartment Acres: 1,952

Commercial Harvest - 346  
 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	62	0	0	0	0	0	0	0	0	62
Low-Density Trees	8	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	29	0	0	0	0	0	0	0	0	29
Lowland Deciduous	0	0	0	53	0	0	0	0	0	53
Lowland Mixed Forest	0	0	0	15	0	0	0	0	0	15
Natural Mixed Pines	0	0	0	35	0	0	0	0	0	35
Oak	0	0	0	16	0	0	0	0	0	16
Planted Mixed Pines	0	0	0	0	0	17	0	0	0	17
Red Pine	0	0	0	0	0	18	0	0	0	18
Upland Mixed Forest	22	0	0	43	0	0	0	0	0	64
White Pine	0	0	0	6	0	23	0	0	0	29
<b>Total</b>	<b>121</b>	<b>0</b>	<b>0</b>	<b>167</b>	<b>0</b>	<b>59</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>346</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	346	0	0	0	0	17	0	0	27	390
Next Step	0	17	17	0	8	0	314	0	0	355
<b>Total</b>	<b>346</b>	<b>17</b>	<b>17</b>	<b>0</b>	<b>8</b>	<b>17</b>	<b>314</b>	<b>0</b>	<b>27</b>	<b>745</b>





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

3	63025003-NF	0.7	2113 - Forage Crops	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Keep open. Cut brush and trees as needed. May plant shrubs, mast producing trees as well as grasses and forbs.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2020</p>											
8	63025008-Cut	21.8	4311 - Pine, Aspen Mix	Sawtimber Well	107	141- 170	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all species except white pine larger than 18" DBH. Use the area of lowland white pine in the NW corner as long term retention. Possibly  <u>Specs:</u> mark to leave any higher quality oaks when cruising.  <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u>  <u>Acceptable</u> aspen, white pine, oak sp, red maple, jack pine  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 10/1 /2021</p>											
22	63025022- Spray	16.7	3301 - Low Density Deciduous Trees	Nonstocked	0		Pesticide	Hand Application	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Herbicide application to kill maple stump sprouts.for red pine planting  <u>Specs:</u>  <u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)  <u>Treatments:</u>  <u>Acceptable</u> red pine  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition</u>  <u>Proposed Start Date:</u> 9 /1 /2020</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
30	63025030-Cut	45.7	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	84	111- 140	Harvest	Seed Tree	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Mark oak 10 - 30 BA. Cut all aspen, jack pine, and red maple. Do not cut any white pine larger than 18" DBH. Cut in frozen or very dry conditions. Will probably need mats to access this and adjacent stands.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, oak sp, red maple, white pine, jack pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
36	63025036-Cut	17.2	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	36	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Third row thin removing all jack pine and oak that is accessible.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
42	63025042-Cut	25.7	4130 - Aspen	Poletimber Well	52	141- 170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees besides cedar. Mark a one acre pocket for retention. Cut in winter only. Add grouse spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen sp., red maple</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
46	63025046-Cut	11.6	6112 - Lowland Aspen	Poletimber Well	47	141- 170	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees besides cedar and hemlock. Mark an appropriate sized retention zone within the unit.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, red maple, cedar</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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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50	63025050-Cut	7.5	330 - Low-Density Trees	Nonstocked			Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
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Prescription Cut all trees. Burn post harvest and maintain as a wildlife opening.

Specs:

Next Step Burn, Opening

Treatments:

Acceptable jack pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

51	63025051-Cut	6.1	42200 - Natural White Pine	Sawtimber Well	78	111-140	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Mark a mix of species 30 - 40 BA.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable white pine, oak sp, red pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

54	63025054-Cut	9.1	42110 - Planted Red Pine	Sawtimber Well	58	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Third row thin. Remove any overstory oak that is accessible.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

60	63025060-Cut	17.6	6112 - Lowland Aspen	Sawtimber Well	62	141-170	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Cut all trees. Leave two islands for retention around the vernal ponds. Cut in frozen or dry conditions only.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, oak sp, red maple

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021





Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
64	63025064-Cut	6.8	6113 - Lowland Maple	Sawtimber Well	62	141-170	Harvest	Seed Tree	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Mark to leave a mix of species at 10 - 20 BA. Cut in frozen or dry conditions only.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red maple, aspen, oak</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
67	63025067-Cut	6.7	42100 - Planted White Pine	Poetimber Well	44	141-170	Harvest	Systematic Thinning	4210 - Planted White Pine	Even-Aged	No
<p><u>Prescription</u> Third row thin</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> white pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
70	63025070-Cut	9.0	42110 - Planted Red Pine	Poetimber Well	47	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Third row thin</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
73	63025073-Cut	36.6	4130 - Aspen	Sawtimber Well	55	141-170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees. Use grouse spec. Mark a buffer along both wildlife openings as retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, oak sp, red maple</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
<b>80 63025080-Cut</b>	14.8	6139 - Mixed Lowland Forest	Sawtimber Well	62	141-170	Harvest	Seed Tree	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all jack pine, aspen, and red maple. Mark oak 10 - 20 BA where applicable. Do not cut any white pine. Cut in frozen or dry conditions only.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> jack pine, aspen, red maple, oak, white pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>82 63025086-NF</b>	4.0	2113 - Forage Crops Nonstocked				NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		No
<p><u>Prescription</u> Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial grass/forb mix with mast producing species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>88 63025088-Cut</b>	16.6	42100 - Planted White Pine	Poletimber Well	46	141-170	Harvest	Systematic Thinning	4210 - Planted White Pine	Even-Aged	No
<p><u>Prescription</u> Cut two leave two rows.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>91 63025091-Cut</b>	25.8	4310 - Pine, Oak Mix	Sawtimber Well	78	111-140	Harvest	Seed Tree with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Mark a mix of species 30 - 40 BA. Cut all jack pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> oak sp, white pine, red pine, jack pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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>93</b>	<b>63025093-Cut</b>	34.7	42250 - Pine, Oak	Sawtimber Well	55	111-140	Harvest	Seed Tree	42250 - Pine, Oak	Even-Aged	No
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Prescription Mark to leave a mix of species 10 - 20 BA. Retention will be in the residual trees left. A survey will be needed for this stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable jack pine, pin oak, white pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

<b>95</b>	<b>63025095-Cut</b>	16.8	4310 - Pine, Oak Mix	Sawtimber Well	74	111-140	Harvest	Seed Tree	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Cut all red maple, aspen, and jack pine. Mark oak and white pine 20 - 30 BA for retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable white pine, jack pine, red maple, aspen, oak

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

<b>96</b>	<b>63025096-Cut</b>	12.5	4125 - Black, N. Pin Oak	Sawtimber Well	70	81-110	Harvest	Seed Tree	42250 - Pine, Oak	Even-Aged	No
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Prescription Mark to leave a mix of species 10 - 20 BA. Retention will be in the residual trees left. A survey will be needed for this stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable jack pine, pin oak, white pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /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
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101	63025101-Cut	3.8	4122 - Oak, Pine	Sawtimber Well	74	51-80	Harvest	Seed Tree	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
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Prescription Mark oak 10-20 BA. This area will be used as a landing for the adjacent third row thinnings.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable pin oak, jack pine, white pine, aspen

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

16	Plot 1	3.4	2113 - Forage Crops	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		No
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Prescription Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial grass/forb mix with mast producing species.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 5 /24/2019

74	Plot 10	1.4	2113 - Forage Crops	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		No
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Prescription Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial grass/forb mix with mast producing species.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 5 /24/2019

58	Plot 11	1.0	2113 - Forage Crops	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		No
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Prescription Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial grass/forb mix with mast producing species.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 5 /24/2019



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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<b>86</b>	<b>Plot 2x</b>	3.3	2113 - Forage Crops	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		No
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Prescription Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial grass/forb mix with mast producing species.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 5 /24/2019

<b>49</b>	<b>Plot 3x</b>	3.3	2113 - Forage Crops	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		No
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Prescription Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial grass/forb mix with mast producing species.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 5 /24/2019

<b>69</b>	<b>Plot 4</b>	2.6	2113 - Forage Crops	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		No
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Prescription Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial grass/forb mix with mast producing species.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 5 /24/2019

<b>99</b>	<b>Plot 5</b>	2.3	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		No
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Prescription Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial grass/forb mix with mast producing species.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 5 /24/2019





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
37	Plot 6	2.3	2113 - Forage Crops Nonstocked				NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		No
<p><u>Prescription</u> Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial <u>Specs:</u> grass/forb mix with mast producing species.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 5 /24/2019</p>											
77	Plot 7	2.2	2113 - Forage Crops Nonstocked				NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		No
<p><u>Prescription</u> Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial <u>Specs:</u> grass/forb mix with mast producing species.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 5 /24/2019</p>											
23	Plot 8	2.1	2113 - Forage Crops Nonstocked				NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		No
<p><u>Prescription</u> Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial <u>Specs:</u> grass/forb mix with mast producing species.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 5 /24/2019</p>											
52	Plot 9	1.5	2113 - Forage Crops Nonstocked				NonForestMgt	Herbaceous/Crop /Grass Planting	211 - Cropland		No
<p><u>Prescription</u> Mow or plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually or on rotation. Option to convert to perennial <u>Specs:</u> grass/forb mix with mast producing species.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 5 /24/2019</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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Total Treatment Acreage Proposed: 393.2



## Report 4 – Site Conditions

Cadillac Mgt. Unit

Ryan Adamczyk : Examiner

Compartment: 25

Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C	2G	5E
		With Condition	Not Available					
198	196	0	2	Aspen				2
6	0	0	6	Cedar			6	
28	28	0	0	Cropland				
5	5	0	0	Herbaceous Openland				
56	56	0	0	Jack Pine				
42	42	0	0	Low-Density Trees				
162	53	0	109	Lowland Aspen/Balsam Poplar			108	1
168	0	0	168	Lowland Conifers			168	
412	52	0	359	Lowland Deciduous			359	
35	15	0	20	Lowland Mixed Forest			20	
82	82	0	0	Lowland Shrub				
5	5	0	0	Marsh				
183	183	0	0	Mixed Upland Deciduous				
87	77	10	0	Natural Mixed Pines		10		
222	141	81	0	Oak	50	32		
17	17	0	0	Planted Mixed Pines				
18	18	0	0	Red Pine				
4	4	0	0	Upland Conifers				
151	148	0	2	Upland Mixed Forest				2
4	4	0	0	Water				
55	55	0	0	White Pine				
1,940	1,183	91	666	Total Forested Acres	50	41	661	5
	61%	5%	34%	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	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Ryan Adamczyk : Examiner

Compartment: 25  
Year of Entry: 2021

2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	326	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	242	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



## Report 4 – Site Conditions

Cadillac Mgt. Unit

Ryan Adamczyk : Examiner

Compartment: 25

Year of Entry: 2021

8	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	50	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Cadillac Mgt. Unit  
 Ryan Adamczyk : Examiner

Compartment: 25  
 Year of Entry: 2021

15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Unavailable	5E: Long-Term Retention	2	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.

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
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	42200 - Natural White Pine	Sawtimber Well	15.8	84	81-110	N/A	Stand was treated in 2002 as part of sale # "63-087-01", "Ostrich Fern Mix".			
<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		10	Pole/Log/Sap	8		Quaking Aspen		Low	5 - 10 feet	Sapling
White Pine		75	Log/Pole/XLog	12	84	White Pine		High	10 - 20 feet	Sapling
Jack Pine		10	Pole/Sap/Log	8		Jack Pine		Low	5 - 10 feet	Sapling
						Black Cherry	Low	10 - 20 feet	Sapling	
2	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	9.6	104	141-170	N/A				
<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>	
Red Maple		10	Pole/Log	8		Northern Pin Oak	Low	< 5 feet	Sapling	
Quaking Aspen		15	Pole/Log	8		White Pine	Low	10 - 20 feet	Sapling	
White Pine		40	Log/XLog/Pole	16	104	Black Cherry	Low	10 - 20 feet	Sapling	
Jack Pine		20	Log/Pole	10		Witch Hazel	Low	5 - 10 feet	Tall Shrub	
3	2113 - Forage Crops	Nonstocked	0.7			No	Wildlife opening			
4	4133 - Aspen, Mixed Pine	Poletimber Well	16.5	42	141-170	N/A				
<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/Log	8	42	Witch Hazel	Low	5 - 10 feet	Tall Shrub	
White Pine		18	Log/XLog/Pole	16	104	White Pine	Low	10 - 20 feet	Sapling	
Red Pine		8	Log/XLog	14		Quaking Aspen	Low	10 - 20 feet	Sapling	
						Black Cherry	Low	10 - 20 feet	Sapling	
						Red Maple	Low	10 - 20 feet	Sapling	
5	6230 - Cattail	Nonstocked	5.5	0		No	Stand is full of dead ash and elm.			
<b>Sub-Canopy Species</b>		<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>						
Tag Alder		Low	5 - 10 feet	Tall Shrub						
Quaking Aspen		Low	>20 feet	Pole						
6	6112 - Lowland Aspen	Poletimber Well	12.6	42	141-170	N/A				
<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		78	Pole/Log	8	42	White Pine	Trace	10 - 20 feet	Sapling	
White Pine		7	XLog/Log	18		Witch Hazel	Low	5 - 10 feet	Tall Shrub	
Red Maple		10	Pole/Log	8		Black Cherry	Low	10 - 20 feet	Sapling	
7	6112 - Lowland Aspen	Poletimber Poor	11.4	40	51-80	N/A				
<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		55	Pole/Sapling	6	40	Tag Alder	High	5 - 10 feet	Tall Shrub	
White Pine		10	Log/Pole	10		Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub	
Northern Pin Oak		15	Log/Pole	12						
Red Maple		20	Pole/Log	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
8	4311 - Pine, Aspen Mix	Sawtimber Well	24.1	107	141-170	N/A																																									
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10	500 - Water	Nonstocked	4.3			No																																									
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11	4130 - Aspen	Sapling Well	17.4	7	1-50	N/A	Stand treated in 2012 with timber sale # "63-034-11-01", "C25 Aspen".																																								
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13	6139 - Mixed Lowland Forest	Poletimber Medium	20.3	93		N/A																																									
14	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	63.0	100	111-140	N/A																																									
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15	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	8.9	32	51-80	N/A																																					
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16	2113 - Forage Crops	Nonstocked	3.4			No	Wildlife opening																																				
17	4125 - Black, N. Pin Oak	Poletimber Well	53.1	37	111-140	N/A	The eastern half of this stand was trenched and hand planted to jack pine using inmate labor in Fall 1982 per FTP # "C-63-74".																																				
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18	6220 - Alder/willow	Nonstocked	1.0			No																																					
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19	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	7.3	47	111-140	N/A																																					
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22	3301 - Low Density Deciduous Trees	Nonstocked	31.6	0		4191 - Mixed Upland Deciduous with Conifer	This stand should be burned to help control maple stump sprouting and encourage oak regeneration.																																				
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26	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	62.3	14	Immature	N/A	Stand was treated in 2005 as part of sale # "63-062-01", "A & R Jackpine".																																																						
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27	6112 - Lowland Aspen	Sawtimber Medium	19.0	58	141-170	N/A																																																							
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28	6220 - Alder/willow	Nonstocked	15.4			No																																																							
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29	3102 - Grass	Nonstocked	2.8			No	Gas pipeline																																																						





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**30** 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 45.7 84 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	15	Log/Pole	10		White Pine	Low	10 - 20 feet	Sapling
Bigtooth Aspen	25	Pole/Log	8		Bigtooth Aspen	Low	10 - 20 feet	Sapling
Northern Pin Oak	30	Log/Pole	12	84	Red Maple	Low	10 - 20 feet	Sapling
White Pine	15	Log/Pole	10		Northern Pin Oak	Low	5 - 10 feet	Sapling
Jack Pine	10	Log/Pole	10					

**31** 6113 - Lowland Maple Poletimber Well 9.6 50 111-140 N/A There is lots of dead ash throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	90	Log/Pole	10	50	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	10	Pole/Log	8		Tag Alder	Low	5 - 10 feet	Tall Shrub

**32** 4131 - Aspen, Oak Poletimber Well 22.0 47 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	63	Pole/Log	8	47	Black Cherry	Medium	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	20	Pole/Log	8		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Maple	10	Pole	7		Red Maple	Low	10 - 20 feet	Sapling
					White Pine	Trace	5 - 10 feet	Sapling

**33** 6112 - Lowland Aspen Poletimber Well 16.4 52 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	65	Pole/Log	8	52	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	10	Pole	8					
Quaking Aspen	15	Pole	7					
Red Maple	10	Log/Pole	10					

**34** 6120 - Lowland Cedar Sawtimber Well 5.8 97 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	25	Log/Pole	10		White Pine	Low	5 - 10 feet	Sapling
Northern White Cedar	50	Pole/Log	8	97	Tag Alder	Low	5 - 10 feet	Tall Shrub
White Pine	15	Log/XLog	14					
Northern Pin Oak	10	Log/Pole	12					

**35** 622 - Lowland Shrub Nonstocked 36.4 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	Tall Shrub
Bigtooth Aspen	Medium	>20 feet	Pole
Cattail spp.	High	Unspecified	Non-Wood
Northern White Cedar	Low	10 - 20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
36	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	17.2	36	141-170	N/A	Stand was clearcut in 1982 then trenched and hand planted to red pine in Spring 1983 per FTP # "C-63-213". Possibly treat.																																	
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Black Cherry	Medium	10 - 20 feet	Sapling																																					
37	2113 - Forage Crops	Nonstocked	2.3			No	Wildlife opening																																	
38	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	31.1	68	111-140	N/A	Trees are mature and ready to be harvested. Area is EXTREMELY wet. There is several feet of water in area during winter. It may be impossible to get equipment in to harvest.																																	
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39	612 - Lowland Coniferous Forest	Poletimber Well	7.1	89		N/A																																		
40	6118 - Lowland Deciduous with Cedar	Poletimber Well	22.0	63	81-110	N/A																																		
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41	6229 - Mixed lowland shrub	Nonstocked	16.4			No	This is the South Branch of Cole Creek flowing from the Baldwin Luther Swamp. Lots of dead cedar, elm, and ash.																																	
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42	4130 - Aspen	Poletimber Well	25.7	52	141-170	N/A	This stand should be harvested in winter to minimize soil disturbance. Crane mats are needed on the forest road off of Nelson Rd.																																	
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43	4125 - Black, N. Pin Oak	Sawtimber Poor	14.1	72	1-50	N/A	Stand was treated in 2013 with timber sale # "63-043-11-01", "Oakus Jackus".																																	
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44	4310 - Pine, Oak Mix	Sawtimber Well	54.0	64	111-140	N/A																																													
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46	6112 - Lowland Aspen	Poletimber Well	11.6	47	141-170	N/A	Aspen is ready to be harvested, however access is an issue. the surrounding areas are wet most of the year.																																												
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48	4126 - White, Black, N. Pin Oak	Sawtimber Poor	29.8	73	1-50	N/A																																													
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50	330 - Low-Density Trees	Nonstocked	10.5			4212 - Planted Jack Pine	Cut all trees. Trench and plant to jack pine.																																												
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<b>54</b>	42110 - Planted Red Pine	Sawtimber Well	9.1	58	141-170	N/A																																					
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<b>55</b>	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	26.8	23	Immature	N/A	Stand was planted to jack pine in May 1996 per FTP # "C-63-395".																																				
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<b>56</b>	6118 - Lowland Deciduous with Cedar	Poletimber Medium	117.4	55	81-110	N/A	dead lowland ash																																				
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<b>57</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	45.5	14	Immature	N/A	Stand was treated in 2005 as part of sale # "63-051-01", "Power Pole JP".																																				
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67	42100 - Planted White Pine	Poletimber Well	6.8	44	141-170	N/A	Part of a mixed pine plantation which was split by species dominance into different stands. Some natural oak regeneration.																																																	
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70	42110 - Planted Red Pine	Poletimber Well	9.0	47	141-170	N/A																																																		
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79	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	26.0	17	Immature	N/A	Stand was treated in 2002 as part of sale # "63-086-01", "Skink Oak Removal".																																								
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84	42200 - Natural White Pine	Sawtimber Medium	9.4	76	51-80	N/A																																																			
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88	42100 - Planted White Pine	Poletimber Well	16.6	46	141-170	N/A	Third row thin																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**89** 4310 - Pine, Oak Mix Sapling Medium 23.0 11 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	50	Sapling	2	11
White Pine	28	Log/Pole	12	
Jack Pine	15	Sapling	3	

**91** 4310 - Pine, Oak Mix Sawtimber Well 25.8 78 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	35	Log/Pole	12		White Pine	Full	Variable	Pole
White Pine	40	Log	12	78				
Jack Pine	7	Log/Pole	10					
Red Pine	10	Log	12					
White Oak	8	Log/Pole	12					

**92** 42220 - Natural Jack Pine Sawtimber Well 29.0 55 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	55	Log/Pole	10	55	White Pine	Low	10 - 20 feet	Sapling
Jack Pine	35	Log/Pole	10		Red Maple	Medium	>20 feet	Sapling
Red Maple	10	Pole/Sapling	6		White Oak	Low	10 - 20 feet	Sapling
					Witch Hazel	Low	5 - 10 feet	Tall Shrub

**93** 42250 - Pine, Oak Sawtimber Well 34.9 55 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	65	Log/Pole	10	55	Northern Pin Oak	Medium	10 - 20 feet	Sapling
Northern Pin Oak	35	Log/Pole	13		White Pine	Trace	10 - 20 feet	Sapling
					Black Cherry	Low	10 - 20 feet	Sapling
					White Oak	Low	10 - 20 feet	Sapling
					Jack Pine	Low	10 - 20 feet	Sapling
					Witch Hazel	Trace	5 - 10 feet	Tall Shrub

**94** 4191 - Mixed Upland Deciduous with Conifer Sapling Well 40.2 6 1-50 N/A

Stand was treated in 2013 with timber sale # "63-043-11-01", "Oakus Jackus".

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	15	Log	10	
Northern Pin Oak	10	Log	12	70
Northern Pin Oak	35	Sapling	1	6
Black Cherry	15	Sapling	1	
Jack Pine	10	Sapling	1	
White Oak	8	Sapling/Pole	4	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>95</b>	4310 - Pine, Oak Mix	Sawtimber Well	16.8	74	111-140	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		15	Pole/Log	9		Density	Avg. Height
Northern Pin Oak		30	Log/Pole	14		Medium	10 - 20 feet
White Pine		40	Log/Pole	14	74	Low	5 - 10 feet
Red Maple		10	Log/Pole	10		Low	5 - 10 feet
						Low	10 - 20 feet
							Sapling
							Sapling
							Tall Shrub
							Sapling

<b>96</b>	4125 - Black, N. Pin Oak	Sawtimber Well	12.7	70	81-110	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Northern Pin Oak		75	Log/Pole/XLog	13	70	Medium	10 - 20 feet
Jack Pine		20	Pole/Log	8		Low	10 - 20 feet
						Low	10 - 20 feet
						Medium	< 5 feet
						Trace	10 - 20 feet
							Sapling
							Sapling
							Sapling
							Tall Shrub
							Sapling

<b>97</b>	4126 - White, Black, N. Pin Oak	Sawtimber Well	5.3	92	111-140	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		25	Log/Pole	12		Medium	10 - 20 feet
White Oak		33	Log/Pole/XLog	14	92	Full	10 - 20 feet
Northern Pin Oak		28	Log/XLog/Pole	14			
White Pine		10	Log/Pole/XLog	12			

<b>99</b>	3102 - Grass	Nonstocked	2.3			No	Wildlife opening
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<b>100</b>	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	3.4	104	81-110	N/A	Stand was treated in 2002 as part of sale # "63-087-01", "Ostrich Fern Mix".
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Quaking Aspen		10	Log	12			
White Pine		45	XLog/Log	18	104		
Hemlock		45	Log	12			

<b>101</b>	4122 - Oak, Pine	Sawtimber Well	5.5	74	51-80	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Northern Pin Oak		65	Log	12	74	Low	< 5 feet
Jack Pine		25	Pole/Log	8		Low	>20 feet
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						Low	>20 feet
							Sapling
							Sapling
							Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**102**      4310 - Pine, Oak Mix      Poletimber Well      6.9      46      51-80      N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	15	Log	12		White Pine	Low	< 5 feet	Sapling
Black/Red (Hybrid) Oak	20	Log	14		Black Cherry	Low	>20 feet	Sapling
White Pine	20	Log/Pole	10		Bigtooth Aspen	Medium	>20 feet	Sapling
Jack Pine	35	Pole	8	46	Black/Red (Hybrid) Oak	Medium	>20 feet	Pole
Bigtooth Aspen	10	Pole/Log	8		Red Maple	Low	>20 feet	Sapling
					White Oak	Low	5 - 10 feet	Sapling
					Black/Red (Hybrid) Oak	High	5 - 10 feet	Sapling
					Jack Pine	Low	5 - 10 feet	Sapling