



# Compartment Review Presentation

## Traverse City Forest Management Unit

Compartment 61137

Entry Year 2021

Acreage: 2,432

County Kalkaska

Management Area: Kirtland's Warbler

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**Revision Date:** 2019-06-11

**Stand Examiner:** Paul Roell

**Legal Description:**

T25N R6W, Sections 12,13,14 &15

**Identified Planning Goals:**

This compartment is part of the Kirtland's Warbler Management Area and is managed to create habitat for the federally endangered Kirtland's Warbler (KW). Management is guided by the KW Breeding Range Conservation Plan and the Operational Plan for KW Habitat Management on Michigan State Forests. Some of the stands in this management area have been identified as essential habitat for the KW. Management on the stands that are not identified as essential habitat is guided by the Regional State Forest Management Plan and will emphasize balancing the age classes of aspen and red pine and regenerating the aging oak resource. Management activities may be constrained or modified based on the management recommendations described in the Conservation Plan. Expected challenges within this 10-year planning period include introduced pests and diseases and ensuring adequate jack pine regeneration on KW sites.

**Soil and topography:**

Mostly Grayling, Saugatuck, and Rubicon Sands. Mostly flat ground with some hills and ridges and wet areas along the Big Devil Creek corridor.

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

Solid state ownership except for a 120 acres in Section 13. There is a 40 acre parcel that was acquired in Section 12 which has a cabin to dispose of. The entire perimeter of this compartment is bounded by other state owned land. The state land on the south, east and north sides is under a 20 year lease to the Military at Camp Grayling.

**Unique Natural Features:**

Headwaters of the Big Devil Creek and Kirtland's Warbler MA.

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

There are some archeological sites identified within the compartment.

**Special Management Designations or Considerations:**

Kirtland's Warbler

**Watershed and Fisheries Considerations:**

Big Devil Creek flows through the compartment and it is a tributary of the Manistee River. It is protected by the Manistee River Natural River Designation.

**Wildlife Habitat Considerations:**

This compartment falls within the Sharon Kirtland's Warbler Management Unit. The Kirtland's Warbler Management Plan outlines harvest and planting regimes for KW habitat. However, forest treatments should maintain a variety of successional stages of pine-oak-aspen forest and grass-shrub openings, with some mid to late successional forest in places, which is typical of a fire driven landscape. Big Devil Creek begins in this compartment and several scattered lowland communities can be found within this compartment.

Aspen harvests should be designed to mimic wildfires of various intensities. This creates a mosaic of age classes and increases structural diversity within an area. The creation of dead and downed logs should be incorporated into timber prescriptions to provide habitat for various wildlife species. Standing dead timber is usually left during harvest operations unless deemed a safety hazard. Species associated with pine, oak and aspen mixed upland forests and openland habitats, such as deer, badger, wild turkey, scarlet tanager, hog-nosed snake, ruffed grouse, Cooper's hawk, red-backed salamander, Kirtland's warbler, and gray squirrel will benefit from management here.

Compartment 137 falls within the Kirtland's Warbler Management Area of the Regional State Forest Management Plan. Featured wildlife species for this MA include KW, pileated woodpecker, ruffed grouse, snowshoe hare, turkey, and deer.

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

The nearest active sand/gravel production is occurring roughly 2.5 miles to the south. There appears to be some sand potential within the compartment, but the water table is shallow here on the outwash plain, which could limit development. There is some active oil & gas production occurring within the compartment, from multiple formations. Most of the state mineral rights are currently leased and held by production; some of the parcels are included in the State Garfield Unitized Area. Oil & gas potential is considered high. 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:**

Good access in most areas.

### **Survey Needs:**

Around the private in Section 12.

### **Recreational Facilities and Opportunities:**

This compartment is primarily used for hunting and ORV's. Cranberry Lake Snowmobile Trail is located in Sections 12 and 14 it uses Devil Creek road and Township road which are county roads.

### **Fire Protection:**

Fire protection in this compartment is provided by Garfield Township and the DNR Kalkaska Field Office. The compartment is within Zone 5, meaning additional resources will be dispatched from nearby offices for fires on High and above days.

### **Additional Compartment Information:**

The following reports from the Inventory are attached:

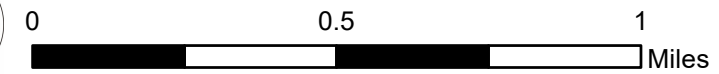
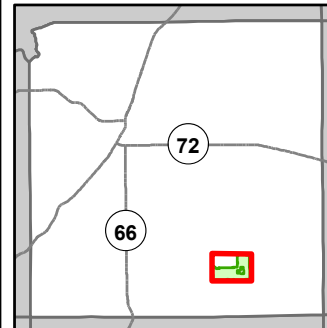
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

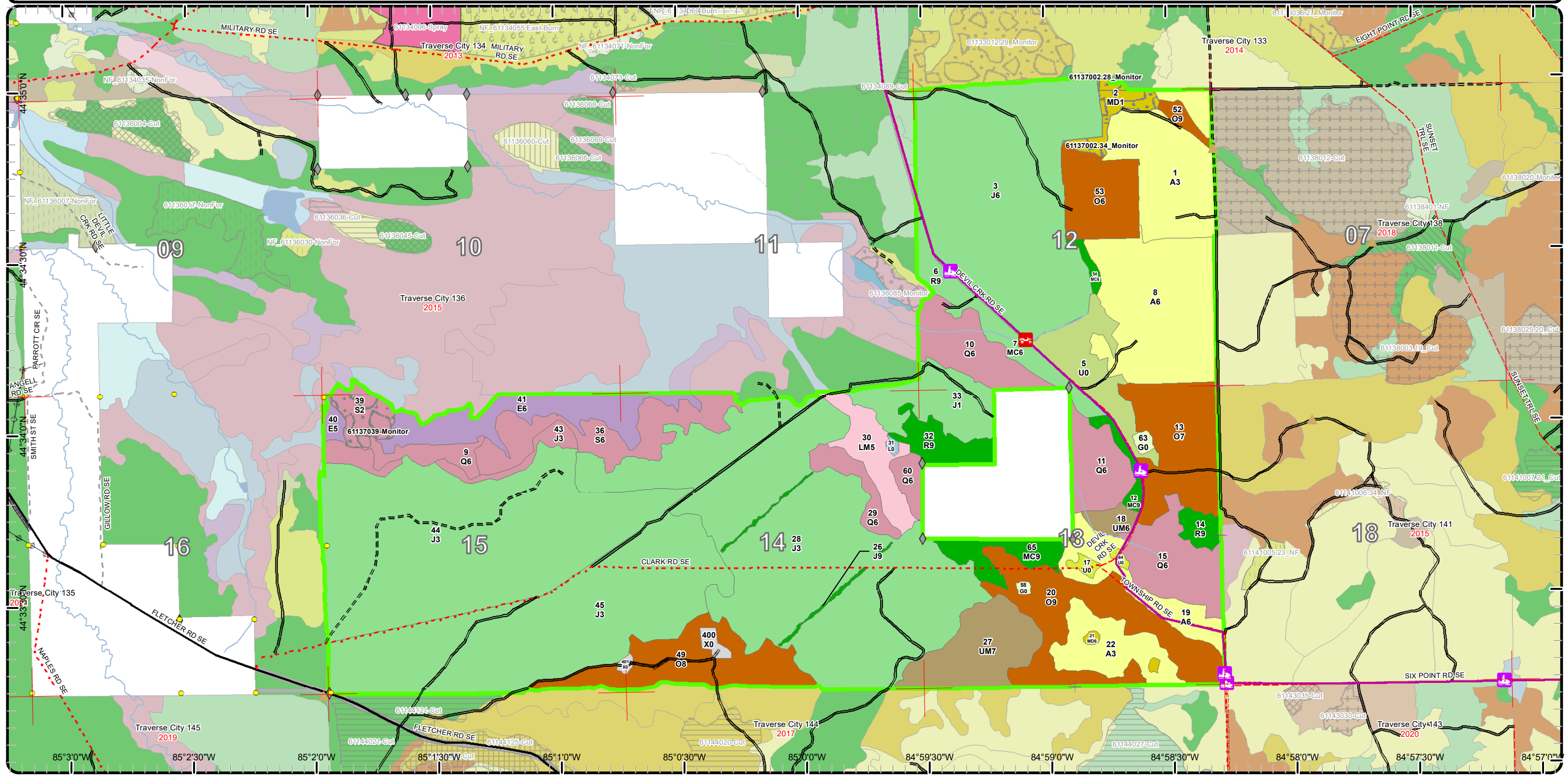
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 137  
 T25N-R06W Sec. 12-15  
 County: Kalkaska  
 Unit: Traverse City  
 Mgmt Area: Kirtland's Warbler  
 YOE: 2021  
 Acres: 2,432 GIS Calculated  
 Examiner: Paul Roell  
 Map Revised: 10/30/2019  
 Map Phase: Post Review

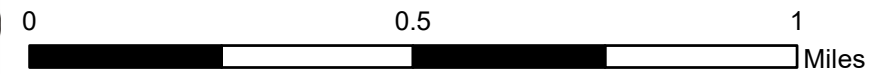
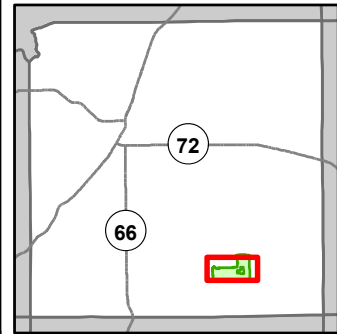


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Berms
- Intermittent Stream
- Perennial River
- Pipeline
- Compartment Boundary
- Regeneration Survey
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub

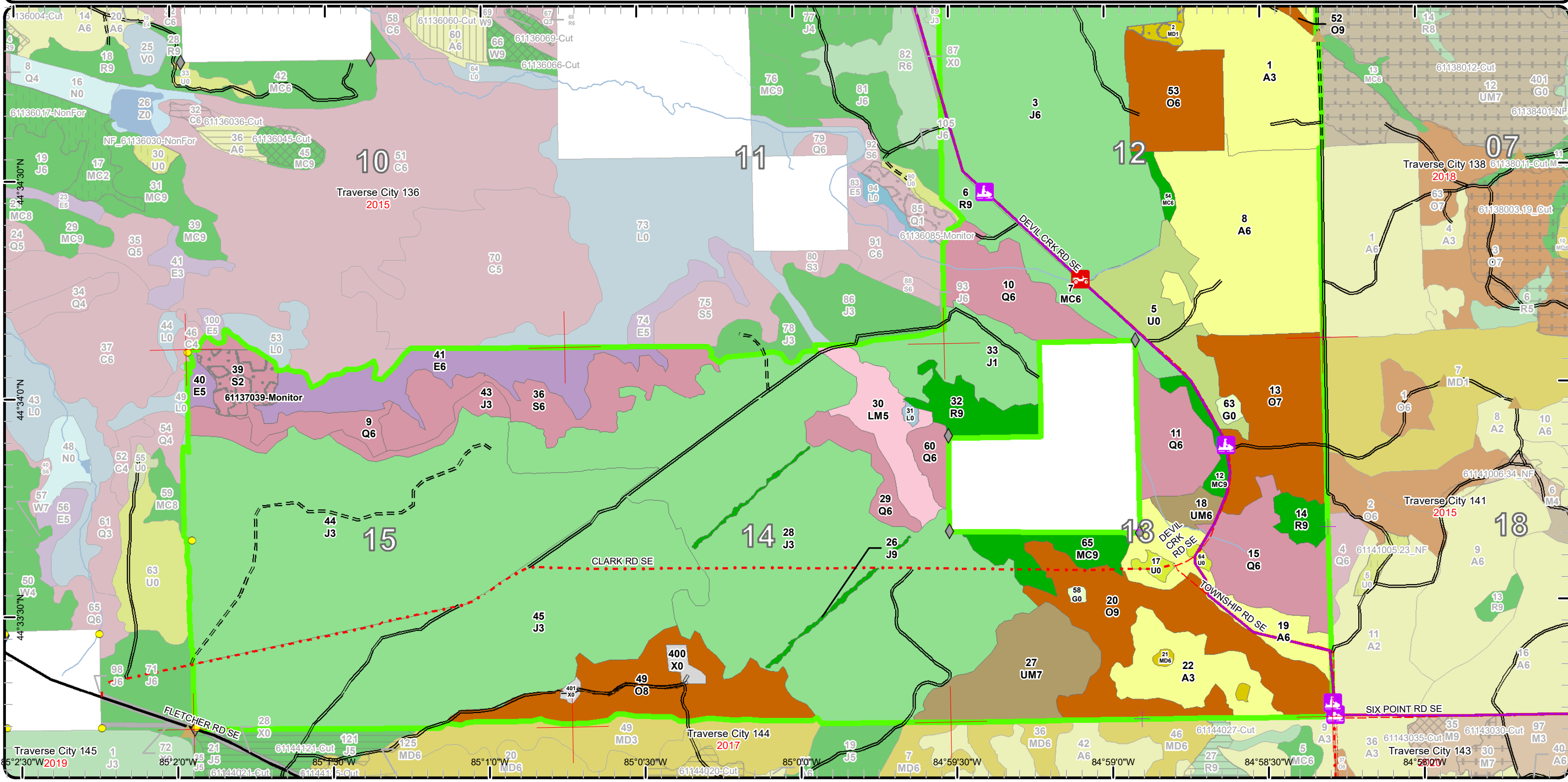


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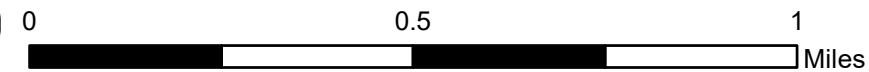
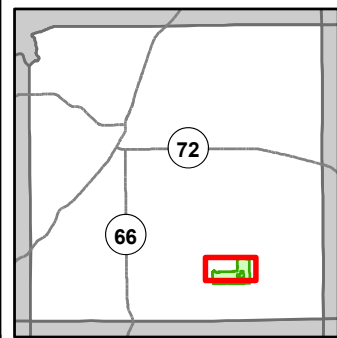


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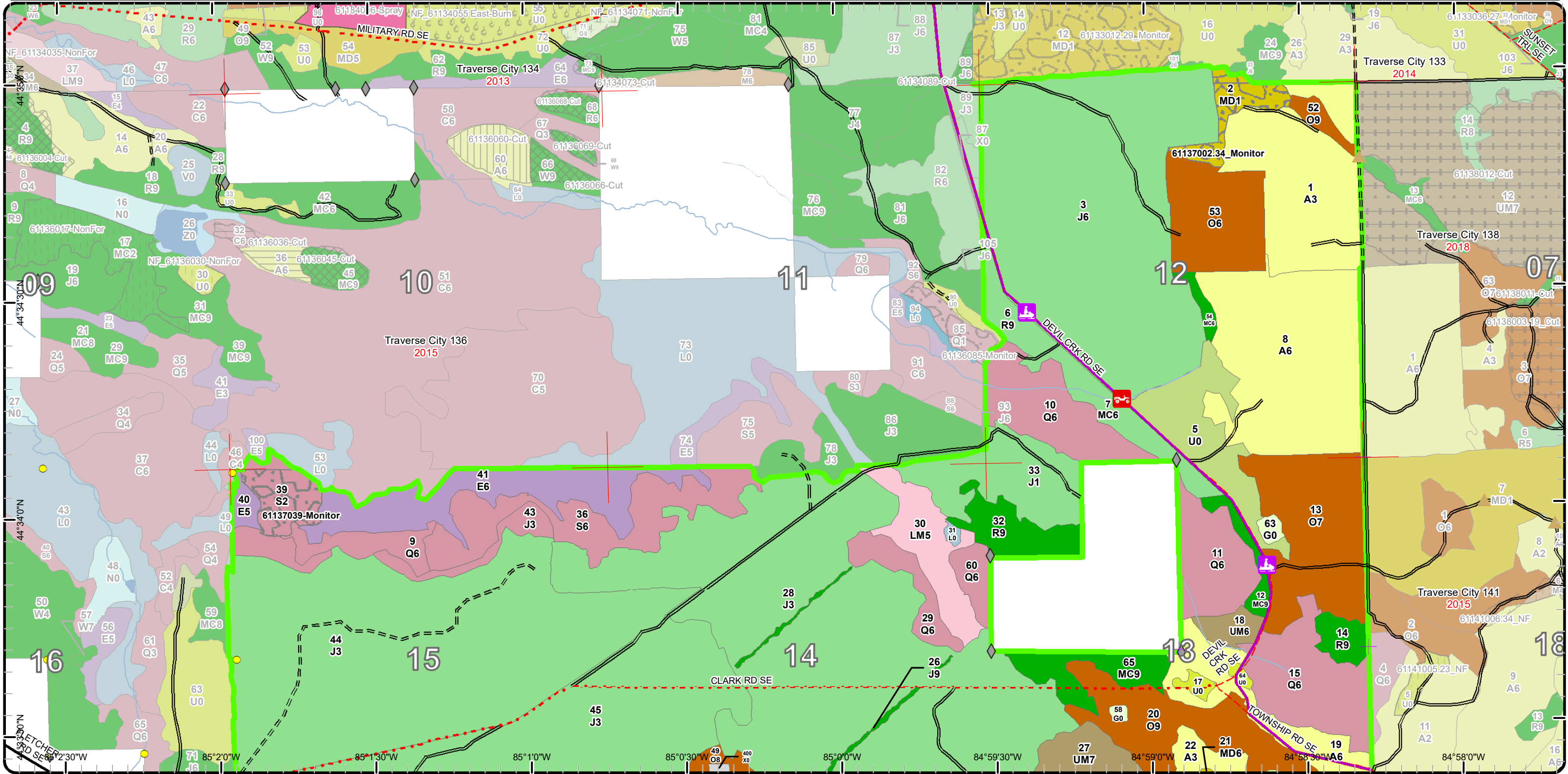


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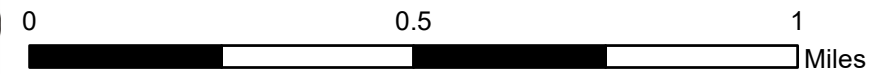
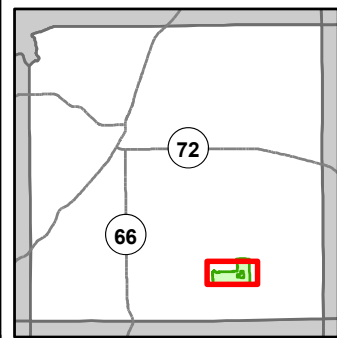


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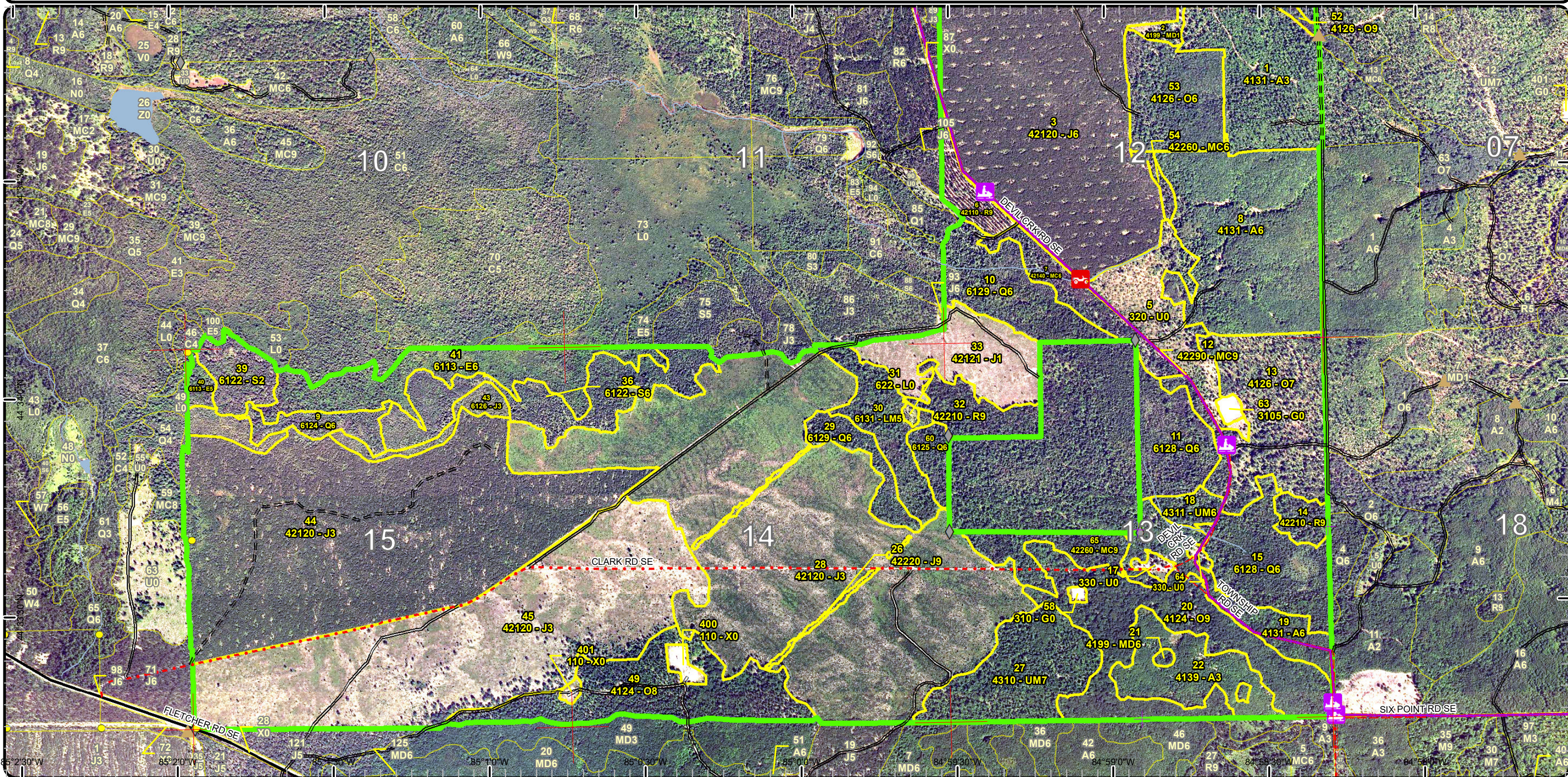


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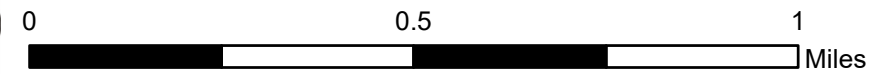
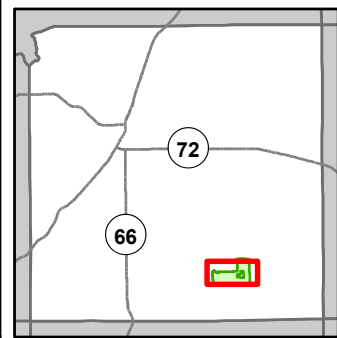
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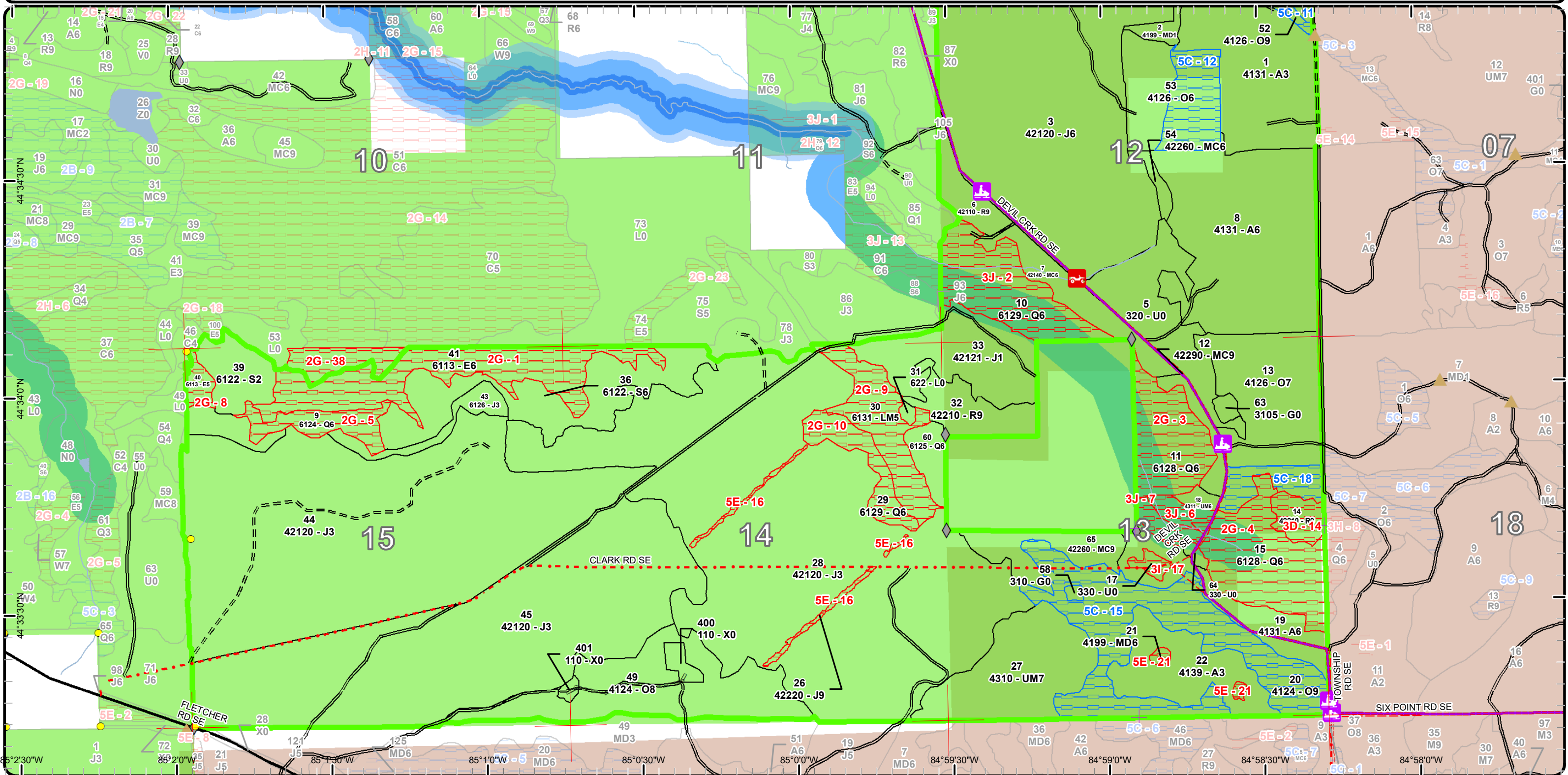


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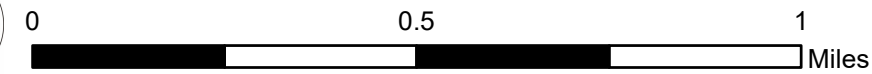
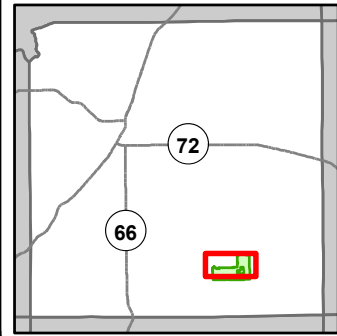
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- 2G: Too wet (sensitive soils, does not include access issues)
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- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
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- Natural Rivers Zoning District
- Kirtland Warbler Habitat
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- Cold Water Lakes
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands



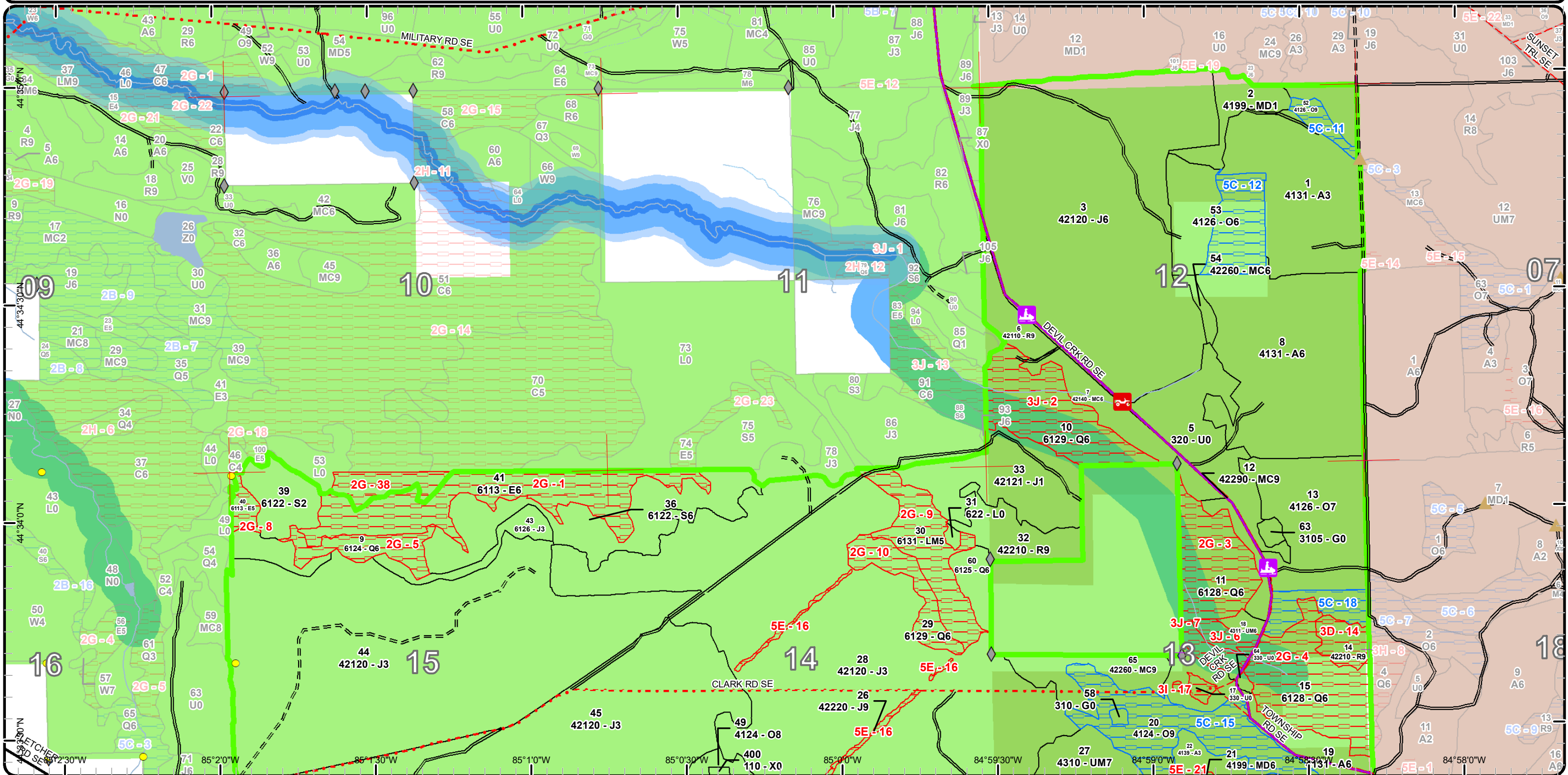


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	123	0	118	0	36	0	0	0	0	0	0	0	0	0	0	0	277
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Jack Pine	0	297	397	306	280	0	0	5	0	0	0	0	0	0	0	0	0	0	1285
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	0	0	0	15	10	0	66	0	0	0	78	0	0	0	0	169
Lowland Deciduous	0	0	0	0	0	0	0	0	5	59	0	0	0	0	0	0	0	0	64
Lowland Mixed Forest	0	0	0	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	32
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Spruce/Fir	0	0	20	0	0	0	0	0	58	0	0	0	0	0	0	0	0	0	78
Mixed Upland Deciduous	0	16	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	18
Natural Mixed Pines	0	0	0	0	0	4	0	0	22	0	8	0	0	0	0	0	0	0	34
Oak	0	0	0	0	0	0	0	0	0	95	70	73	46	0	0	0	0	0	284
Planted Mixed Pines	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	23
Red Pine	0	0	0	0	0	0	14	0	0	0	22	10	0	0	0	0	0	0	46
Upland Mixed Forest	0	0	0	0	0	0	9	0	0	0	57	0	0	0	0	0	0	0	65
Upland Shrub	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
<b>Total</b>	<b>58</b>	<b>313</b>	<b>540</b>	<b>306</b>	<b>398</b>	<b>4</b>	<b>97</b>	<b>47</b>	<b>85</b>	<b>220</b>	<b>159</b>	<b>83</b>	<b>46</b>	<b>78</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2432</b>



## Report 2 – Treatment Summary

Traverse City Mgt. Unit  
Year of Entry: 2021

Acres of Harvest

Compartment 137  
Total Compartment Acres: 2,432

Commercial Harvest - 637  
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	30	0	0	0	0	0	0	0	0	30
Jack Pine	306	0	0	0	0	0	0	0	0	306
Lowland Spruce/Fir	19	0	0	0	0	0	0	0	0	19
Natural Mixed Pines	4	0	0	0	0	22	0	0	0	26
Oak	82	0	0	0	0	70	0	0	0	152
Planted Mixed Pines	23	0	0	0	0	0	0	0	0	23
Red Pine	0	0	0	0	0	22	0	0	0	22
Upland Mixed Forest	0	0	0	0	0	57	0	0	0	57
<b>Total</b>	<b>465</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>128</b>	<b>0</b>	<b>0</b>	<b>637</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	637	0	0	0	0	82	0	44	0	762
Next Step	0	425	425	0	0	59	831	0	0	1740
<b>Total</b>	<b>637</b>	<b>425</b>	<b>425</b>	<b>0</b>	<b>0</b>	<b>59</b>	<b>912</b>	<b>0</b>	<b>44</b>	<b>2502</b>



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

2	61137002.28_Monitor	1.9	4199 - Other Mixed Upland Deciduous	Sapling Poor	3	Immature	Monitoring	Natural Regen (Re-Inventory)	4122 - Oak, Pine	Two-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> oak and pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 12/21/2016</p>											

2	61137002.34_Monitor	13.6	4199 - Other Mixed Upland Deciduous	Sapling Poor	3	Immature	Monitoring	Natural Regen (Re-Inventory)	4122 - Oak, Pine	Two-Aged	No
<p><u>Prescription</u> Check for adequate regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak and pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 12/14/2015</p>											

53	61137004-Cut	22.7	4126 - White, Black, N. Pin Oak	Poetimber Well	118	111-140	Harvest	Clearcut with Retention	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches in larger in diameter in addition only cut the red and white pine 6 inches and larger in diameter. Mark some scattered white oak to leave. Retention is a small portion of the parent stand.</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, aspen, red maple, jack pine and a minor component of red and 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> 1 /15/2019</p>											



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
5	61137005-NF	42.0	320 - Upland Shrub	Nonstocked	45	Unspec ified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
7	61137007-Cut	23.1	42140 - Planted Mixed Pine	Poletimber Well	58	51-80	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees two inches and larger. No retention because of small stand size and spruce bud worm.</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> Jack pine, aspen, balsam, spruce and red maple.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
13	61137013-Cut	59.4	4126 - White, Black, N. Pin Oak	Sawtimber Poor	108	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all trees two inches and larger. Low stumps and chip tops to facilitate planting operations. Protect snowmobile trail during harvest.</p> <p><u>Specs:</u> Retention will be a portion of the uncut stand south of the two track.</p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; SitePrep, Roller Chopping; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(3yr); Planting, Replant</p> <p><u>Acceptable Regen:</u> Fully stocked stand of red pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
19	61137019-Cut	30.3	4131 - Aspen, Oak	Poletimber Well	56	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Cut all trees two inches and larger in diameter. Leave minimal area retention. Mark a few white oak to leave.</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> Aspen, oak, red maple and some mixed conifer.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>27 61137027-Cut</b>	57.3	4310 - Pine, Oak Mix	Sawtimber Poor	90	51-80	Harvest	Overstory Removal	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 4 inches in larger in diameter in addition only cut the pine 6 inches and larger in diameter Leave minimal area retention and</p> <p><u>Specs:</u> mark some scattered white oak and white pine to leave.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, red maple, oak and mixed 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 /2020</p>										
<b>32 61137032-Cut</b>	22.3	42210 - Natural Red Pine	Sawtimber Well	97	171-200	Harvest	Crown Thinning	4221 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> mark stand to a residual of 100-120 sqft by removing mature and poor quality trees.</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>33 61137033-Monitor</b>	48.7	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Poor	5	Immature	Monitoring	Artificial Regen(3yr)	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Monitor regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack Pine with some red pine aspen and 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 /2020</p>										
<b>36 61137036</b>	19.3	6122 - Black Spruce	Poletimber Well	76	51-80	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all tree two inches in diameter. Retention is a portion of the stand 36 that wasn't harvested.</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> moderately to fully stocked stand of spruce, balsam red maple and mixed 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> 1 /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
<b>39 61137039-Monitor</b>	17.4	6122 - Black Spruce	Sapling Medium	17	Immature	Monitoring	Natural Regen (Re-Inventory)	6125 - Lowland Black Spruce, Jack Pine	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Black spruce, red maple, balsam fir and jack pine. <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2018</p>										
<b>44 61137044-Cut</b>	306.1	42120 - Planted Jack Pine	Sapling Well	29	Immature	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2 inches and larger. Require chipping and low stumps to facilitate planting operations. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Trenching; Planting, Initial Plant <u>Treatments:</u></p> <p><u>Acceptable</u> Jack Pine stocked to met KW requirements. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2027</p>										
<b>49 61137049-Cut</b>	70.2	4124 - Red with White Oak	Sawtimber Medium	98	51-80	Harvest	Overstory Removal	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Cut all trees 4 inches in larger in diameter in addition only cut the pine 6 inches and larger in diameter Leave minimal area retention and <u>Specs:</u> mark some scattered white oak and white pine to leave.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Oak, aspen, red maple and mixed pine. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>54 61137054-Cut</b>	4.1	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	49	81-110	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees two inches and larger. No retention because of small stand size. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine, oak and aspen. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
64 61137064-NF	1.8	330 - Low-Density Trees	Nonstocked		Immature	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
65 61137065-Cut	22.2	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	79	141-170	Harvest	Crown Thinning	4221 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> mark stand to a residual of 100-120 sqft by removing the poorest quality trees.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

**Total Treatment** 762.4  
**Acreage Proposed:**



## Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 137

Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		5C	2G	3D	3I	3J	5E
277	271	0	6	Aspen	0			0	6	0
4	4	0	0	Herbaceous Openland	0					
1284	1279	0	5	Jack Pine		0				5
5	2	0	3	Low-Density Trees				3	0	
169	10	0	159	Lowland Conifers		116	0		43	
64	0	0	64	Lowland Deciduous		64				
32	0	0	32	Lowland Mixed Forest		32				
1	1	0	0	Lowland Shrub		0				
78	78	0	0	Lowland Spruce/Fir		0				
18	16	0	2	Mixed Upland Deciduous	0					2
35	35	0	0	Natural Mixed Pines	0	0				
284	152	132	0	Oak	132					
23	23	0	0	Planted Mixed Pines						
46	36	0	10	Red Pine		0	10			
66	60	0	6	Upland Mixed Forest	0	0			6	
42	42	0	0	Upland Shrub						
6	6	0	0	Urban						
2,432	2,014	132	286	Total Forested Acres	132	211	10	3	55	7
	83%	5%	12%	Relative Percent						

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	59	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 137

Year of Entry: 2021

2	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	43	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	49	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

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Compartment: 137

Year of Entry: 2021

8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 137

Year of Entry: 2021

15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	89	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	(Inactive)3I: Historical / archeological (add locked comments)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	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	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	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
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	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
1	4131 - Aspen, Oak	Sapling Well	82.4	15	Immature	N/A	Stand was cut in Summer of 2003. Sale #054-01-1 Bear Bones Oak. Stand was not marked - leave trees were to be spaced at 50 feet. Less than 10 sqft of over story oak left																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>20</td> <td>Sapling/Pole/Log</td> <td>3</td> <td>15</td> </tr> <tr> <td>White Oak</td> <td>10</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>40</td> <td>Sapling</td> <td>4</td> <td>15</td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Sapling</td> <td>3</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	20	Sapling/Pole/Log	3	15	White Oak	10	Sapling/Pole	3		White Pine	10	Pole/Sapling	6		Bigtooth Aspen	40	Sapling	4	15	Red Maple	20	Sapling	3																
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2	4199 - Other Mixed Upland Deciduous	Sapling Poor	15.6	3	Immature	N/A																																														
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3	42120 - Planted Jack Pine	Poletimber Well	259.1	30	51-80	N/A	Kirtland's Warbler Habitat. Clear-cut in 1985 (Sale #46-84) and replanted with 2-0 Jack Pine in 1991 in the KW weave pattern of 1200 trees per acre.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>98</td> <td>Pole/Sapling</td> <td>5</td> <td>30</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	98	Pole/Sapling	5	30																																			
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5	320 - Upland Shrub	Nonstocked	42.0	45	Unspecified	No	Burned in the past. Ground cover is grass and blueberry. Stand is regenerating from stump sprouts. Mostly cherry with a few scattered maple, oak, white pine and aspen.																																													
6	42110 - Planted Red Pine	Sawtimber Well	13.8	58	81-110	N/A	OPIC - Stand planted in 1963, 6 acres, 7.5'x7.5' spacing. Stand was row thinned in 2015 61-051-11-01.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>98</td> <td>Log/Pole</td> <td>10</td> <td>58</td> <td>Pin Cherry</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	98	Log/Pole	10	58	Pin Cherry	Low	Variable	Sapling																											
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Red Pine	98	Log/Pole	10	58	Pin Cherry	Low	Variable	Sapling																																												
7	42140 - Planted Mixed Pine	Poletimber Well	23.1	58	51-80	N/A	OPIC - Stand was planted in 1963, 7.6 acres of spruce. A lot of variability occurs with a wide mixture of species. The one constant is the Spruce component. The South end has some big White Pine and a couple of wet pockets. The north end is more upland with small conifers. Some areas heavy to jack pine.																																													
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8	4131 - Aspen, Oak	Poletimber Well	118.3	39	51-80	N/A																																														
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9	6124 - Lowland Spruce-Fir	Poletimber Well	15.4	59	51-80	N/A																																														
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10	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	43.1	127	141-170	N/A	OPIC - Stream bisects the stand. Typical cedar stand with wet soils and small areas of windthrow. Very little hardwood component. More spruce in the northwest part of stand.																																													
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11	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	34.4	127	171-200	N/A	Soil is wet but not as saturated as is commonly found in cedar areas.																																													
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12	42290 - Natural Mixed Pine	Sawtimber Well	8.4	90	81-110	N/A																																														
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13	4126 - White, Black, N. Pin Oak	Sawtimber Poor	73.2	108	1-50	N/A	2011 - DAH - Sale # 81-05 was completed in 8/10.																																													
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14	42210 - Natural Red Pine	Sawtimber Well	9.6	106	51-80	N/A																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**15** 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 49.3 86 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	30	Pole	6	86	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	20	Pole	5					
White Pine	25	Log/Pole	10					
Red Maple	20	Pole	6					

**17** 330 - Low-Density Trees Nonstocked 2.9 Immature No

OPIC - FMD: Stand is pretty well dominated by quaking aspen regeneration. May have been a cut here in the past or a fire. A lot of other species mixed in, much of it is merchantable now. Various pockets of timber such as hardwood, jack pine, oak, red maple all sizes and concentrations. Wait for aspen to mature and deal with other species at that time. A fair amount of white pine gives the stand some diversity and provides escape cover for wildlife. Stand is mostly upland and rolling terrain. Some good white oak mast producers and some red pine sawlog size trees.

**18** 4311 - Pine, Aspen Mix Poletimber Well 8.5 54 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	40	Pole/Log	8	54	White Pine	Medium	Variable	Sapling
Bigtooth Aspen	20	Pole/Log	8	54				
Jack Pine	10	Pole	6					
Red Maple	20	Pole/Log	8					
Northern Pin Oak	10	Log/Pole	12					

**19** 4131 - Aspen, Oak Poletimber Well 36.3 56 81-110 N/A

A vernal pond is located in the stand just northeast of the center of the SE1/4 of the section. An old railroad grade is located in the south part of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	50	Pole/Log	8	56	White Pine	Trace	5 - 10 feet	Sapling
Red Maple	20	Pole	8					
Northern Pin Oak	10	Log/Pole	10					
White Oak	10	Log/Pole	10					

**20** 4124 - Red with White Oak Sawtimber Well 88.8 88 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	40	Log/Pole	10	88	White Pine	Full	Variable	Sapling
Bigtooth Aspen	10	Log/Pole	10		White Oak	Low	5 - 10 feet	Sapling
White Oak	20	Pole/Log	9		Red Pine	Medium	10 - 20 feet	Sapling
Red Maple	10	Pole/Log	9		Red Maple	Medium	10 - 20 feet	Sapling
Red Pine	15	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
21	4199 - Other Mixed Upland Deciduous	Poletimber Well	2.2	90	111-140	N/A	Residual islands left within a clearcut before retention was required.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Bigtooth Aspen		20	Log/Pole	10	90	White Pine	
White Pine		10	Log/Pole	10		Medium	
Northern Pin Oak		35	Log/Pole	10	90	Variable	
Red Maple		35	Pole/Log	8		Sapling	
22	4139 - Aspen, Mixed Deciduous	Sapling Well	40.3	16	Immature	N/A	Stand was clearcut in the summer of 2002. Sale #047-01-1, 43 acres.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Bigtooth Aspen		50	Sapling/Pole	4	16		
Red Maple		30	Sapling	3			
Red Oak		10	Sapling	3			
White Pine		10	Sapling	3			
26	42220 - Natural Jack Pine	Sawtimber Well	5.1	65	51-80	N/A	retention for stand 28
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Jack Pine		80	Log/Pole	10	65	White Pine	
Red Pine		10	Log/Pole	12		Low	
						5 - 10 feet	
						Sapling	
27	4310 - Pine, Oak Mix	Sawtimber Poor	57.3	90	51-80	N/A	Stand was cut in winter of 2002-2003. Sale #61-01 - Headache Oak. Harvest was accomplished without marking the stand. Shelterwood cut to 40-50% crown cover.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Pine		15	Pole/Log	8		Red Maple	
Red Oak		40	Log/Pole	10	90	Medium	
White Oak		10	Pole/Log	8		Medium	
White Pine		35	Log/Pole	10		Low	
						10 - 20 feet	
						Sapling	
						Medium	
						Variable	
						Sapling	
28	42120 - Planted Jack Pine	Sapling Well	396.8	14	Immature	N/A	Stand has been planted to jack pine. Stand was clearcut/harvested in winter of 2004 as part of sale # 046-01-01, Clark Road Warbler. KIRKLAND WARBLER MANAGEMENT BLOCK.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Jack Pine		91	Sapling	3	14		
29	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	16.5	89	81-110	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
White Pine		20	Log/XLog/Pole	14			
Balsam Fir		10	Pole	6			
Black Spruce		28	Pole	6	89		
Jack Pine		10	Pole/Log	8			
Red Pine		15	Log/Pole/XLog	14			
Red Maple		15	Pole	8			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**30** 6131 - Hemlock, White Pine, Maple, Birch Poletimber Medium 31.6 69 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Pole/Log	8	69	Red Maple	High	Variable	Sapling
White Pine	30	Log/XLog/Pole	14		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	15	Pole	6		White Pine	Medium	Variable	Sapling

**31** 622 - Lowland Shrub Nonstocked 1.3 No

**32** 42210 - Natural Red Pine Sawtimber Well 22.3 97 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	60	Log/Pole/XLog	12	97	White Pine	Medium	5 - 10 feet	Sapling
White Pine	15	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen	10	Log/Pole	10					
White Spruce	10	Pole	6					

**33** 42121 - Planted Jack Pine, Mixed Deciduous Sapling Poor 48.7 5 Immature N/A FTP C62-837. Planted 3-0 jack pine 5/8/2016.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	70	Sapling	1	5
Red Maple	15	Sapling	1	
Red Pine	10	Sapling	1	

**36** 6122 - Black Spruce Poletimber Well 57.9 76 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	60	Pole	6	76	Black Spruce	Medium	Variable	Sapling
Red Maple	20	Pole	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Jack Pine	10	Pole	8					

**39** 6122 - Black Spruce Sapling Medium 19.9 17 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	70	Sapling	2	17
Balsam Fir	20	Sapling	2	
Red Maple	10	Sapling	2	

Stand was harvested in the fall of 2017 'Bear Tracks mix' 61-125-15-01. Stand was a seed tree cut leaving some larger spruce for seed and leaving all spruce and fir less than 4". Ground was scarified very well so hopefully it will seed in. The ridge had a lot of jack pine on it and hopefully it will regenerate.

**40** 6113 - Lowland Maple Poletimber Medium 5.2 77 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	60	Pole	6	77	Red Maple	Medium	Variable	Sapling
Black Spruce	15	Pole	8		White Pine	Low	5 - 10 feet	Sapling
Jack Pine	10	Pole	8					
Balsam Fir	10	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
41	6113 - Lowland Maple	Poletimber Well	58.8	82	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>
Red Maple		65	Pole/Log	8	82	White Pine	Low	Variable	Sapling
Black Spruce		20	Pole	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
43	6126 - Lowland Jack Pine	Sapling Well	20.7	39	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Jack Pine		75	Sapling/Pole	3	39				
Black Spruce		15	Sapling	3					
White Pine		10	Sapling	3					
44	42120 - Planted Jack Pine	Sapling Well	306.1	29	Immature	N/A	Kirtland's Warbler Habitat. Stand was clearcut in 1986 as part of a 367 acre timber sale. The site was then roller chopped at some point shortly thereafter. Jack Pine planted by Wildlife Division - no FTP was completed regarding the planting. The North edges of the stand contain lots of leatherleaf where soil is more wet than other parts of the stand.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Jack Pine		95	Sapling/Pole	4	29				
45	42120 - Planted Jack Pine	Sapling Well	247.8	7	Immature	N/A	Windswept Jack #005-2011 KIRTLAND WARBLER HABITAT.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Jack Pine		80	Sapling	2	7				
49	4124 - Red with White Oak	Sawtimber Medium	70.2	98	51-80	N/A	Stand was cut in winter of 2002 (Sale # 056-01-1 Connector 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>
Red Oak		50	Log/Pole	10	98	Bigtooth Aspen	Medium	10 - 20 feet	Sapling
White Oak		25	Log	12		Red Maple	Medium	10 - 20 feet	Sapling
White Pine		15	Pole/Log	8		Red Oak	Low	5 - 10 feet	Sapling
Red Pine		10	Pole/Log	8		White Pine	Low	10 - 20 feet	Sapling
						White Oak	Medium	5 - 10 feet	Sapling
52	4126 - White, Black, N. Pin Oak	Sawtimber Well	6.0	87	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>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Oak		20	Pole/Log	8		White Pine	Low	5 - 10 feet	Sapling
Northern Pin Oak		50	Log/Pole	10	87				
Red Maple		10	Pole	8					
Bigtooth Aspen		10	Log/Pole	10					
White Pine		10	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
<b>53</b>	4126 - White, Black, N. Pin Oak	Poletimber Well	45.6	118	111-140	N/A																																								
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<b>54</b>	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	4.1	49	81-110	N/A																																								
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<b>58</b>	310 - Herbaceous Openland	Nonstocked	1.2	0		No	OPIC - FMD: Generally poor quality oak logs with some white pine understory. Most of the oak logs have serious defects. Some scattered pine logs and poles. Some small dbh aspen coming into a few areas.																																							
<b>60</b>	6125 - Lowland Black Spruce, Jack Pine	Poletimber Well	10.2	68	141-170	N/A																																								
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<b>63</b>	3105 - Mixed Upland Herbaceous	Nonstocked	2.5	44	Unspecified	Managed Opening	OPIC - FMD: Semi open in places. Burned in the past. Ground cover is grass and blueberry. Stand is regenerating from stump sprouts. Mostly cherry with a few scattered maple, oak and aspen. Site Index is from old inventory information.																																							
<b>64</b>	330 - Low-Density Trees	Nonstocked	1.8		Immature	No																																								
<b>65</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	22.2	79	141-170	N/A																																								
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<b>400</b>	110 - Low Intensity Urban	Nonstocked	4.0	98		No	Well site.																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
401	110 - Low Intensity Urban	Nonstocked	1.6	98		No	Well site.