



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61266

Entry Year 2019

Acreage: 1,581

County Kalkaska

Management Area: Williamsburg Moraine

Revision Date: 2017-06-12

Stand Examiner: Steve Crigier

Legal Description:

T27N, R8W, Sec's 6, 7 & 8.

Identified Planning Goals:

Vegetation management in the Williamsburg Moraine management area will provide various forest products; maintain or enhance wildlife habitat; protect areas of unique character and threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management objectives for this management area for this 10-year planning period include improving the age-class structure of aspen, regenerating oak and the continuation of management through selection or restarting harvests of red pine and upland hardwood communities. Wildlife habitat management objectives include increasing the structural complexity of upland hardwood communities for forest interior species; perpetuating early-successional communities for young-forest-dependent species, hunting and other wildlife-related recreation opportunities; maintaining soft and hard mast sources including oak; and preserving biodiversity. Expected trends within this 10-year planning period are: increased recreational pressure, especially on established trails; increased oil and gas development; introduced pests and diseases, especially beech bark disease and emerald ash borer; an increased need to regenerate oak and red pine; and the decreased dominance of pure oak types to mixed oak/pine types.

Soil and topography:

Kalkaska & Emmet sandy loams. Rolling hills with some areas being quite steep.

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

Sections 7 & 8 are solid block ownership except for a 330 feet of a Consumers Energy Transmission line. Also in Section 7 is a one acre privately owned old school house, now a seasonal residence. In section 6 there are three unattached 80 acre blocks. One next to Smiths Lake. Except for the old school house these parcels are undeveloped.

Unique Natural Features:

There is potential for red-shoulder hawks and goshawks within the compartment. There is also a few small lakes in the compartment, Haynes Lake and Smiths Lake. The head waters of Barker Creek is in the northern part of the compartment.

Archeological, Historical, and Cultural Features:

There are several old foundations (homesteads) scattered throughout the compartment.

Special Management Designations or Considerations:

None known

Watershed and Fisheries Considerations:

This compartment contains a variety of unique and critical watershed components as described in the Unique, Natural Features and Special Management Designations or Considerations sections. Therefore, please conform to all the BMPs listed in the Water Quality Management Practices on Forest Land (1994) handbook. In addition, do not harvest any trees in riparian areas that have the potential to provide woody debris to lakes or streams within this compartment.

Wildlife Habitat Considerations:

Compartment 266 is situated on a series of steep moraine ridges with well drained soils (LTA 1122). This type of geology typically supported beech/maple forests. Much of the current cover types consist of northern hardwoods, with various pine plantations, some aspen, oak, and non-forested stands as well. One stand of hardwood is prescribed for thinning this treatment period. Care should be taken to maintain age and species diversity within northern hardwood stands, and over this landscape as a whole, using local physiographic features for guidance. Also, northern hardwood thinnings should be designed to save mature beech and oaks for denning, nesting, roosting, and mast producing trees. Many species of wildlife utilize mature northern hardwoods, such as scarlet tanagers, gray fox, four toed salamanders, Eastern

gray squirrel, white-tail deer, and wild turkeys.

Wildfires did occasionally make their way from adjacent outwash plains onto these glacially formed ridges, potentially creating pockets of earlier successional communities. Little bluestem is found in most openings and is a major component of several larger openings, which are proposed for burning to promote the native grasses. Most of the openings found in this compartment are the results of frost pockets, some showing signs of vernal wetlands at the bottom. Several other openings are the result of homesteads, gaps between pine plantations, or a combination of the two. Most of the openings are self-maintaining and need little or no maintenance during this entry period. However, some openings, deprived of various natural disturbances, have been proposed for maintenance projects including hand felling, shrub regeneration, and mowing. Many wildlife species take advantage of these natural and man-made openings, including white-tail deer, red fox, cottontails, Eastern garter snakes, and broad-winged hawks.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of coarse-textured till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. The Coldwater does not have a current economic use. Gravel pits are located in the area and potential is good. The Compartment is just north of the prolific Niagaran reef trend and only a few of the State minerals are currently leased.

Vehicle Access:

See Map

Survey Needs:

Some work in section 6 will be needed.

Recreational Facilities and Opportunities:

There are no designated trails within this compartment, however, Smith's Lake receives heavy use for fishing. The Haynes Lakes are very shallow. Mushrooming & hunting are recreational activities that take place within this compartment (T.M.N. 111/3/16)

Fire Protection:

Fire protection is provided by the Kalkaska Fire Dept., and DNR protection is from the Kalkaska Field Office. This is a mostly hardwood cover type, with good access. Urban interface is not really an issue, as there is only a small amount of private land. This compartment is close to both the VFD and the DNR Field Office, so travel time is adequate.

Additional Compartment Information:

The following reports from the Inventory are attached:

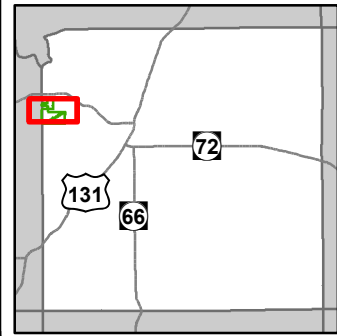
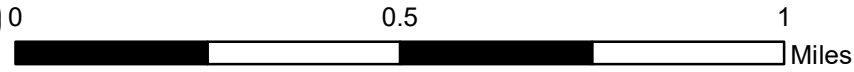
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

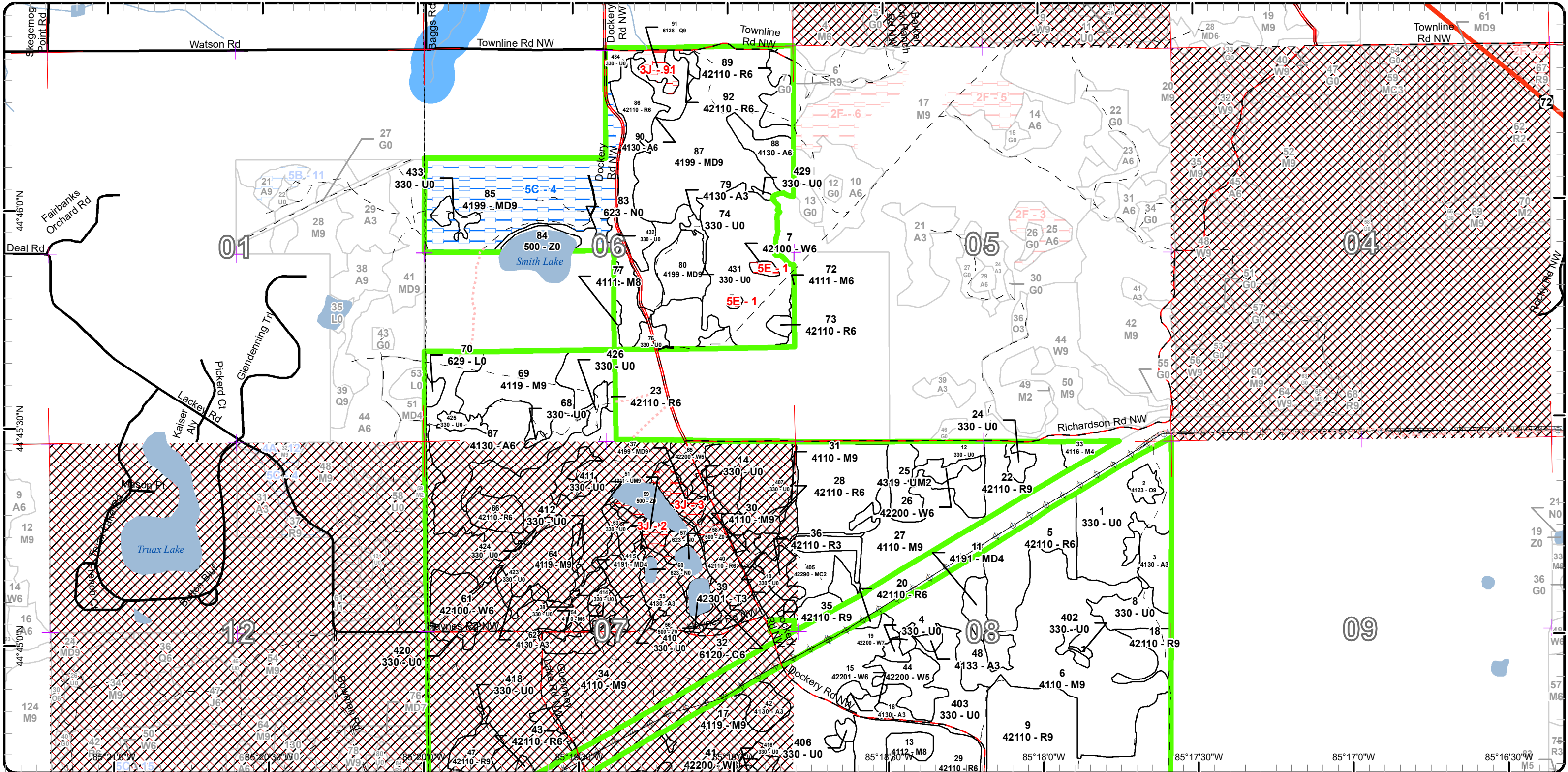
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Special Conservation Areas & Site Conditions Map

Compartment: 266
 T27N R08W Sec. 6-8
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Williamsburg Moraine
 YOE: 2019
 Acres: 1580.6 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 8/7/2017
 Map Phase: Post-Review

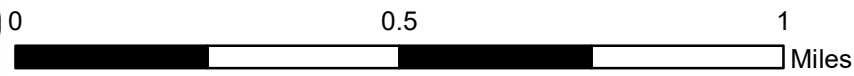
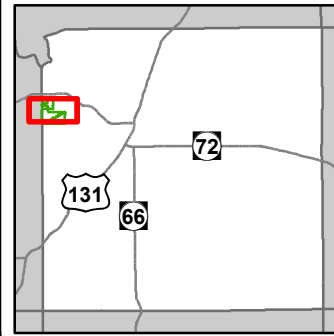


- Miris Corners
- + Remonumented Section Corners
- Counties
- Highway
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Pipeline
- ⊕ Powerline
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- Available w/ Constraints
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- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

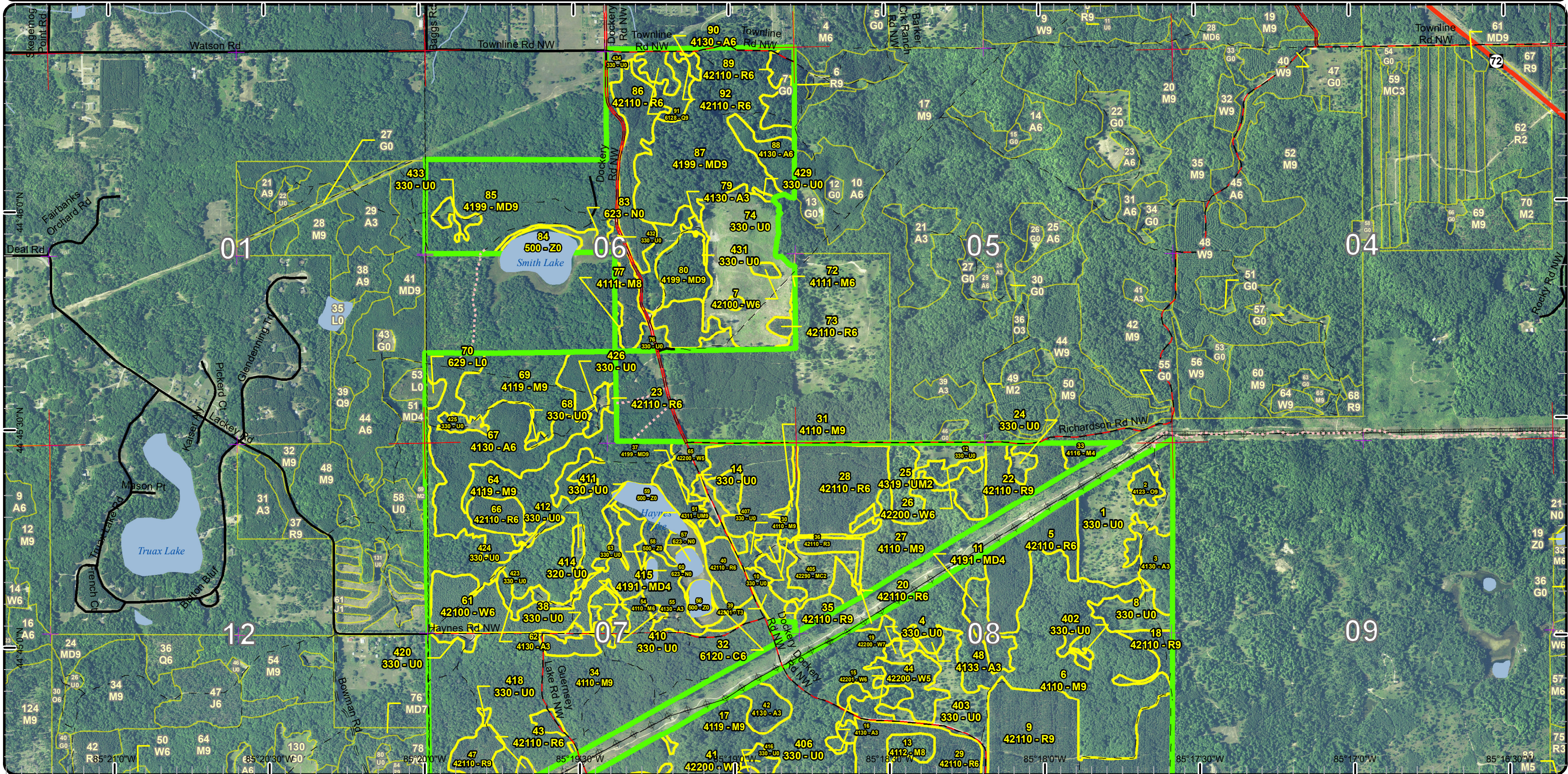


Stand Boundary Map

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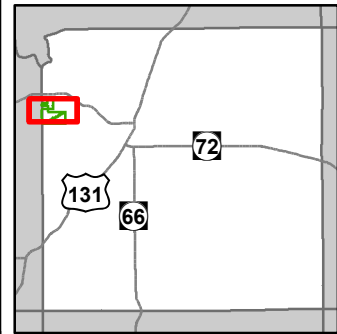
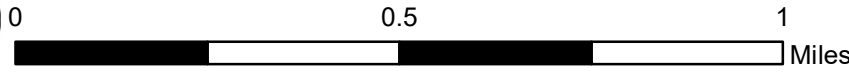


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- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
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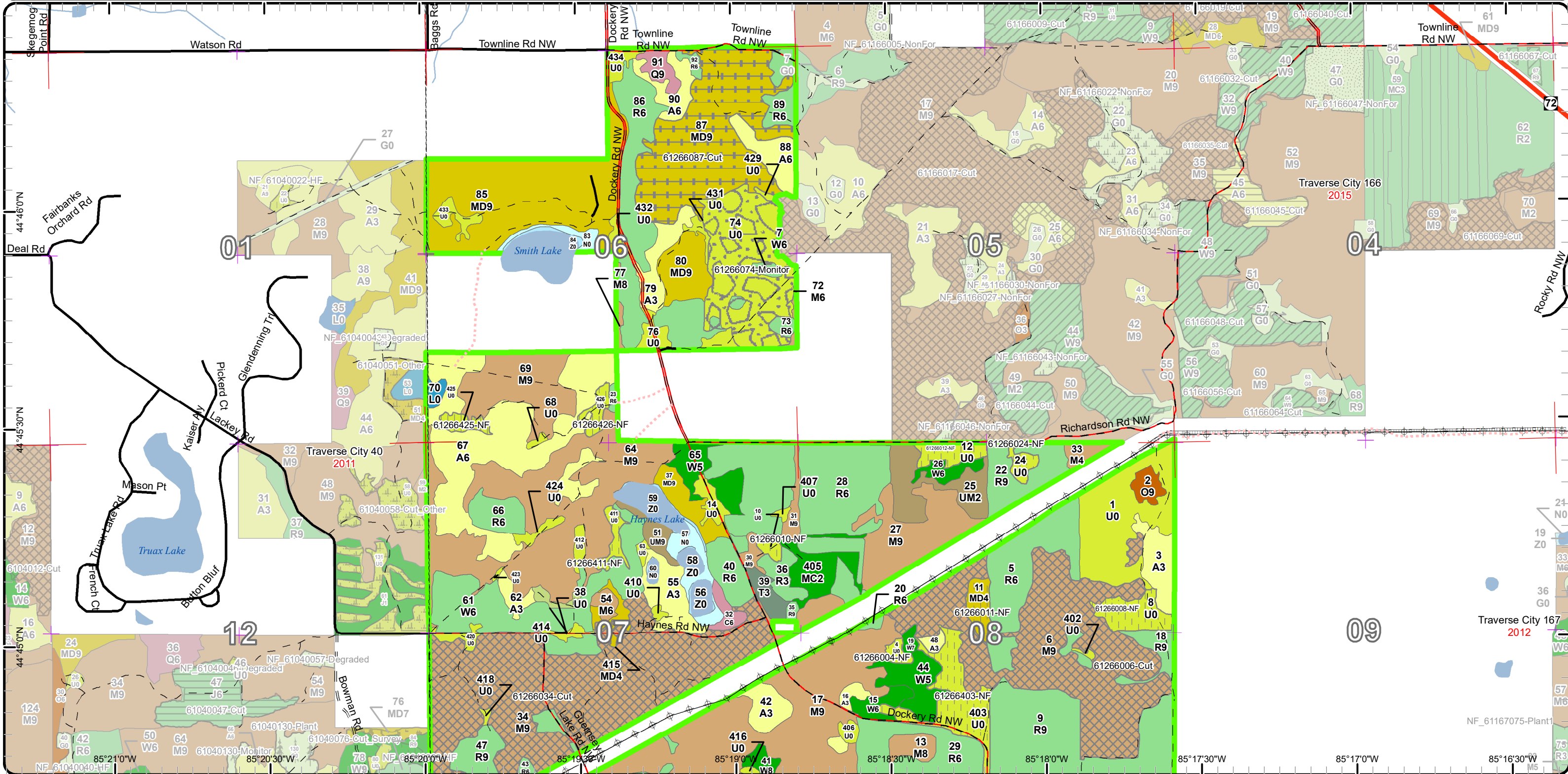


Cover Type & Treatments Map

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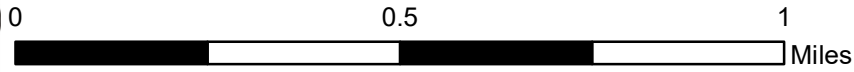
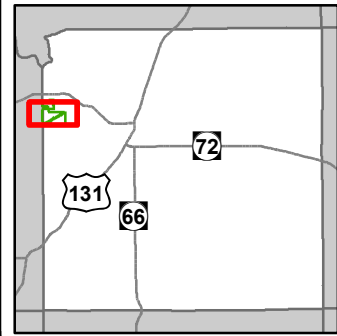


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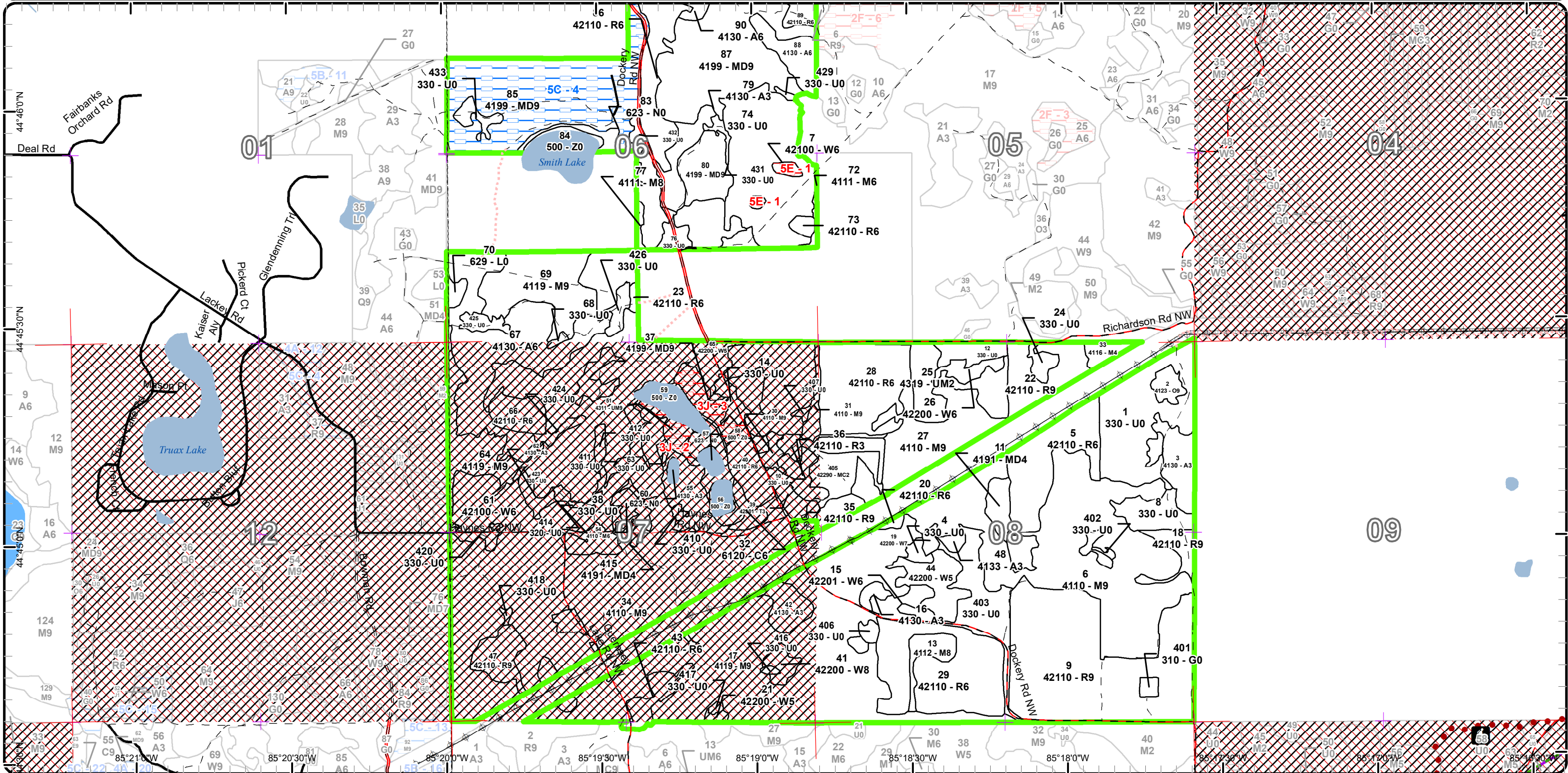


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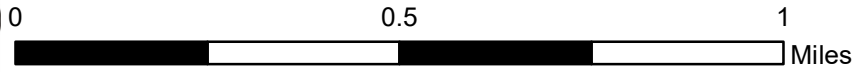
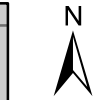
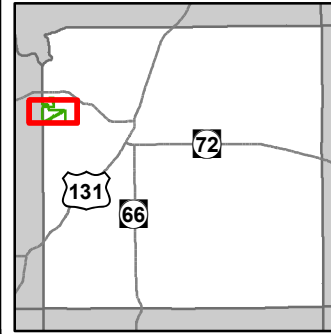


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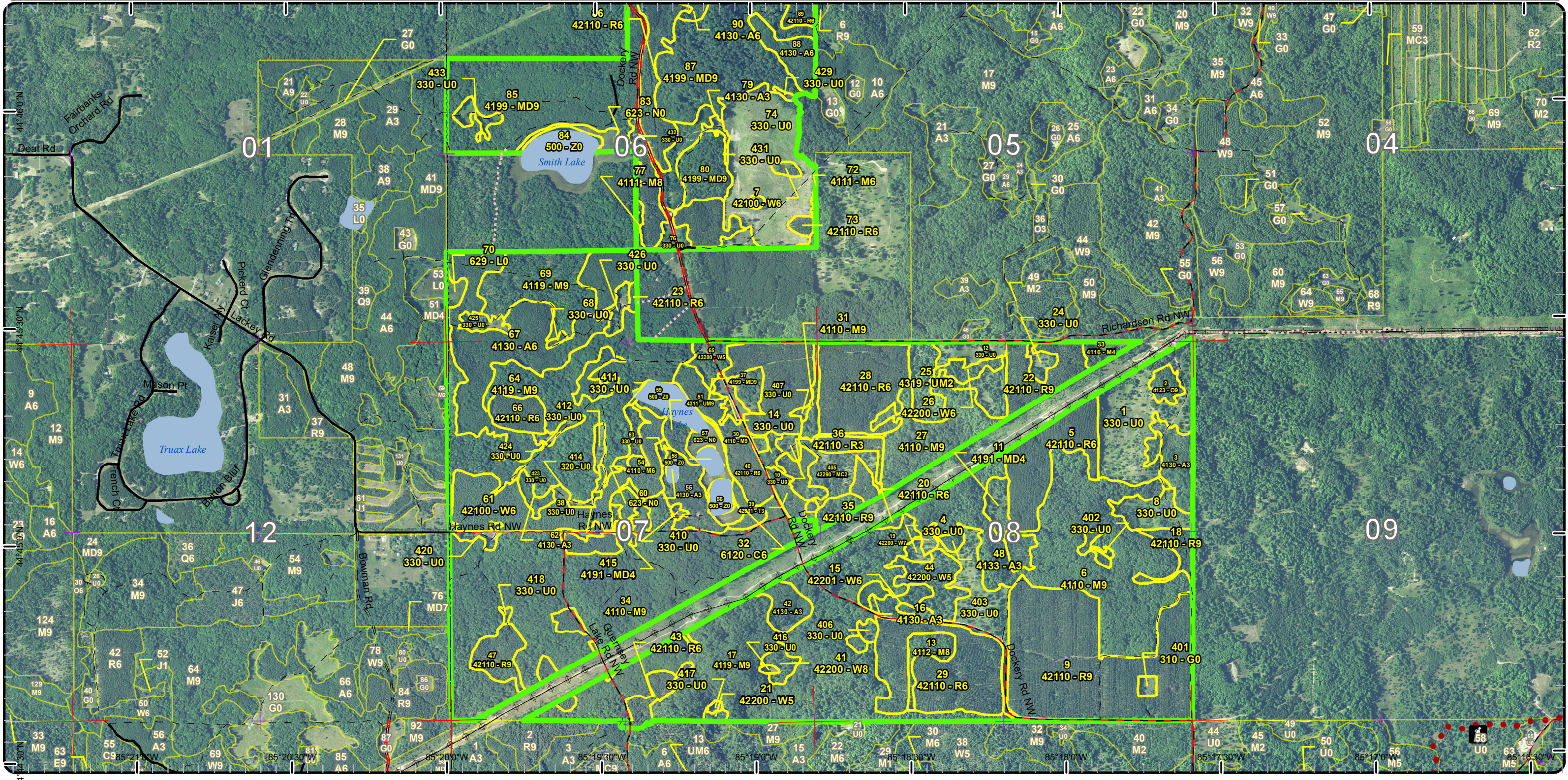


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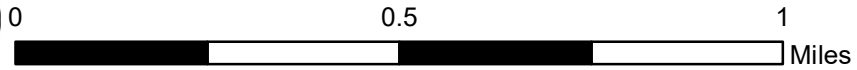
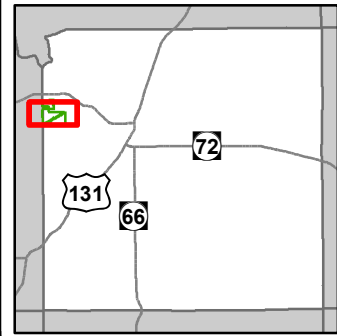


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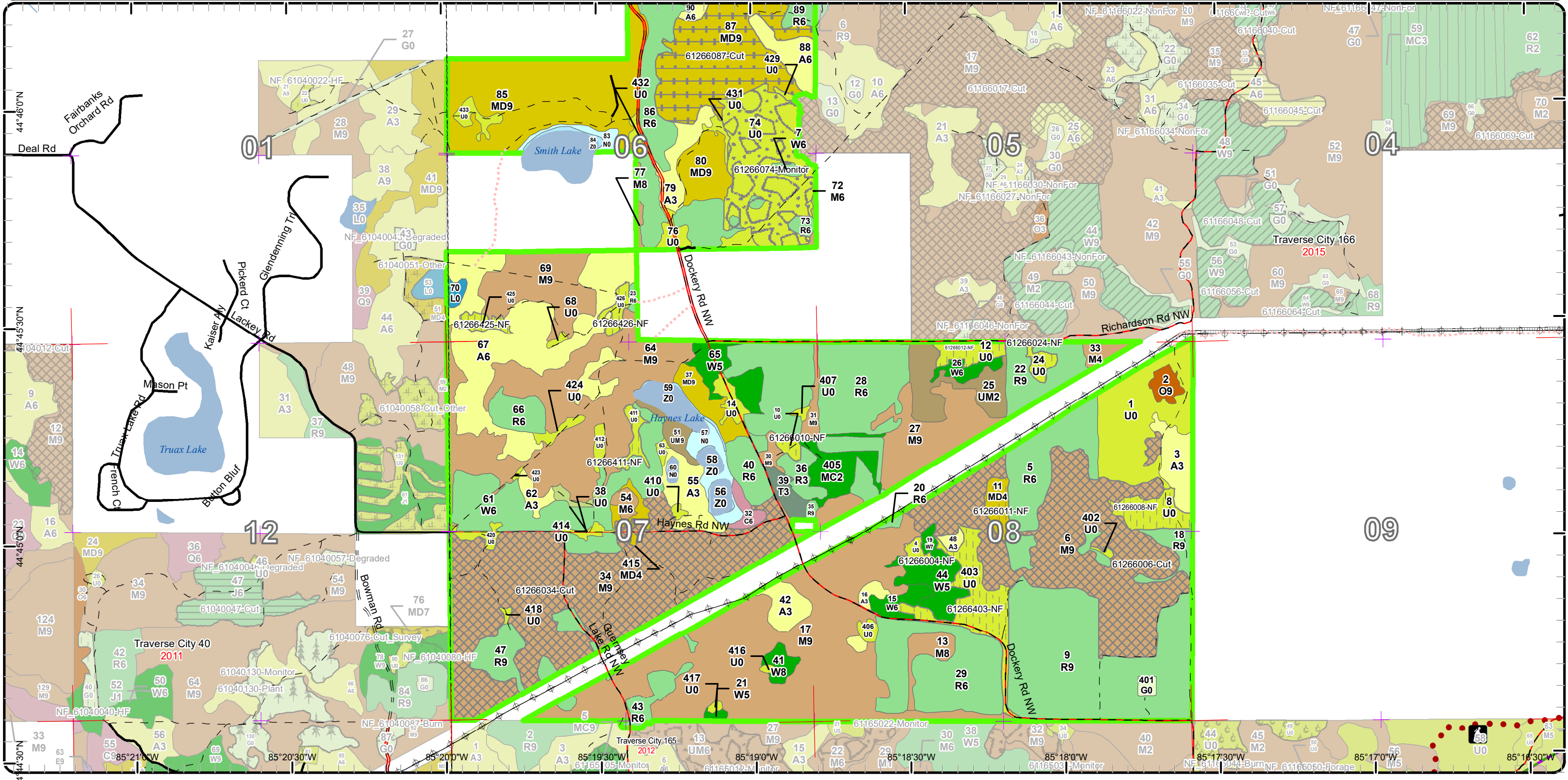


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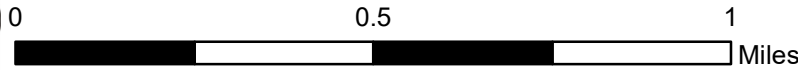
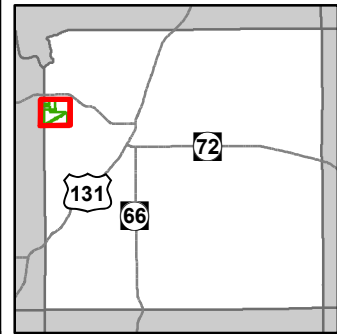


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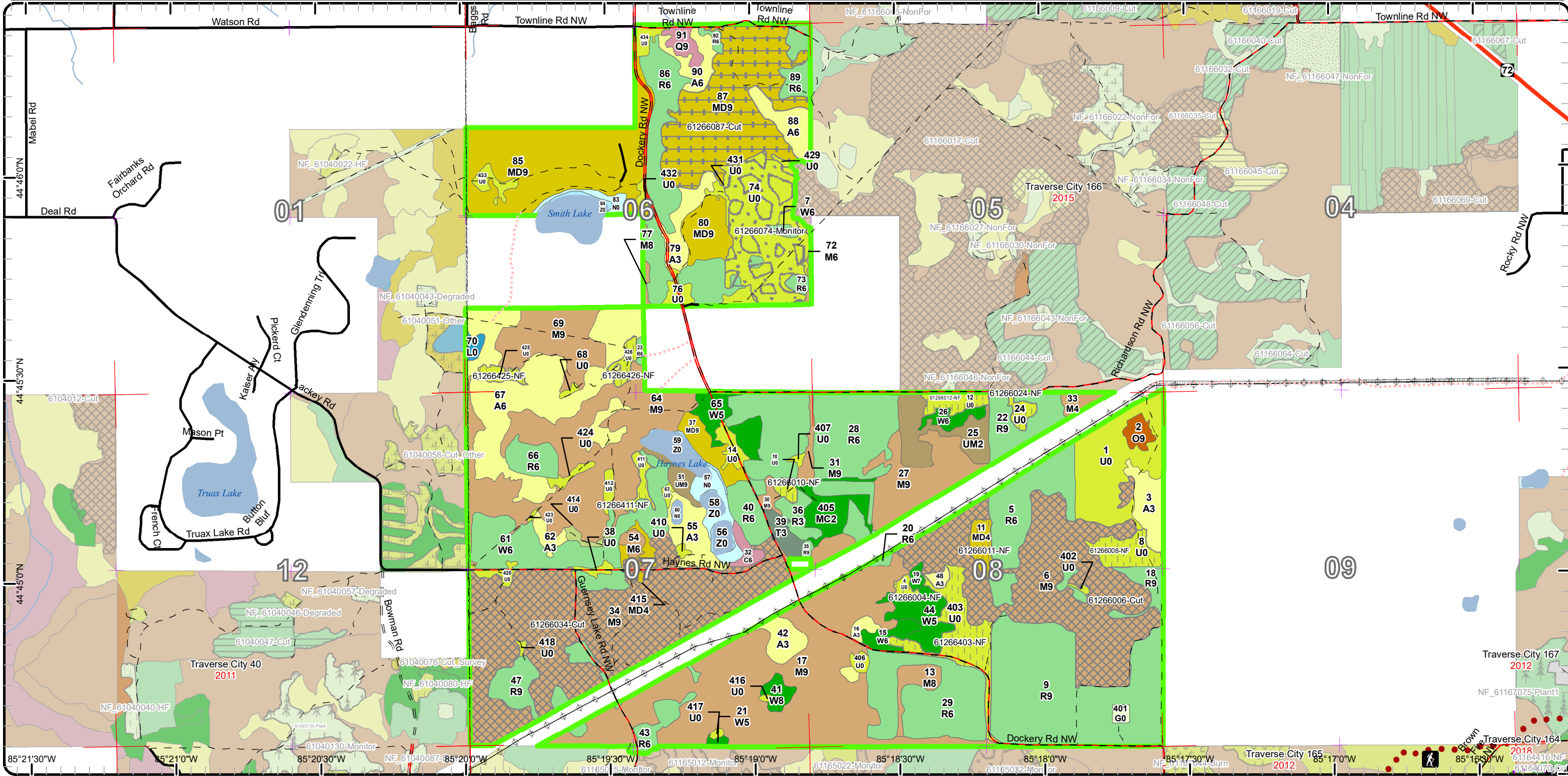


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Report 1 – Total Acres by Cover Type and Age Class



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	25	79	11	18	0	0	0	0	0	0	0	0	0	0	0	0	133
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Low-Density Trees	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	175
Lowland Conifers	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Marsh	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	153	13	0	0	0	0	0	0	0	9	174
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12
Northern Hardwood	0	0	0	0	0	0	3	0	124	0	0	0	0	0	0	0	0	445	572
Oak	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
Red Pine	0	0	7	1	0	42	309	0	0	0	0	0	0	0	0	0	0	0	359
Tamarack	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Mixed Forest	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	18	23
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
White Pine	0	0	0	0	0	1	41	5	2	0	0	0	0	0	0	0	0	31	80
Total	212	0	37	80	11	61	350	12	7	277	18	0	0	0	0	0	0	519	1583



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 266
Total Compartment Acres: 1,581

Commercial Harvest - 712
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
Mixed Upland Deciduous	0	13	0	0	0	72	0	0	0	85
Northern Hardwood	0	262	0	0	0	0	0	0	0	262
Red Pine	0	0	0	0	326	0	0	0	0	326
White Pine	26	13	0	0	0	0	0	0	0	38
Total	26	287	0	0	326	72	0	0	0	712

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	712	26	0	0	0	51	0	56	0	845
Next Step	0	52	52	0	0	209	463	0	0	775
Total	712	78	52	0	0	209	514	0	56	1620



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	Approval Status
1	61266001-Prep	26.0	330 - Low-Density Trees	Nonstocked		Unspecified	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Stand has some scattered hardwoods and white pine that will need to be removed before it is trenched and planted to red pine. I estimate that 60-70% of the work can be done with the roller chopper but some of the stuff will be to big. once chopped, trench and plant red pine.
Specs:

Next Step Planting, Initial Plant; SitePrep, Trenching; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial
Treatments:

Acceptable red pine
Regen:

Other Rolling hills with scattered cherry, red maple, and white pine but mostly open. 2-6" trees.
Comment:

Proposed Start Date: 10/01/2018

4	61266004-NF	1.9	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	320 - Upland Shrub		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription 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.
Specs: Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

5	61266005-Cut	26.9	42110 - Planted Red Pine	Poletimber Well	55	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Thin stand for a second time. Target BA around 120.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Canopy is closed together, a bit of beech creeping into the understory. Nice quality pine. was row thinned in 2000.
Comment:

Proposed Start Date: 10/01/2018

6	61266006-Cut	106.6	4110 - Sugar Maple Association	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Select harvest stand. Look to remove most of the beech as there is BBD present. Also focus on removing high risk tree or trees of poor form.
Specs: Create some regen gaps. Line these gap areas out as a clear cut they should be an acre or two in size. Might need to treat ironwood and beech regen somehow?

Next Step Pesticide, Skidder/Mechanical; Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Maple, basswood, cherry, oak
Regen:

Other Medium quality timber on some hilly terrain. Some scattered oak, heavy ironwood and beech understory. Some pockets of wind damage. BA's: 130, 120, 110, 110, 120. MNFI data shows that a Red-Shoulder Hawk nest was active in the south end of the stand in 2003.
Comment:

Proposed Start Date: 10/01/2018



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	Approval Status
8	61266008-NF	9.7	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3105 - Mixed Upland Herbaceous		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription 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.
Specs: Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.

Next Step
Treatments:

Acceptable
Regen:

Other Burn this stand at least once per entry period in order to set back woody encroachment, increase species diversity, stimulate native herbaceous vegetation, promote berry production, and recycle nutrients.
Comment:

Proposed Start Date: 10/01/2018

9	61266009-Cut	99.7	42110 - Planted Red Pine	Sawtimber Well	59	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Thin stand for a 3rd time. Remove poor quality trees. Target BA around 120.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Nice quality plantation, 5-6 stick trees. Canopies are still pretty tight, beech is sneaking into the understory. BAs: 130, 170, 140, 120.
Comment:

Proposed Start Date: 10/01/2018

10	61266010-NF	2.1	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	320 - Upland Shrub		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription 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.
Specs: Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

11	61266011-NF	5.4	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	30	Immature	NonForestMgt	Brush Cutting	320 - Upland Shrub		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription 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.
Specs: Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018



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	Approval Status
12	61266012-NF	6.0	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	320 - Upland Shrub		Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription 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.
Specs: Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

22	61266022-Cut	16.3	42110 - Planted Red Pine	Sawtimber Well	55	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Thin stand for a 3rd time. Some spots won't need too much paint. Target BA around 120.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Stand is on some hilly terrain. Mostly 6 stick trees. Heavy hardwood understory. Stocking is a bit variable. there is a decent amount of defect left in the stand. stand was row thinned in 2000 and then had a second thinning in 2010.
Comment:

Proposed Start Date: 10/01/2018

24	61266024-NF	3.0	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	320 - Upland Shrub		Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription 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.
Specs: Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

28	61266028-Cut	67.6	42110 - Planted Red Pine	Poletimber Well	56	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Thin stand for a 3rd time. Remove poor formed trees and have a target BA around 120.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Stand had a second thinning done in 2010. Hilly terrain. Canopies still look pretty tight in spots. beech is filling in the understory. (BA, 100, 140, 190, 150)
Comment:

Proposed Start Date: 10/01/2018



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	Approval Status
29	61266029-Cut	42.0	42110 - Planted Red Pine	Poletimber Well	46	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Thin stand for a second time. Target BA around 120.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Some hilly terrain. Mostly 5 stick trees. Some wind or snow damaged timber left some open areas on the east side of the stand.
Comment:

Proposed Start Date: 10/01/2018

31	61266031-Cut	3.6	4110 - Sugar Maple Association	Sawtimber Well	85	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Cut the aspen and thin the hardwoods where needed.

Specs:

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

Acceptable aspen, maple, basswood, etc
Regen:

Other Open grown timber. Understory is filling in with ironwood. Small pocket of aspen in the south end
Comment:

Proposed Start Date: 10/01/2018

34	61266034-Cut	151.5	4110 - Sugar Maple Association	Sawtimber Well	85	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Target beech and oak to cut. Thin through the denser pockets of maple. Create regeneration pockets that are 1-2 acres in size (line these gaps out as clearcut areas).

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable maple, oak, aspen, cherry, basswood.
Regen:

Other Parts of this stand was thinned in 1993 and then the whole area was thinned in 2002 'Red House Hardwoods 61-070-99-01. There are pockets of blowdown scattered through the stand. Lots of beech and ironwood regen in the understory. Stand is on some hilly terrain. Some of the oak is starting to decline but overall is nice quality timber. Some scattered white pine. Stocking seems to be a bit higher in the east half and a little nicer timber. Iceman bike route runs through this stand. west side BA's: 90, 120, 100, 80. East side BA's: 110, 120, 120, 110.

Proposed Start Date: 10/01/2018

40	61266040-Cut	9.1	42110 - Planted Red Pine	Poletimber Well	59	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Thin stand to create a more natural look along the lake. BA can be variable.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other on some hilly terrain.
Comment:

Proposed Start Date: 10/01/2018



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	Approval Status
47	61266047-Cut	16.7	42110 - Planted Red Pine	Sawtimber Well	56	141-170	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription thin stand to a BA of ~120. Hopefully sugar maple will start to fill in the understory.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Good looking trees mostly 5-6 sticks. Beech is filling in the understory. (ba, 140, 150, 140)
Comment:

Proposed Start Date: 10/01/2018

61	61266061-Cut	25.5	42100 - Planted White Pine	Poletimber Well	57	141-170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Clearcut, trench and plant red pine. Site might need a herbicide release.

Specs:

Next Step SitePrep, Trenching; Pesticide, Aerial; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable red pine.
Regen:

Other Poor quality stems, lots of forked tops and limby wood. Understory filling in with beech and lesser amounts of maple and cherry.
Comment:

Proposed Start Date: 10/01/2018

61	61266061-Cutx	12.8	42100 - Planted White Pine	Poletimber Well	57	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Two-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Thin stand to nurse along some hardwood regeneration. Maybe try to get BA around 80 or so to allow enough light to release the hardwoods.

Specs:

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

Acceptable maple, cherry, basswood, aspen.
Regen:

Other Poor quality stems, lots of forked tops and limby wood. Understory filling in with beech and lesser amounts of maple and cherry. Stand was row
Comment: thinned in 2002.

Proposed Start Date: 02/02/2017

66	61266066-Cut	8.3	42110 - Planted Red Pine	Poletimber Well	56	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription thin stand for a third time. Target BA around 120 or so.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Stand was thinned for a second time in 2011. 'Pocket Pine' 61-061-09-01. Nice quality red pine, lots of 6 stick trees, canopies are still pretty tight.
Comment: (BA 150, 190)

Proposed Start Date: 10/01/2018



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	Approval Status
74	61266074-Monitor	50.9	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(3yr)	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription
Specs:

Next Step Pesticide, Aerial
Treatments:

Acceptable red pine
Regen:

Other Percent to Treat = 100%
Comment:

Proposed Start Date: 10/05/2016

80	61266080-Cut	12.9	4199 - Other Mixed Upland Deciduous	Sawtimber Well	94	111-140	Harvest	Single Tree Selection	4199 - Other Mixed Upland Deciduous	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Target the beech and the oak to harvest before they start to decline. Thin through the maple. Try to have them cut or smash as much of the beech and ironwood regen as possible.
Specs:

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

Acceptable maple, oak, aspen, cherry, basswood.
Regen:

Other Nice quality oak and maple on hilly terrain. Understory is full of beech and Ironwood. Looks like the stand wants to push to more of a maple mix.
Comment: (BA 90, 140, 130).

Proposed Start Date: 10/01/2018

86	61266086-Cut	39.7	42110 - Planted Red Pine	Poletimber Well	53	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Thin stand for a second time. Remove poor formed trees, target BA of around 120.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Stand has a mix of white pine in areas. On rolling terrain, canopies are pretty tight. 5-6 stick trees. (BA 120, 160, 150, 150, 170)
Comment:

Proposed Start Date: 10/01/2018

87	61266087-Cut	72.3	4199 - Other Mixed Upland Deciduous	Sawtimber Well	82	81-110	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Two-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Mark to leave a variable amount of residual BA or leave some pockets of retention on the steep terrain. Would like to target the harvest of the mature oak and beech but leaving a few/acre for mast production. It might be nice to have the stand tree length harvested and chipped to scarify the soil and to try and knocked down the beech and ironwood regen.
Specs:

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

Acceptable oak, maple, basswood, aspen, cherry, etc.
Regen:

Other Very hilly terrain, lots of beech and ironwood in the understory. Good quality oak. South east part of the stand is more of a mixed hardwood stand with more maple component. North part of stand has lower stocking and more advanced regen. (BA 80, 110, 100, 110, 50)
Comment:

Proposed Start Date: 10/01/2018



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	Approval Status
403	61266403-NF	21.5	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3105 - Mixed Upland Herbaceous		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription 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.
Specs: Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.

Next Step
Treatments:

Acceptable
Regen:

Other May want to burn this stand at least once per entry period in order to set back woody encroachment, increase species diversity, stimulate native herbaceous vegetation, promote berry production, and recycle nutrients.
Comment:

Proposed Start Date: 10/01/2018

411	61266411-NF	3.5	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	320 - Upland Shrub		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription 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.
Specs: Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

425	61266425-NF	3.0	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	320 - Upland Shrub		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription 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.
Specs: Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018



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	Approval Status
426	61266426-NF	3.3	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	320 - Upland Shrub		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription 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.
Specs: Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed: 847.8

Report 4 – Site Conditions

Traverse City Mgt. Unit

Steve Crigier : Examiner

Compartment: 266

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	3J	5E
		With Condition	Not Available				
133	133	0	0	Aspen			
4	4	0	0	Cedar			
2	2	0	0	Herbaceous Openland			
175	175	0	0	Low-Density Trees			
5	0	0	5	Lowland Conifers		5	
2	2	0	0	Lowland Shrub			
13	13	0	0	Marsh			
174	94	72	9	Mixed Upland Deciduous	72	9	
12	12	0	0	Natural Mixed Pines			
571	571	0	0	Northern Hardwood			
4	4	0	0	Oak			
358	358	0	0	Red Pine			
5	5	0	0	Tamarack			
23	18	0	5	Upland Mixed Forest		5	
2	2	0	0	Upland Shrub			
18	18	0	0	Water			
80	78	0	2	White Pine			2
1,581	1,488	72	21	Total Forested Acres	72	19	2
	94%	5%	1%	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	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 266
Year of Entry: 2019

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	72	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
91	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	3G: Other Influence zones - See comments	3D: Recreational / Scenic values	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4123 - Red Oak	Sawtimber Well	3.9	68	81-110	Stand was a part of 'South Dockery Pine.' and was thinned down to 80sqft/ac in 2010 (Crigier). Stand is a mix of poles and logs, decent quality.
3	4130 - Aspen	Sapling Well	10.7	31	Immature	Trees are about 30+' tall, hardwoods in the understory.
5	42110 - Planted Red Pine	Poletimber Well	26.9	55	141-170	Canopy is closed together, a bit of beech creeping into the understory. Nice quality pine. was row thinned in 2000.
6	4110 - Sugar Maple Association	Sawtimber Well	106.6	85	111-140	Stand was thinned in 2002 'Section 8 Hardwoods' 61- 073-99-1. Medium quality timber on some hilly terrain. Some scattered oak, heavy ironwood and beech understory. Some pockets of wind damage. BA's: 130, 120, 110, 110, 120. MNFI data shows that a Red-Shoulder Hawk nest was active in the south end of the stand in 2003.
7	42100 - Planted White Pine	Poletimber Well	2.3	52	111-140	Retention Pockets for the adjacent clearcut/plantation. Stands were thinned but purpose is retention.
9	42110 - Planted Red Pine	Sawtimber Well	87.6	59	111-140	12/14/2010 Stand was a part of 'South Dockery Pine' (second thinning) had every 4th tree cut. Nice quality plantation, 5-6 stick trees. Canopies are still pretty tight, beech is sneaking into the understory. BAs: 130, 170, 140, 120.
11	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	5.4	30	Immature	An opening in a depression that is filling in.
13	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	6.1	80	51-80	12/14/2010 Stand was thinned with 'South Dockery Pine' all aspen was removed, thinned down to 70-80sqft/ac (Crigier). Stand has received some wind damage leaving some open spots. Understory is filling in with beech.
15	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	5.3	60	51-80	Poor quality trees. Has a mix of aspen and hardwood in the understory.
16	4130 - Aspen	Sapling Well	2.1	16	Immature	Stand was cut in 2001 'Section 7 Hardwoods' 61-071-99-01. Trees are about 20' tall, good density.
17	4119 - Mixed Northern Hardwoods	Sawtimber Well	144.1	85	81-110	Stand was thinned in 2002 'Section 7 hardwoods' 61-071-99-01. Hilly terrain, with pockets of blowdown timber. Decent quality hardwoods, thick beech and ironwood understory. Ridge tops have more of an oak component. Scattered dead oak. Also some scattered white pine. BBD is present. Iceman bike trail runs through this stand. BA's: 100, 110, 100, 160, 120, 110.
18	42110 - Planted Red Pine	Sawtimber Well	12.1	59	111-140	12/14/2010 Stand was a part of 'South Dockery Pine' (second thinning) had every 4th tree cut. Nice quality plantation, 5-6 stick trees. Canopies are still pretty tight, beech is sneaking into the understory. BAs: 130, 170, 140, 120.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	42200 - Natural White Pine	Sawtimber Poor	1.6	70	1-50	12/14/2010 Stand was Seed treed and was a part of the 'South Dockery Pine' sale residual BA from 10-30 (Crigier). Poor quality white pine residual. Stand is not seeding in yet, just getting some scattered beech regen.
20	42110 - Planted Red Pine	Poletimber Well	1.0	56	111-140	Stand was row thinned and was a part of the 'South Dockery Pine' sale in 2002 (Crigier).
21	42200 - Natural White Pine	Poletimber Medium	1.0	45	51-80	
22	42110 - Planted Red Pine	Sawtimber Well	16.3	55	111-140	Stand is on some hilly terrain. Mostly 6 stick trees. Heavy hardwood understory. Stocking is a bit variable. there is a decent amount of defect left in the stand. stand was row thinned in 2000 and then had a second thinning in 2010.
23	42110 - Planted Red Pine	Poletimber Well	1.0	28	1-50	
25	4319 - Mixed Upland Forest	Sapling Medium	18.1	28	1-50	Stand is pretty much filled in. west end is thick with sapling but lots of scattered pole timber too.
26	42200 - Natural White Pine	Poletimber Well	4.2	75	111-140	Poor quality white pine on a steep slope. Has a pretty thick hardwood understory. 5-6 stick trees, most of them have several tops. East end is smaller diameter trees.
27	4110 - Sugar Maple Association	Sawtimber Well	28.7	85	81-110	Lots of ironwood coming in from the last cut in 2001 'Schoolhouse Hardwood'. Some small pockets of sugar maple regen. Some individual tree blowdown. Quite a few high risk saw timber trees. West side of the stand has smaller diameters but higher stocking. (BA, 90, 120, 80, 110).
28	42110 - Planted Red Pine	Poletimber Well	67.6	56	111-140	Stand had a second thinning done in 2010. Hilly terrain. Canopies still look pretty tight in spots. beech is filling in the understory. (BA, 100, 140, 190, 150)
29	42110 - Planted Red Pine	Poletimber Well	42.0	46	141-170	12/14/2010 Stand was a part of 'South Dockery Pine' Sale specs had cut 1 leave 3 (Crigier). Canopies look a little tight still. Some hilly terrain. Mostly 5 stick trees. Some wind or snow damaged timber left some open areas on the east side of the stand.
30	4110 - Sugar Maple Association	Sawtimber Well	2.5	85	51-80	
31	4110 - Sugar Maple Association	Sawtimber Well	3.6	85	81-110	Open grown timber. Understory is filling in with ironwood. Small pocket of aspen in the south end.
32	6120 - Lowland Cedar	Poletimber Well	3.5	90	81-110	
33	4116 - Mixed N. Hardwood - Aspen	Poletimber Poor	3.8	28	1-50	Very hilly, stand is filling in with hardwoods. scattered pole timber and saplings.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	4110 - Sugar Maple Association	Sawtimber Well	156.8	85	81-110	Parts of this stand was thinned in 1993 and then the whole area was thinned in 2002 'Red House Hardwoods 61-070-99-01. There are pockets of blowdown scattered through the stand. Lots of beech and ironwood regen in the understory. Stand is on some hilly terrain. Some of the oak is starting to decline but overall is nice quality timber. Some scattered white pine. Stocking seems to be a bit higher in the east half and a little nicer timber. Iceman bike route runs through this stand. west side BA's: 90, 120, 100, 80. East side BA's: 110, 120, 120, 110.
35	42110 - Planted Red Pine	Sawtimber Well	1.0	56	111-140	Small red pine pockets on a hill side. Thinned for a second time in 2011.
36	42110 - Planted Red Pine	Sapling Well	6.6	15	Immature	Stand was planted in 2002. Red pine is about 15' tall. jack pine is thick in spots.
37	4199 - Other Mixed Upland Deciduous	Sawtimber Well	8.7	80	81-110	OPIC - FMD: 12/18/2006 Bluff. Stand along Hayes Lake. Mixed stand, looks like old home stead. Stand is a mix of oak and aspen with a bit of maple. There is 2 oak wilt pockets at the north end of the stand. Decided not to treat the sites because it is also on the private property to the north.
39	42301 - Planted Larch, Mixed Deciduous	Sapling Well	4.6	15	Immature	Was planted to European larch in 2002. Larch is about 20' tall.
40	42110 - Planted Red Pine	Poletimber Well	9.1	59	141-170	There is a elevation marker within this stand. Nice quality red pine. Underscore is filling in with beech. Pretty hilly terrain.
41	42200 - Natural White Pine	Sawtimber Medium	3.8	85	51-80	Scattered white pine log trees with a mix of hardwoods down at the bottom of the hill. Understory is filling in with beech and ironwood.
42	4130 - Aspen	Sapling Well	8.6	16	Immature	2/18/2003 TS# 057-00-1 (Grieve) Trees are 20-30' tall. good stem density.
43	42110 - Planted Red Pine	Poletimber Well	10.0	56	141-170	Stand was row thinned in 2011 'Pocket RP' 61-061-09-01. Canopies are still pretty tight.
44	42200 - Natural White Pine	Poletimber Medium	12.2	30	Immature	Opening filling in with bushy white pine. A mix of pole timber and saplings. Poor quality trees. Hilly terrain.
47	42110 - Planted Red Pine	Sawtimber Well	16.7	56	141-170	OPIC - FMD: 8/1/11 Stand thinned for a second time in 2011 'Pocket RP' 61-061-09-01. Good looking trees mostly 5-6 sticks. Beech is filling in the understory. (ba, 140, 150, 140)
48	4133 - Aspen, Mixed Pine	Sapling Well	1.6	16	Immature	Cut in 2001 as a part of 'Section 8 hardwoods' 61-073-99-01. Trees are 15-20' tall with some white pine pole timber mixed in.
51	4311 - Pine, Aspen Mix	Sawtimber Well	5.4	70	81-110	Red pine with a mix of oak and aspen. Beech in the under story.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
54	4110 - Sugar Maple Association	Poletimber Well	2.6	67	111-140	Small diameter hwds, could use a light 'tis if there is sometimeNg for it to go with. Nice quality.
55	4130 - Aspen	Sapling Well	11.8	28	Immature	Good seem density. trees about 30ft tall, scattered large oak trees. Hemlock and cedar on the wetland edges. Neat ridge between the two wetlands. south end of stand seems to be more of a pole sized stand.
61	42100 - Planted White Pine	Poletimber Well	38.3	57	141-170	Stand was row thinned in 2002 'Dockery Road Pine' TS# 057-00- 1. Poor quality stems, lots of forked tops and limby wood. Understory filling in with beech and lesser amounts of maple and cherry.
62	4130 - Aspen	Sapling Well	3.2	18	Immature	Trees 20-30ft tall. Good density. Scattered white pine pole timber
64	4119 - Mixed Northern Hardwoods	Sawtimber Well	84.9	85	81-110	Nice quality oak and maple. Hilly terrain, beech and ironwood is thick in the understory. Stand was thinned in 2003 'Lost Dollar' TS# 064-00-1. Stocking seems to be a bit higher in the Northeast. Oak is pretty mature. Some blowdown in the NE. (BA 90, 80, 100, 100, 80).
65	42200 - Natural White Pine	Poletimber Medium	11.2	65	51-80	Looks like an opening that has filled in. A mix of different sized white pine. Mostly bushy poor quality trees. MNFI data shows there was a red legged spittle bug in 1997.
66	42110 - Planted Red Pine	Poletimber Well	8.3	56	141-170	Stand was thinned for a second time in 2011. 'Pocket Pine' 61- 061-09-01. Nice quality red pine, lots of 6 stick trees, canopies are still pretty tight. (BA 150, 190)
67	4130 - Aspen	Poletimber Well	67.6	28	1-50	There are a few spots that are more of an hardwood type. Nice quality aspen 4-5 sticks tall on hilly terrain. quite a bit of sugar maple in the understory.
69	4119 - Mixed Northern Hardwoods	Sawtimber Well	28.3	90	51-80	Very hilly stand.thinned fall of 2014, some areas more open where aspen was and some nice pole areas, hold likely 10-20. Scattered pockets of Hemlock. Understory is filling in with Beech. Some pockets of blowdown.
72	4111 - S.Maple, Hard Mast Association	Poletimber Well	1.4	85	81-110	OPIC - FMD: 12/20/2006 Very small out of the way stand. Be good for negotiated sale only. Retention will be from marking. (Grieve)
73	42110 - Planted Red Pine	Poletimber Well	1.9	53	111-140	Stand was row thinned in 2014 with the stand to the west.
77	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	1.7	80	81-110	OPIC - FMD: 12/18/2006 Very hilly area, selection cut needed. Retention will be from marking. (Grieve)
79	4130 - Aspen	Sapling Well	9.4	15	Immature	Trees are 20-25' tall, and has good stocking. Small wetland in south end of the stand. TS# 054-99-1



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
80	4199 - Other Mixed Upland Deciduous	Sawtimber Well	12.9	94	111-140	Stand was thinned in 2001 'Dockery Rd Hardwood'. 61-054-99-01. Nice quality oak and maple on hilly terrain. Understory is full of beech and Ironwood. Looks like the stand wants to push to more of a maple mix. (BA 90, 140, 130).
85	4199 - Other Mixed Upland Deciduous	Sawtimber Well	71.5	85	81-110	Stand was thinned in the last 20 years. Can't find the TCR though. Some areas of blowdown. East 1/2 of the stand has large red oak over pole sized sugar maple. Quite a bit of Ironwood and beech in the understory. More white pine in the understory in the west end and looks like younger timber, smaller diameter oak and 40-50 year old popple. Heavy to oak on the ridges, and aspen in the valley. Popular camping spots along lake. (BA 90, 80, 80, 100)
86	42110 - Planted Red Pine	Poletimber Well	40.3	53	141-170	Stand was initially thinned in 2002 'Dockery Road Pine' 61-057-00-01. Stand has a mix of white pine in areas. On rolling terrain, canopies are pretty tight. 5-6 stick trees. (BA 120, 160, 150, 150, 170)
87	4199 - Other Mixed Upland Deciduous	Sawtimber Well	72.3	82	81-110	Stand was thinned in 2001 'Dockery Rd hardwood' TS# 054-99-1 (Grieve). Very hilly terrain, lots of beech and ironwood in the understory. Good quality oak. South east part of the stand is more of a mixed hardwood stand with more maple component. North part of stand has lower stocking and more advanced regen. (BA 80, 110, 100, 110, 50)
88	4130 - Aspen	Poletimber Well	9.8	41	51-80	3-4 stick trees. Maple and ironwood understory.
89	42110 - Planted Red Pine	Poletimber Well	8.3	56	111-140	Stand was 3rd row thinned in 2007 with stand 6 in compartment 166. 4-5 stick red pine quite a bit of defect. Stand is on some hilly terrain. (BA 120, 140, 140).
90	4130 - Aspen	Poletimber Well	7.7	41	81-110	Decent quality aspen, some blowdown pockets on the northern edge. West end looks like it might be on wet ground and have a intermittent drain through it.
91	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	4.8	95	81-110	This stand is the headwaters of Barker Creek. Numerous springs through out stand and a creek. Popular stop for locals. This stand has a spring in it.
92	42110 - Planted Red Pine	Poletimber Well	1.6	53	141-170	Stand has never been thinned before. small pocket of red pine.
405	42290 - Natural Mixed Pine	Sapling Medium	11.9	28	Immature	Opening that is mostly filled in. A mix of saplings and pole
415	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	3.5	20	Immature	Opening filling in. stand is a mix of scattered logs and saplings filling in the understory.



Stand	Cover Type	Acres	Managed Site	General Comments:
1	330 - Low-Density Trees	36.3	No	Rolling hills with scattered cherry, red maple, and white pine but mostly open. 2-6" trees.
4	330 - Low-Density Trees	1.9	Yes	
8	330 - Low-Density Trees	9.7	No	OPIC - FMD: 11/20/2006 Scattered cherry. (Grieve)
10	330 - Low-Density Trees	2.1	Yes	
12	330 - Low-Density Trees	6.0	Yes	very hilly. MNFI data shows that a Red legged spittle bug was found here in 1997?
14	330 - Low-Density Trees	3.7	Yes	
24	330 - Low-Density Trees	3.0	Yes	Opening filling in with hardwoods and white pine. A few scattered apple trees.
38	330 - Low-Density Trees	1.8	Yes	
56	500 - Water	3.2	No	These are a group of pond that are called Haynes Lake. When the water table is high, they join together to form one lake more or less. At this writing the water table is low.
57	623 - Emergent Wetland	9.0	No	At a low water table, like it is at this writing, this is a marsh. When the water table is high it is Haynes Lake. (Grieve)
58	500 - Water	2.0	No	These are a group of pond that are called Haynes Lake. When the water table is high, they join together to form one lake more or less. At this writing the water table is low. (Grieve)
59	500 - Water	6.1	No	These are a group of pond that are called Haynes Lake. When the water table is high, they join together to form one lake more or less. At this writing the water table is low. (Grieve)
60	623 - Emergent Wetland	1.0	No	
63	330 - Low-Density Trees	0.9	No	
68	330 - Low-Density Trees	0.7	Yes	
70	629 - Mixed non-forested wetland	2.2	No	Some white pine starting to grow in middle of bog.



Stand	Cover Type	Acres	Managed Site	General Comments:
74	330 - Low-Density Trees	48.4		'Just Peachy Pine' was harvested in 2013 and planted in 2014 to red pine (61-047-09-01) 1 year regen survey completed in 2016. Planting FTP 62-857.
76	330 - Low-Density Trees	6.4	Yes	U-type & grass.
83	623 - Emergent Wetland	3.3	No	At a low water table this is a marsh. When the water table is high it is Smith's Lake.
84	500 - Water	6.9	No	Smith's Lake
401	310 - Herbaceous Openland	1.6	Yes	OPIC - FMD: 11/20/2006 And it still is an abandon well site. Pine starting to move in. Very little knapweed. (Grieve) 1997 Abandon well site. (Lemmien)
402	330 - Low-Density Trees	0.5	No	OPIC - FMD: 12/17/2006 Old landing. (Grieve)
403	330 - Low-Density Trees	21.5	Yes	
406	330 - Low-Density Trees	1.6	No	OPIC - FMD: 11/26/2006 Pot Hole. Bracken fern, white pine creeping in from the side. (Grieve)
407	330 - Low-Density Trees	0.7	No	Small opening. Some bracken & white & red pine moving in.
410	330 - Low-Density Trees	0.7	No	
411	330 - Low-Density Trees	3.5	Yes	
412	330 - Low-Density Trees	1.9	No	
414	320 - Upland Shrub	2.0	No	
416	330 - Low-Density Trees	0.6	No	Frost pocket, large depression.
417	330 - Low-Density Trees	0.6	No	Frost pocket, large depression.
418	330 - Low-Density Trees	0.5	No	OPIC - FMD: 12/17/2006 Old landing. (Grieve)
420	330 - Low-Density Trees	2.7	No	
423	330 - Low-Density Trees	0.3	Yes	



Stand	Cover Type	Acres	Managed Site	General Comments:
424	330 - Low-Density Trees	2.0	Yes	
425	330 - Low-Density Trees	3.0	Yes	Looks like an old wildlife opening. White pine moving in. small cabin in SE corner of stand. Does not look like it has been used for sometime.
426	330 - Low-Density Trees	3.3	No	
429	330 - Low-Density Trees	0.5	No	On top of ridge.
431	330 - Low-Density Trees	1.5	No	
432	330 - Low-Density Trees	2.1	Yes	
433	330 - Low-Density Trees	3.4	Yes	Frost pocket. Pot hole, bracken.
434	330 - Low-Density Trees	3.3	No	Starting to close in.