



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61167

Entry Year 2022

Acreage: 2,120

County Kalkaska

Management Area: Williamsburg Moraine

Revision Date: 2020-07-23

Stand Examiner: Paul Roell

Legal Description:

T27N R08W Sections 1, 2, 3, 10, 11 & 12

Identified Planning Goals:

This compartment is part of the Williamsburg Moraine Management Area (MA). Management goals for this MA include balancing the age-class structure of aspen and red pine; increasing regeneration of oak; managing the northern hardwood resource for stand quality, age, and species diversity; enhancing wildlife values; and continued production of wood products. Wildlife habitat management objectives include perpetuating early successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Management challenges include increased recreational pressure, increased oil and gas development; increased urban-wildland interface; invasive plant control; control of forest diseases and pests including oak wilt; and conversion or poor oak sites to mixed pine/oak sites. 3% of the management area being lowland, management activities will be minimally constrained. Expected trends within this 10-year planning period are increased recreational pressure, managing oil and gas development, introduced pests and diseases and the difficulty in regenerating oak.

Soil and topography:

Terrain is rolling to very hilly. Sections 1, 2 & 3 are mainly Emmet soils whereas sections 10 and the west half of 11 are Kalkaska sands making them more conducive to pine growth. The remainder of the compartment is primarily Rubicon sand except for the few low lying areas along the Rapid River and other swampy areas.

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

M 72, which is owned by MDOT, goes through the center of this compartment along with many other county roads. The compartment is just 1.5 miles to the west of Kalkaska and there is an abundance of adjacent private parcels which leads to a fragmented ownership within the compartment.

Unique Natural Features:

The occurrence buffer for the little brown bat covers the majority of the compartment.

Archeological, Historical, and Cultural Features:

There are some known areas of archeological concern within Section 12.

Special Management Designations or Considerations:

None known at this time

Watershed and Fisheries Considerations:

This compartment is within the Rapid River Watershed. Reasonable buffers (as outlined in Water Quality Management Practices on Forest Land) should be adhered to around all streams in this compartment. These streams are all naturally reproducing, are Type 1 designated trout streams; existing buffers appear to be appropriate for the proposed treatments.

Wildlife Habitat Considerations:

This compartment falls into two land type associations: 1) the southern edge of the Williamsburg moraine crosses the western edge of this compartment. This hilly area was historically dominated by maple-beech forest, but has been greatly altered. Remnant hardwood forest should be maintained via selective harvesting practices to create small gap disturbances. Tree species diversity and habitat structure (e.g. down logs, understory development and cavity trees) should be maintained or enhanced when treating stands. Tops should be left unchipped and scattered around the sale in piles for wildlife cover. Beech is a particularly important species for wildlife, if any are left. Previously disturbed areas now harboring black cherry, white pine, and aspen mixes should be allowed to succeed or moved toward uneven-aged conditions through selective harvesting. Pine plantations should incorporate tree species and structural diversity as much as possible. Also, incorporating small (2-5 acre) islands that are left relatively un-thinned within mature pine stands would provide winter roosting cover for turkeys. 2) Much of the compartment falls into a pitted outwash plain. Ridges, draws, and depressions may have tempered naturally occurring wildfires; thus habitat patches should be smaller on average than those on adjacent dry outwash plains. A mosaic of mixed oak, pine, and aspen stands of various ages is appropriated

here, including some later successional hardwoods in the lee of natural firebreaks. Small aspen clones could be regenerated within oak types when thinning. Small or narrow openings are often associated with kettle depressions and should be maintained as shrubby openings. Frost naturally limits tree encroachment in these draws and depressions, although the fringes hold some black cherry, juneberry, aspen, and white pine. Abandoned oil well sites could be managed in a complimentary fashion by revegetating with grass mixes to eliminate exotic invasives and allowing some natural tree encroachment on the edges. Natural openings should be managed with seeding in native herbaceous species and planting native shrubs. Maintenance would be mowing, brush hogging, and burning. A major windstorm in 1998 has created numerous semi-open patches. Some blowdown patches should remain unsalvaged to allow wholly natural processes to continue to unfold.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and an end moraine of coarse textured till on the north. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. There is no current economic use for the Coldwater Shale. Gravel pits are located within this compartment, in Section 10 and 12. Gravel potential in the compartment is considered good, especially the upland areas. This area is located along the northern edge of the Silurian Niagaran reef trend. Some of the State land is currently leased for oil and gas development and there may be additional reef potential. Part of the Compartment has been nominated for underground gas storage and the rest has been nominated for the May 2010 lease auction. The Antrim Shale has not been developed in this area, but may have some future potential.

Vehicle Access:

There is good vehicle access throughout the Compartment.

Survey Needs:

None needed at this time

Recreational Facilities and Opportunities:

The North Country Hiking Trail, Shore To Shore Horse trail and the MCCCT trail all go through this Compartment. In addition the Winter Fest dog sled trail also goes through the south end of this compartment.

Fire Protection:

Kalkaska DNR and Kalkaska Township Fire Department cover this compartment for fire suppression

Additional Compartment Information:

The following reports from the Inventory are attached:

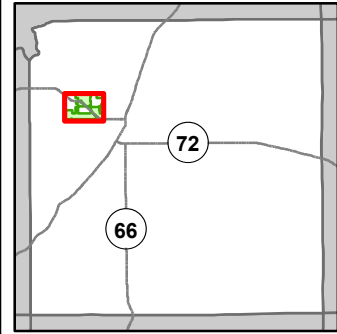
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

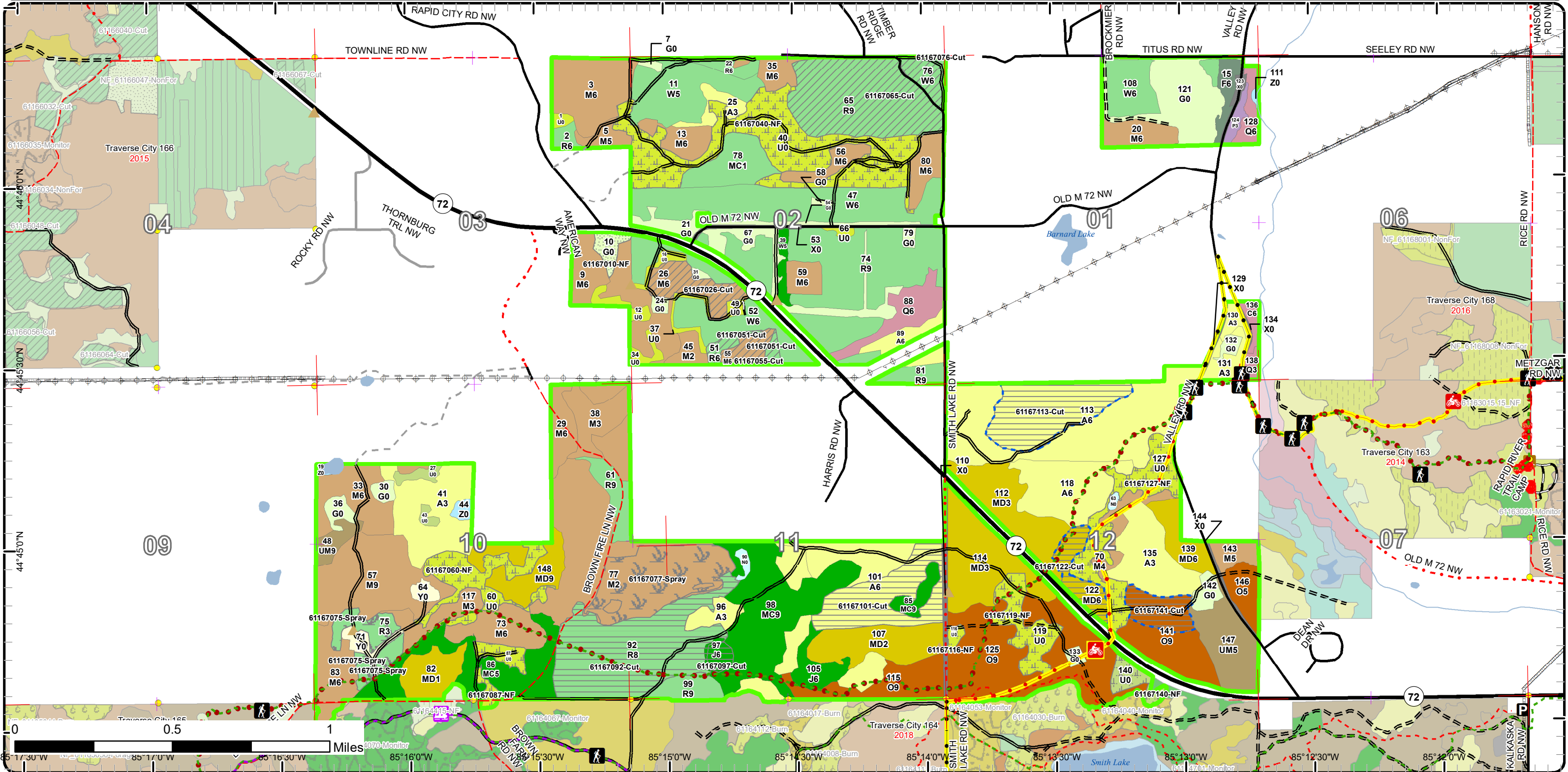
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 167
 T27N, R08W, Sec. 1-3, 10-12
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Williamsburg Moraine
 YOE: 2022
 Acres: 2,120.3 GIS Calculated
 Examiner: Paul Roell
 Map Revised: 1/8/2021
 Map Phase: Post-Review



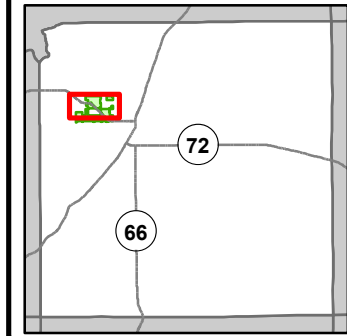
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
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- - - Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- ▲ Berms
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Pesticide
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Mowing
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 623 - Emergent Wetland
- 710 - Sand/Soil



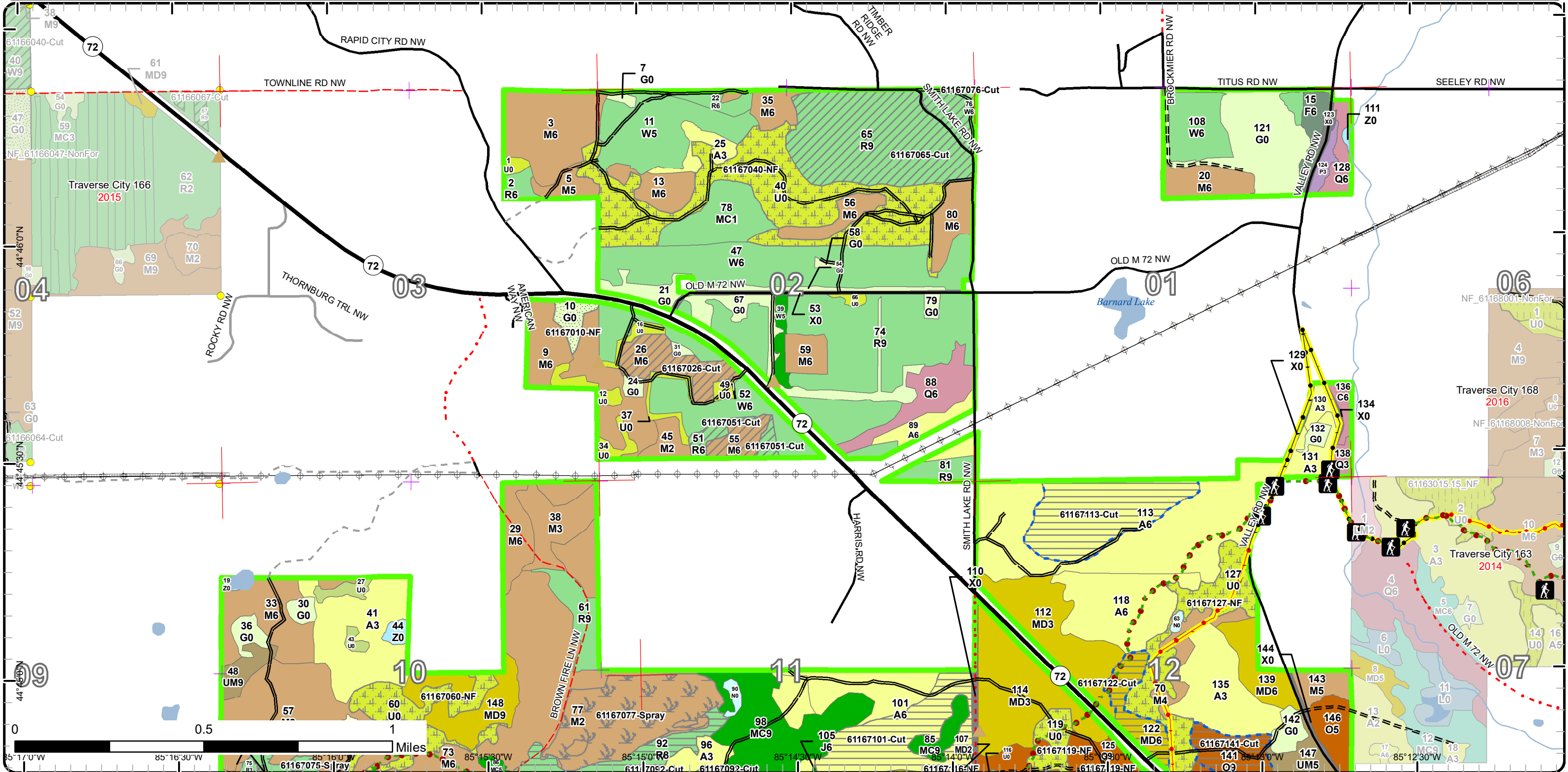
85° 17' 30" W 85° 17' 0" W 85° 16' 30" W 85° 15' 0" W 85° 14' 30" W 85° 14' 0" W 85° 13' 30" W 85° 13' 0" W 85° 12' 30" W 85° 12' 0" W

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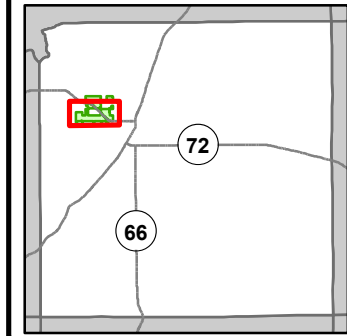


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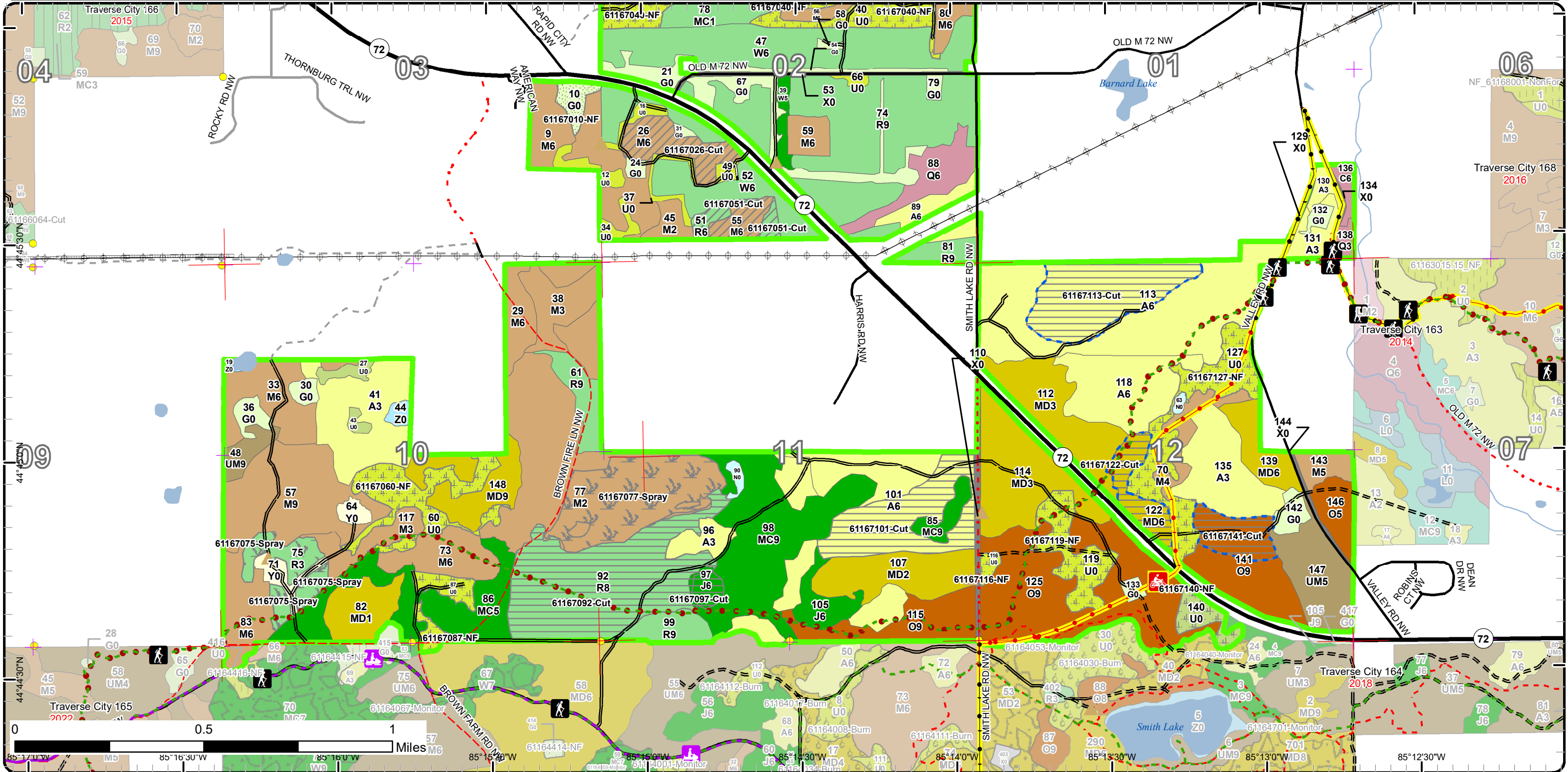


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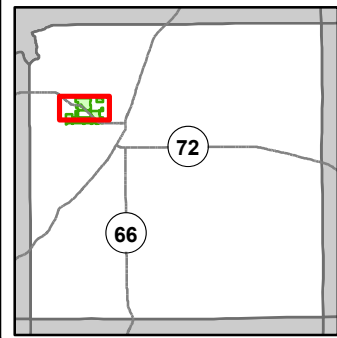


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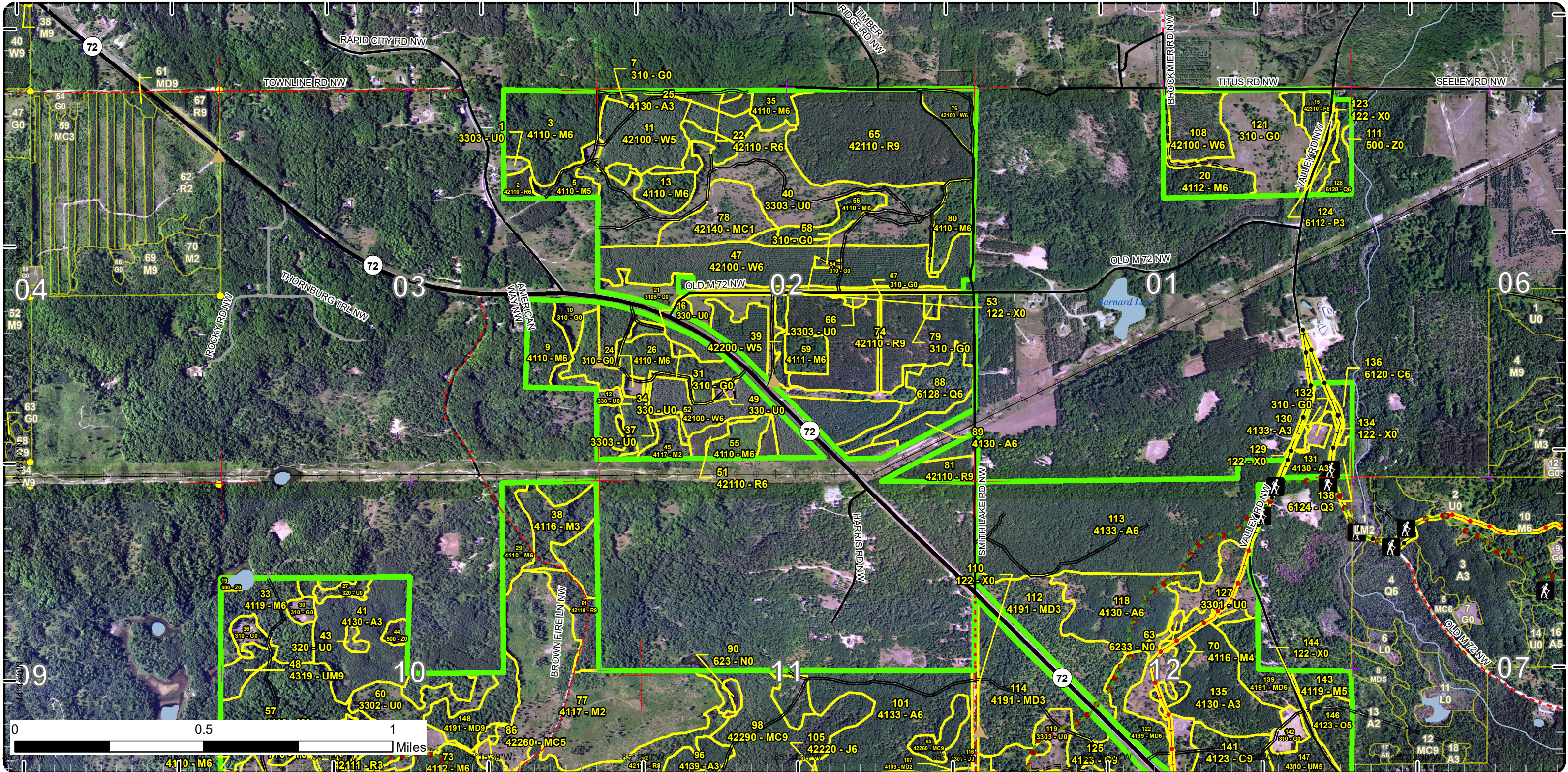


Stand Boundary Map

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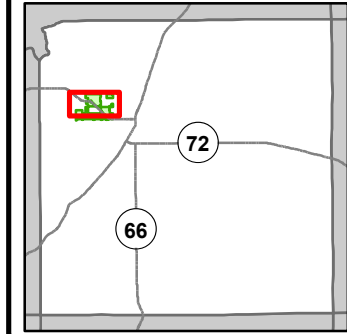


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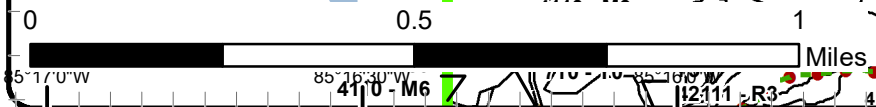
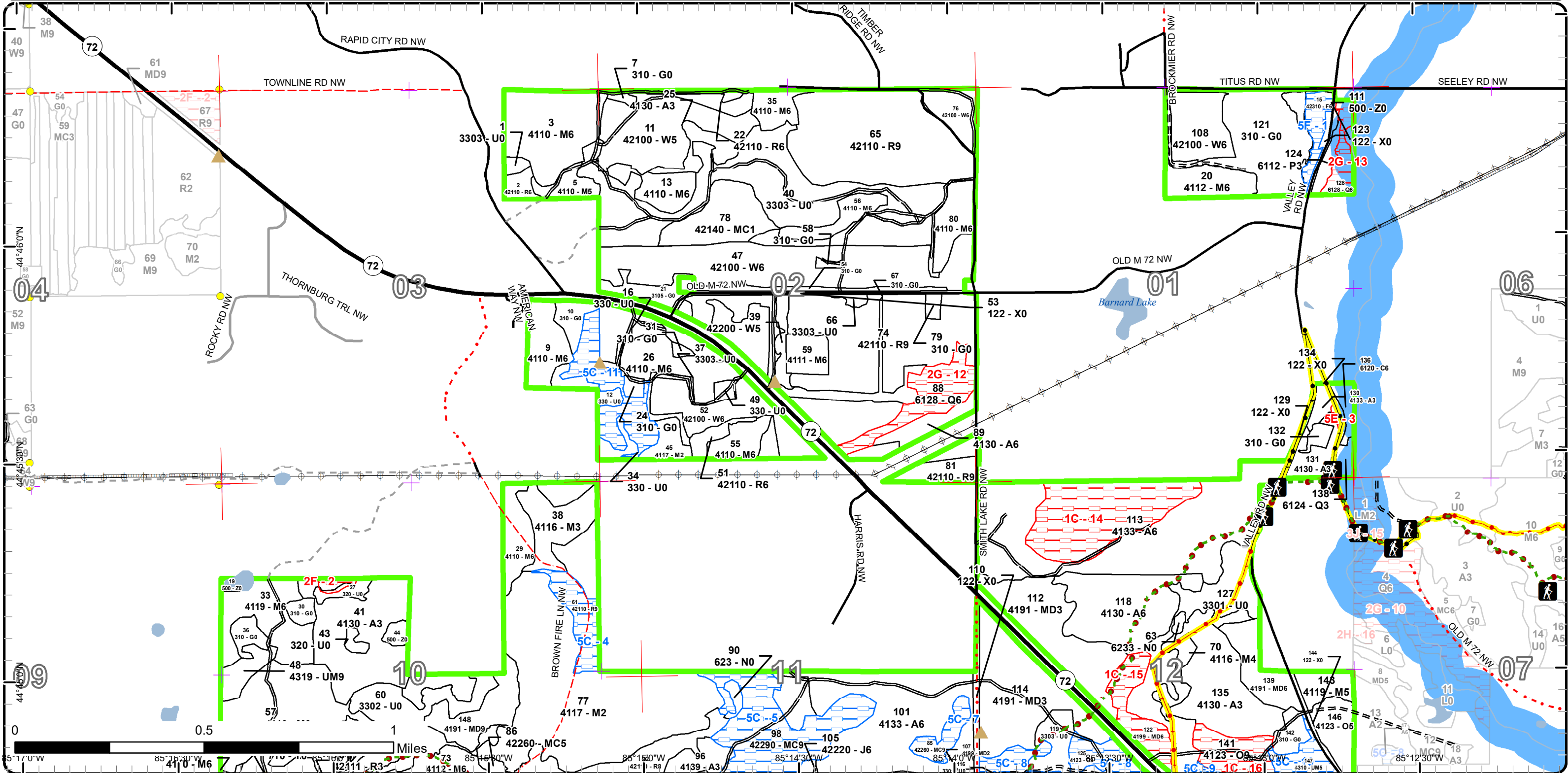


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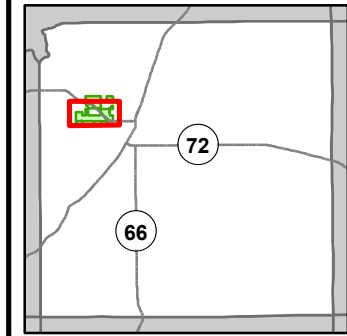


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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

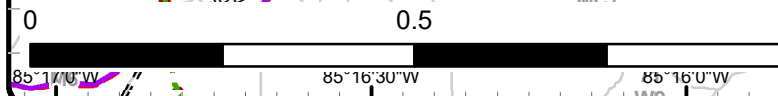
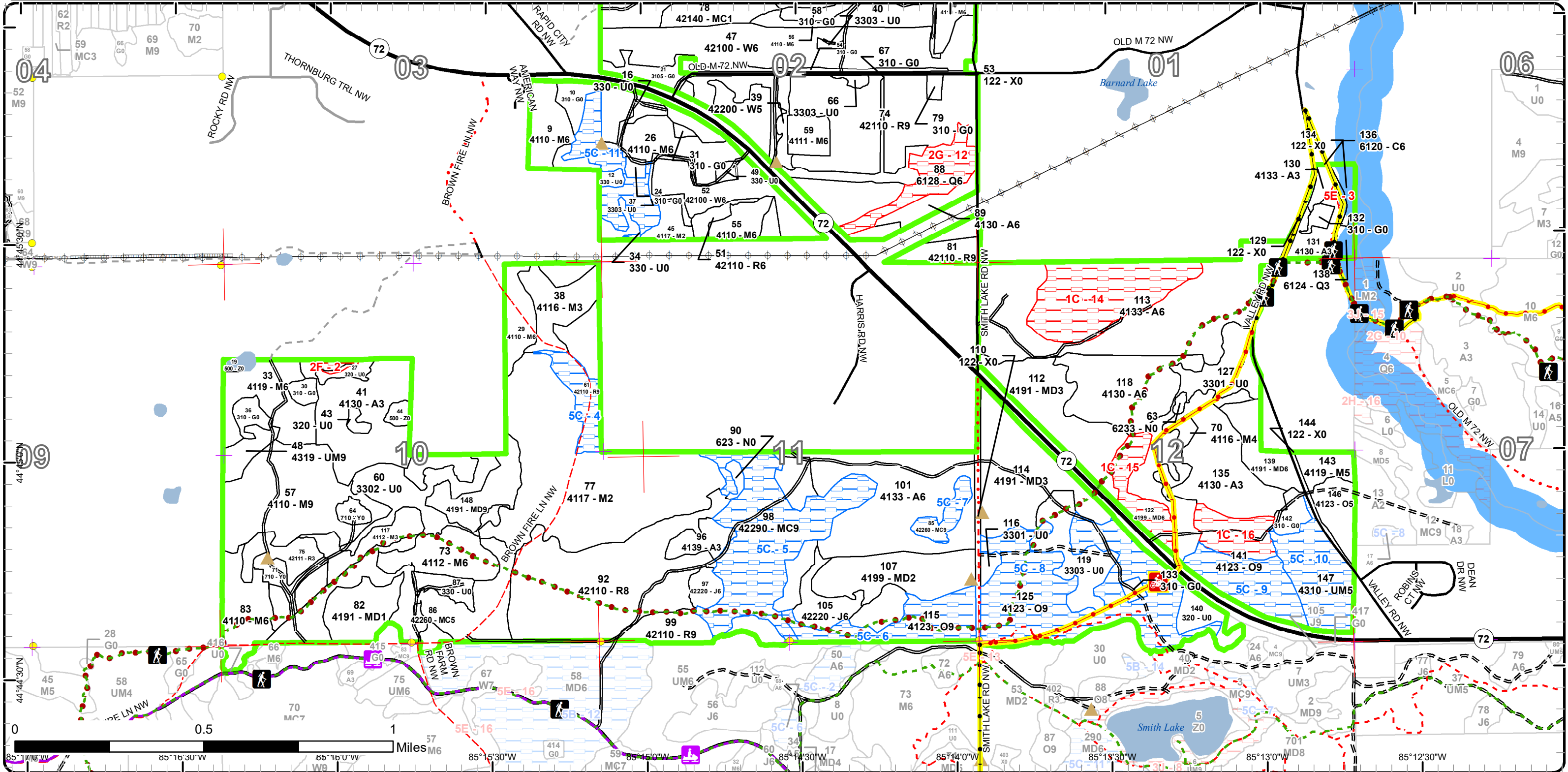


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Report 1 – Total Acres by Cover Type and Age Class



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	3	0	150	11	178	0	0	0	0	0	0	0	0	0	0	0	0	342
Cedar	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Herbaceous Openland	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94
Jack Pine	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	15
Low-Density Trees	192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	192
Lowland Aspen/Balsam Poplar	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Conifers	0	0	0	3	0	0	0	0	0	7	0	18	0	0	0	0	0	0	28
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	17	0	102	0	0	28	22	0	0	0	0	0	0	0	0	0	0	168
Natural Mixed Pines	0	0	0	0	0	0	41	0	64	0	7	0	0	0	0	0	0	0	112
Northern Hardwood	0	102	17	12	0	0	23	20	8	201	31	0	0	0	0	0	0	32	446
Oak	0	0	0	0	0	0	0	11	0	37	100	0	0	0	0	0	0	0	148
Planted Mixed Pines	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Red Pine	0	16	0	0	0	0	0	101	60	91	0	0	0	0	0	0	0	0	268
Sand, Soil	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	27	7	0	0	0	0	0	0	0	34
Upland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Upland Spruce/Fir	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	7
Urban	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	0	0	0	187	0	0	0	0	0	0	0	0	0	5	191
Total	336	161	17	267	11	178	107	348	132	363	149	18	0	0	0	0	0	37	2122



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 167
Total Compartment Acres: 2,120

Commercial Harvest - 228
Harvests with Site Condition - 69
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	79	0	0	0	0	0	0	0	0	79
Jack Pine	4	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	14	0	0	0	0	0	0	0	0	14
Northern Hardwood	0	0	0	0	0	25	0	0	0	25
Oak	14	0	0	0	0	0	0	0	0	14
Red Pine	80	0	0	0	0	73	0	0	0	152
White Pine	0	0	0	0	0	10	0	0	0	10
Total	190	0	0	0	0	107	0	0	0	297

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	297	0	0	0	0	63	0	0	186	546
Next Step	0	159	159	0	181	159	333	0	0	992
Total	297	159	159	0	181	222	333	0	186	1537



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

10	61167010-NF	5.4	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Mowing	31022 - Warm Season Grass		No
<p><u>Prescription</u> Nice cold air drainage with good component of little bluestem. Inter-seed native forbs and additional grass species for native pollinators. <u>Specs:</u> Stand is along M-72.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> Maintain as needed with mowing, seeding of native grasses and forbs, burning, or removal of woody encroachment, and invasives. <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
26	61167026-Cut	16.8	4110 - Sugar Maple Association	Poletimber Well	86	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> cut all beech and ironwood reduce the remaining trees to a target of 70-80 sqft of ba by removing the poorest quality trees <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 3 /9 /2020</p>											
40	61167040-NF	83.5	3303 - Mixed Low Density Trees	Nonstocked			NonForestMgt	Other - Specify	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Inter-seed native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment. <u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> Maintain as needed with mowing, seeding of native grasses and forbs, burning, or removal of woody encroachment. <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
51 61167051-Cut	6.2	42110 - Planted Red Pine	Poletimber Well	65	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand to a residual BA of 110-120 sqft/acre</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
55 61167055-Cut	7.7	4110 - Sugar Maple Association	Poletimber Well	71	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> cut all beech and ironwood reduce the remaining trees to a target of 70-80 sqft of ba 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</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
60 61167060-NF	25.3	3302 - Low Density Conifer Trees	Nonstocked			NonForestMgt	Other - Specify	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Inter-seed native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Maintain as needed with mowing, seeding of native grasses and forbs, planting native shrubs, burning, or removal of woody encroachment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
65 61167065-Cut	66.3	42110 - Planted Red Pine	Sawtimber Well	62	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand to a residual BA of 110-120 sqft/acre</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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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
75 61167075-Spray	16.3	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	8	Immature	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Release red pine and white oak. <u>Specs:</u> <u>Next Step</u> Monitoring, Herbicide Use <u>Treatments:</u> <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> Due to Frost on site moved to 2021, Shifted to Skidder to get done quicker but too late already <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2019</p>										
76 61167076-Cut	9.8	42100 - Planted White Pine	Poletimber Well	62	111-140	Harvest	Crown Thinning	4210 - Planted White Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand to a residual BA of 110-120 sqft/acre <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
77 61167077-Spray	46.5	4117 - Mixed N. Hardwood - Pine	Sapling Medium	6	1-50	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> release spray red pine, mostly cherry and red maple to set back. some scattered pine left when stand was harvested. <u>Specs:</u> <u>Next Step</u> Monitoring, Herbicide Use <u>Treatments:</u> <u>Acceptable</u> planted red pine with some mixed deciduous <u>Regen:</u> <u>Other</u> Due to Frost on site moved to 2021, Shifted to Skidder to get done quicker but too late already <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /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
87	61167087-NF	9.2	330 - Low-Density Trees	Nonstocked			NonForestMgt	Other - Specify	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Inter-seed native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Opening</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, planting native shrubs, burning, or removal of woody encroachment.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
92	61167092-Cut	79.7	42110 - Planted Red Pine	Sawtimber Medium	84	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> cut all trees two inches and greater in diameter, low stump and chipping to facilitate future planting operations. Protect the recreation trail during the harvest. Minimal area retention along the edge or an island along the trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);</p> <p><u>Treatments:</u> Planting, Replant; Monitoring, Artificial Regen(3yr); Pesticide, Skidder - Release</p> <p><u>Acceptable Regen:</u> fully stocked stand of free to grow red pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
97	61167097-Cut	4.0	42220 - Natural Jack Pine	Poletimber Well	56		Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> cut all trees two inches and greater, possibly mark or designate to leave some oaks or pines. I No retention to maximize regeneration with small stand size and deer browse issues.</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 mixed deciduous</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
101	61167101-Cut	37.2	4133 - Aspen, Mixed Pine	Poletimber Well	42	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> cut all trees two inches in diameter and greater, possibly mark or designate to leave some oaks or pines. Minimal area retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, mixed deciduous and conifer</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
113	61167113-Cut	41.4	4133 - Aspen, Mixed Pine	Poletimber Well	43	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> cut all trees two inches and greater, leave some island area retention along smith lake road and the private to the north. Mark or designate to</p> <p><u>Specs:</u> leave some oaks or pines.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, mixed deciduous, and mixed conifer</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Other Dept./Div. Processes</p> <p><u>Proposed Start Date:</u> 3/9/2020</p>											
116	61167116-NF	2.2	3301 - Low Density Deciduous Trees	Nonstocked			NonForestMgt	Other - Specify	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Inter-seed native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.</p> <p><u>Next Step</u> Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Maintain as needed with mowing, seeding of native grasses and forbs, planting native shrubs, burning, or removal of woody encroachment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1/2021</p>											
119	61167119-NF	19.4	3303 - Mixed Low Density Trees	Nonstocked			NonForestMgt	Other - Specify	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Inter-seed native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.</p> <p><u>Next Step</u> Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Maintain as needed with mowing, seeding of native grasses and forbs, planting native shrubs, burning, or removal of woody encroachment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1/2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
122 61167122-Cut	13.8	4199 - Other Mixed Upland Deciduous	Poletimber Well	56	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> cut all trees two inches and greater, possibly mark or designate to leave some oaks or pines. I No retention to maximize regeneration with</p> <p><u>Specs:</u> small stand size and deer browse issues.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, mixed deciduous and conifer</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Other Dept./Div. Processes</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
127 61167127-NF	32.9	3301 - Low Density Deciduous Trees	Nonstocked			NonForestMgt	Other - Specify	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Inter-seed native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.</p> <p><u>Next Step</u> Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Maintain as needed with mowing, seeding of native grasses and forbs, planting native shrubs, burning, or removal of woody encroachment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
140 61167140-NF	8.2	320 - Upland Shrub	Nonstocked			NonForestMgt	Other - Specify	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Inter-seed native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.</p> <p><u>Next Step</u> Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Maintain as needed with mowing, seeding of native grasses and forbs, planting native shrubs, burning, or removal of woody encroachment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
141 61167141-Cut	14.0	4123 - Red Oak	Sawtimber Well	87	51-80	Harvest	Clearcut	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> cut all trees two inches and greater, possibly mark or designate to leave some oaks or pines. No retention to maximize regeneration with</p> <p><u>Specs:</u> small stand size and deer browse issues.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> oak, aspen, red maple and mixed pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Other Dept./Div. Processes</p> <p><u>Proposed Start Date:</u> 3/9/2020</p>										

Total Treatment Acreage Proposed: 545.8

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 167

Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5C	5F	1C	2F	2G	5E	
342	300	0	42	Aspen			41				1
4	4	0	0	Cedar							
94	94	0	0	Herbaceous Openland		0					
15	15	0	0	Jack Pine							
191	191	0	0	Low-Density Trees							
3	3	0	0	Lowland Aspen/Balsam Poplar							
27	3	0	25	Lowland Conifers						25	
3	3	0	0	Marsh							
168	154	0	14	Mixed Upland Deciduous			14				
112	41	70	0	Natural Mixed Pines	70						
445	423	20	1	Northern Hardwood	20			1			
148	11	123	14	Oak	123		14				
20	20	0	0	Planted Mixed Pines							
268	257	12	0	Red Pine	12						
9	9	0	0	Sand, Soil							
34	7	27	0	Upland Mixed Forest	27						
13	13	0	0	Upland Shrub				0			
7	0	7	0	Upland Spruce/Fir		7					
19	19	0	0	Urban							
5	5	0	0	Water							
192	192	0	0	White Pine		0					
2,120	1,764	260	96	Total Forested Acres	253	7	69	2	25	1	
	83%	12%	5%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5F: Evaluated for Forest Health Considerations	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 167

Year of Entry: 2022

2	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	64	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 167

Year of Entry: 2022

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	77	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 167

Year of Entry: 2022

13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	1C: Other dept or div proc/practices	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	1C: Other dept or div proc/practices	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	1C: Other dept or div proc/practices	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
1	3303 - Mixed Low Density Trees	Nonstocked	1.7		Unspecified	No	upland brush, sumac, cherry																														
2	42110 - Planted Red Pine	Poletimber Well	3.6	64	111-140	N/A	stand thinned with hillama mix. turned out good.. still pretty thick																														
<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 Pine</td> <td>100</td> <td>Pole/Log</td> <td>8</td> <td>64</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100	Pole/Log	8	64	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	Low	< 5 feet	Sapling	Ironwood	Low	< 5 feet	Sapling												
Canopy Species	% Cover	Size Class	DBH	Age																																	
Red Pine	100	Pole/Log	8	64																																	
Sub-Canopy Species	Density	Avg. Height	Size																																		
Beech	Low	< 5 feet	Sapling																																		
Ironwood	Low	< 5 feet	Sapling																																		
3	4110 - Sugar Maple Association	Poletimber Well	32.3	86	51-80	N/A	stand thinned with hillama mix, turned out good, some areas of blow down.																														
<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>Sugar Maple</td> <td>92</td> <td>Pole/Log</td> <td>9</td> <td>86</td> </tr> <tr> <td>Basswood</td> <td>3</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Beech</td> <td>5</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	92	Pole/Log	9	86	Basswood	3	Pole/Log	8		Beech	5	Pole/Log	8		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>High</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>High</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	High	< 5 feet	Sapling	Ironwood	High	< 5 feet	Sapling		
Canopy Species	% Cover	Size Class	DBH	Age																																	
Sugar Maple	92	Pole/Log	9	86																																	
Basswood	3	Pole/Log	8																																		
Beech	5	Pole/Log	8																																		
Sub-Canopy Species	Density	Avg. Height	Size																																		
Beech	High	< 5 feet	Sapling																																		
Ironwood	High	< 5 feet	Sapling																																		
5	4110 - Sugar Maple Association	Poletimber Medium	6.1	86	1-50	N/A																															
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10	310 - Herbaceous Openland	Nonstocked	5.4			No																															
11	42100 - Planted White Pine	Poletimber Medium	34.3	62	51-80	N/A	took 2 left two rows. expect to push heavy to mixed hardwood and mixed white pine, leave these rows for a bit untill understory gets fully stocked.																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
13	4110 - Sugar Maple Association	Poletimber Well	10.3	86	81-110	N/A																																										
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15	42310 - Planted Spruce	Poletimber Well	7.1	60	81-110	N/A																																										
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16	330 - Low-Density Trees	Nonstocked	3.2			No	starting to fill in with white pine																																									
19	500 - Water	Nonstocked	1.6			No																																										
20	4112 - Maple, Beech, Cherry Association	Poletimber Well	12.3	92	51-80	N/A																																										
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21	3105 - Mixed Upland Herbaceous	Nonstocked	6.7			No																																										
22	42110 - Planted Red Pine	Poletimber Well	4.5	62	81-110	N/A	stand thinned with hillama mix, turned out good... hope to get some natural pine regen here but may push to mixed hardwood or white pine judging by adjacent white pine stand.																																									
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24	310 - Herbaceous Openland	Nonstocked	1.7		Unspecified	No	old oil site with minimal knapweed and filling in with some white pine																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
25	4130 - Aspen	Sapling Well	6.8	29	Immature	N/A	Young aspen stand with a couple pockets of pole hardwood		
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		65	Sapling/Pole	3	29				
Sugar Maple		20	Pole/Log	8					
Basswood		10	Log/Pole	10					
Beech		5	Pole	8					
26	4110 - Sugar Maple Association	Poletimber Well	37.2	86	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		80	Pole/Log	8	86	Ironwood	Low	5 - 10 feet	Sapling
Basswood		10	Pole/Log	8					
Beech		3	Pole/Log	8					
Bigtooth Aspen		5	Pole	8					
White Pine		2	Pole/Log	8					
27	320 - Upland Shrub	Nonstocked	3.3				No		
29	4110 - Sugar Maple Association	Poletimber Well	24.5	86	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		85	Pole/Log	8	86	Beech	High	Variable	Sapling
Basswood		5	Log/Pole	10		White Pine	Low	Variable	Sapling
Beech		5	Pole/Log	8		Ironwood	High	5 - 10 feet	Sapling
White Pine		5	Pole/Log	8					
30	310 - Herbaceous Openland	Nonstocked	2.9				No		
31	310 - Herbaceous Openland	Nonstocked	1.0		Unspecified		No		
33	4119 - Mixed Northern Hardwoods	Poletimber Well	24.3	86	51-80	N/A	thinned with 167 skyline.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		40	Pole/Log	8	86	Ironwood	Low	< 5 feet	Sapling
Red Maple		25	Pole	9	86	Beech	Medium	< 5 feet	Sapling
Red Oak		10	Log/Pole	11					
Paper Birch		10	Pole	8					
White Pine		10	Log/Pole	12					
Black Cherry		5	Pole	8					
34	330 - Low-Density Trees	Nonstocked	3.1		Unspecified		No	pocket of aspen included in the stand	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
35	4110 - Sugar Maple Association	Poletimber Well	9.2	86	51-80	N/A	stand thinned with hillama mix, took beech and aspen																																										
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36	310 - Herbaceous Openland	Nonstocked	4.4			No	steep area																																										
37	3303 - Mixed Low Density Trees	Nonstocked	3.2			No	long skinny GO filling in with trees																																										
38	4116 - Mixed N. Hardwood - Aspen	Sapling Well	16.6	18	Immature	N/A																																											
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39	42200 - Natural White Pine	Poletimber Medium	4.5	66		N/A																																											
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40	3303 - Mixed Low Density Trees	Nonstocked	83.5			Managed Opening	Relatively open stand filling in with Cherry, maple and aspen along the hardwood edges. With white pine and jack pine filling in pockets in the middle.																																										
41	4130 - Aspen	Sapling Well	37.9	28	Immature	N/A																																											
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43	320 - Upland Shrub	Nonstocked	1.7			No	scattered cherry																																										
44	500 - Water	Nonstocked	2.3			No																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
45	4117 - Mixed N. Hardwood - Pine	Sapling Medium	5.8	56	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
White Pine		25	Pole/Sap/Log	8	56				
Black Cherry		25	Sapling/Pole	2					
Red Maple		15	Sapling	3					
Sugar Maple		20	Sapling	3	29				
Bigtooth Aspen		15	Sapling/Pole	3	23				
47	42100 - Planted White Pine	Poletimber Well	64.0	62	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		100	Pole	8	62	Sugar Maple	Medium	< 5 feet	Sapling
						Beech	Medium	< 5 feet	Sapling
						White Pine	Medium	< 5 feet	Sapling
48	4319 - Mixed Upland Forest	Sawtimber Well	6.8	92	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		30	Pole	6		Ironwood	Medium	5 - 10 feet	Sapling
Basswood		5	Pole	6					
Bigtooth Aspen		10	Pole/Log	8					
White Pine		45	Log/Pole	12	92				
Paper Birch		10	Pole/Log	8					
49	330 - Low-Density Trees	Nonstocked	1.8		Unspecified	No	Old well pad starting to fill in with white pine and minimal red pine.		
51	42110 - Planted Red Pine	Poletimber Well	6.2	65	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Pole	9	65	Beech	Low	5 - 10 feet	Sapling
52	42100 - Planted White Pine	Poletimber Well	60.1	62	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		90	Pole/Log	8	62	Sugar Maple	Low	< 5 feet	Sapling
Bigtooth Aspen		5	Pole	8		Beech	Low	< 5 feet	Sapling
Black Cherry		5	Pole	6		White Pine	Medium	< 5 feet	Sapling
						Ironwood	Medium	10 - 20 feet	Sapling
						Red Maple	Medium	5 - 10 feet	Sapling
53	122 - Road/Parking Lot	Nonstocked	5.0			No			
54	310 - Herbaceous Openland	Nonstocked	5.0			No	wide grass shoulder		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
55	4110 - Sugar Maple Association	Poletimber Well	7.7	71	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		90	Pole/Log	8	71	Ironwood	Medium	< 5 feet	Sapling
Basswood		5	Pole	8					
Beech		5	Pole	8					
56	4110 - Sugar Maple Association	Poletimber Well	8.3	86	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		95	Pole	9	86	Beech	Low	< 5 feet	Sapling
Basswood		3	Log/Pole	10		Quaking Aspen	Low	< 5 feet	Sapling
White Pine		2	Pole/Log	8		Ironwood	Medium	< 5 feet	Sapling
57	4110 - Sugar Maple Association	Sawtimber Well	49.4	86	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		80	Log/Pole	10	86	Beech	Low	5 - 10 feet	Sapling
Basswood		10	Log/Pole	11		Ironwood	High	5 - 10 feet	Sapling
White Pine		5	Pole	9					
Red Oak		5	Log/Pole	14					
58	310 - Herbaceous Openland	Nonstocked	0.9			No	some trash to clean up		
59	4111 - S.Maple, Hard Mast Association	Poletimber Well	7.4	86	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		70	Pole/Log	8	86	Beech	High	5 - 10 feet	Sapling
Beech		10	Pole/Log	8		Ironwood	High	5 - 10 feet	Sapling
White Pine		10	Pole	8					
Bigtooth Aspen		5	Pole	8					
Red Maple		5	Pole/Log	8					
60	3302 - Low Density Conifer Trees	Nonstocked	25.3			No	WLD might be interested in creating a DRIP funded planting in the north portion of this stand, especially if the State confers the Island Lake Road 160ac to Kalkaska Twp. WLD has a traditional DRIP field in the 160ac desired by the Twp. Could also plant fruiting shrubs/trees.		
61	42110 - Planted Red Pine	Sawtimber Well	11.9	84	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/Pole	13	84	Beech	Low	5 - 10 feet	Sapling
63	6233 - Wet Meadow	Nonstocked	0.9			No			
64	710 - Sand, Soil	Nonstocked	3.0		Unspecified				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
65	42110 - Planted Red Pine	Sawtimber Well	66.3	62	171-200	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/Pole	10	62	Beech	Medium	Variable	Sapling
						White Pine	Low	< 5 feet	Sapling
66	3303 - Mixed Low Density Trees	Nonstocked	1.3				No		
67	310 - Herbaceous Openland	Nonstocked	17.8				No		
70	4116 - Mixed N. Hardwood - Aspen	Poletimber Poor	10.1	55	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry		50	Pole	6	55	Black Cherry	Low	5 - 10 feet	Sapling
Quaking Aspen		35	Pole/Sapling	6		Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
White Pine		5	Pole	6					
Red Maple		10	Pole	6					
71	710 - Sand, Soil	Nonstocked	5.7		Unspecified		well pad		
73	4112 - Maple, Beech, Cherry Association	Poletimber Well	18.4	90	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		35	Pole/Sap/Log	8	90	Black Cherry	Medium	5 - 10 feet	Sapling
Red Maple		25	Pole/Sap/Log	8					
Beech		15	Sapling	2					
Ironwood		15	Sapling/Pole	2					
Black Cherry		10	Sapling/Pole	2					
74	42110 - Planted Red Pine	Sawtimber Well	60.2	72	111-140	N/A	chapter 7 done to allow salvage of red pine that blew over in this stand from the August 2nd 2015 storm. if left will likely build up bark beetle population. damage isn't terrible. doing a small negotiated scale sale with logger that is doing work near by. will remove only storm damaged trees. kjs		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/Pole	12	72	Beech	Medium	< 5 feet	Sapling
						White Pine	Low	5 - 10 feet	Sapling
75	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	16.3	8	Immature	N/A	Stands looks good RX mechanical release leave oak		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		70	Sapling	2	8				
Black Cherry		15	Sapling	3					
White Pine		5	Pole/Sapling	6					
Red Maple		10	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
76	42100 - Planted White Pine	Poletimber Well	9.8	62	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		100	Pole/Log	9	62	Sugar Maple	Low	5 - 10 feet	Sapling
						White Pine	Medium	< 5 feet	Sapling
						Beech	Medium	Variable	Sapling
77	4117 - Mixed N. Hardwood - Pine	Sapling Medium	102.0	6	1-50	N/A	trenched and planted 2014... TMS said to release spray so will release spray site.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		25	Sapling	1	6				
Red Maple		45	Sapling	1	6				
Black Cherry		25	Sapling	1					
Beech		5	Sapling	1					
78	42140 - Planted Mixed Pine	Sapling Poor	20.4	6	Immature	N/A	plant roughly 35-45 acres on the west end especially around the hill climb rdr site. some may have frost issues but most is open enough to easily trench and plant red pine. this is to help offset the eventual loss of red pine in this and other compartments. will create some thermal winter cover for deer and hopefully help to control to many roads. area around hill climb planted with mixed white pine, spruce and red pine spring of 2015 & 2016 with volunteer group...		
Canopy Species		% Cover	Size Class	DBH	Age				
White Pine		40	Sapling/Pole	4	6				
Red Pine		25	Sapling	1	6				
Jack Pine		15	Sapling	1	6				
White Spruce		20	Sapling	1					
79	310 - Herbaceous Openland	Nonstocked	1.7			No			
80	4110 - Sugar Maple Association	Poletimber Well	11.0	86	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		96	Pole/Log	8	86	Beech	Medium	5 - 10 feet	Sapling
Beech		4	Pole/Log	9	86	Ironwood	Medium	10 - 20 feet	Sapling
81	42110 - Planted Red Pine	Sawtimber Well	10.2	61	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		96	Log/Pole	10	61	Red Maple	Medium	< 5 feet	Sapling
White Pine		2	Log/Pole	10		Beech	Medium	5 - 10 feet	Sapling
Red Oak		2	Log/Pole	10		White Pine	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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82 4191 - Mixed Upland Deciduous with Conifer Sapling Poor 16.6 6 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	25	Log	10	84
Red Maple	30	Sapling	2	6
Black Cherry	15	Sapling	2	6
White Pine	10	Pole/Log/Sap	8	
Jack Pine	5	Sapling	1	
Beech	10	Sapling	2	
Red Oak	5	Sapling	2	

83 4110 - Sugar Maple Association Poletimber Well 19.8 66 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	80	Pole/Log	8	66	Sugar Maple	Low	< 5 feet	Sapling
White Pine	5	Sapling/Pole	7		White Pine	Low	< 5 feet	Sapling
Basswood	5	Pole/Log	8		Ironwood	High	5 - 10 feet	Sapling
Red Maple	5	Pole/Log	8					
Black Cherry	5	Pole/Log	8					

85 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 6.8 97 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	6		White Pine	Low	Variable	Sapling
Bigtooth Aspen	5	Pole	8					
White Pine	35	Log/Pole	12	97				
Red Pine	30	Log/Pole	10					
Red Oak	10	Pole/Log	8					

86 42260 - Natural Pine, Mixed Deciduous Poletimber Medium 41.4 56 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole/Log	8		Red Maple	Low	Variable	Sapling
Red Oak	5	Pole	8		White Pine	Medium	Variable	Sapling
White Pine	35	Pole/Sap/Log	9	56				
Red Pine	5	Pole/Log	8					
Jack Pine	25	Pole	6					

87 330 - Low-Density Trees Nonstocked 9.2 No WLD might be interested in creating a DRIP funded planting in the north portion of this stand, especially if the State confers the Island Lake Road 160ac to Kalkaska Twp. WLD has a traditional DRIP field in the 160ac desired by the Twp. Could also plant fruiting shrubs/trees.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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88	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	17.5	101		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	10	Pole	8	
Balsam Poplar	10	Pole	8	
Black Spruce	10	Pole	8	
Northern White Cedar	20	Pole	8	
Tamarack	15	Pole	8	
White Pine	25	Log/Pole	12	101
Black Ash	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Deciduous Shrubs	Medium	5 - 10 feet	Tall Shrub

89	4130 - Aspen	Poletimber Well	10.9	38	51-80	N/A	North of the power line is Aspen and south is maple/hardwood had to merge stands because of acreage and mapping requirements.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	60	Pole/Sapling	5	38
White Pine	5	Sapling/Pole	3	
Red Maple	20	Pole	6	
Sugar Maple	15	Pole/Sapling	6	

90	623 - Emergent Wetland	Nonstocked	1.8			No	
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92	42110 - Planted Red Pine	Sawtimber Medium	78.7	84	1-50	N/A	seed tree/ shelterwood. maybe final harvest next YOE and try to reclaim some to red pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	5	Log/Pole	10	
White Pine	5	Pole/Log	8	
Red Pine	90	Log/Pole/XLog	14	84

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
White Pine	Medium	Variable	Sapling
Jack Pine	Medium	Variable	Sapling

96	4139 - Aspen, Mixed Deciduous	Sapling Well	31.9	28	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling/Pole	3	28
Red Oak	15	Sapling	2	
Bigtooth Aspen	50	Sapling/Pole	4	28
White Pine	10	Sapling	2	
Red Pine	5	Sapling/Pole	3	

97	42220 - Natural Jack Pine	Poletimber Well	5.0	56		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Pole	7	56
Jack Pine	95	Pole/Log	8	56

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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98	42290 - Natural Mixed Pine	Sawtimber Well	63.6	77	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	8	
Red Oak	10	Log/Pole	12	
Quaking Aspen	5	Pole	8	
White Pine	30	Log/Pole	10	77
Red Pine	30	Log/Pole	12	70
Jack Pine	20	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Red Pine	Low	Variable	Sapling
Jack Pine	Low	Variable	Sapling

99	42110 - Planted Red Pine	Sawtimber Well	10.4	66	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Pole/Sapling	5	66
Red Pine	90	Log/Pole	10	66
Red Oak	5	Pole	6	

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

101	4133 - Aspen, Mixed Pine	Poletimber Well	58.4	42	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	18	Pole/Sapling	6	
Red Oak	10	Pole/Log	8	
Bigtooth Aspen	50	Pole	6	42
White Pine	20	Pole/Sapling	6	
Red Pine	2	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling

105	42220 - Natural Jack Pine	Poletimber Well	10.3	56	51-80	N/A	Horse trail within stand
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Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	10	Pole/Log	8	
Red Maple	10	Pole/Sapling	6	
White Pine	10	Pole	7	
Red Pine	10	Log/Pole	12	
Jack Pine	60	Pole/Log	8	56

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling

107	4199 - Other Mixed Upland Deciduous	Sapling Medium	28.5	29	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Sapling	2	29
Red Oak	30	Sapling/Pole	4	
Quaking Aspen	10	Sapling/Pole	4	
White Pine	10	Pole/Sapling	6	
Black Cherry	20	Sapling	3	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
108	42100 - Planted White Pine	Poletimber Well	19.0	62	111-140	N/A	stand thinned in 2013... due to row variability and narrow width we decided to third row thin it again a second time. turned out good			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		100	Pole/Log	8	62	White Pine		Medium	5 - 10 feet	Sapling
						Beech		Low	5 - 10 feet	Sapling
110	122 - Road/Parking Lot	Nonstocked	5.9			No				
111	500 - Water	Nonstocked	0.8	0		No				
112	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	32.7	23	1-50	N/A				
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		40	Sapling/Pole	3	23					
Red Oak		20	Sapling/Pole	3						
Quaking Aspen		15	Sapling/Pole	3						
White Pine		15	Sapling/Pole	4						
Red Pine		5	Pole/Log	8						
Black Cherry		5	Sapling/Pole	2						
113	4133 - Aspen, Mixed Pine	Poletimber Well	119.2	43	51-80	N/A				
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		25	Pole	6						
Red Oak		5	Pole/Sapling	5						
Bigtooth Aspen		45	Pole	6	43					
White Pine		25	Pole/Sapling	5						
114	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	40.4	23	1-50	N/A				
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		25	Sapling/Pole	3	23					
Red Oak		25	Sapling/Pole/Log	3						
Bigtooth Aspen		30	Sapling/Pole	3	23					
White Pine		18	Sapling/Pole/Log	4	23					
Red Pine		2	Pole/Log	8						
115	4123 - Red Oak	Sawtimber Well	23.4	96	51-80	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple		25	Pole	7		Red Maple	High	5 - 10 feet	Sapling	
Red Oak		60	Log/Pole	12	96	White Pine	Low	< 5 feet	Sapling	
White Pine		10	Pole	8		Witch Hazel	Low	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		5	Pole	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
116	3301 - Low Density Deciduous Trees	Nonstocked	2.2			No																																				
117	4112 - Maple, Beech, Cherry Association	Sapling Well	11.9	26	Immature	N/A																																				
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Sugar Maple	20	Sapling	2	26																																						
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Beech	25	Sapling	2																																							
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Black Cherry	15	Sapling	2																																							
118	4130 - Aspen	Poletimber Well	35.0	29	1-50	N/A																																				
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Bigtooth Aspen	45	Pole/Sapling	5	29																																						
119	3303 - Mixed Low Density Trees	Nonstocked	19.4			No																																				
121	310 - Herbaceous Openland	Nonstocked	36.4	0		No																																				
122	4199 - Other Mixed Upland Deciduous	Poletimber Well	13.8	56	51-80	N/A																																				
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Canopy Species	% Cover	Size Class	DBH	Age																																						
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Red Oak	15	Log/Pole	10																																							
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Black Cherry	5	Pole	6																																							
Red Pine	5	Pole	6																																							
123	122 - Road/Parking Lot	Nonstocked	2.8			No																																				
124	6112 - Lowland Aspen	Sapling Well	3.4	7	Immature	N/A	stand cut winter of 2013-2014. couldn't cut all of the stand as the SE end was very wet. decided to walk away from the couple of acres they couldn't get to :-/ Lumped this Q5/P5 area into stand to the east.																																			
<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>Quaking Aspen</td> <td>60</td> <td>Sapling</td> <td>2</td> <td>7</td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Sapling</td> <td>3</td> <td>21</td> </tr> <tr> <td>Northern White Cedar</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Sapling</td> <td>2</td> <td>7</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	60	Sapling	2	7	Balsam Fir	20	Sapling	3	21	Northern White Cedar	5	Pole	6		Red Maple	15	Sapling	2	7										
Canopy Species	% Cover	Size Class	DBH	Age																																						
Quaking Aspen	60	Sapling	2	7																																						
Balsam Fir	20	Sapling	3	21																																						
Northern White Cedar	5	Pole	6																																							
Red Maple	15	Sapling	2	7																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
125	4123 - Red Oak	Sawtimber Well	77.0	96	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		80	Log/Pole	12	96	Red Maple	
White Pine		5	Pole/Log	8		High	
Red Maple		10	Pole	5		5 - 10 feet	
Bigtooth Aspen		5	Pole	5		Sapling	
						Red Oak	
						Low	
						< 5 feet	
						Sapling	
						White Pine	
						Low	
						< 5 feet	
						Sapling	
						Bigtooth Aspen	
						Medium	
						5 - 10 feet	
						Sapling	
127	3301 - Low Density Deciduous Trees	Nonstocked	32.9			No	old well pad included in stand
128	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	7.1	81		N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Poplar		10	Pole	6		Black Spruce	
Balsam Fir		25	Sapling/Pole	6	56	Low	
Northern White Cedar		25	Sapling/Pole	6	81	Variable	
Tamarack		5	Sapling/Pole	6		Sapling	
White Pine		25	Log/Pole/XLog	12	81	White Pine	
Black Ash		10	Sapling/Pole	6		Low	
						Variable	
						Sapling	
						Tag Alder	
						Medium	
						Variable	
						Tall Shrub	
129	122 - Road/Parking Lot	Nonstocked	1.8			No	
130	4133 - Aspen, Mixed Pine	Sapling Well	3.3	8	Immature	N/A	aspen cut out and pine lightly thinned pine with the jimmers mix sale 61-30-12-01. turned out good... retention is scattered trees as well as hillside (new stand 137) to steep to cut here anyways so leave it for good.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		75	Sapling	2	8		
White Pine		20	Pole/Sap/Log	9			
Red Pine		5	Log/Pole	10			
131	4130 - Aspen	Sapling Well	7.5	23	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		90	Sapling/Pole	3	23		
Balsam Fir		5	Sapling	4			
White Pine		5	Sapling	4			
132	310 - Herbaceous Openland	Nonstocked	2.3		Unspecified	No	abandoned well pad.
133	310 - Herbaceous Openland	Nonstocked	1.9		Unspecified	No	Old oil well pad with several trails running through it. Pretty decent shape.
134	122 - Road/Parking Lot	Nonstocked	1.9			No	old m72



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
135	4130 - Aspen	Sapling Well	30.9	29	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		25	Sapling	3		White Pine	
Bigtooth Aspen		70	Sapling/Pole	4	29	Low	
White Pine		5	Sapling	3		Variable	
						Sapling	
136	6120 - Lowland Cedar	Poletimber Well	3.6	95	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Pole	8		Tag Alder	
Balsam Fir		15	Sapling/Pole	6		Medium	
Black Spruce		10	Pole	6		< 5 feet	
Northern White Cedar		60	Pole	7	95	Tall Shrub	
White Pine		10	Log/XLog	13			
138	6124 - Lowland Spruce-Fir	Sapling Well	2.7	23	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Paper Birch		15	Sapling	2			
Balsam Fir		35	Sapling	2	23		
Black Spruce		15	Sapling	2			
Tamarack		15	Sapling	2			
Quaking Aspen		20	Sapling	2	23		
139	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	13.7	56	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		45	Pole	8	56	White Pine	
Red Oak		10	Pole	8		Low	
Bigtooth Aspen		25	Pole/Log	8		Variable	
Red Pine		20	Pole	9		Sapling	
						5 - 10 feet	
						Tall Shrub	
140	320 - Upland Shrub	Nonstocked	8.2			No	Part of the stand is an old well pad the rest is cherry shrubs
141	4123 - Red Oak	Sawtimber Well	36.9	87	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		95	Log/Pole	12	87	Red Maple	
White Pine		5	Log/Pole	10		High	
						5 - 10 feet	
						Sapling	
						White Pine	
						Low	
						< 5 feet	
						Sapling	
						Jack Pine	
						Low	
						< 5 feet	
						Sapling	
142	310 - Herbaceous Openland	Nonstocked	5.1		Unspecified	No	old oil pad was planted some trees lived



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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143	4119 - Mixed Northern Hardwoods	Poletimber Medium	7.3	51	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	75	Pole	8	51	Red Maple	Medium	Variable	Sapling
Red Oak	20	Pole/Log	12	79	White Pine	Low	Variable	Sapling
White Pine	5	Pole	6	36				

144	122 - Road/Parking Lot	Nonstocked	2.1			No	
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146	4123 - Red Oak	Poletimber Medium	10.8	61	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	7		White Pine	High	Variable	Sapling
Red Oak	65	Log/Pole/Sap	12	61				
Red Pine	25	Log/Pole	10	61				

147	4310 - Pine, Oak Mix	Poletimber Medium	26.9	81	1-50	N/A	sliver of jack and aspen left along east of oil facility.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	35	Pole/Log	8	81	White Pine	Medium	Variable	Sapling
White Pine	25	Pole/Sap/Log	8	61	Bigtooth Aspen	Low	5 - 10 feet	Sapling
Red Pine	25	Log/Pole	10	81				
Red Maple	15	Pole	6					

148	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	22.2	63	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	10	Log	12		Red Maple	Low	5 - 10 feet	Sapling
Bigtooth Aspen	30	Log/Pole	10	63	White Pine	Medium	5 - 10 feet	Sapling
Red Maple	20	Pole/Log	8		Ironwood	Medium	5 - 10 feet	Seeding
White Pine	20	Pole/Log/Sap	8					
Black Cherry	10	Pole	6					
Sugar Maple	10	Pole	8					