



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61154

Entry Year 2021

Acreage: 1,862

County Kalkaska

Management Area: Boardman Plains

Revision Date: 2019-06-11

Stand Examiner: Paul Roell

Legal Description:

T26N R8W Sections 15-20

Identified Planning Goals:

This compartment is part of the Boardman Plains management area (MA). Management will provide timber products; maintain or enhance wildlife habitat; and provide for forest-based recreational uses. Timber management objectives for this 10-year planning period include improving the age-class structure of aspen; increasing regeneration of oak; working toward balancing the red pine age-class structure; continuing emphasis on managing the northern hardwood resource for stand quality, age, and species diversity; 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. Expected trends within this 10-year planning period are: increased recreational pressure, especially on the Muncie Lakes pathway, North Country and other established trails; increased oil and gas development; an increased wildland/urban interface; a need to restore oak/pine barrens communities; invasive plant control; and the conversion of poor oaks sites to mixed pine/oak sites.

Soil and topography:

Sections 15 and 16 are Low and wet. The rest of the compartment is gently rolling and well drained. There are scattered pot holes in Sections 19 and 20 some of which have water year round. The South Branch of the Boardman River and Taylor Creek flow through this compartment. Soils include Rifle peat, Rubicon sand, Kalkaska Loamy sand and Emmet sandy loam.

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

The Village of South Boardman is within this Compartment. The State land for this Compartment is fairly broke up with private property interface. East of the compartment its more contiguous private parcels and to the North, West and South there is bigger blocks of contiguous State ownership.

Unique Natural Features:

There are some historical records of features.

Archeological, Historical, and Cultural Features:

There are some sites present within the Compartment.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

The South Branch of the Boardman River and Taylor Creek flow through Compartment 154. Both of which are protected under the Boardman River Natural Rivers Designation.

Wildlife Habitat Considerations:

On outwash plains such as this, maintain age class diversity including a component of young early successional aspen, oak, and pine mixed forest and open grass/brush habitat. Retaining tree species diversity when thinning pine types in both outwash plain and moraine landscapes will increase by wildlife. In swamp forests, retain mature conifer cover and provide a component of low deciduous cover as much as possible. On moraines, retain mixed tree sizes and species in northern hardwood forests. Maintaining or creating coarse woody debris is especially important in northern hardwood selection cuts and aspen final harvests. Consider allowing northern hardwoods to expand naturally into some pine plantations, grass and brush openings over time to connect blocks of existing hardwoods.

A wide variety of wildlife species are associated with this compartment, as it spans 4 different land-type associations. Conifer swamps harbor species such as snowshoe hare, bobcat, winter wren, white-tailed deer, and massasauga rattlesnake. Mixed oak-aspen-pine woods are important for species such as pine warbler, golden-winged warbler, red crossbill, barred owl, wild turkey, and hognose snake. Northern hardwood forests on moraines are important for black-

throated blue warbler, blue-spotted salamander, northern goshawk, and numerous neo-tropical migrant songbirds.

Compartment 154 is found in the Boardman Plains Management Area (MA) of the Regional State Forest Management Plan. Featured wildlife species for this MA include bear, pileated woodpecker, ruffed grouse, turkey, and deer. Based on the natural disturbance history of the land type associations within the Boardman Plains MA, the MA plan calls for managing the amount of open/semi-open lands at or above the current level to provide habitat for species which use openings.

Mineral Resource and Development Concerns and/or Restrictions

No known active sand/gravel operations exist in the area, but there appears to be good sand & gravel potential within the compartment. The compartment sits on the southern edge of the Niagaran reef trend. There may be limited potential for reefs here, but there has been no exploration within the compartment aside from seismic. Parcels along the US-131 ROW are currently leased and held by production. Oil & gas potential is considered moderate. There is no known metallic mineral potential in this part of the state. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

There is good access throughout the Compartment.

Survey Needs:

None at this time

Recreational Facilities and Opportunities:

The Boardman River offers fishing opportunities and hunting is also popular within this Compartment. The MCCT trail runs on Boardman River road and provides access to other trails north and west of the compartment.

Fire Protection:

This area is within a Zone 6 for DNR wildland fire response.

Additional Compartment Information:

The following reports from the Inventory are attached:

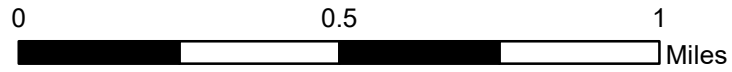
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

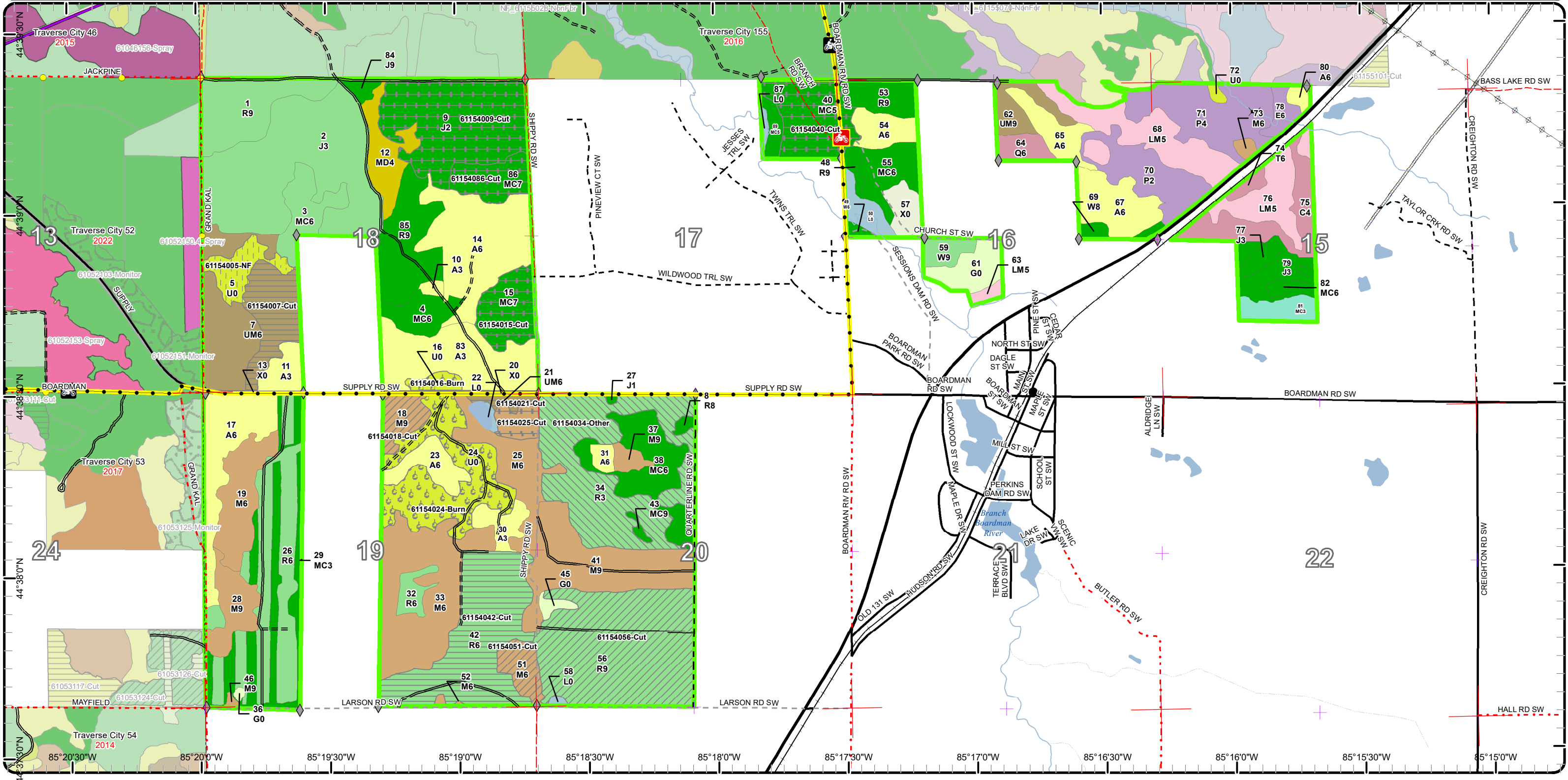
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 154
 T26N-R08W Sec. 15-20
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Boardman Plains
 YOE: 2021
 Acres: 1,862 GIS Calculated
 Examiner: Paul Roell
 Map Revised: 11/13/2019
 Map Phase: Post Review

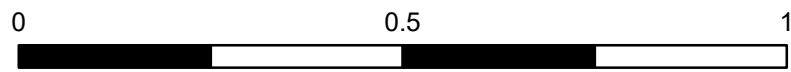


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
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- ORV License
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- Bridges
- City
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Other Harvest - See Comments
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 790 - Other Bare/Sparsely Vegetated

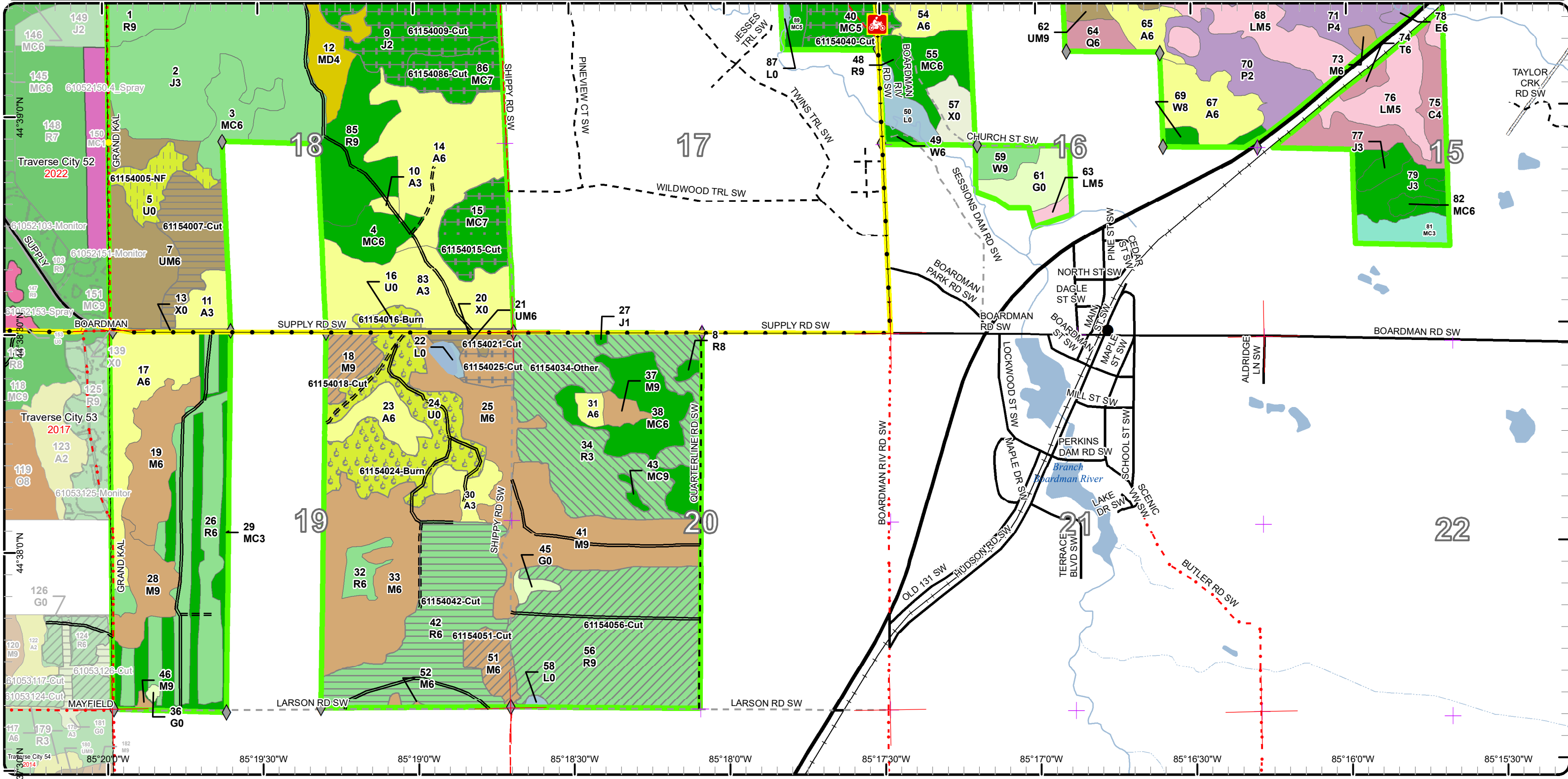


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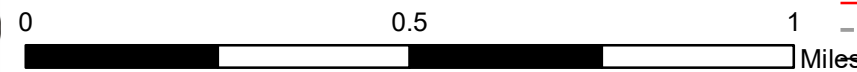
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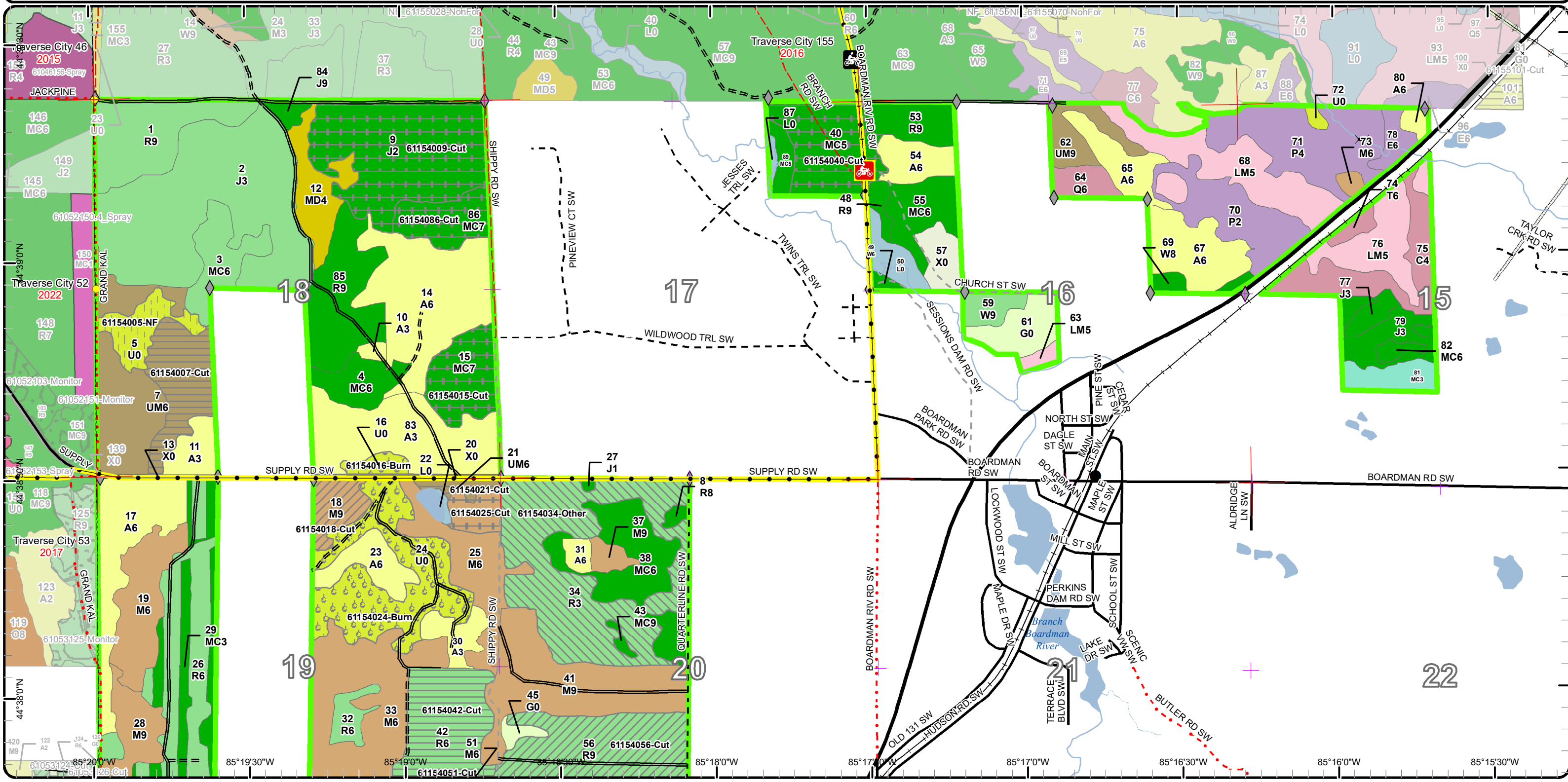
44°39'0"N 44°38'0"N 44°37'0"N
 85°20'0"W 85°19'30"W 85°19'0"W 85°18'30"W 85°18'0"W 85°17'30"W 85°17'0"W 85°16'30"W 85°16'0"W 85°15'30"W

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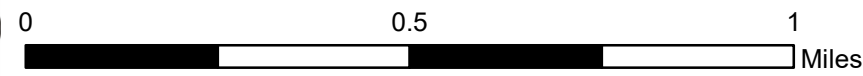


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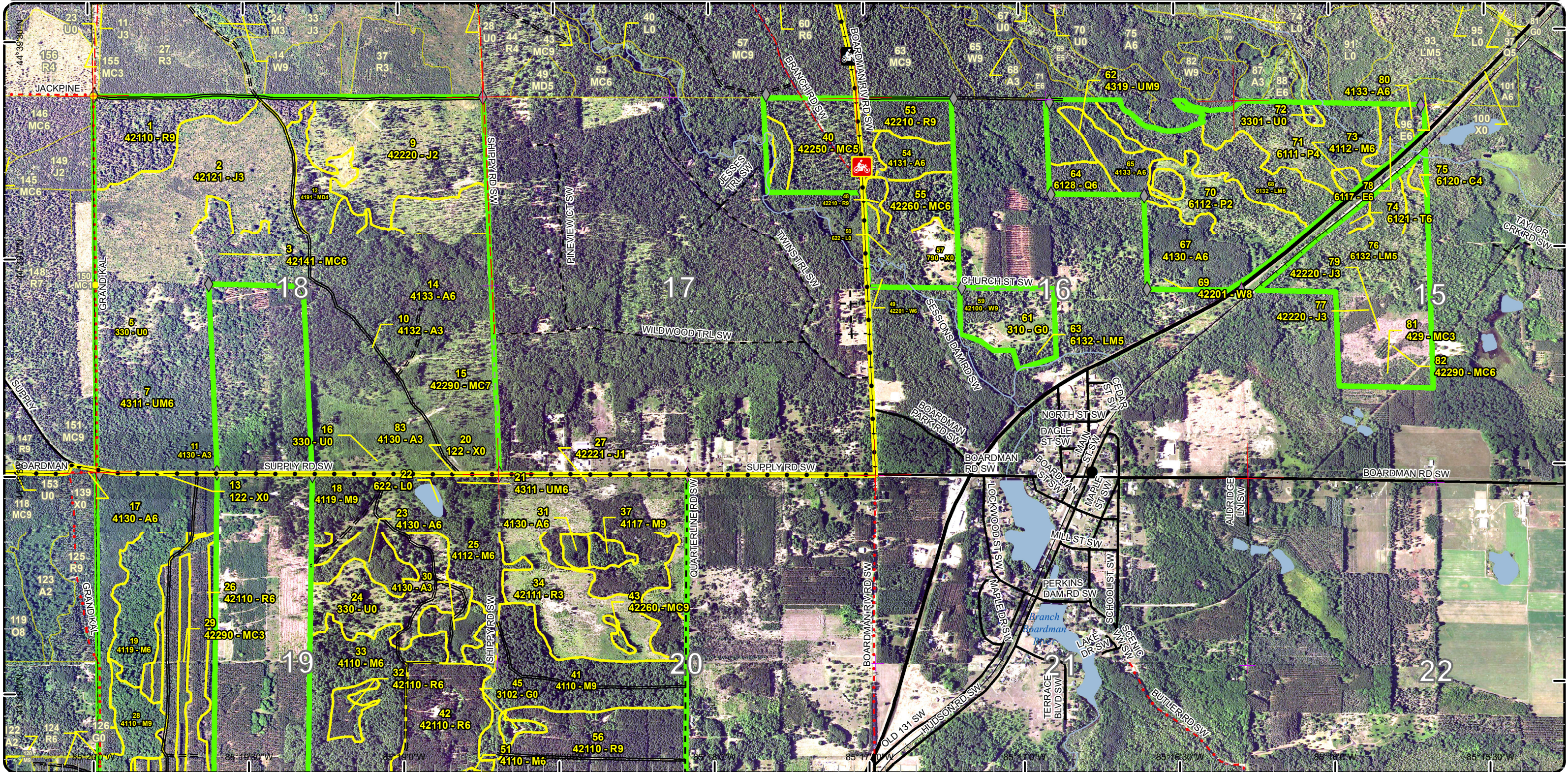


Stand Boundary Map

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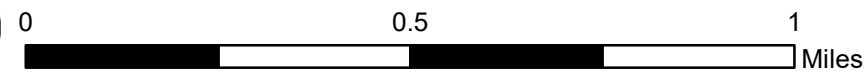


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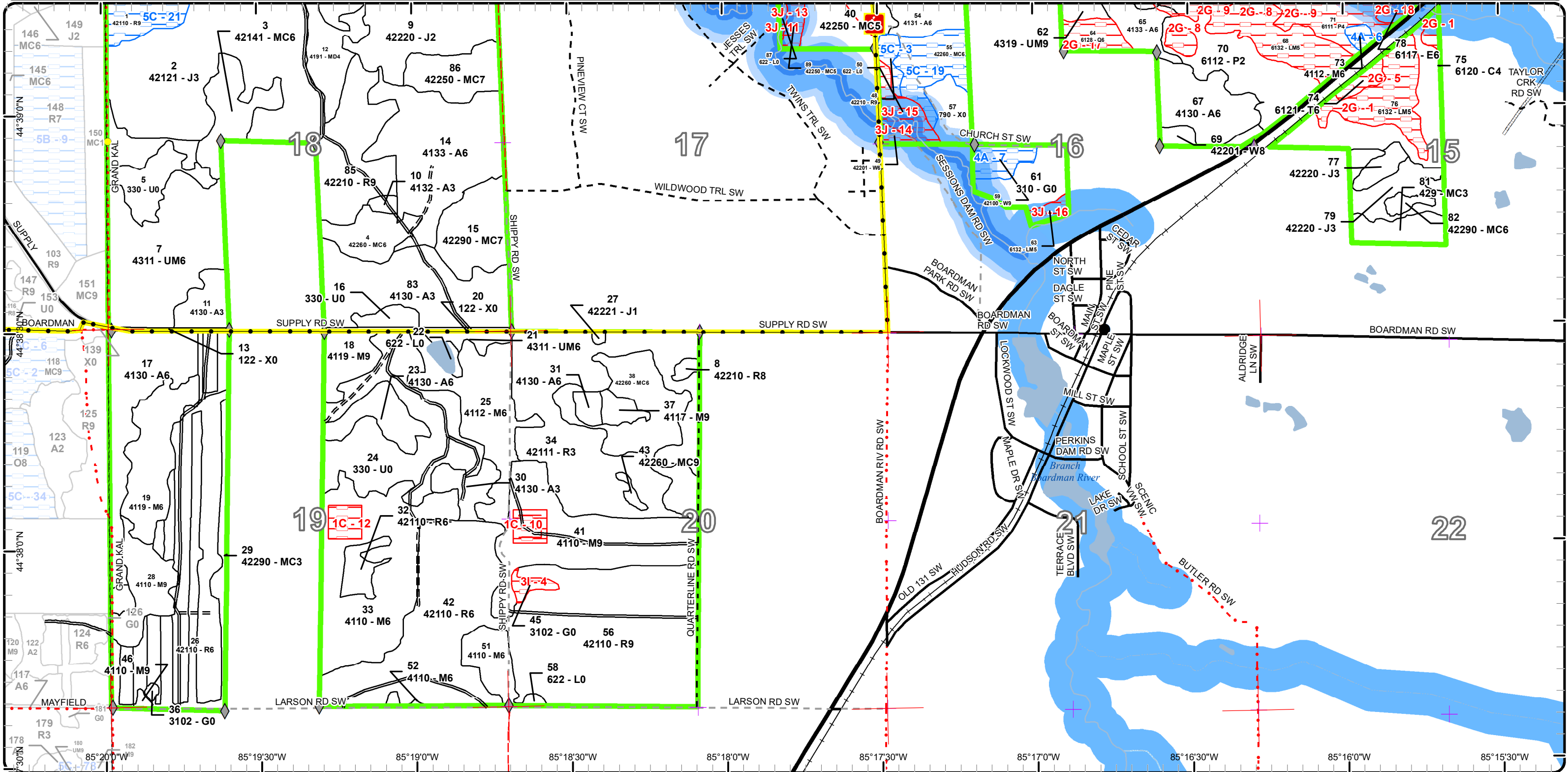


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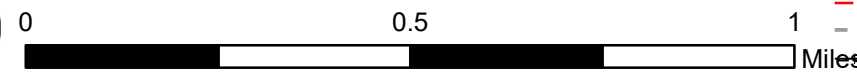


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

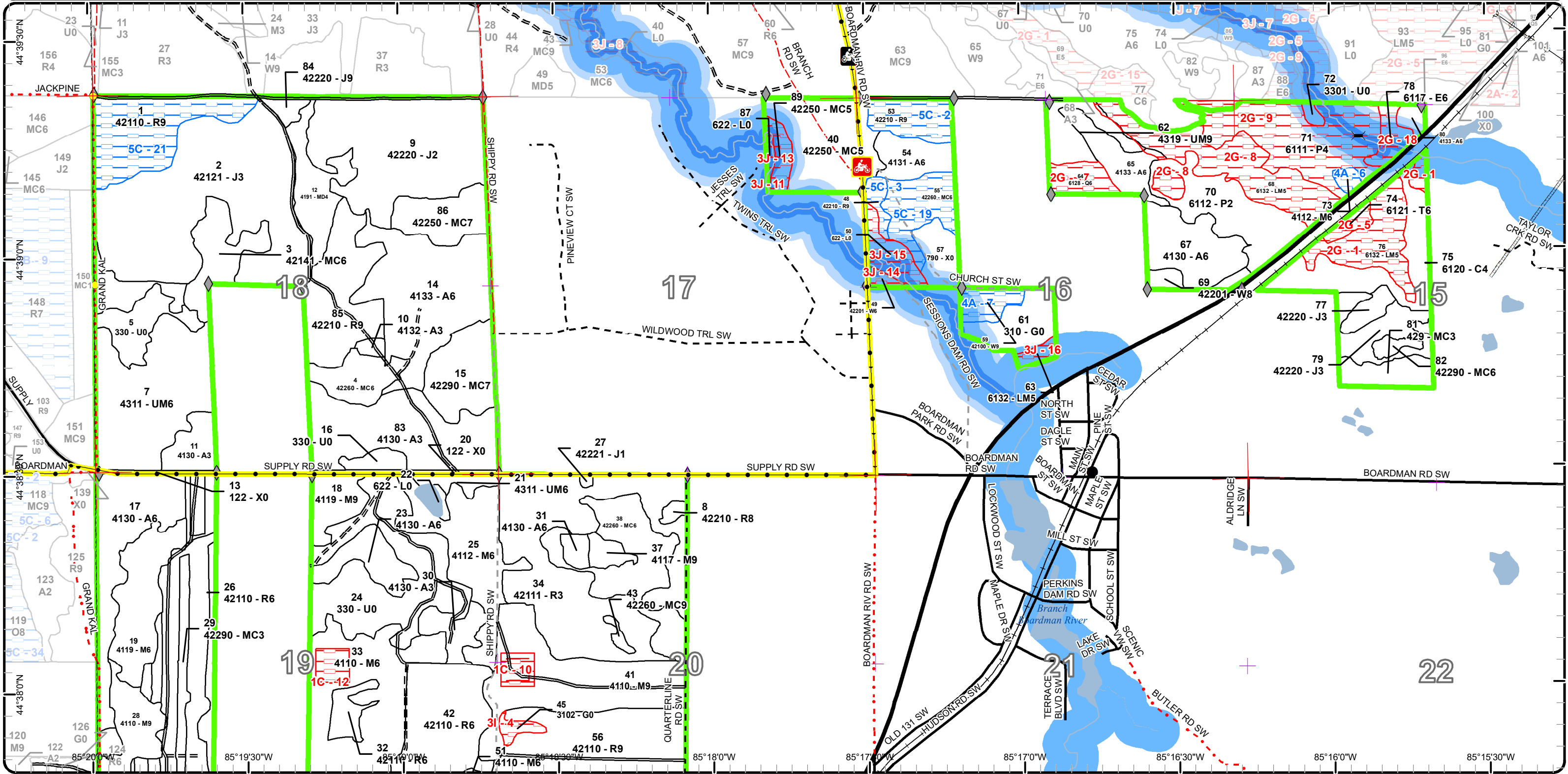


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Report 1 – Total Acres by Cover Type and Age Class



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	52	23	4	41	128	3	0	0	0	0	0	0	0	0	0	0	0	251
Bare/Sparsely Vegetated	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Cedar	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	28
Herbaceous Openland	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Jack Pine	0	94	114	5	0	0	0	4	0	0	0	0	0	0	0	0	0	0	216
Low-Density Trees	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Lowland Aspen/Balsam Poplar	0	31	0	0	0	46	0	0	0	0	0	0	0	0	0	0	0	0	77
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Lowland Deciduous	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Lowland Mixed Forest	0	0	0	0	0	0	0	0	3	65	0	0	0	0	0	0	0	0	68
Lowland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	20
Natural Mixed Pines	0	0	0	80	0	15	4	19	19	46	25	0	0	0	0	0	0	0	207
Northern Hardwood	0	0	0	0	0	0	0	0	0	144	44	59	0	0	0	0	0	5	252
Planted Mixed Pines	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20
Red Pine	0	91	0	0	0	0	66	200	38	55	0	0	0	0	0	4	0	0	454
Tamarack	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Upland Conifers	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Upland Mixed Forest	0	0	0	0	0	0	71	5	14	0	0	0	0	0	0	0	0	0	90
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
White Pine	0	0	0	0	0	0	0	13	2	0	0	0	0	0	0	0	0	0	15
Total	134	268	137	101	41	189	164	241	96	317	110	59	0	0	0	4	0	5	1863



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 154
Total Compartment Acres: 1,862

Commercial Harvest - 419
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
Jack Pine	0	0	0	0	0	77	0	0	0	77
Natural Mixed Pines	0	0	0	0	0	81	0	0	0	81
Northern Hardwood	0	0	0	0	26	9	0	0	0	35
Red Pine	81	0	0	0	112	0	0	0	0	193
Upland Mixed Forest	34	0	0	0	0	0	0	0	0	34
Total	115	0	0	0	138	166	0	0	0	419

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	419	0	0	0	64	0	0	91	15	589
Next Step	0	162	81	0	0	162	287	0	64	755
Total	419	162	81	0	64	162	287	91	79	1344



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

5	61154005-NF	15.2	330 - Low-Density Trees	Nonstocked	0		NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of</p> <p><u>Specs:</u> woody encroachment.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
7	61154007-Cut	29.2	4311 - Pine, Aspen Mix	Poletimber Well	53	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> cut all trees two inches in larger. Mark a few white oak to leave. The majority of the stand will be left so a portion of the parent stand will be</p> <p><u>Specs:</u> retention.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, red maple, white pine and mixed oak.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
9	61154009-Cut	76.5	42220 - Natural Jack Pine	Sapling Medium	7	Immatur re	Harvest	Overstory Removal	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees inches and larger. Mark a few large white oaks for seed. Minimal area retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine, aspen, red maple and</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



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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
15 61154015-Cut	24.6	42290 - Natural Mixed Pine	Sawtimber Poor	92	1-50	Harvest	Overstory Removal	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Overstory removal with standard area retention. Cut all trees 4 inches or greater in DBH. Cut to length operation required to protect advanced regeneration in the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully stocked aspen with any mixed upland species is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
16 61154016-Burn	5.0	330 - Low-Density Trees	Nonstocked			Burn	Opening	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> 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. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting</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 mast bearing shrubs or trees, 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 /2020</p>										
18 61154018-Cut	12.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	91	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin stand down to 80. Cut poor quality trees first then thin around crop trees. Cut all aspen. If there are groups of aspen mark all trees within aspen clone so aspen can regenerate.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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21	61154021-Cut	4.9	4311 - Pine, Aspen Mix	Poletimber Well	61	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Cut all trees two inches and larger. Mark a few large oak or pine for visual. no retention small stand size and regeneration concern.
Specs:

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

Acceptable Aspen, oak, red maple and pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

24	61154024-Burn	58.5	330 - Low-Density Trees	Nonstocked	0	Unspecified	Burn	Opening	3105 - Mixed Upland Herbaceous		No
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Prescription Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.
Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting
Treatments:

Acceptable
Regen:

Other Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover.
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

25	61154025-Cut	9.0	4112 - Maple, Beech, Cherry Association	Poletimber Well	88	51-80	Harvest	Overstory Removal	413 - Aspen	Even-Aged	No
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Prescription Cut all trees two inches and larger. This portion of the hardwood stand has good aspen regeneration. We need to promote quality regeneration where we can.
Specs:

Next Step
Treatments:

Acceptable Aspen and red maple
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 3 /13/2019



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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
34	61154034-Other	91.4	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	8	Immature	Other	Other	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Prescribed as part of Jason Hartman's project. <u>Specs:</u> <u>Next Step</u> Monitoring, Herbicide Use <u>Treatments:</u> <u>Acceptable</u> Fully stocked stand of Red Pine. <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
40	61154040-Cut	37.8	42250 - Pine, Oak	Poletimber Medium	88	51-80	Harvest	Overstory Removal	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees two inches and greater. Mark some big oak and white pine to leave. Leave some area retention at the county road intersection. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Aspen, red maple, oak and mixed red/white pine <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
42	61154042-Cut	80.8	42110 - Planted Red Pine	Poletimber Well	68	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees two inches and larger. Minimal area retention on the edge. require low stumps and chipping tops to facilitate planting operations. <u>Specs:</u> There are a couple pockets of sugar maple regeneration might be worth working around. <u>Next Step</u> Pesticide, Aerial - Site Prep; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); <u>Treatments:</u> Monitoring, Artificial Regen(3yr); Pesticide, Aerial - Release <u>Acceptable</u> A fully stocked stand of red pine. <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
51	61154051-Cut	12.7	4110 - Sugar Maple Association	Poletimber Well	89	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin stand down to 80. Cut poor quality trees first then thin around crop trees. Cut all aspen. Protect any sensitive areas found throughout the stand establishing redline. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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56	61154056-Cut	112.1	42110 - Planted Red Pine	Sawtimber Well	68	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription mark stand to a residual ba of 100-120 remove the poorest quality trees. Make sure to red line out any potential sensitive sites around the
Specs: grass opening stand 45.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

86	61154086-Cut	18.5	42250 - Pine, Oak	Sawtimber Poor	68	1-50	Harvest	Overstory Removal	413 - Aspen	Even-Aged	No
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Prescription Cut all trees two inches and larger. Minimal area retention.
Specs:

Next Step
Treatments:

Acceptable Aspen and red maple. Maybe some mixed pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

Total Treatment 589
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 154

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		4A	5C	1C	2G	3I	3J	
251	251	0	1	Aspen				1			
10	10	0	0	Bare/Sparsely Vegetated							
28	28	0	0	Cedar				0			
20	17	0	3	Herbaceous Openland	0					3	
216	216	0	0	Jack Pine							
80	80	0	0	Low-Density Trees				0			
77	31	0	46	Lowland Aspen/Balsam Poplar	0			46			
9	0	0	9	Lowland Conifers				9			
7	0	0	7	Lowland Deciduous				7			
68	0	0	68	Lowland Mixed Forest				65			3
15	3	0	12	Lowland Shrub		0					12
20	20	0	0	Mixed Upland Deciduous							
206	182	19	6	Natural Mixed Pines		19					6
252	239	2	10	Northern Hardwood	2		10	0	0		
20	20	0	0	Planted Mixed Pines							
454	397	57	0	Red Pine		57					
4	0	0	4	Tamarack				4			
12	12	0	0	Upland Conifers							
90	90	0	0	Upland Mixed Forest				0			
8	8	0	0	Urban							
15	5	8	2	White Pine	8						2
1,862	1,609	86	167	Total Forested Acres	10	75	10	132	3		23
	86%	5%	9%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 154

Year of Entry: 2021

2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	(Inactive)3I: Historical / archeological (add locked comments)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	4A: No Markets Available for these Forest Products	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	4A: No Markets Available for these Forest Products	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 154

Year of Entry: 2021

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 154

Year of Entry: 2021

14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Paul Roell : Examiner

Compartment: 154
Year of Entry: 2021

21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
1	42110 - Planted Red Pine	Sawtimber Well	38.1	88	81-110	N/A	Stand last thinned in 89. Lots of blue berries in understory																																										
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2	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	112.9	10	Immature	N/A	Stand trenched and planted. South eastpart of stand look to be regenerating on its own with more oak and maple coming in. Stand was harvested in 02 'Grand Kal Pine' 007-01-01. Not much competition. Stand was replanted in 2011 FTP 62-792. Average age.																																										
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3	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	19.8	76	81-110	N/A	Large white oak present.																																										
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4	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	14.9	42	1-50	N/A	Stand is a mix of aspen with some poorer quality white pine. Stand has a couple open areas in it also.																																										
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7	4311 - Pine, Aspen Mix	Poletimber Well	71.3	53	51-80	N/A																																											
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8	42210 - Natural Red Pine	Sawtimber Medium	1.9	80	51-80	N/A	Red pine with dying ash in it.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
9	42220 - Natural Jack Pine	Sapling Medium	76.5	7	Immature	N/A	Stand was harvested in summer of 2012, unit 1 of N.Shippy JP (61-040-11-01). Stand was harvested with a tree length system, all the red & white pine were left as well as oak. Stand is starting to seed in, stocking is ok but not great.																																										
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10	4132 - Aspen, Jack Pine	Sapling Well	2.0	15	Immature	N/A	2019 - Stand has regenerated nicely. Fully stocked aspen stand in good health. 2009 -Stand just cut with 'Grand Kal Pine. Mix of oak , pine and maple.																																										
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11	4130 - Aspen	Sapling Well	10.8	17	Immature	N/A	Thick regen about 15' tall. Cut with 'Boardman Aspen' in 02.																																										
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12	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	20.1	53	1-50	N/A	New stand added. poor quality stand lots of hypoxylum. stocking is variable.																																										
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13	122 - Road/Parking Lot	Nonstocked	2.1			No																																											
14	4133 - Aspen, Mixed Pine	Poletimber Well	61.1	40	Unspecified	N/A	Stand is an aspen stand with a nice mix of other upland species that are scattered throughout stand. Stand is very dense at this time. Stand is healthy at this time.																																										
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15	42290 - Natural Mixed Pine	Sawtimber Poor	24.6	92	1-50	N/A	2019 - Stand top needs to be taken off to release the aspen. Stand will be fully stocked stand of aspen, with a pine component.																																										
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16	330 - Low-Density Trees	Nonstocked	5.0			No	Stand swapped from Forested to Non-Forested.																																										
17	4130 - Aspen	Poletimber Well	39.0	40	81-110	N/A																																											
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18	4119 - Mixed Northern Hardwoods	Sawtimber Well	12.8	91	111-140	N/A	2019 - Stand has a basal area of 120-130 at this time. Stand is a high quality Northern hardwood with a lot of beech / ironwood in understory. Stand has an aspen clone in the south part of the stand.																																										
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19	4119 - Mixed Northern Hardwoods	Poletimber Well	29.9	90	51-80	N/A	Thinned as Grand Kal Hardwoods, 61-052-11-01, Dec 2013 to Feb 2014. understory is full of beech and iron wood regen																																										
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20	122 - Road/Parking Lot	Nonstocked	5.5			No																																											
21	4311 - Pine, Aspen Mix	Poletimber Well	4.9	61	51-80	N/A																																											
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22	622 - Lowland Shrub	Nonstocked	2.4			No																																											



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23	4130 - Aspen	Poletimber Well	14.6	39	1-50	N/A	2019 - Stand converted to A6. Stand is healthy and is in good shape. 2009- Stand converting from a3 to A6. healthy looking with a bit of Ironwood.																															
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24	330 - Low-Density Trees	Nonstocked	58.5	0	Unspecified	Managed Opening	Stand is grassy opening with trees that are seeding in. Stand has log size trees scattered throughout it and seedlings seeding into it. Stand has clumps of trees and single trees. Stand did have an old burn treatment on it but does not look like it was burnt last year of entry.																															
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25	4112 - Maple, Beech, Cherry Association	Poletimber Well	39.6	88	51-80	N/A	Thinned as Charlie's Hardwoods, 61-021-11-01, Sept 2012 to March 2013. North end of stand was more of a soft maple and aspen mix. There is some V0 at the north end.																															
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26	42110 - Planted Red Pine	Poletimber Well	65.9	59	111-140	N/A	Stand was row thinned in 03 'Stone Cellar Pine' Stand was thinned in the spring of 2012 'Larson RP Thin' Every 4th tree was removed along with some storm damage timber. (sc)																															
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27	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Poor	0.6	15	Immature	N/A	Stand was a small opening that started to seed in.																															
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28	4110 - Sugar Maple Association	Sawtimber Well	19.2	88	81-110	N/A	Stand recently thinned 'West Boardman Hardwoods' in 02. Thick beech and iron wood regen.																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
29	42290 - Natural Mixed Pine	Sapling Well	42.9	27	Immature	N/A	Jack Pine is naturally regenerating after cut, red pine is planted after harvest also. Hopefully red pine will over take the jack pine over time.																																				
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30	4130 - Aspen	Sapling Well	10.1	17	Immature	N/A	Cut in 02 'Boardman Aspen'																																				
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31	4130 - Aspen	Poletimber Well	3.8	25	1-50	N/A	Stand is fully stocked aspen stand at this time.																																				
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32	42110 - Planted Red Pine	Poletimber Well	7.2	69	141-170	N/A																																					
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33	4110 - Sugar Maple Association	Poletimber Well	69.3	88	51-80	N/A	There are a couple patches of planted white pine within the stand. Thinned as Charlie's Hardwoods, 61-021-11-01, Sept 2012 to March 2013. South part of stand was thinned in 2002 'West Boardman Hardwood'.																																				
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34	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	91.4	8	Immature	N/A	Stand appears to be fully stocked with red pine. There is competition throughout most of the stand. There are a some pockets throughout the stand that are just sold red pine. Consider spray this year or regen will be to large to spray in the future. Stand was final harvested in the fall of 2011 'Quarterline RP'. Stand was trenched in the summer of 2012 and was planted in the spring of 2013. 3 year regen survey took place in 2016 and showed stocking of ~800TPA and no recommendation for release or replant.																																				
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36	3102 - Grass	Nonstocked	0.8	0		No	Jack Pine is naturally regenerating after cut, red pine is planted after harvest also. Hopefully red pine will over take the jack pine over time.																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
37	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	4.8	98	51-80	N/A	Thinned as Charlie's Hardwoods, 61-021-11-01, Sept 2012 to March 2013.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		55	Log	12	98	Sugar Maple	
Red Pine		25	Log/XLog	16		Beech	
						Black Cherry	
						Red Maple	
						Density	
						Avg. Height	
						Size	
38	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	37.4	29	1-50	N/A	Stand has super canopy of red pine. Stand has aspen clone in south end. Stand has a lot of oak in understory and in canopy. This stand should be able to be converted over to oak pine in the future. Consider clearcutting in 20-30 years and let oak come back naturally.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Oak		15	Pole/Sapling	6		White Oak	
Jack Pine		50	Sapling	3	29	Beech	
Red Pine		20	Log	16	80		
						Density	
						Avg. Height	
						Size	
40	42250 - Pine, Oak	Poletimber Medium	37.8	88	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		20	Log/Pole	13		Quaking Aspen	
White Pine		35	Pole/Log	8	88	White Pine	
Red Pine		35	Pole/Log	8		Black/Red (Hybrid) Oak	
White Oak		10	Pole/Log	8			
						Density	
						Avg. Height	
						Size	
41	4110 - Sugar Maple Association	Sawtimber Well	58.8	102	81-110	N/A	Thinned as Charlie's Hardwoods, 61-021-11-01, Sept 2012 to March 2013. Mostly hard maple with some pockets of beech and some scattered hemlock. East part of stand was salvage cut in 2004. Other was thinned regularly in 2004 'South Boardman Hwd'.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		92	Log/Pole	12	102	Sugar Maple	
						Beech	
						Ironwood	
						Wild Red Raspberry	
						Density	
						Avg. Height	
						Size	
42	42110 - Planted Red Pine	Poletimber Well	80.8	68	111-140	N/A	Stand contains several openings filling in with jack pine. timber is pretty straight but small diameters. Thinned in 03 'Begin Pine 2'
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		95	Log/Pole	10	68	Beech	
						Jack Pine	
						Sugar Maple	
						Density	
						Avg. Height	
						Size	
43	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	1.7	80	81-110	N/A	Stand is island in the middle of stand 34. I am assuming this was some sort of retention for stand 34. Stand 34 is planted red pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		40	Log/XLog/Pole	16	80	Beech	
Red Maple		35	Log/Pole	10			
White Pine		20	Log/XLog/Pole	16			
						Density	
						Avg. Height	
						Size	
45	3102 - Grass	Nonstocked	3.1	0		No	Stand looks like an homestead. Walnut and apple trees are present.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
46	4110 - Sugar Maple Association	Sawtimber Well	0.9	90	81-110	N/A	Stand was thinned in the fall of 2011. Small timber sale receipt issued to Pete Wood Firewood.																																				
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48	42210 - Natural Red Pine	Sawtimber Well	3.9	142	81-110	N/A																																					
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49	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	2.1	77	51-80	N/A	nice st. Save for Creek buffer. Let stand convert to pine.																																				
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50	622 - Lowland Shrub	Nonstocked	10.0			No																																					
51	4110 - Sugar Maple Association	Poletimber Well	12.7	89	111-140	N/A																																					
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52	4110 - Sugar Maple Association	Poletimber Well	1.1	89	51-80	N/A	Stand was cut in the fall of 2011 as a part of a small firewood sale. Timber sale receipt to Pete Wood Firewood.																																				
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53	42210 - Natural Red Pine	Sawtimber Well	14.6	87	81-110	N/A	nice RP poles. Part of stand has evidence of a fire 2-3 yrs ago.																																				
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54	4131 - Aspen, Oak	Poletimber Well	13.0	43	111-140	N/A	Old oak with young aspen mixed in.																																				
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55	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	18.7	76	111-140	N/A	Real mixed stand. Mostly mixed pine with pockets of younger aspen some oak present probably hold for ten yrs.																																	
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56	42110 - Planted Red Pine	Sawtimber Well	112.1	68	141-170	N/A	Nice stand. Some JP regen along roads and fire breaks. Thinned in 03 'Vacation Red Pine'																																	
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57	790 - Other Bare/Sparsely Vegetated	Nonstocked	10.4			Managed Opening																																		
58	622 - Lowland Shrub	Nonstocked	1.0			No																																		
59	42100 - Planted White Pine	Sawtimber Well	8.1	64	81-110	N/A	Poor quality																																	
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61	310 - Herbaceous Openland	Nonstocked	16.3			No																																		
62	4319 - Mixed Upland Forest	Sawtimber Well	13.8	71	81-110	N/A	Natural white pine with mixed aspen and soft maple.																																	
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63	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	3.0	77	51-80	N/A	Has Creek running through it. Lots of deer use.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
64	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	8.7	99		N/A	mixed species in stand. decent quality tam. ground is soft. not much deer Sign.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		15	Pole	7		Tag Alder	
Balsam Poplar		20	Pole	8		Low	
Northern White Cedar		45	Pole	8	99	5 - 10 feet	
Tamarack		20	Pole	6		Tall Shrub	
65	4133 - Aspen, Mixed Pine	Poletimber Well	15.0	43	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole/Sapling	5		Red Maple	
Bigtooth Aspen		55	Pole	6	43	Medium	
White Pine		30	Pole/Log	8		Low	
						10 - 20 feet	
						Sapling	
67	4130 - Aspen	Poletimber Well	26.0	37	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		30	Pole/Sapling	6	37		
Bigtooth Aspen		50	Pole	8	37		
Red Maple		15	Sapling	4			
68	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	39.8	86		N/A	Lots of windthrow. Where wind throw is heavy stand is regenerating to Balsam Poplar and white birch. Stand is very wet.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		40	Pole	8	86	Paper Birch	
Paper Birch		10	Pole	7		Medium	
Balsam Fir		10	Pole	6		5 - 10 feet	
Black Spruce		10	Pole	6		Sapling	
Northern White Cedar		30	Pole	6		Low	
						< 5 feet	
						Sapling	
						Tag Alder	
						Medium	
						5 - 10 feet	
						Tall Shrub	
69	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	4.9	64	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		60	Log	12	64	White Pine	
Red Maple		40	Pole/Log	8		Low	
						5 - 10 feet	
						Sapling	
70	6112 - Lowland Aspen	Sapling Medium	30.9	5	Immature	N/A	Decent pole timber mix of red maple, birch, cedar. Lots of deer browse. Mortality in the birch. Stocking is less to the northwest part of the stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		10	Pole	8			
Red Maple		20	Sapling	1			
Hemlock		15	Pole/Log	9			
Quaking Aspen		40	Sapling	2	5		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
71	6111 - Lowland Balsam Poplar	Poletimber Poor	46.2	40		N/A	Big area of blow down filling in with cat tail, mixed scattered pole timber with tag alder underneath. very wet.																																										
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72	3301 - Low Density Deciduous Trees	Nonstocked	1.6			No																																											
73	4112 - Maple, Beech, Cherry Association	Poletimber Well	2.4	88	51-80	N/A	pocket of higher ground. mostly red maple. Stand drops off to the north to lower ground. Kelly's stand																																										
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74	6121 - Tamarack	Poletimber Well	3.9	97	51-80	N/A	Stand is very wet. and inaccessible.																																										
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75	6120 - Lowland Cedar	Poletimber Poor	28.1	91	1-50	N/A	mixed stand. Some pockets of C6. St is fairly wet some pockets of hemlock St has some higher ground where RM and birch are present. Stand was shelterwood harvested in the winter of 2014 'Boardman Swamp Mix' 61-064-11-01. We got temporary access into the stand from the private property to the south. All cedar, hemlock, yellow birch, and red pine. There was also red maple, birch and white pine that were marked to leave with green paint.																																										
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76	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	25.3	86	81-110	N/A	Lots of old and new windthrow Some evidence of cedar regen where wndthrow is thick. Stand is regenerating to balsam poplar and birch.																																										
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77	42220 - Natural Jack Pine	Sapling Well	5.4	21	Unspecified	N/A	Natural jack pine filling in nice and thick on real sandy soil. Stand burned in 88 Kalkaska fire 15 & 11.																																										
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78	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	6.9	82	51-80	N/A	Lots of deer sign. Fair amount of regen and browse. Stand has Taylor Cr. running through it. Nice pole timber																																					
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79	42220 - Natural Jack Pine	Sapling Well	16.7	5	Immature	N/A	Stand was final harvested in winter of 2014 (cut to length). 'Boardman Swamp Mix' 61-064-11-01. We gained temporary access through the private property to the south.																																					
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80	4133 - Aspen, Mixed Pine	Poletimber Well	3.3	58	51-80	N/A																																						
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81	429 - Mixed Upland Conifers	Sapling Well	11.6	21	Immature	N/A	stand is mostly wind throw. lots of slash																																					
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82	42290 - Natural Mixed Pine	Poletimber Well	4.0	56	81-110	N/A	west part of stand is a mix of WP, JP, RP, Scotch pine. poor quality stand																																					
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83	4130 - Aspen	Sapling Well	52.4	7	Immature	N/A	Stand was harvested in the summer of 2012 'Age Class Aspen.' Stand is regenerating nicely and is about 2-3' tall. WP greater than 24" was left along with oak and hemlock.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
84	42220 - Natural Jack Pine	Sawtimber Well	3.9	68	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		60	Pole/Log	8	68	White Oak	
White Pine		10	Log/Pole	12		White Pine	
Red Pine		30	Log/Pole	12		Jack Pine	
						Density	
						Avg. Height	
						Size	
						Sapling	
						Sapling	
						Sapling	
85	42210 - Natural Red Pine	Sawtimber Well	37.9	73	81-110	N/A	mixed pine stand. Quite a few red pine poles. Stand should be managed next YOE. Leave for age class diversity.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		30	Log	12		White Pine	
Red Pine		60	Log	10	73	Red Pine	
						Density	
						Avg. Height	
						Size	
						Sapling	
						Sapling	
86	42250 - Pine, Oak	Sawtimber Poor	18.5	68	1-50	N/A	Stand was seed tree/shelterwood harvested in the summer of 2015, unit 2 of N. Shippy JP 61-040-11-01. Marked about 20BA of mixed pine and oak to leave. Some jack pine is starting to seed in.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		20	Log/Pole	12		Jack Pine	
Red Pine		50	Log/Pole	10	68	Bigtooth Aspen	
Red Oak		30	Log	12		Red Maple	
						Density	
						Avg. Height	
						Size	
						Sapling	
						Sapling	
						Sapling	
87	622 - Lowland Shrub	Nonstocked	1.6			No	
89	42250 - Pine, Oak	Poletimber Medium	5.9	88	51-80	N/A	Mixed stand. Log sized oak with a mix of aspen and pine. Stocking isn't too thick lots of white pine regen. Originally part of stand 40 good retention for overstory removal of 40.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		30	Log	14		White Pine	
White Pine		30	Pole/Log	8	88	Density	
Red Pine		30	Pole/Log	8		Avg. Height	
Bigtooth Aspen		10	Pole/Log	8		Size	
						Sapling	