



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61233

Entry Year 2024

Acreage: 1,400

County Manistee

Management Area: Manistee Plains

Stand Examiner: Patrick Cotant

Legal Description:

T24N, R14W, section 1, 2, 5, 8, 9, 11, 12, 15, 17

Identified Planning Goals:

The Betsie River is a state designated Natural River. There are three parcels of state ownership with river frontage where maintaining vegetative cover and visual management along the river will be a priority. The compartment has historically been classified as mixed use in the Pere Marquette Management Plan. For other parcels within the compartment not effected by the Betsie River or its tributaries; provide for intensive timber management; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for dispersed forest-based recreational uses.

Soil and topography:

Dominant soil type is Rubicon loamy, excessively drained. Topography is level. The compartment lies within land type association 6-1-1-1 (broad flat lake plain: excessively drained sand and loamy sand.)

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

The majority of land within the compartment is private. State ownership is fragmented with only one large contiguous block of 480 acres. The remainder of state ownership consists of smaller, scattered parcels. There is one newly acquired parcel; the SESE of section 15 and the railroad grade running through the section was purchased in 2009. The acquisition of this parcel helps to fill a major gap in the Interlochen to Kaleva Trail as well as provide legal access to approximately 600 acres of state owned land in adjacent compartment 61033. There was one small disposal of state owned land in section 15, SWSE. Approximately 1.5 acres was sold to resolve an historic building found to be in trespass on state land

Unique Natural Features:

Potential for red shouldered hawk, goshawk, and wood & box turtle occurrences within the compartment. MNFI layers identify observations in the past but recent records since the last review period are absent.

Archeological, Historical, and Cultural Features:

None known or identified in HAL database.

Special Management Designations or Considerations:

The Betsie River is a state designated Natural River.

Watershed and Fisheries Considerations:

The Betsie River and a small, unnamed tributary flow through Compartment 233. Both are Designated Trout Streams. The Betsie River is a State Designated Natural River. A native vegetation buffer of 100 feet on each side of the river must be maintained. The Betsie River has populations of rainbow trout (steelhead), brown trout, coho salmon, and chinook salmon. The tributary in Section 9 has a naturally reproducing population of resident brook trout. The tributary is also vital to the Betsie River in that it provides cold groundwater to the Betsie, helping to keep it cool enough for trout survival.

Wildlife Habitat Considerations:

This compartment falls within a flat lake plain landscape, characterized by loamy sands and relatively flat terrain. The presettlement forest cover in this landscape was dominated by beech-maple and white pine-beech-red maple. The compartment today is dominated by pine plantations, aspen-hardwood mixes on moist to wet soils, and some wetlands and remnant fields. This landscape is less fire-prone than the outwash plains to the north. GLO surveyors reported large wind throw areas which were perhaps the dominant natural change factor, along with natural succession.

Well advanced forest stands adjacent to the river should be maintained as late successional forest for riparian habitat and as a remnant of historic forest cover. Mink, barred owls, pileated woodpeckers, wood frogs, deer, and numerous other species will benefit from such cover. These areas are also important for the state-threatened, red-shouldered hawk.

Low lying aspen and shrub wetlands dominate section 17. Maintaining a variety of aspen age classes here through periodic cutting will benefit numerous species such as ruffed grouse, woodcock, golden-winged warbler, and black bear.

Harvests should incorporate leave trees, snags, and creation of some down logs. Wild raisin, chokeberry, and blueberry are particularly abundant in this area and provide an extremely important soft mast resource. Patches of old white pine offer important diversity and should be maintained. Red-shouldered hawks are also known to use this area. Any nesting sites discovered should be protected following Department guidelines.

Most of the rest of the state lands in the compartment are fragmented parcels with pine plantations, remnant fields, and small stands of hardwoods. Any thinnings can only benefit wildlife by allowing some sunlight into these stands which will in turn diversify ground flora and habitat. Wetlands should be buffered when thinning adjacent stands. Openings should be maintained where they exist to enhance local diversity for deer, turkey, cedar waxwing, red fox, American goldfinch, and other species using open habitats.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is more than two miles east. There is potential for sand and gravel within the compartment, but aside from small borrow pits, development potential appears limited. The compartment is within the Silurian reef trend and several successful wells have been drilled in and around the compartment; nearly all appear to be plugged and abandoned or temporarily abandoned. There may be potential for additional reef discoveries beneath the compartment as well as potential for gas storage. There has also been some Antrim Shale gas production in this area, but it is unlikely additional Antrim wells will be drilled within the compartment as long as natural gas prices remain low. State-owned mineral rights in the compartment are currently leased and held by production. 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:

Due to the fragmented nature of this compartment, vehicle access is not a problem. Most parcels have access via county roads. The only exception is the NESW of section 12 which is land locked and has no legal access.

Survey Needs:

The compartment is well surveyed. Survey needs that were identified in 2004 have all been completed. There are no known survey needs at this time.

Recreational Facilities and Opportunities:

The Betsie River Snowmobile Trail runs through the compartment. The trail was recently moved off of a series of forest roads and on to the former Ann Arbor Railroad grade that runs from Thompsonville to Kaleva. The Betsie River is used for canoeing, kayaking, and fishing. Access to the river is currently limited to the Psutka Rd. crossing in section 8. The small parcel in section 2 (stand 66) could possibly be developed into an access site along Kurick Rd. Dispersed camping activities associated with fall hunting appear to be generally light throughout the compartment.

Fire Protection:

Local volunteer response for initial attack is from the Copemish-Cleon Volunteer Fire Department. DNR initial attack response is from the Platte River Field Office and the Traverse City Field Office.

Additional Compartment Information:

Recommended land disposals:

The NE1/4SW1/4 section 12. This parcel has no legal access; therefore it is unavailable to the public for any type of recreation and is inaccessible for forest management activities. Cover consists of low quality hardwood and white pine.

Recommended land acquisitions:

Any large parcels that have frontage on the Betsie River that could improve access opportunities.

The following reports from the Inventory are attached:

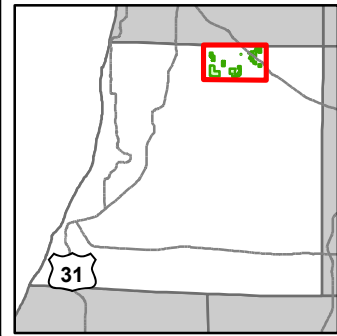
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

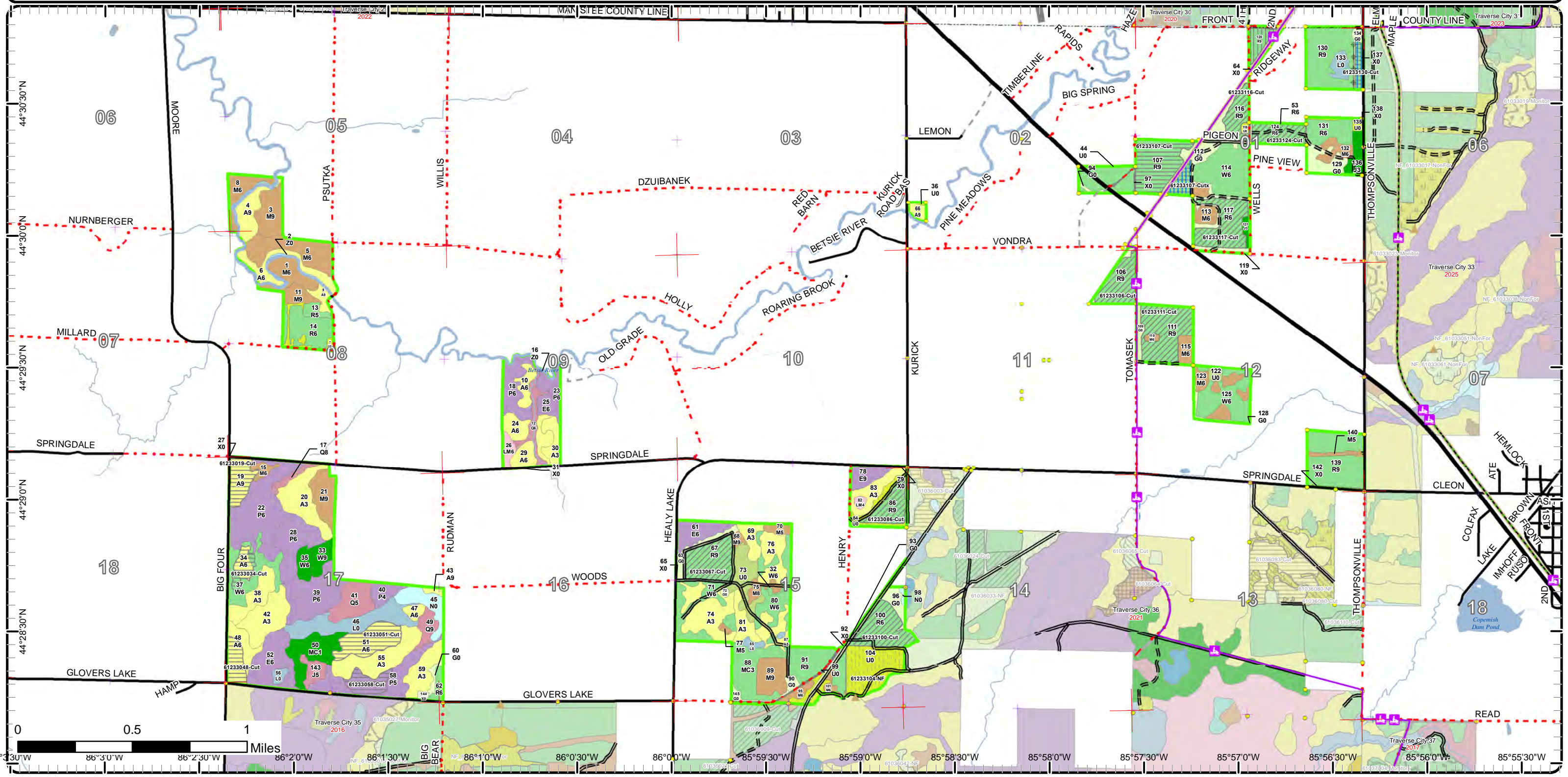
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 233
 T24N, R14W, Sec. 1, 2, 5, 8, 9,
 11, 12, 15, 17
 County: Manistee
 Unit: Traverse City
 Mgmt Area: Manistee Plains
 YOE: 2024
 Acres: 1399.9 GIS Calculated
 Examiner: Patrick Cotant
 Map Revised: 10/17/2022
 Map Phase: Post Review

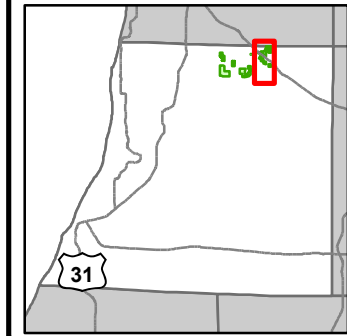


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State - Paved Road
- - Federal / State - Dirt / Gravel Road
- . - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- 🚙 Snowmobile Trails
- Designated Hiking Trails
- - Designated Bicycle Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Designated Rail Trail
- ▲ Berms
- 🌉 Bridges
- ⚡ Culvert
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ⚡ Powerline
- ✈ Airports
- ▭ Compartment Boundary
- ▭ Clearcut (w/Reserves)
- ▭ Seed Tree (w/Reserves)
- ▭ Thinning (Crown, Low, Systematic)
- ▭ Shelter Wood (w/Reserves)
- ▭ Opening Maintenance
- ▭ 411 - Northern Hardwood
- ▭ 413 - Aspen
- ▭ 421 - Planted Pines
- ▭ 422 - Natural Pines
- ▭ 611 - Lowland Deciduous Forest
- ▭ 612 - Lowland Coniferous Forest
- ▭ 613 - Lowland Mixed Forest
- ▭ 122 - Roads/Parking Lot
- ▭ 310 - Herbaceous Openland
- ▭ 320 - Upland Shrub
- ▭ 330 - Low Density Trees
- ▭ 500 - Water
- ▭ 622 - Lowland Shrub
- ▭ 623 - Emergent Wetland
- ▭ 790 - Other Bare/Sparsely Vegetated

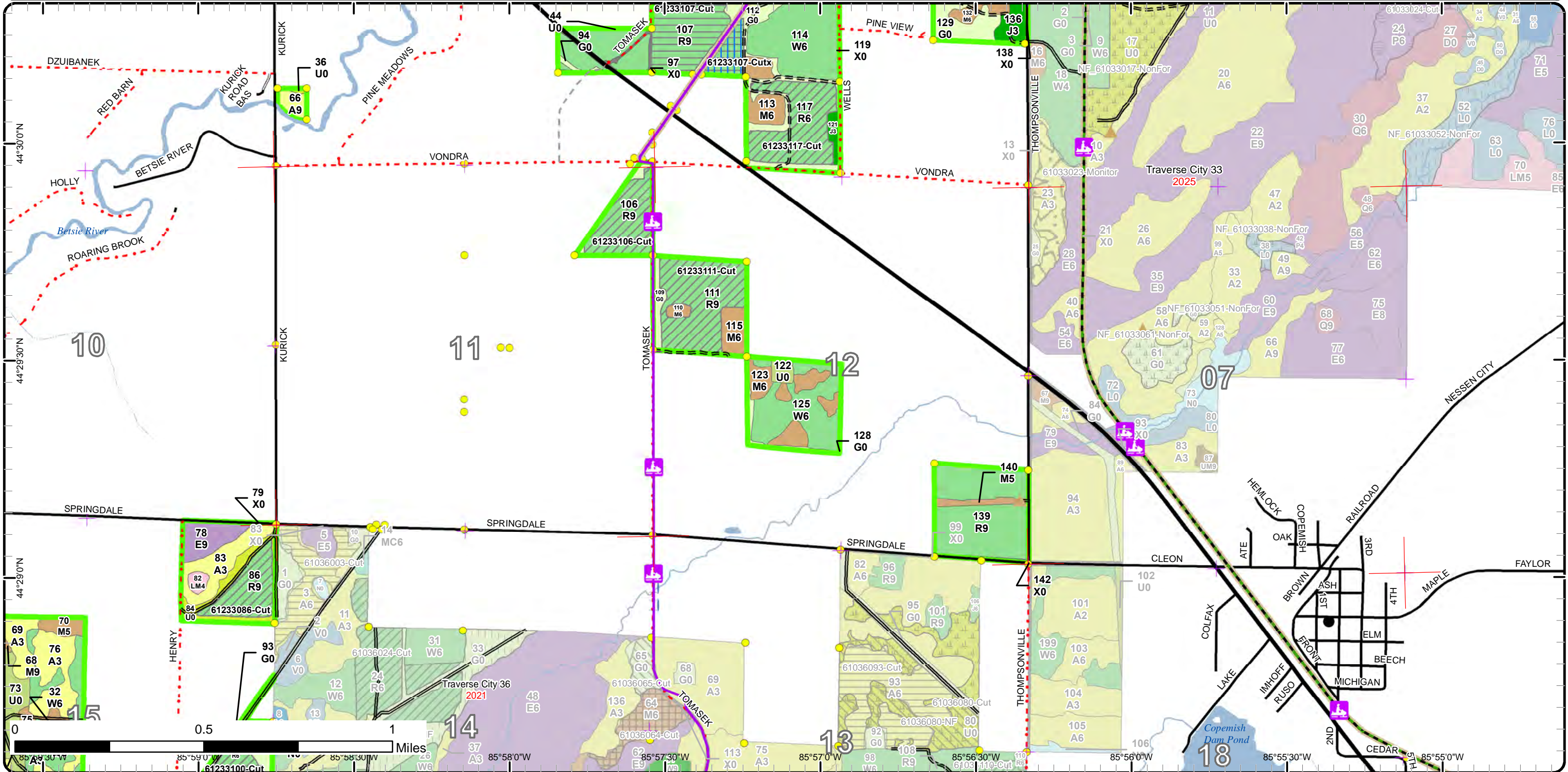


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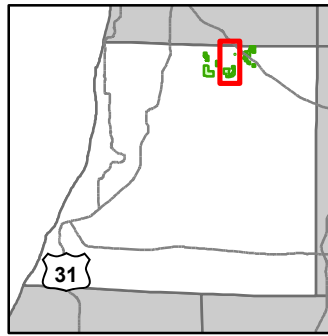


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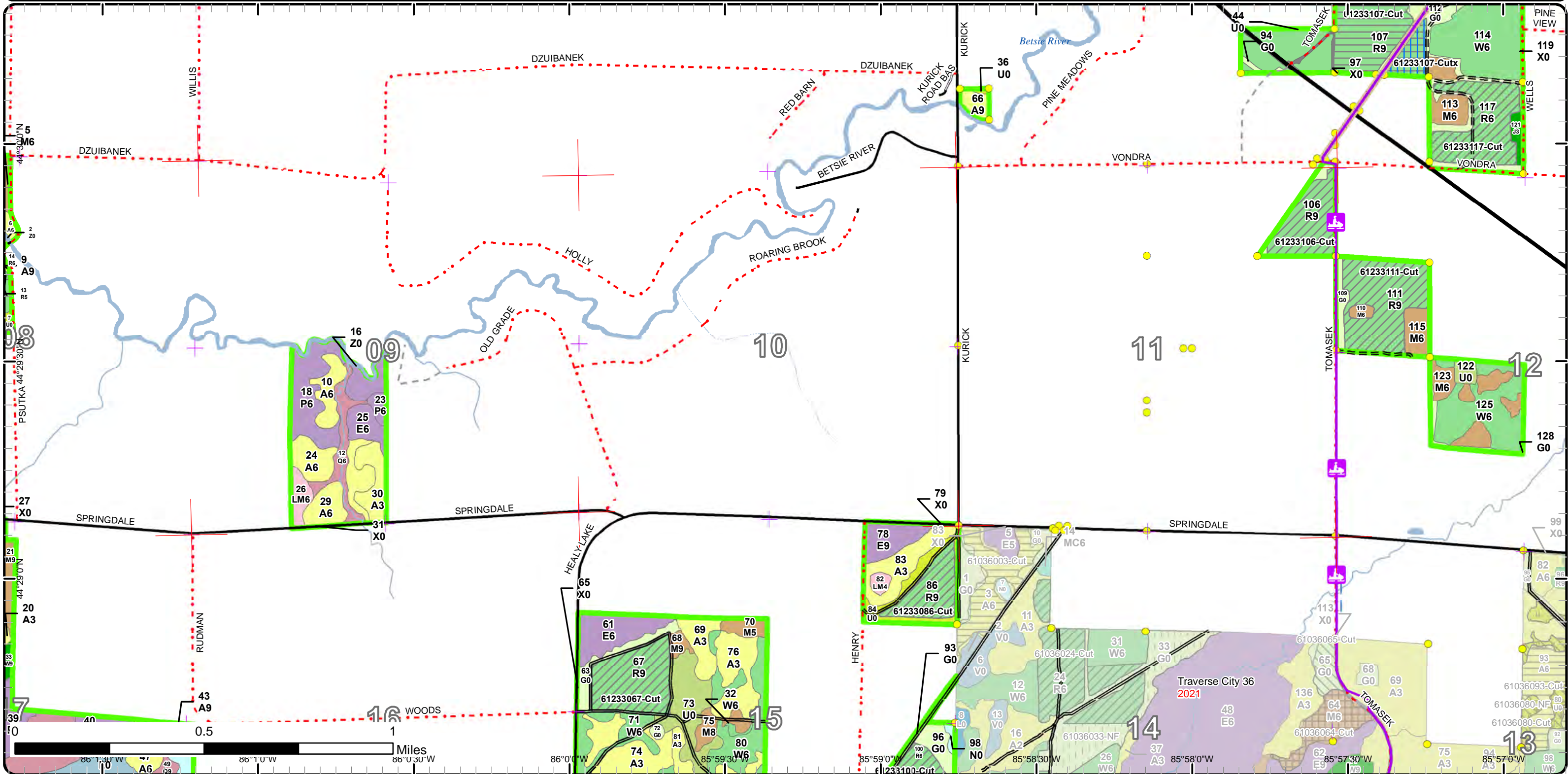


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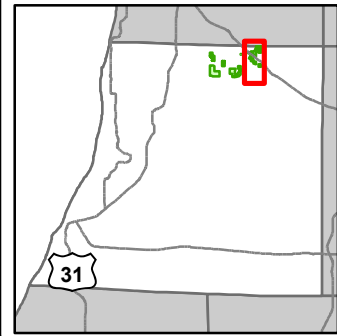


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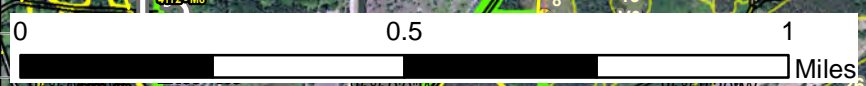
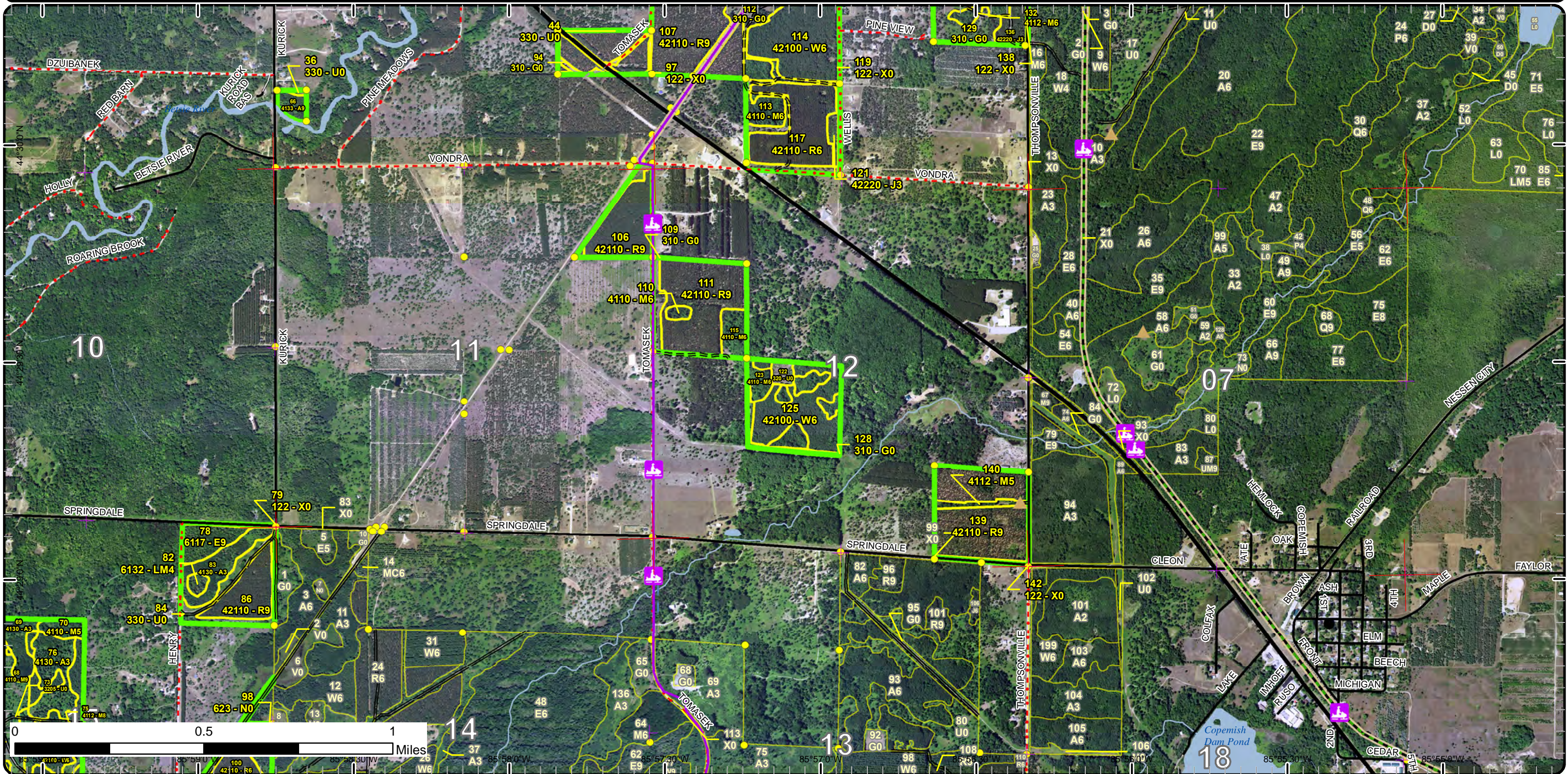


Stand Boundary Map

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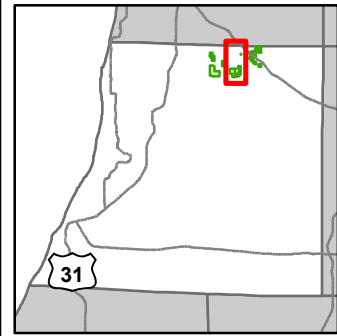
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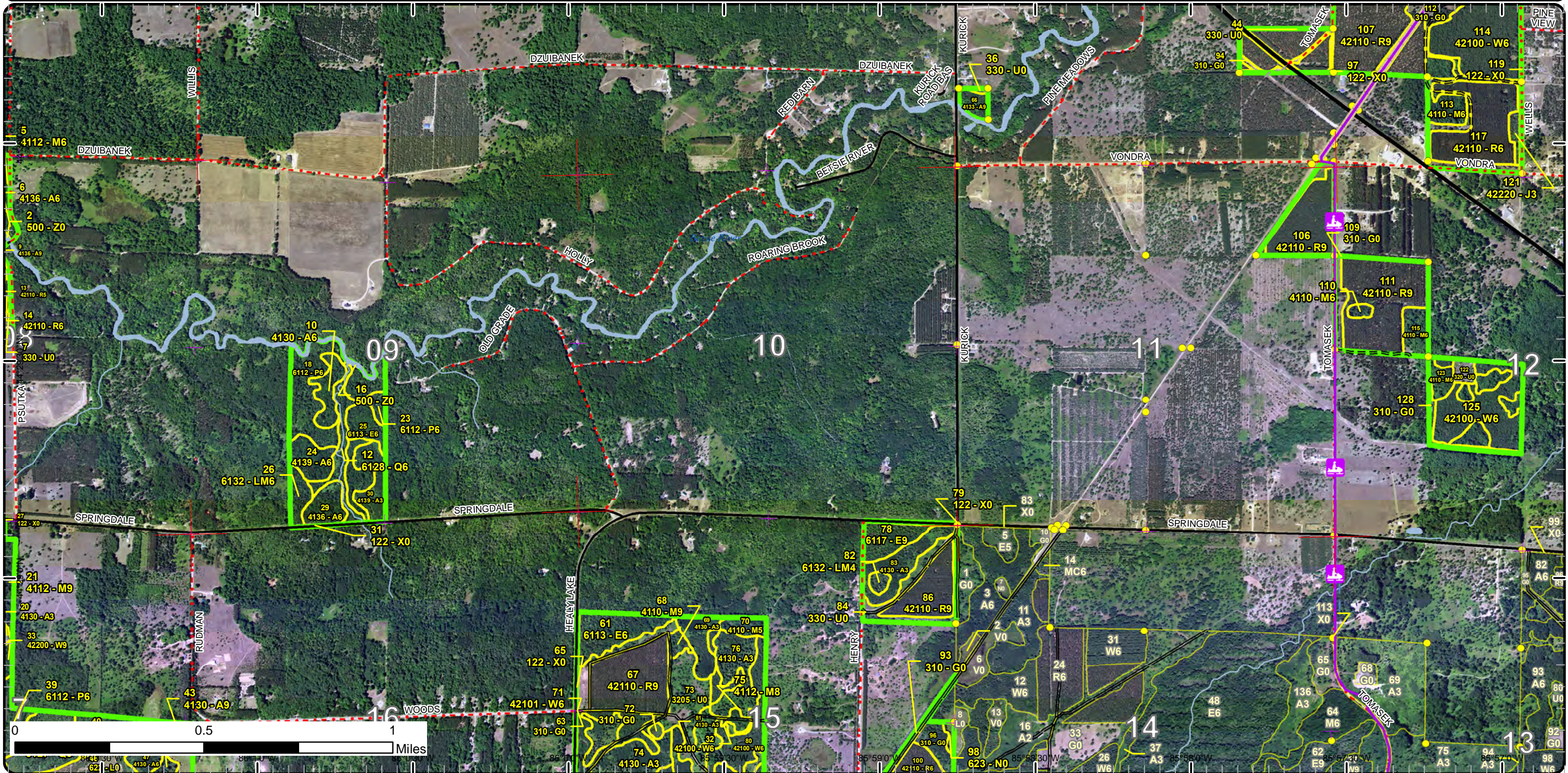
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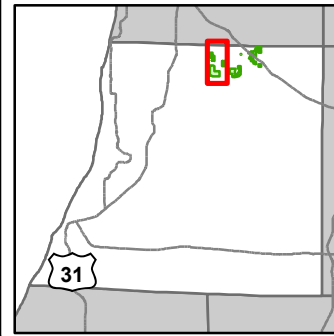


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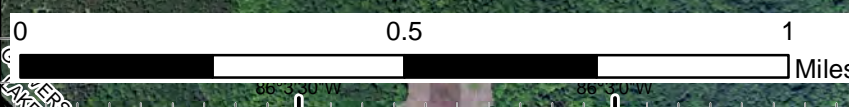
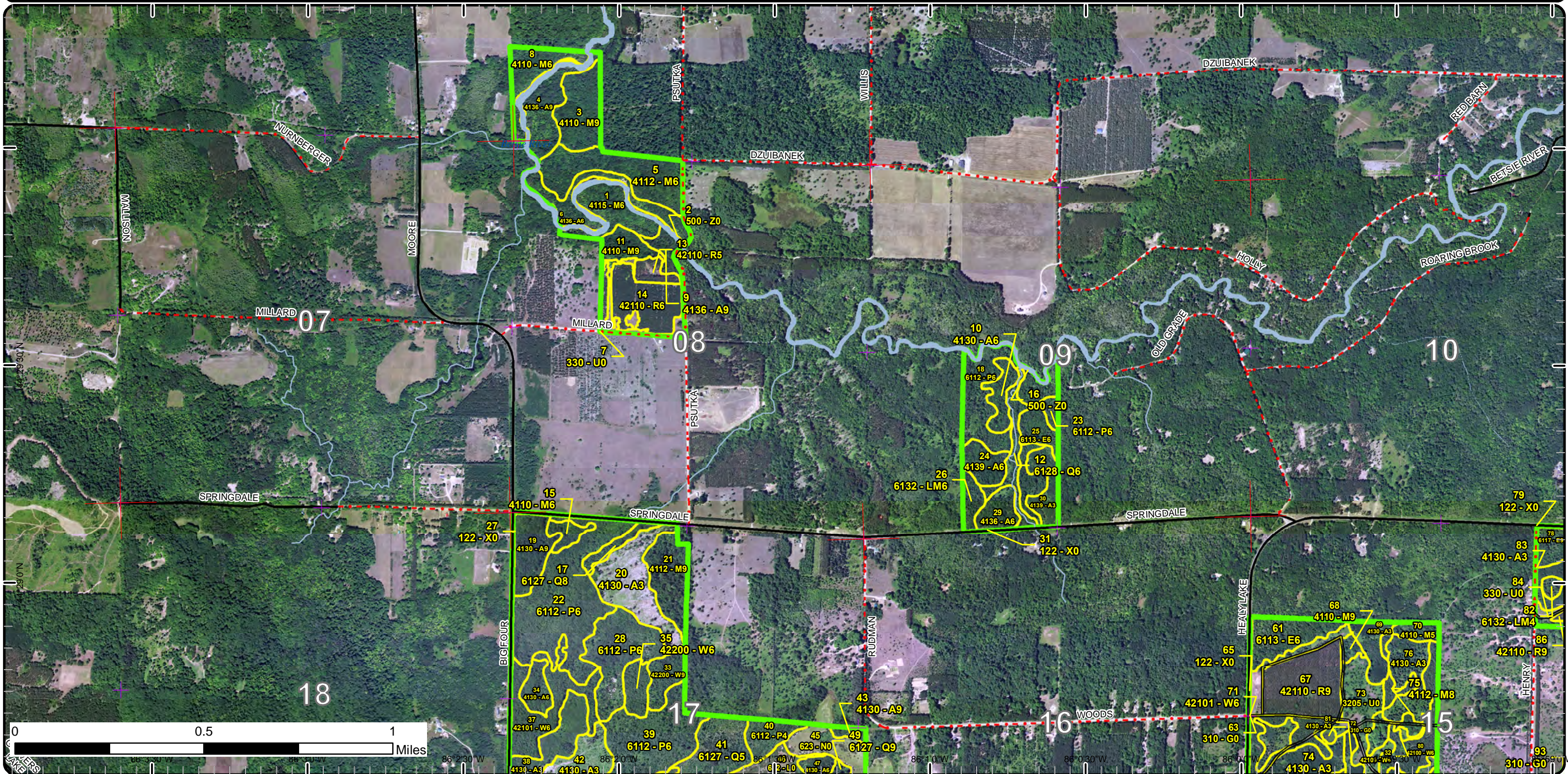


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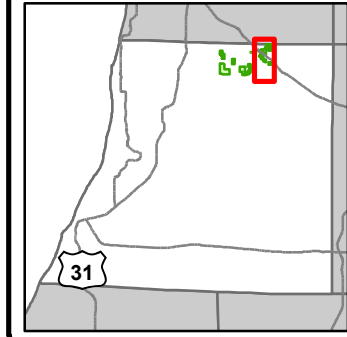
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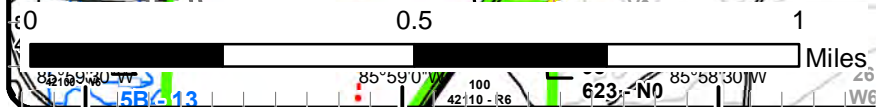
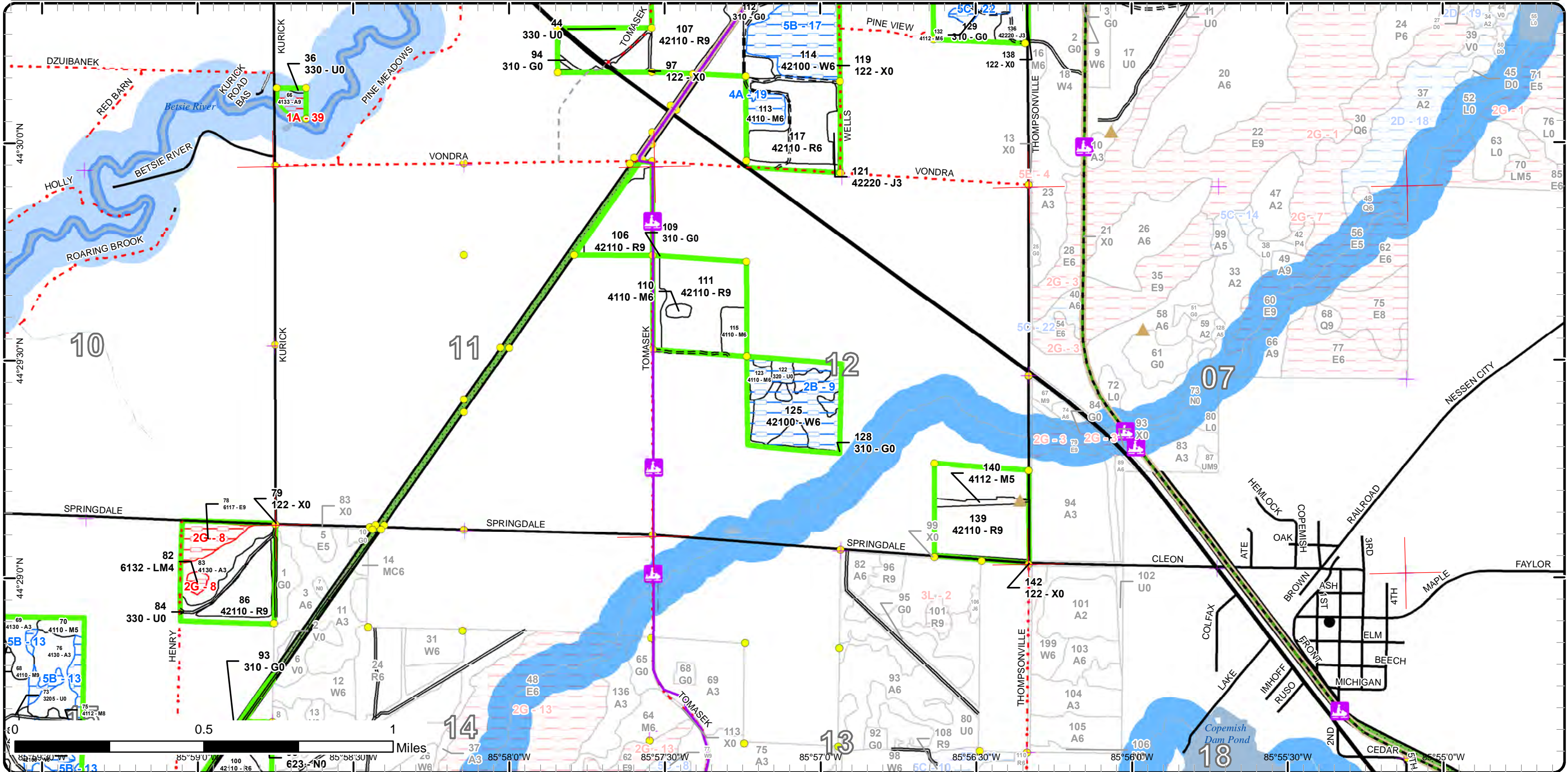
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Special Conservation Areas

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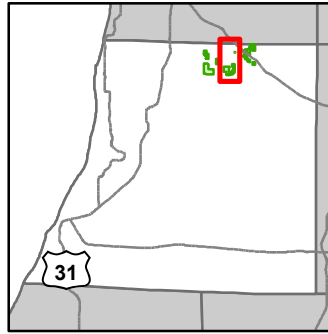


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- ▲ Berms
- ⊗ Bridges
- ⊗ Culvert
- Lake/Pond
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- Compartment Boundary
- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Trail - Trail Corridor

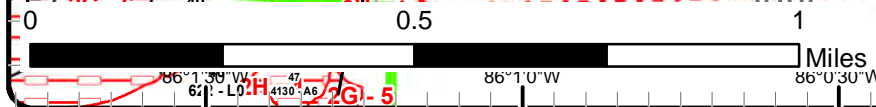
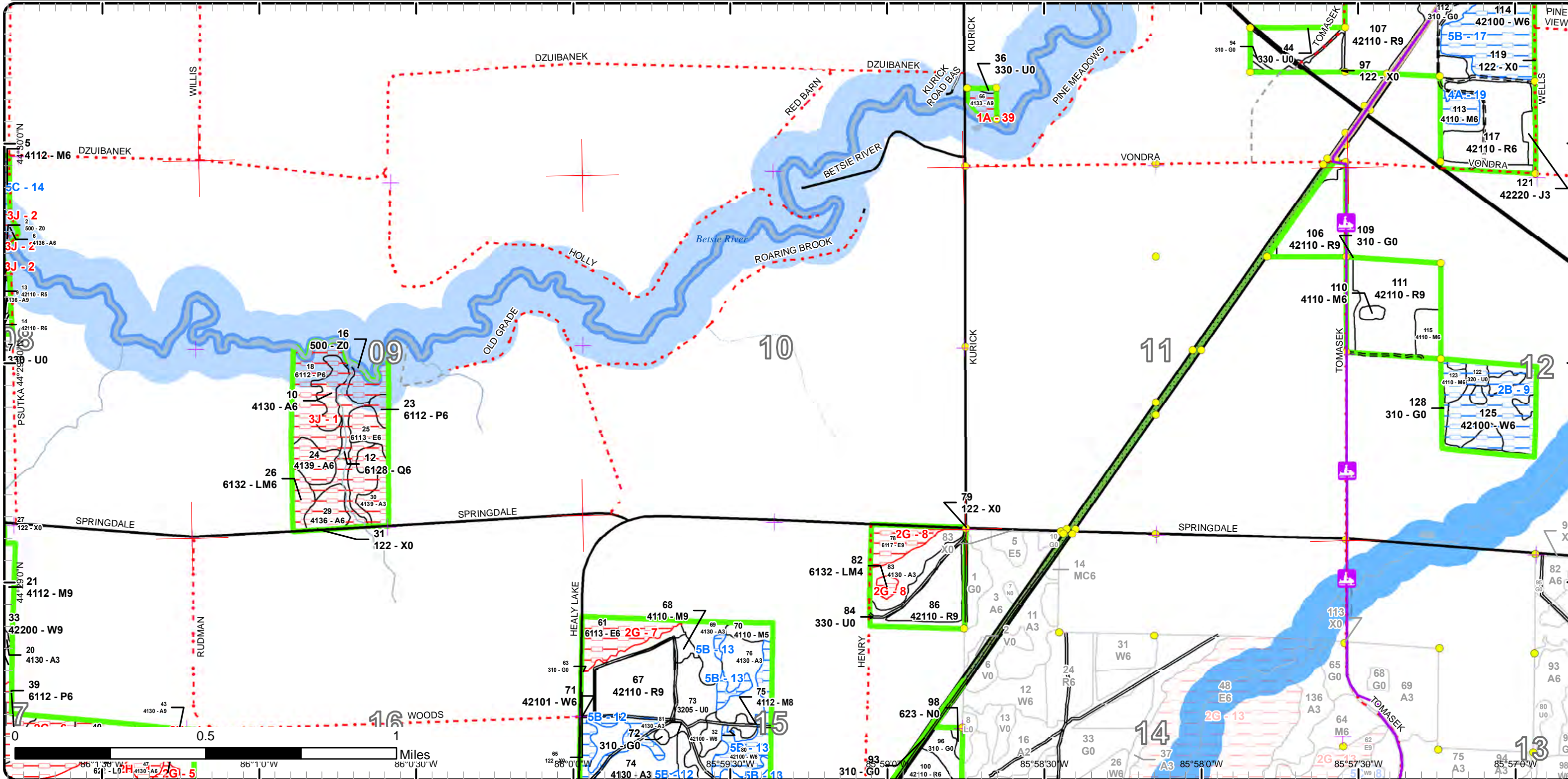


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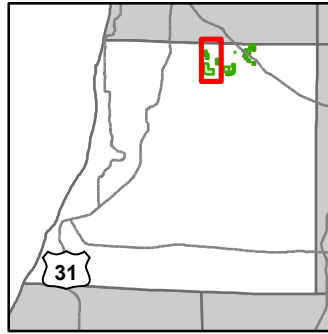


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- 5B: Maintain for regeneration purposes
- Unavailable
- 1A: Federal/State/Local Law
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
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- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
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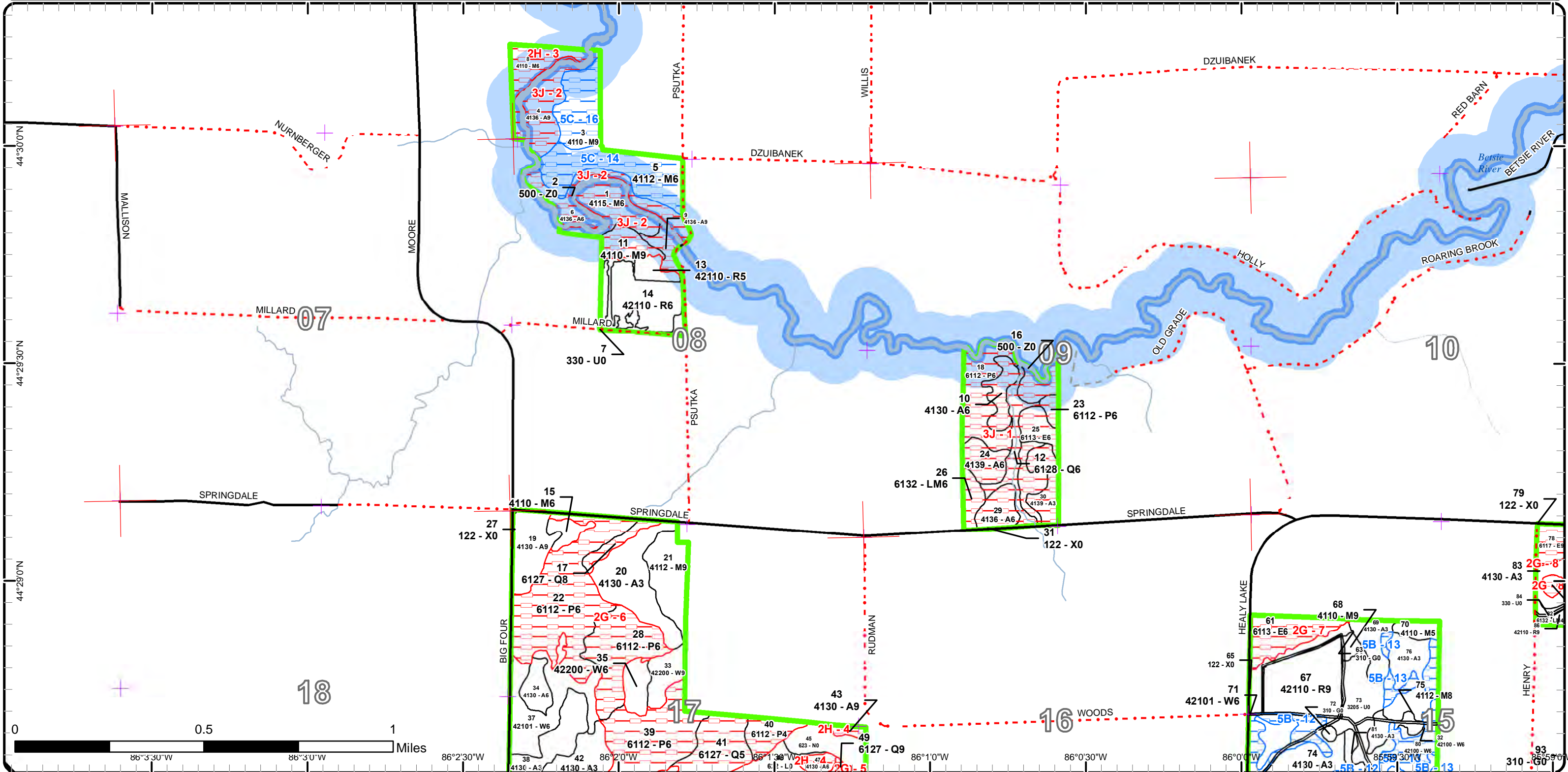


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- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes



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	54	87	26	0	0	5	63	15	33	0	0	0	0	0	0	0	0	282
Bare/Sparsely Vegetated	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Herbaceous Openland	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Jack Pine	0	0	9	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	15
Low-Density Trees	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Lowland Aspen/Balsam Poplar	0	0	0	0	63	0	34	46	0	0	0	0	0	0	0	0	0	2	145
Lowland Conifers	0	0	0	0	0	0	0	15	8	0	0	0	0	0	0	0	0	10	33
Lowland Deciduous	0	0	0	0	0	0	0	0	10	0	0	23	0	0	0	0	0	20	53
Lowland Mixed Forest	0	0	0	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	6
Lowland Shrub	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Marsh	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Natural Mixed Pines	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	19
Northern Hardwood	0	0	0	0	4	0	3	6	13	23	34	24	21	0	0	0	0	22	149
Planted Mixed Pines	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Red Pine	0	0	0	18	0	0	170	55	55	35	0	0	0	0	0	0	0	0	333
Upland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Urban	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Water	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
White Pine	0	0	0	0	0	0	83	27	0	0	0	0	0	0	0	0	0	7	117
Total	227	54	117	44	67	19	301	216	103	91	34	47	21	0	0	0	0	61	1400



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 233
Total Compartment Acres: 1,400

Commercial Harvest - 250
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	47	0	0	0	0	0	0	0	0	47
Lowland Aspen/Balsam Poplar	10	0	0	0	0	0	0	0	0	10
Red Pine	27	0	0	10	6	149	0	0	0	193
Total	84	0	0	10	6	149	0	0	0	250

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	250	0	0	0	0	0	0	29	0	279
Next Step	0	27	27	0	0	27	128	0	0	210
Total	250	27	27	0	0	27	128	0	29	489



Stand	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:

19	61233019-Cut	11.3	4130 - Aspen	Sawtimber Well	62	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Specs: Final harvest stand, expand treatment along eastern edge where possible if conditions allow for operations in adjacent P-type. Retain some small pockets of red maple in NW corner of stand and along Big Four rd.

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

Acceptable Regen: Aspen species, red maple, black cherry and beech.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

34	61233034-Cut	7.6	4130 - Aspen	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Specs: Final harvest stand, retaining a few small pockets of 4-6 individual, good quality white pine trees (in areas where stand 37 is included in treatment area). Treatment area has been expanded outside of stand 34 boundary to harvest portions of stand 37 that appeared to have more aspen present with the goal of converting portions of 37 to aspen. This boundary can be expanded in slightly different areas and/or more acreage can be harvested for conversion if aspen is in high enough density.

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

Acceptable Regen: Aspen species, red maple, black cherry, white pine and beech.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

48	61233048-Cut	9.0	4130 - Aspen	Poletimber Well	65	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Specs: Final harvest stand, retain all conifers. Treatment area avoids areas of stand that were wet or appeared to have been recently at time of inventory, however if it looks like additional acres of stand 48 are operable at time of sale set-up, expand treatment area to north and east. There is potential that remainder of stand may be operable during dry summer or frozen winter conditions.

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

Acceptable Regen: Aspen species, red maple, black cherry, beech and white pine.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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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51	61233051-Cut	18.9	4130 - Aspen	Poletimber Well	65	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final harvest stand in conjunction with portion of stand 58. The transition zone along northern edge of stand has been excluded from treatment area but be cognizant of lowland influence in this portion of treatment and avoid areas that are excessively wet. Retain all merchantable conifers during sale operations.

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

Acceptable Aspen species, red maple, black cherry and beech along with scattered white and jack pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

58	61233058-Cut	10.2	6112 - Lowland Aspen	Poletimber Medium	65		Harvest	Clearcut with Retention	6130 - Fir, Aspen, Maple	Even-Aged	No
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Prescription Final harvest portion of stand identified by treatment area. If areas along edge of treatment area appear operable and are not excessively wet and/or have sensitive soils present then treatment area can be expanded to include additional portions of stand. Access will need to be established in same location as was used when stand 55 was harvested. Culvert and fill will be needed, along with a Manistee County RC permit.

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

Acceptable Aspen species, red maple, black cherry, beech, white pine, jack pine and balsam fir.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

67	61233067-Cut	22.4	42110 - Planted Red Pine	Sawtimber Well	59	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin red pine, removing approximately 1/3 of overall volume with focus being on defected, suppressed and/or otherwise poorly formed trees, and the remaining removal of trees for spacing. In addition, remove flagging/stressed trees around large dieback pocket in south central portion of stand. Consult with forest health to determine if more than a chain buffer is needed for removal in order to pre-salvage dying trees.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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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86 61233086-Cut	12.7	42110 - Planted Red Pine	Sawtimber Well	58	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin red pine, removing approximately 1/3 of overall volume with removal focused on forked, suppressed or otherwise poorly formed individuals.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

100 61233100-Cut	21.8	42110 - Planted Red Pine	Poletimber Well	61	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin red pine removing approximately 1/3 of overall volume with focus being on forked, suppressed or otherwise poorly formed individuals.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

104 61233104-NF	28.5	330 - Low-Density Trees	Nonstocked			NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
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Prescription May want/need to plant herbaceous species for wildlife forage needs. Consider an appropriate native species, but don't rule out pasture mix (i.e. alfalfa/clover). Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

106 61233106-Cut	16.6	42110 - Planted Red Pine	Sawtimber Well	57	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin red pine by removing approximately 1/3 of overall volume, with focus being on removal of forked, suppressed and/or otherwise poorly formed trees.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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
107 61233107-Cut	27.4	42110 - Planted Red Pine	Sawtimber Well	59	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, retaining a few small red pine pockets of 5-6 trees along Thomas road and also a couple of these pockets near snowmobile trail to account for retention and aesthetic concerns. Chipping sale would be ideal and is recommended to help ensure future success of red pine regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine at plantation spacing, also expect some beech and white pine throughout.</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 /2023</p>										
107 61233107-Cutx	6.0	42110 - Planted Red Pine	Sawtimber Well	59	111-140	Harvest	Seed Tree	4221 - Natural Red Pine	Two-Aged	No
<p><u>Prescription</u> Seed tree stand, retaining good quality, large crowned red pine at a density of 10-30 sq ft/ac. in an attempt to nurse along red and white pine advanced regeneration that exists throughout this treatment area and is generally not present, or is in much lower density throughout remainder of stand 107.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine, white pine and beech along with scattered red maple and black cherry.</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 /2023</p>										
111 61233111-Cut	29.3	42110 - Planted Red Pine	Sawtimber Well	69	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin red pine, removing approximately 1/3 of overall volume with focus being on forked, suppressed and/or otherwise poorly formed individual 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 /2023</p>										
116 61233116-Cut	11.2	42110 - Planted Red Pine	Sawtimber Well	59	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin red pine to more appropriate stocking levels by removing approximately 1/3 of overall volume, focusing removal on forked, suppressed and/or otherwise poorly formed trees. If possible, protect pockets of advanced sugar maple regeneration.</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 /2023</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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117 61233117-Cut	23.1	42110 - Planted Red Pine	Poletimber Well	59	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin red pine, removing approximately 1/3 of overall volume with focus being on forked, suppressed and/or otherwise poorly formed individual trees. In addition, remove all stressed/dying trees within and surrounding dieback pockets in SW and NE lobes of stand. Consult with forest health to determine buffer of these areas for pre-salvage purposes.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

120 61233120-Cut	6.1	42110 - Planted Red Pine	Sawtimber Well	59	141-170	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription Mark to leave 20-30 BA of good quality red pine throughout stand in an attempt to shelterwood the advanced regen present while also retaining a seed source for red pine regeneration to continue.

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

Acceptable Red pine, norway spruce, black cherry, red maple, white pine and honeysuckle.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

124 61233124-Cut	12.3	42110 - Planted Red Pine	Poletimber Well	59	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin red pine to more appropriate stocking levels by removing approximately 1/3 of overall volume with focus being on forked, suppressed and/or otherwise poorly formed trees. In addition, remove stressed/dying trees within and around dieback pocket in south-central portion of stand. Consult with forest health on how much of a buffer of this pocket should be in place for pre-salvage purposes.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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
130 61233130-Cut	4.2	42110 - Planted Red Pine	Sawtimber Well	81	141-170	Harvest	Seed Tree with Retention	42211 - Natural Red Pine, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Seed tree stand by retaining approximately 10-40 sq ft of good quality red pine throughout treatment area. Do not retain any red pine in and/or around dieback pocket in north along Thompsonville rd. Attempt to protect advanced regen present when possible during harvest operations.</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> Red pine, red maple, black cherry, beech, white pine and sugar maple.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 278.6

Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant : Examiner

Compartment: 233

Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
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Dominant Site Conditions

				2B	4A	5B	5C	1A	2G	2H	3J		
284	206	7	70	Aspen									
1	1	0	0	Bare/Sparsely Vegetated									
80	77	3	0	Herbaceous Openland								3	0
15	15	0	0	Jack Pine									
51	50	0	0	Low-Density Trees								0	0
145	10	0	135	Lowland Aspen/Balsam Poplar									
34	0	0	34	Lowland Conifers									
53	0	0	53	Lowland Deciduous									
6	0	0	6	Lowland Mixed Forest									
36	36	0	0	Lowland Shrub									
13	13	0	0	Marsh									
19	19	0	0	Natural Mixed Pines									
148	60	59	29	Northern Hardwood								11	5
21	21	0	0	Planted Mixed Pines									
332	288	44	0	Red Pine									44
19	17	2	0	Upland Shrub								2	
21	21	0	0	Urban									0
6	5	0	1	Water									1
117	32	85	0	White Pine								22	63
1,400	872	200	328	Total Forested Acres								37	5
	62%	14%	23%	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	3J: Water quality / BMPs (stream, river, or lake)	73	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Area is a combination of lowland and upland, but contains many seeps, springs and creeks which form one main tributary to the Betsie River, and generally sensitive soils.							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant : Examiner

Compartment: 233

Year of Entry: 2024

2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Site condition complex is combination of lowland and upland ground - contains many springs, seeps and small water courses both annual and perennial, and generally sensitive soils throughout much of area.							
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: No vehicle access, surrounded by PVT and the Betsie River.							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	139	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Area of site condition complex is generally quite wet with the exception of some edge areas. Even in dry summer conditions, this area contains heavy, sensitive soils that are prone to rutting and compaction. Adequately frozen conditions are uncommon at this time.							

Report 4 – Site Conditions

Traverse City Mgt. Unit

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Compartment: 233

Year of Entry: 2024

7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand area is wet with some seasonal flow heading in a northwesterly direction.							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lowland area, heavy muck soils and some standing water throughout.							
9	Available	2B: Unknown if access through adjacent landowner(s) is possible	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments: No legal access.							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: There is potential for harvest in dry summer or frozen winter conditions throughout portions of this site condition area.							
12	Available	5B: Maintain for regeneration purposes	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant : Examiner

Compartment: 233

Year of Entry: 2024

13	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5B: Maintain for regeneration purposes	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant : Examiner

Compartment: 233

Year of Entry: 2024

19	Available	4A: No Markets Available for these Forest Products	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is too small and isolated for a harvest at this time. The stand can and should be combined with another nearby stand for a sale.							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	1A: Federal/State/Local Law	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Natural Rivers Act							



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
Unspecified Comments	Concentrated Recreation Area	Rail-Trail Corridor	SCA	33



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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
1	4115 - Y.Birch, Hemlock NH	Poletimber Well	12.6	77	81-110	N/A	Upland with lowland pockets and areas throughout. grown over trail leads to small homestead/foundation near River in central portion of stand. Sensitive soils throughout with many springs and seeps present especially closest to river. Scattered large red oak present providing good mast source, lots of wildlife activity. Featured hemlock in overstory and sub-canopy - it is intermediate in canopy but variable diameter warrants inclusion in both categories.																																											
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2	500 - Water	Nonstocked	5.3			No	Betsie River																																											
3	4110 - Sugar Maple Association	Sawtimber Well	14.3	110	111-140	N/A	Stand treated with a selection cut last entry period. quality is fair with much of the residual having epicormic branching and some decay in upper canopy, quality and stocking is better in Northern portions of stand where sugar maple poles and smaller logs of decent quality are more numerous. ash canopy trees have completely died out of stand. lots of cwd on ground throughout with much of the understory occupied by dense beech and ironwood. ba is at middle of 110-140 range. natural river concerns, sensitive soils in places, seeps and springs along/near stand edge.																																											
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4	4136 - Aspen, Mixed Conifer	Sawtimber Well	13.2	89	111-140	N/A	Upland with lowland stand mainly within natural river buffer, some steep slopes with springs and seeps as you get closer to Betsie River. Variable sized aspen with poles and some large log sized trees present.																																											
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5	4112 - Maple, Beech, Cherry Association	Poletimber Well	22.9	89	111-140	N/A	sugar maple dominated with other species present. walking trail passes through stand leading to river access. stand slopes generally toward river with some seeps and springs present in Southern portion of stand. several large red oaks within the stand, these are somewhat uncommon in this general area. some large aspen present as well along periphery, mainly near western edge of stand. Cored one average sized sugar maple, it is likely that larger oaks and larger sugar maple present throughout stand are older with potential for multiple ages throughout stand. Recommend leaving stand to grow, potential for thinning portions at some point in the future but topography, access and sensitive soils coupled with natural rivers restrictions limit these opportunities.																																											
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6	4136 - Aspen, Mixed Conifer	Poletimber Well	13.0	89	81-110	N/A	Mixed stand of aspen with red and sugar maple present along with hemlock and cedar. Stand occupies upland area sloping to lowland and rivers edge - seeps and springs present closer to river.																																										
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7	330 - Low-Density Trees	Nonstocked	5.3	0		No	originally was part of stand 14 but no red pine present in this area. scattered deciduous trees throughout along with trace red pine seedlings. Possible old farmstead in SE corner. Trail that bisects stand allows for good access to stand 13.																																										
8	4110 - Sugar Maple Association	Poletimber Well	10.2	105	81-110	N/A	could not access stand and could not get a visual on enough of stand across river to make any accurate calls aside from ba range.																																										
9	4136 - Aspen, Mixed Conifer	Sawtimber Well	4.1	89	81-110	N/A	Mix of upland and lowland - Many springs and seeps present however with standing water in many areas that are generally more hummocky. grown over two-track traverses stand leading to old homestead/foundation in stand 1. Small pocket of planted cedar in southern lobe of stand.																																										
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10	4130 - Aspen	Poletimber Well	6.1	75	81-110	N/A	upland aspen is essentially an extension of stand 24. remainder of stand us lowland with cedar, fir, hemlock, wp, red maple present. n/s creek is the same composition and should be its own stand through this parcel of state.																																										
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11	4110 - Sugar Maple Association	Sawtimber Well	6.2	115	81-110	N/A	small hardwood stand of larger trees on ridge and extending part way down steep slope towards Betsie River. dominated by sugar maple with other deciduous species present throughout. most regen is heavily browsed with the exception of beech. ba is variable.																																										
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12	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	8.2	75	81-110	N/A	Creek, seep and drainage corridors, with flow in a northerly direction. Banks are steep with springs in many areas and soft, sensitive soils throughout.																																										
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13	42110 - Planted Red Pine	Poletimber Medium	3.6	59	111-140	N/A	small red pine stand, mediocre quality. several trees are bent over/leaning, especially around area that was salvaged and is open now. fair amount of natural red pine regen throughout understory along with beech, ironwood and trace maple seedlings. There is a small 1/4 acre patch of planted cedar in the east part of this stand that is fully stocked, same age as red pine. Stand had a first row thinning; then had salvage of heavy storm damage in 2013. Keep an eye out for bark beetle damage.																																										
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14	42110 - Planted Red Pine	Poletimber Well	17.6	27	1-50	N/A	red pine plantation comprised entirely of red pine growing well, in straight n/s rows. 5" average dbh but plenty of trees in the 2-4" range as well as the 6-7" range. height is pretty uniform with average heights being 18-24'. interior trees are beginning self pruning, but for the most part trees are still quite limby and have 1 merchantable stick.																																										
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15	4110 - Sugar Maple Association	Poletimber Well	3.5	34	1-50	N/A	Black cherry and red maple regen, clumpy form but growing fairly well. nannyberry in understory, some scattered muscle wood along with beech and ironwood in places. Just transitioning to pole sized, still a fair amount of saplings sized trees mixed in.																																										
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16	500 - Water	Nonstocked	0.5			No																																											
17	6127 - Lowland Pine	Sawtimber Medium	3.5	120	51-80	N/A	Narrow stand where drainage of stand area to south is concentrated and seasonal flows move generally north, but also appear to flow south at times, depending on season. There is an equalization culvert at north edge of stand that allows water to flow north to betsie river.																																										
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18	6112 - Lowland Aspen	Poletimber Well	15.6	61	81-110	N/A	Lowland aspen, red maple stand with some seasonal seeps and springs along with sensitive soils throughout. Cedar, hemlock and balsam fir evenly scattered throughout stand.																																															
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19	4130 - Aspen	Sawtimber Well	11.3	62	111-140	N/A	good quality Aspen stand with red maple and cherry throughout. generally upland with transition zone at eastern edge along border with stand 22. should be operable throughout year but recommend winter or dry summer conditions. will need access off Springdale or big 4 rds, with culvert and likely Manistee Co permit. recommend final harvesting stand, attempt to expand boundary to the east where merchantable aspen is dominant in stand 22.																																															
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20	4130 - Aspen	Sapling Well	20.6	7	1-50	N/A	Stand is regenerating well, overstory cherry scattered throughout stand area along with some white pine and a few paper birch - birch beginning to deteriorate and fall creating some additional CWD. Cut in summer of 2015 under tsale contract 069-14-01 by Flees Logging.																																															
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21	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.7	105	81-110	N/A	larger diameter hardwood stand dominated by red maple with beech and sugar maple making up a small percentage of canopy. fair quality, significant epicormic branching on many dominant stems. beech regen dominates understory with scattered cherry, ironwood and maple. treated two entry periods ago, canopy gaps that were created are lower stocked and contain mainly beech.																																															
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22	6112 - Lowland Aspen	Poletimber Well	42.3	34	51-80	N/A	generally lowland aspen stand with variable size and stocking. bigtooth is mostly pole sized but there are pockets that are log sized. also some areas where stocking is lower than overall average. black ash is dead or dying. trace cedar throughout in small pockets. lowland indicator species throughout, some areas are hummocky with moss on logs and hummocks. nannyberry quite dense in much of understory. looks like it could dry out in late summer, recommend attempting to dip into stand when stand 19 is set up. if operable portions of stand should be harvested. old east west access from previous harvest runs through stand but is wet and grown over.																																															
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23	6112 - Lowland Aspen	Poletimber Well	2.0	80	1-50	N/A	wetland grass, ferns, marsh marigolds, lots of snags and cwd, flowing water through stand throughout much of year with small creek flowing west to main betsie trib.																																															
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24	4139 - Aspen, Mixed Deciduous	Poletimber Well	6.8	78	81-110	N/A	Aspen red maple stand with cherry throughout, along with trace cedar and firing canopy. generally upland but with lowland indicators in small pockets and some hummocky areas.																																															
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25	6113 - Lowland Maple	Poletimber Well	10.3	78	81-110	N/A	mixed stand of red maple aspen and conifer component of hemlock and cedar. hummocky with standing water at time of inventory. soils are soft, more upland at Southern edge. trace yellow birch, sugar maple and cherry.																																															
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26	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	4.2	65	51-80	N/A	generally lowland with upland incusions. springs and seeps present with some concentrated flows to small creeks. some large cedar present along with hemlock, balsam fir, aspen, red maple and some yellow birch.																																															
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27	122 - Road/Parking Lot	Nonstocked	3.8			No																																																
28	6112 - Lowland Aspen	Poletimber Well	21.1	34	Immature	N/A	Aspen stand with pretty uniform size, variability in stocking. trace white pine throughout, hummocky ground in portions of stand with lowland indicator species present. seems to generally drain in a southerly direction, with the southern area of the stand most influenced by standing water throughout more of the year. typed as pole size but overall is small pole, large sapling.																																															
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29	4136 - Aspen, Mixed Conifer	Poletimber Well	11.6	67	81-110	N/A	mixed multi-part stand with Aspen dominant. upland generally but lowland pockets present along with hummocky ground and some seeps, springs and small creeks forming trib to betsie river that runs n/s through this parcel of state land. black cherry concentrated in eastern parcel of stand. sensitive soils regardless of up/lowland categorization, recommend retaining stand for riparian benefits.																																															
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30	4139 - Aspen, Mixed Deciduous	Sapling Well	7.6	17	Immature	N/A	Aspen with red maple and cherry throughout. scattered balsam fir as well, left at time of harvest. hummocky in places, some ruts from harvest are still visible.																																															
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31	122 - Road/Parking Lot	Nonstocked	0.4			No																																																
32	42100 - Planted White Pine	Poletimber Well	0.6	59	171-200	N/A	thinned white pine plantation with areas of dense understory consisting of white pine, beech, ironwood and mixed hardwood species. ba is variable with an average of 170+ overall.																																															
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33	42200 - Natural White Pine	Sawtimber Well	6.9	105	81-110	N/A	good quality, large diameter white pine with variable sized red maple throughout along with aspen and trace paper birch.. hummocky ground, extensive moss coverage and lowland indicators of nannyberry and blueberry in places. extended stand boundary south, density lessens significantly in this portion.																																															
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34	4130 - Aspen	Poletimber Well	5.3	55	81-110	N/A	decent quality Aspen stand with developed understory of red maple and beech and conifer component of white pine and fir with trace white spruce at edges. consider final harvesting stand, will need access built off big 4 rd through stand 37.																																															
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35	42200 - Natural White Pine	Poletimber Well	5.8	65	111-140	N/A	white pine stand with Aspen scattered throughout along with some red maple. white pine are variable in size but average 8-9". hummocky ground in much of stand with dense moss coverage. areas where standing water persists and other pockets with bracken fern and trace beech saplings.																														
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36	330 - Low-Density Trees	Nonstocked	0.3	0	Unspecified	No	Small opening along PVT line, consists mainly of little bluestem with some white pine and honeysuckle present.																														
37	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	19.1	52	141-170	N/A	Decent quality white pine, pole sized in general with some log sized trees distributed throughout. Aspen is relatively evenly distributed throughout stand, consider expanding stand 34 when that is treated with irregular shaped lobes extending into pockets of this stand that have good concentrations of aspen in order to convert. Retain portions of stand another entry period at least to provide thermal cover and some diversity in an area of compartment that is dominated by aspen and early successional deciduous species.																														
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38	4130 - Aspen	Sapling Well	12.7	17		N/A	Aspen stand regenerating well, good number of stems per acre. Some high water table influence in pockets, mainly concentrated in center of stand.																														
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39	6112 - Lowland Aspen	Poletimber Well	27.3	55		N/A	Took an age on an average sized aspen and counted 54, difficult to determine accuracy of count with faint rings, likely has different age classes of trees from periodic flooding, etc. Lowland in spots with upland pockets and some hummocky ground throughout. At the time stand 43 was set up this stand area was avoided as there was standing water in much of stand during the spring and summer months.																														
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40	6112 - Lowland Aspen	Poletimber Poor	6.7	59	1-50	N/A	lowly stocked aspen stand with white pine scattered throughout along with some jack pine. trace balsam fir present. very hummocky with nannyberry and tag alder throughout, along with extensive moss coverage. cored one aspen for age, stand is likely multi aged.																														
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41	6127 - Lowland Pine	Poletimber Medium	15.3	67	1-50	N/A	mixed stand of variable size jack pine and aspen. hummocky ground with moss coverage in many areas, some alder and other lowland shrubs present including blueberry, leather leaf and nannyberry. concentrated pockets of jp are 4-10" dbh with Aspen ranging from 2-7". canopy closure varies but averages 25%. cored 8" jp at 66 years old, potentially multi aged.																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
42	4130 - Aspen	Sapling Well	19.7	8	Immature	N/A	Stand is regenerating very well with aspen throughout along with black cherry and white pine. Stand was final harvested in 2015 under tsale contract 069-15-01.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		5	Sapling	1					
Bigtooth Aspen		80	Sapling	1	8				
Black Cherry		10	Sapling	2					
White Pine		5	Sapling/Pole	3					
43	4130 - Aspen	Sawtimber Well	1.6	75	51-80	N/A	Small pocket of isolated aspen, doesn't appear to have legal vehicle access for state aside from traversing bog to the south by foot.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole	7		Red Maple	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		95	Log/Pole	10	75	Black Cherry	Medium	5 - 10 feet	Sapling
44	330 - Low-Density Trees	Nonstocked	0.5			No			
45	623 - Emergent Wetland	Nonstocked	12.2			No			
46	622 - Lowland Shrub	Nonstocked	25.7			No			
47	4130 - Aspen	Poletimber Well	3.1	65	51-80	N/A	Isolated upland island of aspen surrounded by bog and lowland stands.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		40	Pole/Log	8		Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Bigtooth Aspen		40	Pole/Log	9	65	Black Cherry	Medium	10 - 20 feet	Sapling
Black Cherry		15	Pole	7					
Red Maple		5	Pole	7					
48	4130 - Aspen	Poletimber Well	16.4	65	81-110	N/A	variable upland/lowland stand of Aspen, other species distributed evenly throughout. more lowland as you move towards eastern edge of stand. potential for harvest closer to big 4 rd. if so final harvest leaving conifers, would need access off big 4. if treatment were to occur avoid wetter areas and areas that are more hummocky.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry		5	Pole	8		Serviceberry (Juneberry)	Low	5 - 10 feet	Tall Shrub
Red Maple		5	Pole	8		Dogwood (spp.)	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen		20	Pole	8		Red Maple	Low	Variable	Sapling
Quaking Aspen		70	Pole/Log	8	65	Balsam Fir	Low	10 - 20 feet	Sapling
49	6127 - Lowland Pine	Sawtimber Well	6.4	105	51-80	N/A	Q-type stand with larger white pine present along with evenly distributed red maple and aspen. Wet in spots, hummocky ground.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		5	Pole	7					
Quaking Aspen		5	Pole	7					
White Pine		90	Log/Pole	12	105				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
50	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	18.9	41	1-50	N/A	small diameter, 2-6" dbh, stunted growth throughout of aspen, jack pine and white pine. hummocky ground in spots, likely standing water in areas throughout spring. ground cover of bracken, moss, winter berry and pockets of blueberry and leather leaf.																																												
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51	4130 - Aspen	Poletimber Well	18.9	65	111-140	N/A	decent quality Aspen stand, large pole/small log in size. typed as pole but could be either. understory is medium stocked with cherry and red maple with scattered witch hazel. recommend final harvesting stand - access will be somewhat challenging but doable, recommend same access point off gloves lake rd as was used for stand 55. will likely need culvert and permit from Manistee Co. at time of harvest, the operable portion of stand 58 should also be included in sale. dry summer or frozen winter conditions needed, buffer bog area to the north an appropriate distance.																																												
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52	6113 - Lowland Maple	Poletimber Well	22.8	102	81-110	N/A	hummocky, mossy ground throughout with some standing water. tree tips ups reveal very shallow roots, mucky soil and high water table.																																												
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53	42110 - Planted Red Pine	Poletimber Well	0.8	59	171-200	N/A	decent quality red pine stand, lightly stocked understory. ba is in the 200 range on average - some defect present, recommend thinning to remove 1/3 of stand volume. small 1/3 acre die back pocket in south center portion for stand, this area should be removed with a small pre salvage buffer around perimeter. checked in fall 2021 by forest health and no HRD was found. follow up treatment could be to final harvest this stand with 131 to the east and replant whole area.																																												
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55	4130 - Aspen	Sapling Well	23.4	17	Immature	N/A	Aspen growing fairly well, dense stocking. cherry and red maple throughout. 3-4" average dbh, large sapling, small pole size.																																												
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56	622 - Lowland Shrub	Nonstocked	2.3			No																																													
58	6112 - Lowland Aspen	Poletimber Medium	30.0	65		N/A	lowland/upland stand, majority of western 1/3 seems more lowland with leather leaf and blueberry, and less aspen present. trace jack pine and balsam fir. eastern 2/3 with the exception of finger is more upland with lowland areas, hummocky ground but seems operable. considering access will be through this stand to stand 51, recommend a final harvest of this stand area where operable, leaving all conifers regardless of size. hummocky ground, avoid wet edges. access will be off gloves lake rd.																																												
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59	4130 - Aspen	Sapling Well	13.8	6	1-50	N/A	regenerating very well following harvest. harvested in spring/summer 2017 under tsale contract 026-16-01 by Caseys Excavating. Scattered red maple, black cherry and white pine were left as residual throughout stand. Big tooth is located mostly along east edge of stand, fair amount of downed aspen, but less than 7" so not captured in CWD sample, not a stand of interest unless needed for age class distribution,																																																	
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60	310 - Herbaceous Openland	Nonstocked	2.2			No																																																		
61	6113 - Lowland Maple	Poletimber Well	12.4	105	81-110	N/A	witch hazel and quaking aspen along south edge of stand where it begins to rise from lowland towards adjacent non-forested stand. Traces of white pine and paper birch throughout.																																																	
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62	42110 - Planted Red Pine	Poletimber Well	3.7	60	171-200	N/A	Small acreage, has not been row thinned as of yet. Recommend first thinning - Could possibly add to sale when aspen to the NW is set up.																																																	
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63	310 - Herbaceous Openland	Nonstocked	5.7																																																					
64	122 - Road/Parking Lot	Nonstocked	1.7	0		No	Road and ROW.																																																	
65	122 - Road/Parking Lot	Nonstocked	1.7			No																																																		
66	4133 - Aspen, Mixed Pine	Sawtimber Well	3.1	80	111-140	N/A	small stand of aspen, some mixed hardwoods and conifers on south facing slope to Betsie River. aspen are generally large as are white pine.. some spring/seeps in SW corner of stand flowing to river. provides access to river, no vehicular access. apparently aquired by Fisheries sometime ago for possible access site.																																																	
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67	42110 - Planted Red Pine	Sawtimber Well	22.4	59	141-170	N/A	good quality stand with decent stocking - average ba is ~170, maybe slightly higher but used the 140-170 range. some defect present, recommend a thinning at this time to remove approximately 1/3 of overall volume. large die back pocket in south central portion of stand. this pocket was looked at by forest health staff and found to not be HRD. remove flagging trees around perimeter of pocket and about a chain buffer to pre salvage die back prior to next treatment.																																							
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68	4110 - Sugar Maple Association	Sawtimber Well	2.0	92	51-80	N/A	remnant patch of hardwood along old railroad grade, low quality with low, variable stocking.																																							
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69	4130 - Aspen	Sapling Well	7.0	27		N/A	Variable stocking in areas of stand, otherwise decent growth on aspen resulting from harvest. Black cherry and red maple are present throughout with BC representing a significant % of canopy in areas of stand.																																							
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70	4110 - Sugar Maple Association	Poletimber Medium	3.5	92	141-170	N/A	scattered large sugar maple and a couple large basswood, with decent quality sugar maple poles and larger saplings throughout remainder of stand. trace cherry at stand edge.																																							
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71	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	16.2	59	201+	N/A	row thinned, stocking is quite high with most ba measurements being 200+. understory in removed rows is quite dense in many areas, dominated by white pine, beech and some pockets of cherry. scattered overstory cherry, red maple and aspen present throughout stand.																																							
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72	310 - Herbaceous Openland	Nonstocked	0.8			No																																								
73	3205 - Mixed Upland Shrub	Nonstocked	16.5			No																																								



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74	4130 - Aspen	Sapling Well	23.8	18	Immature	N/A	regenerating aspen with scattered white pine retained from harvest. aspen and other deciduous species filling in nicely, areas of stand are very dense providing excellent cover for wildlife.																																										
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75	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	4.5	92	51-80	N/A	multi-stemmed poor quality stand of sugar and red maple with trace cherry, beech and white pine present in overstory. lower stocking, providing some nice vertical structure at opening edge.																																										
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76	4130 - Aspen	Sapling Well	19.5	18	Immature	N/A	Aspen regen with scattered residual white line left from harvest. white pine are 8-11" dbh. Aspen is regenerating well, thick understory in spots of sugar maple and white pine.																																										
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77	4112 - Maple, Beech, Cherry Association	Poletimber Medium	1.1	92	51-80	N/A	Multi-stemmed, generally low quality hardwood with ironwood understory that is relatively dense. Stand retained when surround white pine/aspen harvest took place.																																										
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78	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	7.7	105	171-200	N/A	Looks to be an active stick nest in center of stand, lots of coarse woody, larger hemlock sub-canopy provide good vertical structure, some very nice quality larger hemlock. hummocky ground, wet in places - stand includes some transition ground from lowland to upland.																																										
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79	122 - Road/Parking Lot	Nonstocked	1.5			No																																											
80	42100 - Planted White Pine	Poletimber Well	19.3	59	171-200	N/A	thinned white pine plantation with areas of dense understory consisting of white pine, beech, ironwood and mixed hardwood species. ba is variable with an average of 170+ overall.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
81	4130 - Aspen	Sapling Well	8.1	22	Immature	N/A	stand of decent aspen regen. some stocking king variability in spots along with some size variability. overall stand is in the sapling to small pole size range and growing fairly well.		
Canopy Species		% Cover	Size Class	DBH	Age				
Black Cherry		5	Sapling	1					
Quaking Aspen		5	Sapling/Pole	3					
Bigtooth Aspen		90	Sapling/Pole	3	22				
82	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	1.6	75		N/A	Stand almost non-forested, lowland shrub, but enough trees around perimeter to make it forested. Pocket of heavy shrubs in center, wet throughout much of stand area.		
Canopy Species		% Cover	Size Class	DBH	Age				
Yellow Birch		10	Pole	8					
Northern White Cedar		25	Pole	7					
Hemlock		25	Pole/Log	8					
Black Ash		5	Sapling/Pole	6					
Red Maple		35	Pole/Sap/Log	8	75				
						Sub-Canopy Species	Density	Avg. Height	Size
						Dogwood (spp.)	Medium	10 - 20 feet	Tall Shrub
						Alder	Medium	10 - 20 feet	Tall Shrub
83	4130 - Aspen	Sapling Well	10.4	25	1-50	N/A	aspen regen growing well with a few residual white pine scattered throughout stand. some lower, wet ground along western edge of stand.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		5	Sapling	2					
Bigtooth Aspen		90	Sapling/Pole	4	25				
Black Cherry		5	Sapling	2					
84	330 - Low-Density Trees	Nonstocked	8.5			No			
85	622 - Lowland Shrub	Nonstocked	2.7			No			
86	42110 - Planted Red Pine	Sawtimber Well	12.7	58	141-170	N/A	red pine plantation of good quality. some defect present, recommend thinning stand to remove remaining defect and get to appropriate stocking levels. current ba averages ~170. small pocket of aspen near south edge, few black cherry scattered throughout plantation.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		100	Log/Pole	10	58				
						Sub-Canopy Species		Density	Avg. Height
						White Pine	Low	< 5 feet	Sapling
						Black Cherry	Low	5 - 10 feet	Sapling
87	4130 - Aspen	Poletimber Medium	2.4	68	1-50	N/A	old grade runs through stand, small area of aspen regen. (1/4 acre) small opening with bracken fern, Stand area is a mix of species/size that did not fit well with adjacent stands, likely intended as retention when aspen stands were harvested.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		30	Pole	8					
Bigtooth Aspen		40	Pole/Sapling	8	68				
Red Maple		30	Pole/Log	8					
						Sub-Canopy Species	Density	Avg. Height	Size
						Bigtooth Aspen	Low	5 - 10 feet	Sapling
						Choke Cherry	Low	5 - 10 feet	Tall Shrub



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88	42140 - Planted Mixed Pine	Sapling Well	20.7	18	Immature	N/A	red pine looks to be hanging in and growing well, but jack pine competition is significant. pockets of cherry and red maple as well. Stand was planted to red pine in 2006. Regeneration survey done in 2010 and noted that "Red pine is doing very well, putting on good growth. Lots of JP in pockets."																																																						
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89	4110 - Sugar Maple Association	Sawtimber Well	13.3	105	81-110	N/A	Stand harvested under tsale contract 61-067-14. responding well to most recent thinning, good quality overall and not much top dieback to speak of. desirable regeneration is minimal. ba hovers in the 90-100 range.																																																						
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90	310 - Herbaceous Openland	Nonstocked	1.9				State Springdale well 15-15HD.																																																						
91	42110 - Planted Red Pine	Sawtimber Well	20.5	72	111-140	N/A	red pine stand thinned last entry period, growing well and of good quality. stocking is still somewhat low to warrant another entry but possibly the next yoe a final shelterwood harvest could take place.																																																						
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94	310 - Herbaceous Openland	Nonstocked	1.4			No																																																							
95	4119 - Mixed Northern Hardwoods	Poletimber Well	3.5	95	51-80	N/A	Small acreage stand of hardwood species along old rr grade.																																																						
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97	122 - Road/Parking Lot	Nonstocked	2.6			No																												
98	623 - Emergent Wetland	Nonstocked	1.1			No																												
99	330 - Low-Density Trees	Nonstocked	4.1			No																												
100	42110 - Planted Red Pine	Poletimber Well	21.8	61	171-200	N/A	good quality, uniformly stocked red pine stand with very minimal understory. ba averages 170-180. trace red and white pine saplings present in some areas. in southeast portion of stand there are trace aspen and cherry in canopy, in this area beech and white pine are concentrated in understory. recommend thinning stand removing 1/3 of overall volume with focus being on defected trees and other individuals to reach desired stocking. Next YOE might be a good opportunity to restart this stand, adding stand 104 to the south as part of a larger plantation.																											
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101	4110 - Sugar Maple Association	Poletimber Well	2.7	51	1-50	N/A	Not sure on age, carried forward from previous inventory. Stand origin seems to be sugar maple and cherry encroaching on disturbed, open area along rr grade.																											
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104	330 - Low-Density Trees	Nonstocked	28.5			No	spotty pole size black cherry and a few small areas of aspen regeneration, this area was clearcut before state aquired the property several yeears ago																											
106	42110 - Planted Red Pine	Sawtimber Well	16.6	57	141-170	N/A	good quality red pine stand, uniformly stocked with very sparse understory. ba averages is ~170, consider thinning stand by removing 1/3 of overall volume.																											
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107	42110 - Planted Red Pine	Sawtimber Well	47.7	59	111-140	N/A	stand responding well to recent thinning, not quite at stocking levels to thin again. die back pocket in south has expanded quite a bit with dying or recently dead standing trees throughout. White pine and red pine regen levels are pretty significant in SE triangular portion of stand. Stand treated in winter/spring of 2015-2016 by Dan Bundy FP under tsale contract 610491401.																											
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109	310 - Herbaceous Openland	Nonstocked	6.1			No																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
110	4110 - Sugar Maple Association	Poletimber Well	1.3	75	51-80	N/A	small hardwood stand with black cherry and sugar maple. think ironwood understory and intermediate canopy. was called uneven aged at time of inventory so age is an estimate,																																								
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111	42110 - Planted Red Pine	Sawtimber Well	29.3	69	141-170	N/A	good quality red pine stand with relatively open understory. some red pine and beech regen along with pockets of ironwood near hardwood inclusions. some jack pine regen near where jp strip was removed. ba averages ~160 with some slightly higher pockets as well as areas with a bit lighter stocking. consider thinning one more time then cutting and replanting.																																								
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114	42100 - Planted White Pine	Poletimber Well	27.8	59	171-200	N/A	White pine of fair quality, typical of plantation origin. Dense white pine seedling/understory component has advanced to sapling size with heights ranging from 5-10' and of decent quality. Could treat with shelterwood harvest to release advanced regen, realizing the risk that much of regen would likely be damaged during sale operations and weevil damage will likely affect quality of regeneration as it advances. Could also retain but understory will continue to be a difficult stand dynamic to deal with.																																								
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115	4110 - Sugar Maple Association	Poletimber Well	5.4	91	81-110	N/A	Small hardwood stand, decent quality sugar maple throughout. Variable sized ironwood component is significant. Could thin when adjacent red pine is thinned or make available for a fuelwood cut.																																								
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116	42110 - Planted Red Pine	Sawtimber Well	11.2	59	171-200	N/A	Decent quality red pine stand, dense white pine regen in much of understory in south and eastern portions of stand, remaining understory is lightly stocked with some areas of dense honeysuckle. Sugar maple regen of good quality along eastern edge of stand near road. Some variability in stocking and quality in SW stand area - overall BA averages ~190 sq ft, recommend thinning stand now and see how advanced regen responds. Consider replanting stand area next YOE in combination with other nearby plantations, depending on regen survival. Remove slightly more than 1/3 of overall volume with focus being on forked, defected and otherwise poorly formed trees.																																
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119	122 - Road/Parking Lot	Nonstocked	2.7			No																																	
120	42110 - Planted Red Pine	Sawtimber Well	6.1	59	141-170	N/A	Fair quality, small acreage red pine stand however a large pocket of mortality exists in northern portion of stand and some mortality and stressed trees present in SW area of stand. Norway spruce, common juniper and scotch pine all present in trace amounts. Could steer stand towards a more open, natural feel and allow whatever regen is present to hopefully advance and fill in. Not a candidate to replant due to small size but with presence of red pine in understory it will likely remain a component in the future. Stand was harvested under tsale contract 039-14-01 in summer of 2016 by Dan Bundy Logging.																																
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121	42220 - Natural Jack Pine	Sapling Well	2.0	16	Immature	N/A	Jack pine naturally regenerating with red maple and trace other deciduous species throughout.																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
123	4110 - Sugar Maple Association	Poletimber Well	11.0	95	111-140	N/A	Multi-part hardwood stand with fragments of adjacent white pine included in stand area and canopy component. Sugar maple is variable sized with some decent quality trees throughout. Black cherry is clumpy with some good quality stems present. No legal access to this 40 acre parcel of state land, consider disposal?																																														
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124	42110 - Planted Red Pine	Poletimber Well	12.3	59	171-200	N/A	decent quality red pine stand, lightly stocked understory. ba is in the 200 range on average - some defect present, recommend thinning to remove 1/3 of stand volume. small 1/3 acre die back pocket in south center portion for stand, this area should be removed with a small pre salvage buffer around perimeter. checked in fall 2021 by forest health and no HRD was found. follow up treatment could be to final harvest this stand with 131 to the east and replant whole area.																																														
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125	42100 - Planted White Pine	Poletimber Well	21.6	61	171-200	N/A	wp plantation has not been thinned due to access issues. fair quality with hardwoods mixed in in spots and so e variability in stocking. size class is pole/log with stand moving towards log size.																																														
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128	310 - Herbaceous Openland	Nonstocked	2.5			No																																															
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130	42110 - Planted Red Pine	Sawtimber Well	35.1	81	141-170	N/A	stand responding well to recent treatment, good quality overall. small pocket of die back along thompsonville rd, all concentrated east of powerline row. consider thinning bulk of stand one more time, and final harvesting area east if powerline with the exception of 10-30 ba of red pine south from die back area. this would remove the dieback area and allow some of the advanced regen of red pine and cherry to grow.																																														
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Stand was harvested in spring of 2016 by Dan Bundy Logging under tsale contract 039-14-01.																																																					
131	42110 - Planted Red Pine	Poletimber Well	12.8	59	171-200	N/A	fair quality red pine stand with hardwood component scattered throughout and concentrated in pockets. overall ba is slightly variable but averages 170-180. hardwood understory is much more concentrated in western 1/3 of stand, could consider thinning eastern portion and maybe shelterwood harvesting western area to release regen. typed stand as poke sized, right on the cusp of getting to overall log sized.																																														
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132	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.9	69	111-140	N/A	traces of elm, some good quality sugar maple stems, concentrated in areas while red maple is slightly more dominant throughout stand. understory is dominated by ironwood for the most part put there are some pockets of maple regen. could consider marking to thin and include with nearby red pine?																																					
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133	622 - Lowland Shrub	Nonstocked	5.0			No																																						
134	310 - Herbaceous Openland	Nonstocked	2.8			No																																						
135	330 - Low-Density Trees	Nonstocked	2.8		Unspecified	No	portion of stand in east is more open, added northern strip of low density trees this entry period.																																					
136	42220 - Natural Jack Pine	Sapling Well	6.9	16	1-50	N/A	jack pine regenerated well with some red pine saplings present throughout, creating fully stocked jack pine stand with scattered overstory red Pine retained from harvest.																																					
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137	122 - Road/Parking Lot	Nonstocked	1.0			No																																						
138	122 - Road/Parking Lot	Nonstocked	0.7			No																																						
139	42110 - Planted Red Pine	Sawtimber Well	34.8	73	111-140	N/A	Responding fairly well to most recent thinning, some mortality and some stressed trees near die back pockets. Higher water table in SE corner of stand, this area can seasonally flood which may be leading to dieback in this portion of stand. Wet pocket in northern piece of stand, aspen and deciduous species around perimeter.																																					
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140	4112 - Maple, Beech, Cherry Association	Poletimber Medium	2.6	95	51-80	N/A	bermed two track on old rr bed, mixed hardwood filling in. if surrounding red pine is restarted this stand should be retained to provide some visual relief.																																					
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142	122 - Road/Parking Lot	Nonstocked	1.8			No																																						



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143	6126 - Lowland Jack Pine	Poletimber Medium	5.8	51	51-80	N/A	natural jack pine stand with aspen distributed evenly throughout. mossy, humkocky soils in understory, with nannyberry throughout along with bracken, blueberry and some leather leaf.																							
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144	790 - Other Bare/Sparsely Vegetated	Nonstocked	1.3	0		No	Well site, previously not mapped and was included with stand 59.																							
145	310 - Herbaceous Openland	Nonstocked	2.4	0		No	Road r.o.w and small opening adjacent to oil and gas facility.																							