



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61053

Entry Year 2017

Acreage: 3,146

County Grand Traverse

Management Area: Boardman Plains

Revision Date: 2015-05-27

Stand Examiner: Pat Ruppen

Legal Description:

: T26NR9W sections 19, 20, 21, 22, 23, 24

Identified Planning Goals:

This compartment is part of the Boardman Plains Management Area(MA). Vegetative management in this management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character including the Boardman River (a designated natural river) and the Sand Lakes Quiet area (a designated high conservation value area), threatened, endangered and special concern species; 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.

This compartment falls within land-type associations (LTAs) 2221, 5111, and 5549 of sub-subsection VII.2.2. LTA 2221, characterized by broad moraine ridges, few or no lakes, and well drained sand, occurs in the southeastern portion of the compartment. Circa 1800, 91% of the LTA supported northern hardwood forests of American beech and sugar maple. Wetlands were forested with various types of lowland conifers. The LTA has become quite fragmented with 19% consisting of various types with less than 5% cover. Cropland, now the most wide spread cover type, occurs on about 29% of the LTA with old fields occurring on another 13%. Pine forests, which occurred on only about 2% of the LTA circa 1800, now cover 20%; these are largely plantations. Northern hardwood forests also occur on 20% of the LTA, however this represents a significant reduction compared to circa 1800 acreage. LTA 5549, which occurs just along the northern edge of section 20, is a narrow outwash channel with very poorly drained peat and muck. Circa 1800, conifer swamps were the most common type (60%) in LTA 5549, with an additional 7% in hardwood/conifer and hardwood swamp. An additional 14% supported upland conifer types, including xeric jack pine and jack pine/red pine forest, as well as more mesic hemlock/white pine forest. Current land cover of LTA 5549 is a mosaic of lowland conifer, hardwood, shrub, and emergent swamp. LTA 5111, which occurs in the remainder of the compartment and is the dominant LTA, is a broad flat outwash plain with excessively drained sand and few lakes. LTA 5111 occurs in the southern three-quarters of the compartment. This LTA is a broad flat outwash plain with few kettle lakes and excessively drained sand. The circa 1800 vegetation of this LTA was variable but dominated by fire-dependent conifer forests, e.g. jack pine, red pine/white pine, and pine or oak/pine barrens. Calibri (Body) The LTA has become quite fragmented and 27% of its area supports cover types with less than 5% individual cover. Although 42% of the LTA still supports pine forests, much of this is red or jack pine plantation. Aspen/white birch forest, a type that did not occur here at the time of the General Land Office survey, now occurs on 14% of the area. Finally, second-growth northern hardwoods occur on another 8% of the LTA. GLO surveyors frequently reported the occurrence of large wildfires within LTA 5111. These fires were among the largest in the state, covering several square miles. Wind-throws, sometimes in combination with wildfire, were often reported.

Several specific forest man

Soil and topography:

Rubicon-Rose lawn and Roscommon Sands with Rifle Peat and Lupton Muck along creeks. Compartment is flat to gently rolling with steeper slopes along entrenched streams and a few widely scattered ice block depressions.

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

State and private lands are intermingled within the compartment. Land in all directions surrounding compartment is mostly state ownership. Private holdings are generally rural in nature.

Unique Natural Features:

Twenty-two Creek traverses the compartment and a branch enters the ground with considerable flow just south of the compartment. A branch of Carpenter Creek jogs in and out of the north side of the compartment. A high quality managed barrens area exist in Section 22. A large number of special plants, animals and natural communities occur within this LTA and potentially within this compartment.

Archeological, Historical, and Cultural Features:

None known, but a historic Native American trail crosses the adjacent compartment to the west.

Special Management Designations or Considerations:

Beaver activity and deer winter yarding around creeks. Managed high quality Barrens Area is Section 22

Watershed and Fisheries Considerations:

Both Carpenter Creek and Twenty Two Creek flow through this compartment. Both of these streams are designated trout streams with populations of naturally reproducing brook trout and brown trout, and are part of the State Designated Natural Rivers system (Boardman River). The Natural Rivers vegetative buffer for Twenty-two and Carpenter Creeks on State land is 100 feet. Beaver activity is common in both Twenty-two Creek and Carpenter Creek. Excessive beaver activity will degrade the natural flow dynamics of these streams, and should not be encouraged by final harvest activities in riparian areas.

Wildlife Habitat Considerations:

Most of compartment 53 consists of a dry sandy outwash plain (LTA 5111). The sandy soil found here was often the setting for large wildfires. These fires sustained a variety of fire driven communities, mainly conifer forests at the time of the GLO surveys. Present habitat types include upland mixed stands of pine/oak/aspens of various ages interspersed with a few openings, upland brush, natural pine, and several oak communities. Timber harvests should be designed to mimic wildfires of various intensities, when possible. Several aspen, oak, and pine stands will have cutting prescriptions this entry period and will utilize white pine and oak as residuals. The creation of dead and down logs will also be included in some sales. Standing dead timber is usually left during harvest operations unless deemed a safety hazard. Several openings are scheduled for hand felling to set back woody encroachment, leaving scattered mast producing shrubs/trees. A large portion of this landscape will be burned post-timber harvest. By employing a large scale fire on the landscape the hope is to restore a mosaic of natural pine, oak, aspen, and non-forested habitats like oak/pine barrens or savannas. Some species found in these early to mid-successional communities include: white-tailed deer, ruffed grouse, eastern bluebird, smooth green snake, long-tailed weasel, and red-tailed hawk. Also, many endangered, threatened, or special concern species can be found in these fire maintained ecosystems. Twenty-two Creek runs through this sandy outwash plain. A narrow strip of lowland conifers and lowland brush are found along the creek bottom and create a valuable riparian corridor through an otherwise dry landscape. A small tributary of Carpenter Creek also makes its way into the compartment.

The east end of the compartment consists of broad rolling moraine ridges of dry sand. Several pine plantations are mixed with stands of oak, aspen, and northern hardwoods. Several deciduous stands are scheduled for treatments of various types. The final harvest of aspen should incorporate the protection of fruiting shrubs and the creation of coarse woody debris. The remaining thinning and selection cuts should result in a nice mix of tree species that will maintain or enhance habitat diversity. Standing dead timber is usually left during harvest operations. One opening, as well as a similar opening adjacent and south of Mayfield Road, will be burnt to stimulate the abundant little bluestem that is already present. Seeding native wildflowers into these openings should make a nice "showcase" treatment along Fife Lake Rd. This matrix of mixed upland deciduous and grassy openings will benefit badger, wild turkey, scarlet tanager, hog-nosed snake, ruffed grouse, Cooper's hawk, red-backed salamander, and gray squirrel.

Mineral Resource and Development Concerns and/or Restrictions

: Sections 19 - 24, T26N-R9W, Grand Traverse County. Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and minor end moraine of coarse-textured till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. The Coldwater does not have a current economic use. The nearest gravel pit is located one mile to the east and there should be potential, especially the uplands. This area is located along the south edge of the prolific Niagaran reef trend. Most of the Compartment is leased and some Niagaran potential may exist. The Antrim Shale has not been developed in this area and may be too deep.

Vehicle Access:

Access is generally good via county roads-Fife Lake Road, Boardman Road, Mayfield Road and Carpenter Creek Road. There are also a number of two tracks that traverse the compartment.

Survey Needs:

Section 23. Timber trespass. NW corner of private 80 must be located. Section 20. State Lands posted around private 40 NESW.

Recreational Facilities and Opportunities:

A variety of trail opportunities are offered in this compartment. The motorized trails include: the Grand Traverse Motorcycle Trail, Michigan Cross Country Cycle Trail (MCCCT), and Snowmobile trail #55 (Grand Traverse Snowmobile Trail). Non-

motorized recreational opportunities include the Shore to Shore Riding and Hiking Trail, and sections of the North Country National Scenic Trail. Trail protection specifications should be considered for all these trails. Specifically, guidance provided by Policy and Procedures document "32.22XX Best Management Practices for Forest and Wildlife Management Adjacent to Recreational Trails" should be followed. In addition, guidance provided in the "Logging Operations and Horse Events on State Land" should be considered when settling up timber sales that may impact the Shore to Shore Riding & Hiking trail. (T.M.N. 12/9/14).

Fire Protection:

This area is protected by Grand Traverse Fire Battalion # 6 and DNR fire protection is from the Traverse City Unit. Access to most areas in the compartment is adequate and there has not been significant recent wildfire activity.

Additional Compartment Information:

The following reports from the Inventory are attached:

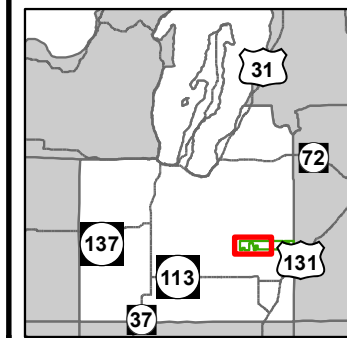
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

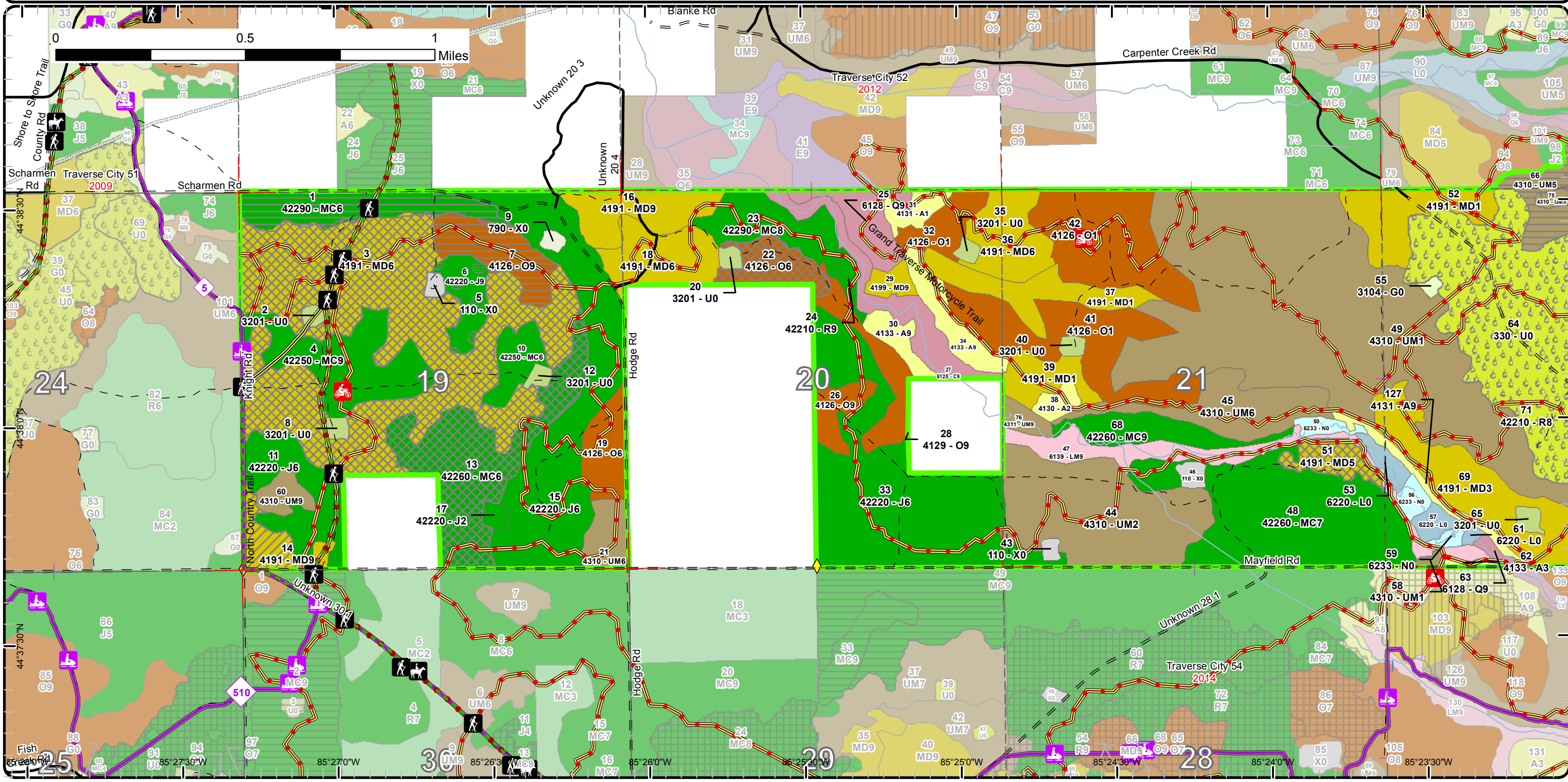
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments

Compartment: 53
 T26N R09W 19-24
 Grand Traverse
 Unit: Traverse City
 Mgmt Area: Boardman Plains
 YOE: 2017
 Acres: 3146 GIS Calculated
 Examiner: Pat Ruppen
 Map Revised: 7/13/2015
 Map Phase: Pre-Review

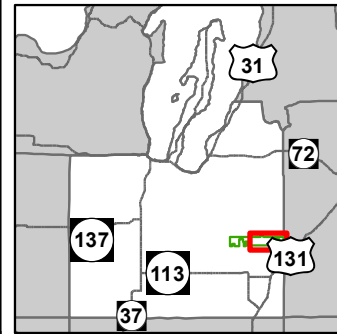


- Remonumented Section Corners
- Survey Grade GPS Corners
- Miris Corners
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Designated Hiking Pathways
- Designated Equestrian Trails
- ORV License & Trail Permit
- Motorcycle Trails (DNR License)
- Hiking Trails
- Horse Trails
- Snowmobile Trails
- Culverts
- Rivers
- Lakes
- Pipeline
- Patch/Strip Cut (Femelschlag)
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Prescribed Burn
- Opening Maintenance
- Thinning (Crown, Low, Systematic)
- 623 - Emergent Wetland
- 790 - Other Bare/Sparsely Vegetated
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Fores
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub

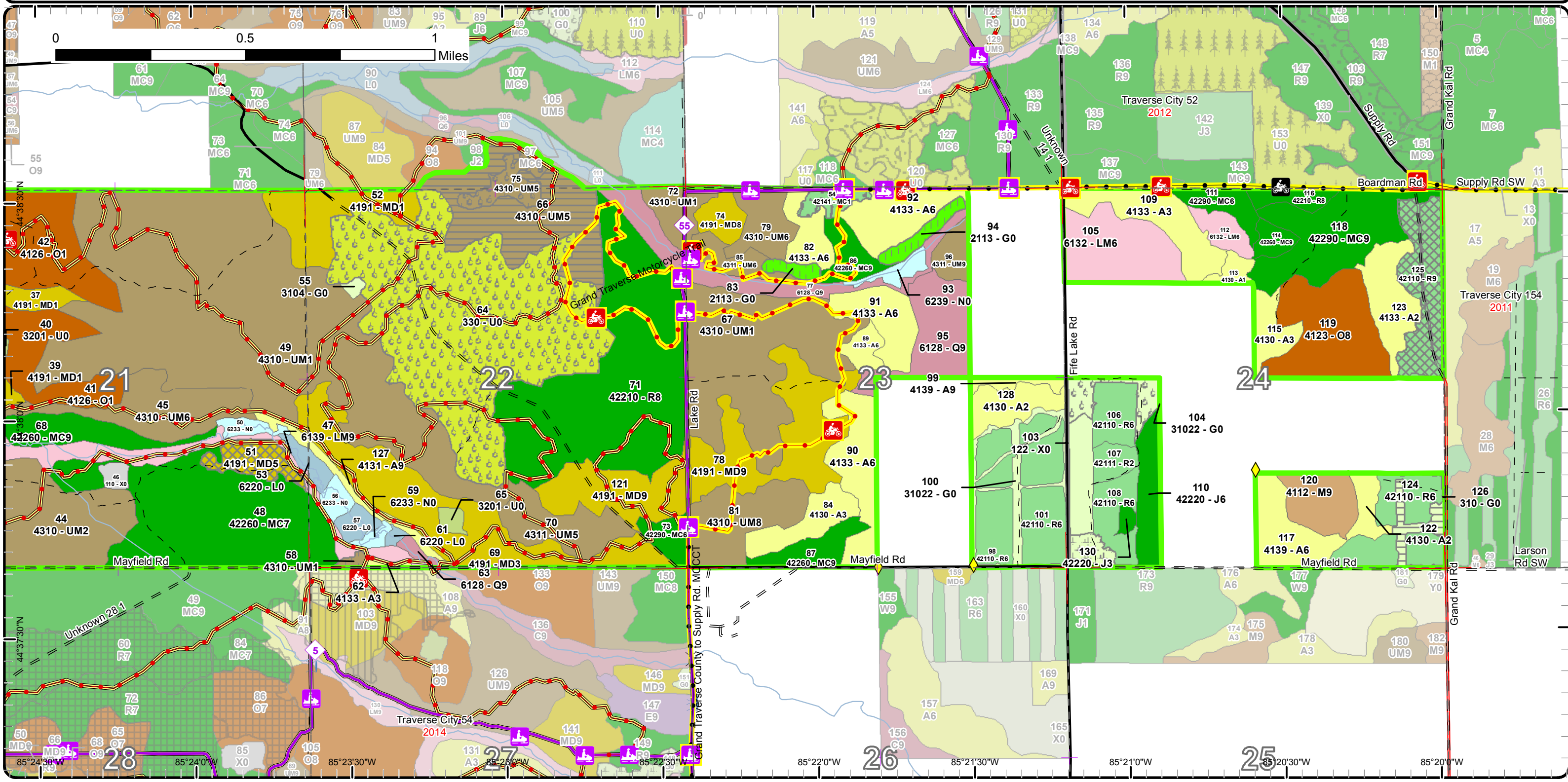


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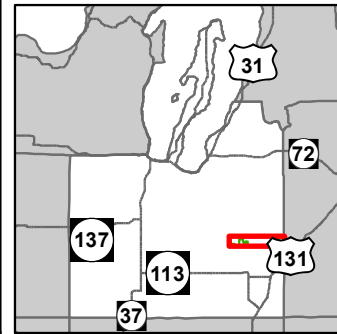
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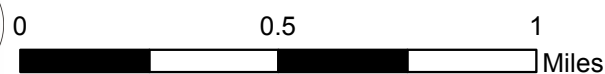
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- ORV License & Trail Permit
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- Selection (Group, Single Tree)
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- Regeneration Survey
- Forest Covertype**
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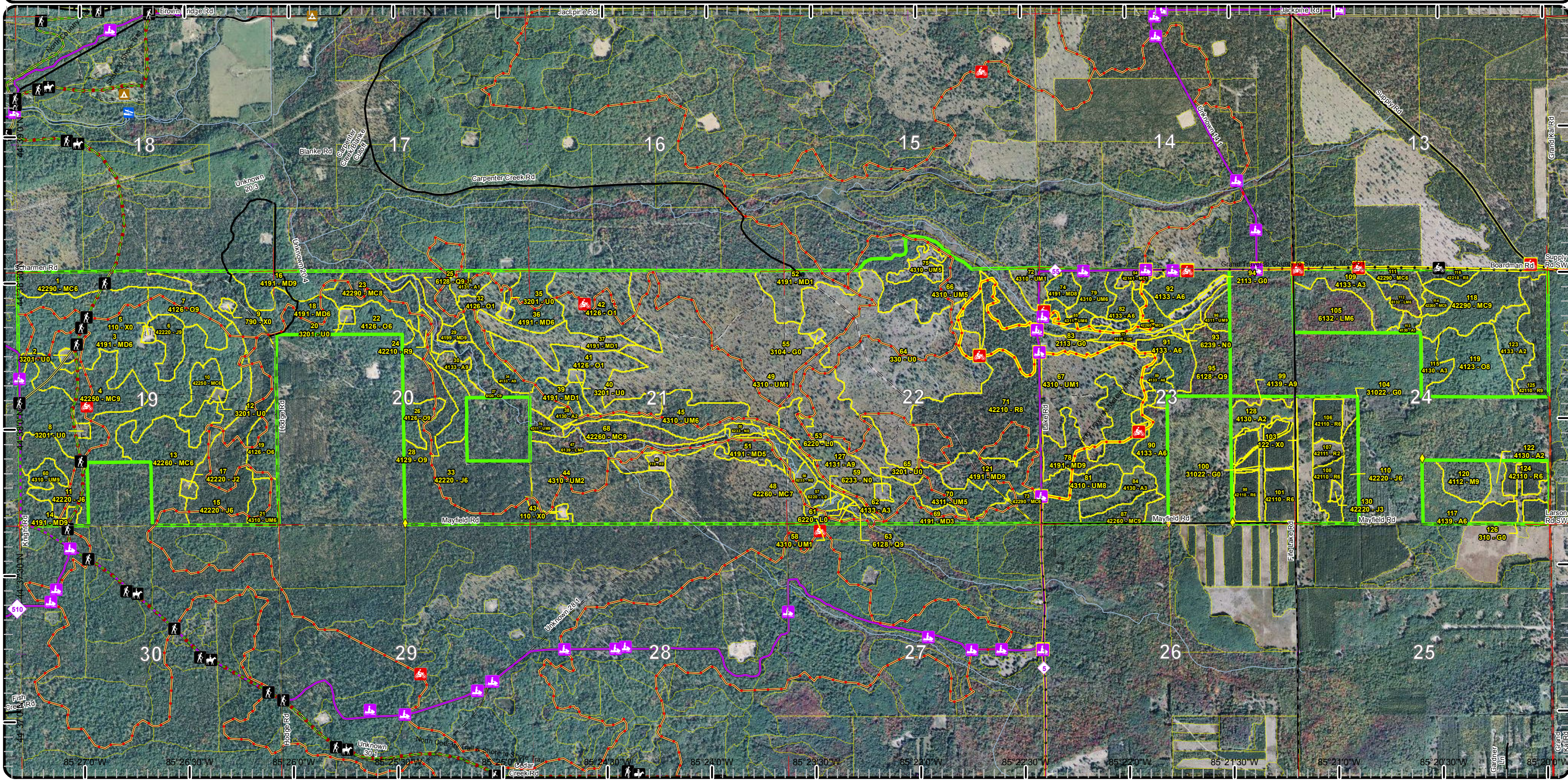
Stand Boundary Map



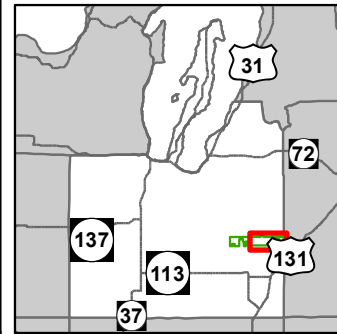
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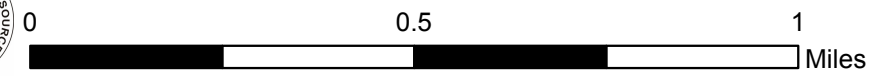
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 - MCCCT Trails
 - Ski Trails
 - Snowmobile Trails
 - Bridges
 - Culverts
 - Boating Access Site
 - Campground
 - Parking Lot
 - Trailhead
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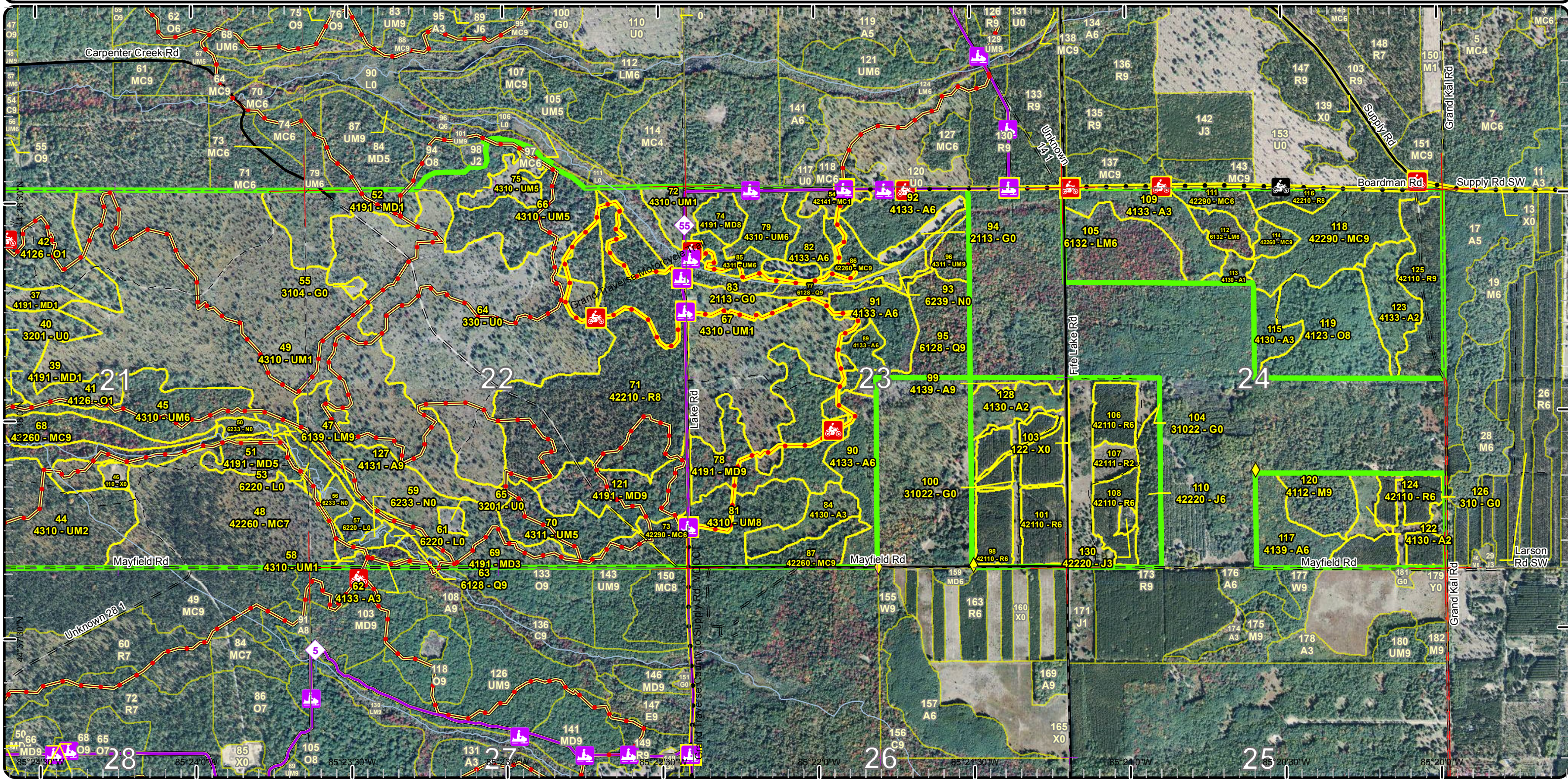
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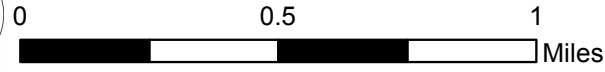
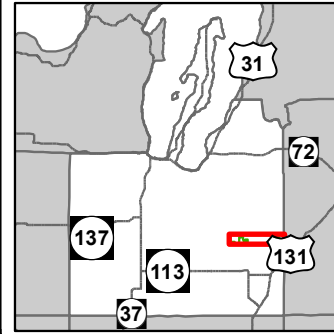


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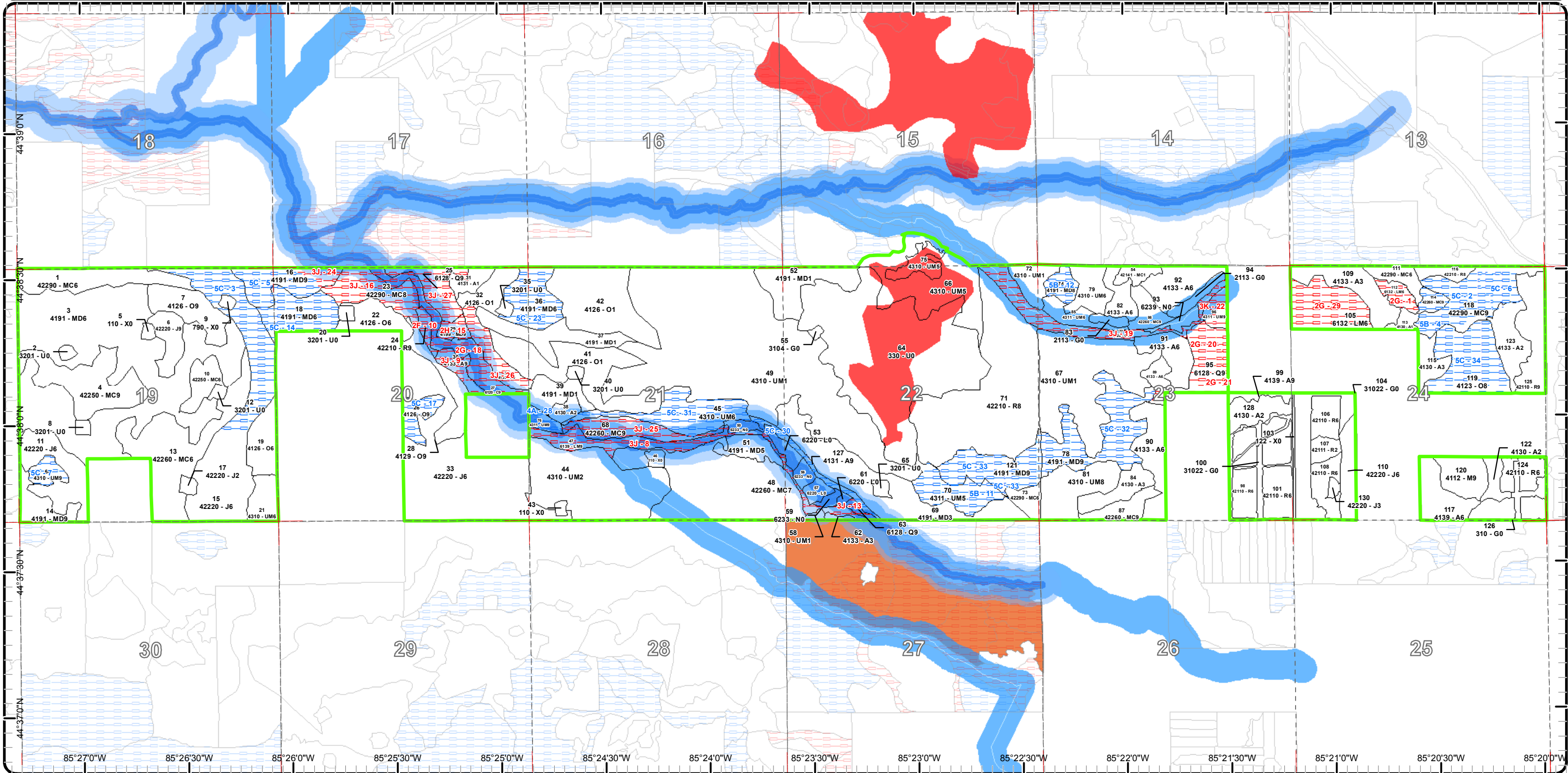


Special Conservation Areas & Site Conditions Map

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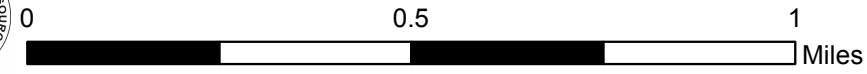
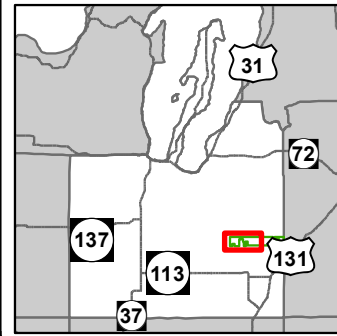


- Miris Corners
- Stand Boundaries
- Site Condition
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
- 2F: Too steep
- 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)
- 3K: Rare or unique landforms
- Special Conservation Areas
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Other Habitat Area

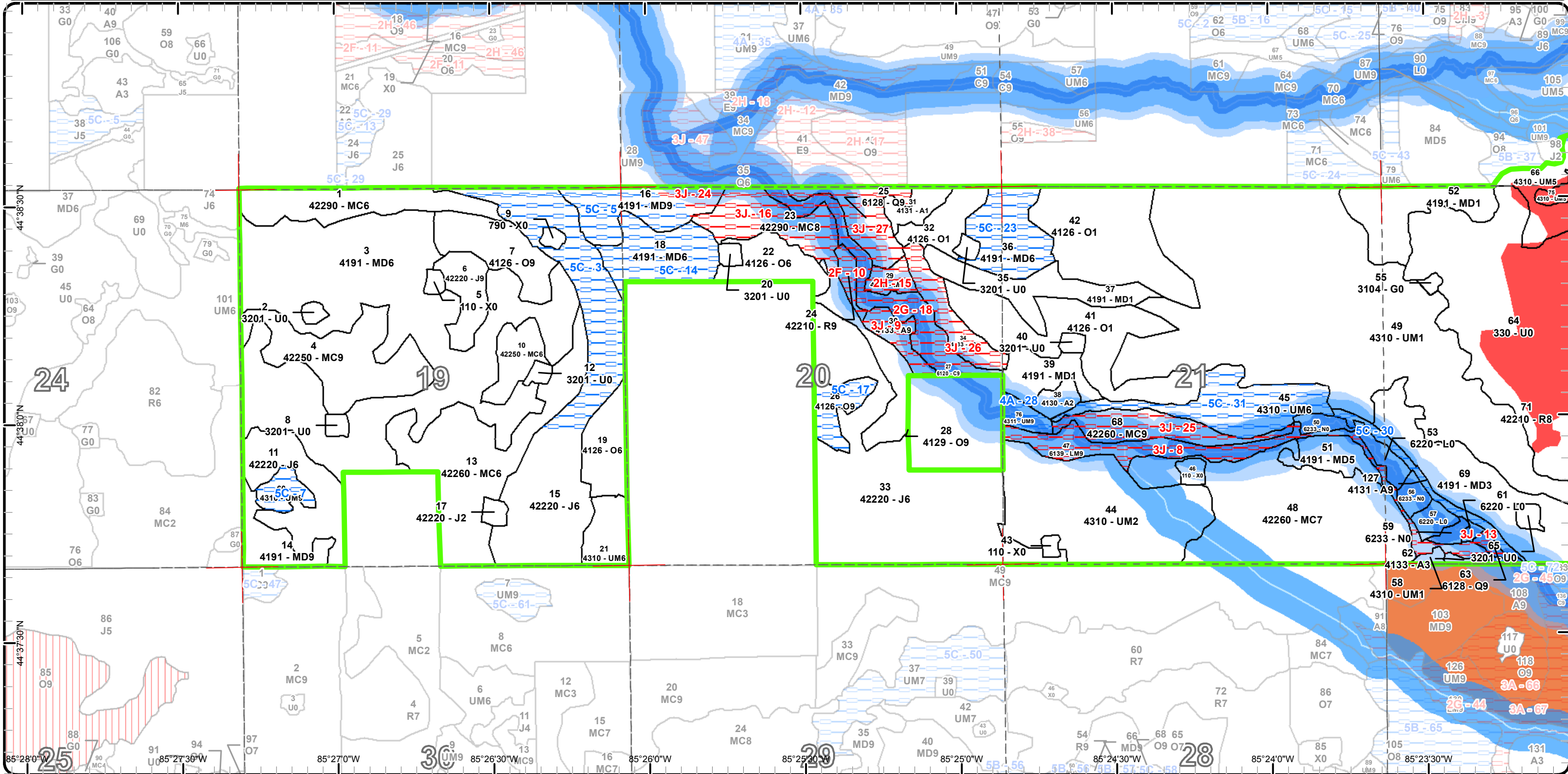


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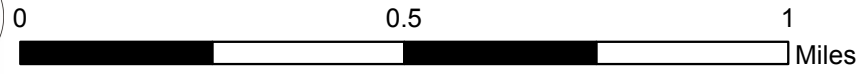
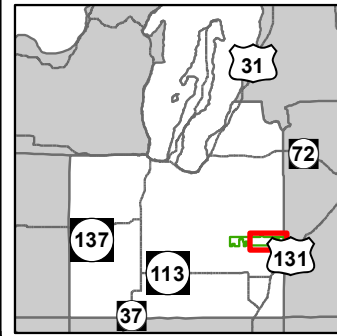


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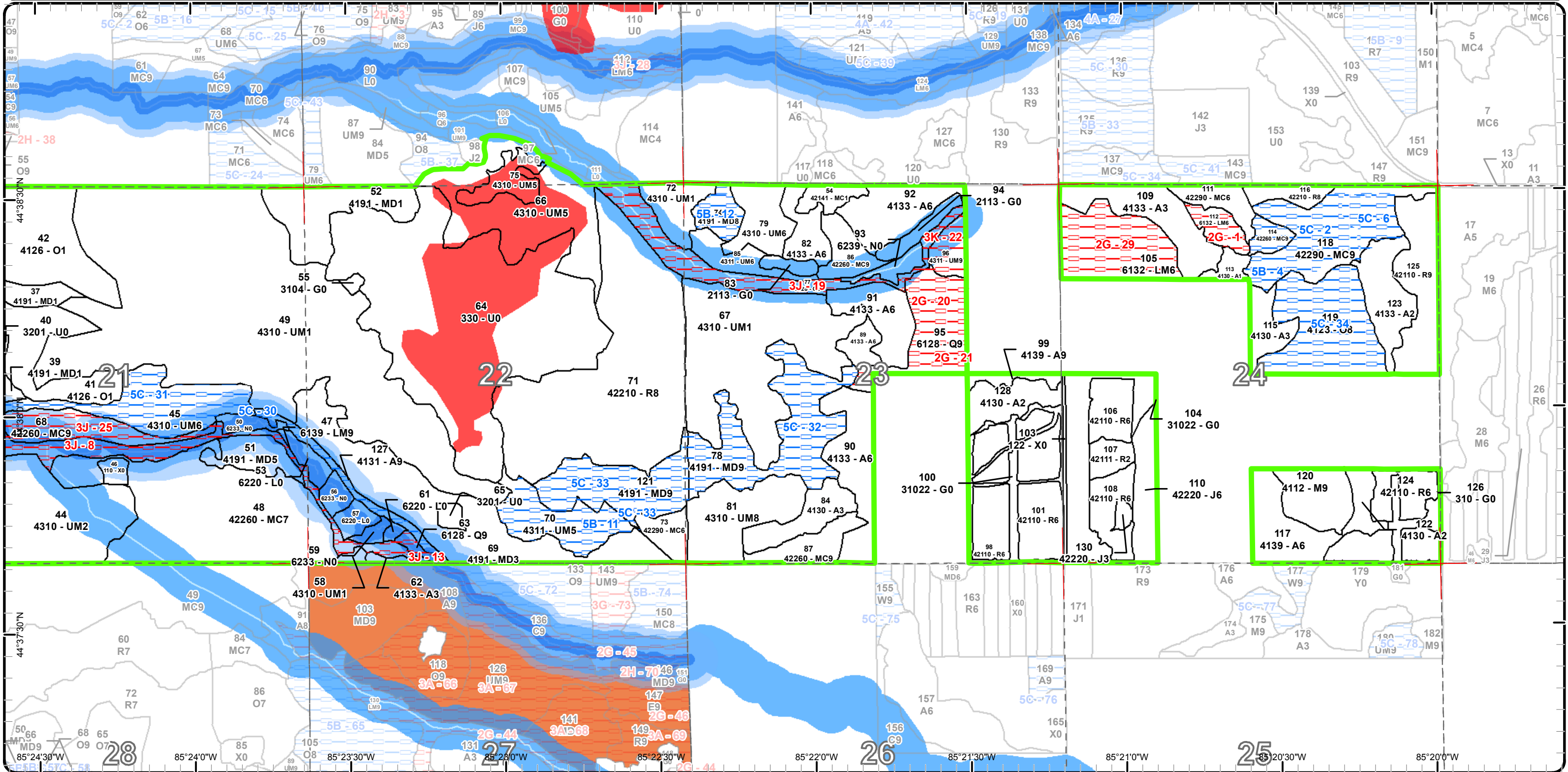


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	67	5	36	0	56	0	0	57	28	0	0	0	0	0	0	0	0	249
Bare/Sparsely Vegetated	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	26
Cropland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Herbaceous Openland	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Jack Pine	0	2	0	3	0	0	15	249	0	0	0	0	0	0	0	0	0	16	285
Low-Density Trees	183	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	183
Lowland Conifers	0	0	0	0	0	0	0	0	0	30	29	0	18	0	0	0	0	0	77
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	72	0	0	0	0	0	0	0	0	72
Lowland Shrub	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Marsh	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Mixed Upland Deciduous	0	122	15	0	0	0	202	12	6	0	185	0	0	0	0	0	0	0	542
Natural Mixed Pines	0	0	0	0	0	0	53	148	127	11	0	0	46	0	0	0	0	0	385
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	18
Oak	0	120	0	0	0	0	0	0	0	44	43	17	29	0	0	0	0	0	253
Planted Mixed Pines	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Red Pine	0	0	6	0	0	0	98	0	166	0	0	0	4	0	0	0	0	0	274
Upland Mixed Forest	0	362	2	105	65	10	15	13	5	0	81	0	0	0	0	0	0	0	658
Upland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Total	298	679	28	144	65	66	383	422	361	185	382	17	97	0	0	0	0	16	3143



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2017

Acres of Harvest

Compartment 53
Total Compartment Acres: 3,146

Commercial Harvest - 0
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 251

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	48	0	0	0	0	0	0	0	0	48
Cropland	0	0	0	0	10	0	0	0	0	10
Herbaceous Openland	8	0	0	0	0	0	0	0	0	8
Jack Pine	198	0	15	0	0	0	0	0	0	212
Mixed Upland Deciduous	2	214	0	0	13	0	0	0	0	228
Natural Mixed Pines	79	65	58	8	0	0	0	0	0	210
Oak	43	17	0	0	18	0	0	0	0	78
Red Pine	0	28	0	0	94	0	0	0	0	122
Upland Mixed Forest	67	0	0	0	0	31	0	0	0	98
Total	444	324	73	8	0	134	31	0	0	1014

Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	1014	0	0	0	193	0	19	0	30	1256
Next Step	0	629	266	0	54	0	374	0	0	1324
Total	1014	629	266	0	248	0	393	0	30	2580



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	61053001- Cut_Cut	32.0	42290 - Natural Mixed Pine	Poletimber Well	60	81-110	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	Field Boundary

Habitat Cut: No

Site Condition:

Prescription Retain some well formed oak and pine and harvest remaining stems to regenerate. If possible weave some red pine in after harvest.
Specs:

Next Step
Treatments:

Acceptable jack pine red pine, white pine, oak, red maple, aspen
Regen:

Other Old next step comments: Burn to promote advanced oak regeneration.
Comment:

Proposed Start Date: 7 /31/2014

3	61053003- Cut_Cut	201.5	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	55	51-80	Harvest	Single Tree Selection	4191 - Mixed Upland Deciduous with Conifer	Uneven- Aged	Field Boundary
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Habitat Cut: No

Site Condition:

Prescription harvest all stems to 4" unless green marked retention. If stand is chip harvested trench in a weave pattern and plant red pine in open areas
Specs: avoiding retention and pockets of advanced regeneration.

Next Step
Treatments:

Acceptable red pine, oak, red maple, white pine, aspen, jack pine.
Regen:

Other Old next step comments: This stand is two aged currently. The second age is the old wolfy oak. Removing these large crowned trees should
Comment: promote a new second age.

Proposed Start Date: 7 /31/2014

4	61053004-Cut	45.0	42250 - Pine, Oak	Sawtimber Well	55	51-80	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4319 - Mixed Upland Forest	Two-Aged	Draft Proposal
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Habitat Cut: No

Site Condition:

Prescription Remove jack pine, aspen and poorly formed oak, red maple. Most oak is well formed in stand and should be retained to create oak island within
Specs: surrounding harvest.

Next Step
Treatments:

Acceptable oak, aspen, jack pine, white pine, red pine, red maple.
Regen:

Other Expect new age class to form in gaps. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

6	61053006-Cut	14.6	42220 - Natural Jack Pine	Sawtimber Well	55	51-80	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4122 - Oak, Pine	Two-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Harvest jack pine, aspen, and poorly formed oak/red maple. Manage stand as oak island within surrounding harvest area.
Specs:

Next Step
Treatments:

Acceptable jack pine, white pine, oak, red maple, red pine, aspen.
Regen:

Other Expect new age class to form in gaps. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
7	61053007- Cut_Cut	24.4	4126 - White, Black, N. Pin Oak	Sawtimber Well	95	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Field Boundary

Habitat Cut: No

Site Condition:

Prescription Retain some well formed pine and oak and final harvest remaining stems. If sale is chip harvested trench in a weave pattern and plant red pine
Specs: in gaps after harvest. .

Next Step
Treatments:

Acceptable oak, red maple, jack pine, white pine, red pine, aspen.
Regen:

Other Old next step comments: Open oak. Lots of small oak regen that is getting browsed. WO savannah look. If just opened up would fill in with jp
Comment: wp an d rm so some fire would be needed. Burn 1 year after harvest

Proposed Start Date: 7 /31/2014

10	61053010-Cut	13.1	42250 - Pine, Oak	Poletimber Well	60	51-80	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4122 - Oak, Pine	Two-Aged	Draft Proposal
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Habitat Cut: No

Site Condition:

Prescription Harvest jack pine, aspen and poorly formed oak and red maple. Maintain as oak island within larger surrounding harvest. Expect new age class
Specs: to form in gaps created by harvest.

Next Step
Treatments:

Acceptable jack pine, oak, red maple, white pine, red pine, aspen.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

11	61053011-Cut	32.2	42220 - Natural Jack Pine	Poletimber Well	65	51-80	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Draft Proposal
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Habitat Cut: No

Site Condition:

Prescription Retain some well formed oak and pine and harvest remaining stems to 2" dbh. Require tree length chipping to prep stand for site prep and
Specs: planting.

Next Step SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable red pine, jack pine, white pine, oak, aspen, red maple,
Regen:

Other Trench and plant red pine after harvest. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

13	61053013- Cut_Cut	65.0	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	70	51-80	Harvest	Group Selection	4122 - Oak, Pine	Uneven- Aged	Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Harvest all merchantable except green marked retention.
Specs:

Next Step
Treatments:

Acceptable red pine, oak, white pine, jack pine, red maple, aspen.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 7 /31/2014



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
14 61053014-5-New	1.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	95	81-110	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Draft Proposal

Habitat Cut: No

Site Condition:

Prescription retain some well formed oak and pine and tree length chip harvest remaining stems. Trench and plant red pine after harvest. Treat only south
Specs: east part of stand where stocking is low and understory undeveloped.

Next Step
Treatments:

Acceptable oak, red pine, jack pine, white pine, aspen.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

14 61053014-Cut	12.8	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	95	81-110	Harvest	Crown Thinning	4319 - Mixed Upland Forest	Two-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Remove jack pine and poorly formed oak and red maple to release advanced regeneration forming in sub canopy.
Specs:

Next Step
Treatments:

Acceptable oak, jack pine, white pine, aspen, red maple.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

15 61053015-Cut	46.4	42220 - Natural Jack Pine	Poletimber Well	60	51-80	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Draft Proposal
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Habitat Cut: No

Site Condition:

Prescription Retain some widely spaced well formed oak and pine and harvest remaining stems to 2: dbh. Require tree length chipping to reduce slash and
Specs: prep site for trenching and planting of red pine.

Next Step SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable red pine, jack pine, oak, red maple, aspen, white pine.
Regen:

Other Trench and plant red pine after harvest. Treat with stands 19 and 21 to east. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

19 61053019-Cut	18.2	4126 - White, Black, N. Pin Oak	Poletimber Well	110	51-80	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Draft Proposal
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Habitat Cut: No

Site Condition:

Prescription Retain some widely spaced well formed oak and pine. Harvest remaining stems to 2" dbh and require tree length chipping job to reduce slash
Specs: and prepare site for trenching and planting.

Next Step SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable red pine, oak, aspen, jack pine, white pine, red maple.
Regen:

Other trench and plant with red pine in a weave pattern after harvest. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
21	61053021-Cut	12.9	4310 - Pine, Oak Mix	Poletimber Well	60	81-110	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Draft Proposal

Habitat Cut: No

Site Condition:

Prescription Retain some widely spaced well formed oak and pine and harvest remaining stem to 2" dbh. Require tree length chipping job to prepare site for
Specs: trenching and planting.

Next Step SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable red pine, jack pine, oak, red maple, white pine, aspen.
Regen:

Other trench and plant red pine in a weave pattern after harvest. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

22	61053022-Cut_Cut	17.3	4126 - White, Black, N. Pin Oak	Poletimber Well	100	81-110	Harvest	Single Tree Selection	4129 - Mixed Oak	Uneven-Aged	Field Boundary
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Habitat Cut: No

Site Condition:

Prescription
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 4 /7 /2014

28	61053028-Cut	18.1	4129 - Mixed Oak	Sawtimber Well	95	51-80	Harvest	Crown Thinning	4319 - Mixed Upland Forest	Two-Aged	Draft Proposal
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Habitat Cut: No

Site Condition:

Prescription Remove declining jack pine from stand while harvesting stand 33. Crown thin remaining stems as needed.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Consider ORV trail and NCT. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

33	61053033-Cut	119.0	42220 - Natural Jack Pine	Poletimber Well	65	51-80	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Draft Proposal
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Habitat Cut: No

Site Condition:

Prescription Retain some well formed oak, maple, red pine and white pine. Require whole tree skidding/chipping to prep site for re-planting. Prescribed
Specs: stand to south in adjacent compartment that has not been harvested. Green up concerns? Could mark heavier retention along road

Next Step SitePrep, Trenching; Planting, Initial Plant
Treatments:

Acceptable red pine, jack pine, white pine, oak, red maple, aspen
Regen:

Other Needs survey work to locate private corners. State lands posted around private and corners not found. NE corner was located so maybe others
Comment: are there. ORV and NCT in stand. Retain trees along trail. Old next step comments:

Proposed Start Date: 10/1 /2016



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
48 61053048-Cut	37.8	42260 - Natural Pine, Mixed Deciduous	Sawtimber Poor	65	1-50	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Draft Proposal

Habitat Cut: No

Site Condition:

Prescription Retain some well formed pine and oak and final harvest remaining stems to prepare site for re-planting.

Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant

Treatments:

Acceptable red pine, white pine, jack pine, oak, maple, aspen.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

51 61053051-Cut	12.1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	60	51-80	Harvest	Group Selection	412 - Oak Types	Two-Aged	Draft Proposal
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Habitat Cut: No

Site Condition:

Prescription Remove declining jack pine, aspen and poorly formed oak and red maple. Keep well formed oak and red/white pine. Sell with stand 45

Specs: treatment and chip tops. WLD may want to restore old opening.

Next Step

Treatments:

Acceptable aspen, jack pine, red pine, white pine, red maple, oak

Regen:

Other Consider orv and recreation trails. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

54 61053054-Monitor	6.1	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Poor	5	Immature	Monitoring	Artificial Regen(3yr)	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Approved Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Stand planted to red pine spring 2012

Specs:

Next Step

Treatments:

Acceptable red pine, white pine, oak, red maple, jack pine

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

64 61053064-Burn	182.9	330 - Low-Density Trees	Nonstocked	0	Unspecified	Burn	Opening	330 - Low-Density Trees		Draft Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Burn periodically to maintain and enhance barrens type.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
66	61053066-Cut	54.2	4310 - Pine, Oak Mix	Poletimber Medium	30	1-50	Harvest	Clearcut with Retention	330 - Low- Density Trees		Draft Proposal

Habitat Cut: No

Site Condition:

Prescription Retain most well formed oak and some red/white pine if found--possibly a couple small clumps of jp. Harvest remaining stems to begin the re-
Specs: establishment of the barrens feature in this area. This stand will be added to the rotational burn to maintain and enhance this feature. Chip tops and require low stumps to allow for future management. Retain oak of various age classes

Next Step
Treatments:

Acceptable typical barrens type flora.
Regen:

Other Mangle as part of surrounding managed barrens area. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

72	61053072- Monitor	12.6	4310 - Pine, Oak Mix	Sapling Poor	5	Immatur re	Monitoring	Artificial Regen(3yr)	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Draft Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Planted spring 2012. Recheck regeneration spring 2015
Specs:

Next Step
Treatments:

Acceptable red pine, oak, aspen, red maple, jack pine, white pine
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 5 /6 /2015

73	61053073-Cut	8.2	42290 - Natural Mixed Pine	Poletimber Well	53	51-80	Harvest	Seed Tree	4319 - Mixed Upland Forest	Two-Aged	Draft Proposal
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Habitat Cut: No

Site Condition:

Prescription retain some well formed oak, white pine and red pine and harvest remaining stems. Retain 10-40 ba. Retain pocket in southern tip of stand that
Specs: has less jack pine.

Next Step
Treatments:

Acceptable oak, maple, jack pine aspen, white pine, red pine.
Regen:

Other ORV Trail along west edge. Consider trail. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

75	61053075- Burn	10.5	4310 - Pine, Oak Mix	Poletimber Medium	30	1-50	Burn	Opening	31022 - Warm Season Grass		Draft Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Carpenter Creek Oak Pine Barrens. Continue rotational burns as needed. Divide into several burn units to stagger burns over several years.
Specs: Treat for exotics as needed, particularly spotted knapweed along two tracks.

Next Step
Treatments:

Acceptable Barrens typical flora.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
81	61053081-Cut	30.6	4310 - Pine, Oak Mix	Sawtimber Medium	95	51-80	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	Draft Proposal

Habitat Cut: No

Site Condition:

Prescription remove most remaining over story to release advanced regeneration. Retain some pine, oak and maple for mast and seed production. Retain a
Specs: buffer strip along Mayfield Road.

Next Step
Treatments:

Acceptable oak, aspen, maple, white pine, red pine.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

90	61053090-Cut	26.8	4133 - Aspen, Mixed Pine	Poletimber Well	75	141-170	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	Draft Proposal
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Habitat Cut: No

Site Condition:

Prescription Mark some retention of pine, oak and maple and also a retention strip along west edge along stand 84 for budding and travel cover. Final
Specs: harvest remaining stems to 2" dbh to regenerate stand.

Next Step
Treatments:

Acceptable aspen, oak, maple, birch, red pine, white pine, jack pine.

Regen:

Other Timber trespass along east line. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

98	61053098-Cut	20.5	42110 - Planted Red Pine	Poletimber Well	55	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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Habitat Cut: No

Site Condition:

Prescription Crown thin. Reduce basal area to 120. Remove suppressed , poorly formed and broken stems. Some areas of stand are close to ba target and
Specs: won't need much thinning.

Next Step
Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

101	61053101-Cut	27.6	42110 - Planted Red Pine	Poletimber Well	55	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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Habitat Cut: No

Site Condition:

Prescription Crown thin. Reduce basal area to 120. Remove suppressed , poorly formed and broken stems. Some areas of stand are close to ba target and
Specs: won't need much thinning

Next Step
Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
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106	61053106-Cut	11.9	42110 - Planted Red Pine	Poletimber Well	58	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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Habitat Cut: No **Site Condition:**

Prescription Crown thin. Reduce basal area to 120. Remove suppressed , poorly formed and broken stems. Some areas of stand are close to ba target and
Specs: won't need much thinning

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

108	61053108-Cut	13.1	42110 - Planted Red Pine	Poletimber Well	58	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Proposal
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Habitat Cut: No **Site Condition:**

Prescription Crown thin. Reduce basal area to 120. Remove suppressed , poorly formed and broken stems. Some areas of stand are close to ba target and
Specs: won't need much thinning

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

111	61053111-Cut	9.2	42290 - Natural Mixed Pine	Poletimber Well	65	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	Draft Proposal
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Habitat Cut: No **Site Condition:**

Prescription Retain some good oak, white pine and maple for mast and seed production. Harvest remaining stems to regenerate stand.
Specs:

Next Step
Treatments:

Acceptable aspen, jack pine, white pine, red pine, oak, red maple.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

117	61053117-Cut	21.1	4139 - Aspen, Mixed Deciduous	Poletimber Well	70	141- 170	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	Draft Proposal
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Habitat Cut: No **Site Condition:**

Prescription Retain some pine, northern hardwoods and oak (especially pole sized red oak) and harvest remaining stems to 2" dbh to regenerate stand.
Specs: Could create some retention islands where white pine is heavier

Next Step
Treatments:

Acceptable aspen, oak, white pine, red pine, maple, basswood,
Regen:

Other Trim back treatment to exclude area heavier to northern hardwood mix along east edge Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
124	61053124-Cut	20.8	42110 - Planted Red Pine	Poletimber Well	55	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Proposal

Habitat Cut: No **Site Condition:**

Prescription Crown thin. Reduce basal area to 120. Remove suppressed, poorly formed and broken stems. Some areas of stand are close to ba target and
Specs: won't need much thinning

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

125	61053125-Cut	28.5	42110 - Planted Red Pine	Sawtimber Well	75	141-170	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Manage north half for pine and move southern part to hardwoods. Red pine has been thinned but has not responded. South part of stand is on
Specs: better site and tending toward hardwoods. Open up to encourage regeneration.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments: Monitor regeneration success.
Comment:

Proposed Start Date: 12/30/1899

126	61053126-Cut	8.0	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Harvest	Clearcut	31021 - Cool Season Grass	Even-Aged	Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Strip of open ground between plantations grown in with bushy white pine. Remove and chip when plantation pine is thinned.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2006

58	NF_61053058-NonFor	1.7	4310 - Pine, Oak Mix	Sapling Poor	10	Immature	NonForestMgt	Brush Cutting	3105 - Mixed Upland Herbaceous		Draft Field Boundary
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Habitat Cut: Yes **Site Condition:**

Prescription Handfell with chainsaws/brushcutter. Handfell any encroaching pine and maple.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 4 /7 /2015



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
83 NF_61053083-NonFor	3.4	2113 - Forage Crops	Nonstocked			Harvest	Crown Thinning			Draft Field Boundary

Habitat Cut: Yes

Site Condition:

Prescription Forage crop. This is a DNR rye field. Continue planting rye to benefit white-tailed deer. - BJR
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 12/30/1899

94 NF_61053094-NonFor	6.2	2113 - Forage Crops	Nonstocked			Harvest	Crown Thinning			Draft Field Boundary
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Habitat Cut: Yes

Site Condition:

Prescription Forage crop. This is a DNR rye field. Continue planting rye at this location to benefit white-tailed deer. - BJR
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 12/30/1899

104 NF_61053104-NonFor	27.9	31022 - Warm Season Grass	Nonstocked	Unspecified	NonForestMgt	Other - Specify	31022 - Warm Season Grass			Draft Field Boundary
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Habitat Cut: Yes

Site Condition:

Prescription Possibly cut and chip most of the pine with adjacent timber sales. WLD will mark. Local forester approves. Prep for medium priority burn.
Specs: Protect old homestead site that is located on SE side. - BJR

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 12/30/1899

Total Treatment Acreage Proposed: 1255.8

Dominant Site Conditions

	2G	2H	3J	3K	4A	5B	5C
Aspen	1		23			0	8
Bare/Sparsely Vegetated							
Cedar	26						
Cropland							
Herbaceous Openland							
Jack Pine							51
Low-Density Trees							
Lowland Conifers	28		49	1			
Lowland Mixed Forest	41		31			0	
Lowland Shrub							
Marsh							
Mixed Upland Deciduous		6	5			12	154
Natural Mixed Pines			46			10	36
Northern Hardwood							
Oak							56
Planted Mixed Pines							
Red Pine							
Upland Mixed Forest	1			7	5	23	42
Upland Shrub							
Urban							
Total Forested Acres	98	6	154	7	5	44	347
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)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lowland mix-cedar							

Report 5 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 53

Year of Entry: 2017

2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ba and SI Stand of oversized natural pine.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Almost pure oversized red pine. Regenerate. Get Kotar							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 53

Year of Entry: 2017

8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Bottom land and slope along creek bottom							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5B: Maintain for regeneration purposes	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments: Upland steep slope and bottomland along creek drainage.							

Report 5 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 53

Year of Entry: 2017

14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Blocked by drainage and steep slopes.							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	26	2F: Too steep	3D: Recreational / Scenic values	Unspecified	Unspecified
Comments: Steep slope and flat along Parker Creek							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Nice small oak stand with jp stand around it. Keep for mast production and diversity.							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar/lowland forest along Parker Creek							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Drainage on Tributary to Parker Creek.							

Report 5 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 53

Year of Entry: 2017

20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Rich Cedar Swamp. Headwaters for Parker Creek							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Headwaters for Parker Creek. Rich Cedar Swamp							
22	Unavailable	3K: Rare or unique landforms	8	2B: Unknown if access through adjacent landowner(s) is possible	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments: Blocked in by drainage to north, Cedar Swamp to south and west and private lands to east. Large natural pine stand. Small Unique are. Recommend keeping in natural state.							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Young age classes all around this stand. Retain for age and structure diversity.							
24	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2F: Too steep	3D: Recreational / Scenic values	Unspecified	Unspecified
Comments:							
25	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 53

Year of Entry: 2017

26	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Steep slope along Parker Creek drainage							
27	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Lowland along Parker Creek							
28	Available	4A: No Markets Available for these Forest Products	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Winter cover along creek bottom. Stand is small size with poor access. May not make merchantable timber sale even though it may be desirable to regenerate it,							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Low hummocky ground-lowland mix							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Adjacent to drainage, pockets of stand are wet.							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 53

Year of Entry: 2017

32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 6 – 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 7 – 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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.

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Traverse City Mgt. Unit

Report 8 – Forested Stands

Compartment: 53
Year of Entry: 2017

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42290 - Natural Mixed Pine	Poletimber Well	31.0	60	81-110	2015: part of TS# 052-14. Cut all merchantable -oak and pine retention. Consider trenching and planting after harvest if sale is chipped.
3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	202.4	55	51-80	2015: part of TS# 052-14. Cut all merchantable-green marked retention. Consider weaving pine in after harvest if the stand is chipped. Large old oak scattered around age 105. 2005; Large crowned old scattered oak-mostly white, with jp,wp,oak,rm, filled in.
4	42250 - Pine, Oak	Sawtimber Well	45.0	55	51-80	.
6	42220 - Natural Jack Pine	Sawtimber Well	14.6	55	51-80	
7	4126 - White, Black, N. Pin Oak	Sawtimber Well	24.6	95	81-110	
10	42250 - Pine, Oak	Poletimber Well	13.1	60	51-80	
11	42220 - Natural Jack Pine	Poletimber Well	32.2	65	51-80	2015: Consider harvesting this and planting red pine. Most of the stand would be pretty clean after harvest. Northwest part has heavier oak understory. Part of stand 14 could also be final harvested where there is light understory development. Stand 60 should be retained as good age/structure diversity. 2005; Older pine and oak scattered JP variable aged 30-50 most 30. Jack pine looks fine but the quality is poor. Red pine did much better on this site. Let grow in more and look at in next entry.
13	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	65.1	70	51-80	
14	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	14.6	95	81-110	
15	42220 - Natural Jack Pine	Poletimber Well	98.0	60	51-80	Jack pine with scattered log size oak, white pine and red pine.
16	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	26.1	95	141-170	
17	42220 - Natural Jack Pine	Sapling Medium	2.7	20	Immature	
18	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	27.9	95	51-80	
19	4126 - White, Black, N. Pin Oak	Poletimber Well	18.2	110	51-80	
21	4310 - Pine, Oak Mix	Poletimber Well	12.9	60	81-110	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4126 - White, Black, N. Pin Oak	Poletimber Well	17.3	100	81-110	
23	42290 - Natural Mixed Pine	Sawtimber Medium	26.1	110	141-170	
24	42210 - Natural Red Pine	Sawtimber Well	4.4	115	111-140	Natural Red and White Pine along Carpenter Creek.
25	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	18.4	110	111-140	Old Lowland block. Pretty unique.
26	4126 - White, Black, N. Pin Oak	Sawtimber Well	11.5	110	51-80	
27	6120 - Lowland Cedar	Sawtimber Well	25.7	95	111-140	cedar swamp along creek
28	4129 - Mixed Oak	Sawtimber Well	18.1	95	51-80	
29	4199 - Other Mixed Upland Deciduous	Sawtimber Well	5.6	70	51-80	
30	4133 - Aspen, Mixed Pine	Sawtimber Well	8.4	80	81-110	
31	4131 - Aspen, Oak	Sapling Poor	7.4	6	Immature	
32	4126 - White, Black, N. Pin Oak	Sapling Poor	13.6	6	Immature	
33	42220 - Natural Jack Pine	Poletimber Well	119.0	65	51-80	
34	4133 - Aspen, Mixed Pine	Sawtimber Well	15.9	80	111-140	
36	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	26.2	95	111-140	2015: Keep for age class and structure diversity. 2005: Some very old red pine scattered around. Scattered older oak and pine filled in with real nice mix in the 50 year age. A third age class 23-30 year and then younger regen. It is too thick to remove the oldest age class without messing up a lot of other trees leave for now and let it grow in.
37	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	26.0	6	1-50	
38	4130 - Aspen	Sapling Medium	5.4	17	Immature	cut in 1998. Young regen
39	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	14.9	17	1-50	

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Traverse City Mgt. Unit

Report 8 – Forested Stands

Compartment: 53
Year of Entry: 2017

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41 4126 - White, Black, N. Pin Oak	Sapling Poor	53.4	6	1-50	
42 4126 - White, Black, N. Pin Oak	Sapling Poor	53.2	6	Immature	
44 4310 - Pine, Oak Mix	Sapling Medium	80.8	20	1-50	
45 4310 - Pine, Oak Mix	Poletimber Well	34.9	95	51-80	
47 6139 - Mixed Lowland Forest	Sawtimber Well	30.8	80	81-110	
48 42260 - Natural Pine, Mixed Deciduous	Sawtimber Poor	94.9	65	1-50	
49 4310 - Pine, Oak Mix	Sapling Poor	265.3	7	Immature	
51 4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	12.1	60	51-80	
52 4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	28.1	7	Immature	
54 42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Poor	6.1	5	Immature	
58 4310 - Pine, Oak Mix	Sapling Poor	1.7	10	Immature	
60 4310 - Pine, Oak Mix	Sawtimber Well	7.6	95	111-140	
62 4133 - Aspen, Mixed Pine	Sapling Well	1.6	20	Immature	Scattered oak and older pine. part of small clearcut. Other side is still open cover. Aspen /rm regen.
63 6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	2.4	80	111-140	Creek bottom
66 4310 - Pine, Oak Mix	Poletimber Medium	54.2	30	1-50	
67 4310 - Pine, Oak Mix	Sapling Poor	84.1	5	1-50	TS# 072-07. Harvested fall 2009. Planted spring 2011. Planted red pine with oak, jp, aspen, rm, wp, ba that started after harvest. Retention of log sized oak and pine from last treatment. Heavy browsing on oak but some is growing through. Good pine site but also good deciduous mix coming in.
68 42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	20.1	115	111-140	

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Traverse City Mgt. Unit

Report 8 – Forested Stands

Compartment: 53
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
69	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	67.9	5	Immature	
70	4311 - Pine, Aspen Mix	Poletimber Medium	23.7	25	51-80	
71	42210 - Natural Red Pine	Sawtimber Medium	129.7	73	81-110	
72	4310 - Pine, Oak Mix	Sapling Poor	12.6	5	Immature	
73	42290 - Natural Mixed Pine	Poletimber Well	8.2	53	51-80	
74	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	8.3	95	51-80	
75	4310 - Pine, Oak Mix	Poletimber Medium	10.5	30	1-50	
76	4311 - Pine, Aspen Mix	Sawtimber Well	5.4	75	111-140	
77	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	28.0	80	111-140	Low area along drainage
78	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	49.7	95	111-140	
79	4310 - Pine, Oak Mix	Poletimber Well	15.4	55	81-110	
81	4310 - Pine, Oak Mix	Sawtimber Medium	30.6	95	51-80	
82	4133 - Aspen, Mixed Pine	Poletimber Well	11.0	45	111-140	
84	4130 - Aspen	Sapling Well	14.9	6	1-50	
85	4311 - Pine, Aspen Mix	Poletimber Well	10.3	45	81-110	2015: Mix of wp and aspen grown in among residual pine and oak. Age 40-50. Heavier wp stocking on west side and aspen in east.
86	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	10.6	80	81-110	
87	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	12.2	75	81-110	
89	4133 - Aspen, Mixed Pine	Poletimber Well	6.1	45	111-140	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
90	4133 - Aspen, Mixed Pine	Poletimber Well	26.8	75	141-170	
91	4133 - Aspen, Mixed Pine	Poletimber Well	17.8	45	81-110	
92	4133 - Aspen, Mixed Pine	Poletimber Well	21.3	45	111-140	
95	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	29.0	95	111-140	Part of stand in SE corner cut in trespass.
96	4311 - Pine, Aspen Mix	Sawtimber Well	7.9	95	171-200	Large "old Growth" natural pine stand. Smal Unique area. Recommend keeping in natural state.
98	42110 - Planted Red Pine	Poletimber Well	20.5	55	141-170	
99	4139 - Aspen, Mixed Deciduous	Sawtimber Well	3.7	80	81-110	
101	42110 - Planted Red Pine	Poletimber Well	27.6	55	141-170	
105	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	33.8	80	141-170	Low hummocked ground
106	42110 - Planted Red Pine	Poletimber Well	11.9	58	171-200	red pine plantation. Part of pine to south burned in 2005 and was cut and planted in same year.
107	42111 - Planted Red Pine, Mixed Deciduous	Sapling Medium	6.4	10	Immature	
108	42110 - Planted Red Pine	Poletimber Well	13.1	58	141-170	
109	4133 - Aspen, Mixed Pine	Sapling Well	24.8	26	Immature	
110	42220 - Natural Jack Pine	Poletimber Well	16.2	46	81-110	JP and WP that has been slowly seeding in to pockets. A few red pine poles. Various age classes resulting. Most is getting to a merchantable size. Large weeviled white pine scattered around along with some bushy open grown beech. A few log sized red oak and maple. This stand could be harvested and re-planted to red pine or it could go another cycle. Not too much snow damage or mortality at this time.
111	42290 - Natural Mixed Pine	Poletimber Well	9.2	65	51-80	
112	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	7.7	80	141-170	Small Deer Yard. Hummocky

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Traverse City Mgt. Unit

Report 8 – Forested Stands

Compartment: 53
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
113	4130 - Aspen	Sapling Poor	4.4	6	1-50	
114	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	5.2	70	141-170	
115	4130 - Aspen	Sapling Well	10.0	20	Immature	
116	42210 - Natural Red Pine	Sawtimber Medium	6.5	70	111-140	Part of larger cut to north. Has been opened up
117	4139 - Aspen, Mixed Deciduous	Poletimber Well	21.6	70	141-170	
118	42290 - Natural Mixed Pine	Sawtimber Well	44.3	70	171-200	
119	4123 - Red Oak	Sawtimber Medium	44.0	80	51-80	
120	4112 - Maple, Beech, Cherry Association	Sawtimber Well	17.7	95	81-110	
121	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	32.4	95	111-140	
122	4130 - Aspen	Sapling Medium	7.3	6	Immature	
123	4133 - Aspen, Mixed Pine	Sapling Medium	19.8	6	1-50	
124	42110 - Planted Red Pine	Poletimber Well	25.2	55	171-200	A little white pine scattered in.
125	42110 - Planted Red Pine	Sawtimber Well	30.3	75	141-170	
127	4131 - Aspen, Oak	Sawtimber Well	8.1	70	111-140	
128	4130 - Aspen	Sapling Medium	14.3	7	1-50	
130	42220 - Natural Jack Pine	Sapling Well	1.9	7	Immature	



Stand	Cover Type	Acres	Managed Site	General Comments:
2	3201 - Sweet Fern	2.0	No	Mostly sweetfern with clumps of little bluestem. A few holes.
5	110 - Low Intensity Urban	1.9	No	Active well site.
8	3201 - Sweet Fern	2.1	No	Really nice old well pad. Equal mixture of sweetfern and little bluestem. Jack pine encroaching. Leave as-is.
9	790 - Other Bare/Sparsely Vegetate	1.8	No	Allot of bare soil in center. Should do something here. FMFM recommends leaving as-is, replant to jack pine during next compartment cycle when adjacent stand is ready for cut. Need to fix berm.
12	3201 - Sweet Fern	2.1	No	Sweetfern opening.
20	3201 - Sweet Fern	2.2	No	Big clumps of sweetfern. Redtop (?) grass. Nice oaks surrounding opening. A couple holes, a patch of milkweed. Two-track goes around perimeter.
35	3201 - Sweet Fern	2.0	No	Another nice sweetfern opening. Blown-over pine blocks access. Leave as-is. Couple nice snags NW corner.
40	3201 - Sweet Fern	2.1	No	Nice sweetfern opening.
43	110 - Low Intensity Urban	1.6	No	Oil well site. Pipe has been capped. Active.
46	110 - Low Intensity Urban	2.9	No	Oil well site. Has a cap on the pipe.
50	6233 - Wet Meadow	4.1	No	Twenty two creek runs through. Cedar is dead and dying. Mostly sedges with traces of fern and other forbs.
53	6220 - Alder/willow	5.1	No	
55	3104 - Degraded	1.3	No	Degraded site. Would like to do something here. Could try to restore native grasses or let FMFM do something here. Prescription would be a prescribed burn, along with the adjacent stands.
56	6233 - Wet Meadow	4.2	No	Sedge meadow. Evidence of an old beaver flooding.
57	6220 - Alder/willow	4.7	No	
59	6233 - Wet Meadow	2.5	No	
61	6220 - Alder/willow	1.2	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
64	330 - Low-Density Trees	182.9	Yes	OPEN LOW DENSITY TREES. jp SEEDING IN.
65	3201 - Sweet Fern	2.7	No	Some areas degraded with spotted knapweed/st. john's wort. Autumn olive is deteriorating. Big clumps of sweetfern. Leave as-is.
83	2113 - Forage Crops	3.4	No	DNR rye field. Continue planting here.
93	6239 - Mixed Emergent Wetland	4.9	No	Allot of dead, standing wood. Unlisted specie is goldenrod.
94	2113 - Forage Crops	6.2	Yes	This is a DNR rye field. Continue planting here. Looking good. A few large oaks and white pine within this opening.
100	31022 - Warm Season Grass	13.2	No	Fire-break between two red pine stands.
103	122 - Road/Parking Lot	3.1	Unspecified	
104	31022 - Warm Season Grass	27.9	No	Clumps of pine & upland deciduous. Lots of little bluestem. Possibly cut and chip most of the pine with adjacent timber sale. Medium priority burn. Old homestead site SE side with walnut and apple trees. This area would have to be protected if burned.
126	310 - Herbaceous Openland	8.0	No	opening seeding in with bushy wp jp and rm