



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61016

Entry Year 2025

Acreage: 2,896

County Benzie

Management Area: Grand Traverse Moraine

Stand Examiner: Craig Allen

Legal Description:

T26N- R13W; Sections 19, 20, 29-32

Identified Planning Goals:

This compartment is a part of the Benzie Outwash Management Area. A majority of the northern half of the compartment contains stands heavily populated with aspen. This year's proposed aspen treatments target stands that contain older aspen trees in an effort to cut and regenerate these stands. The plans for aspen in this area continue to focus on creation of stand age class diversity which will create early successional wildlife habitat needs, maintaining healthy forests while also balancing a sustainable flow of wood products for the future. Some of these stands also contain a sizable percentage of red oak. In these stands, selection cutting of some of the oak trees is prescribed in hopes of regenerating these oaks by stump sprouts. A majority of the oaks will remain for mast production and aesthetic value.

The southern half of the compartment is dominated by mesic Northern Hardwood hills. These stands have been select thinned at different intervals and locations over the years. Unfortunately, these stands have been experiencing major forest health issues recently. These include: Oak wilt, maple and oak decline, tent caterpillar outbreak, drought conditions, and now the beginning stages of emerald ash borer and beech bark disease. These will have major impacts on these areas. We will be experiencing mortality in ash, beech and oak (from oak wilt). Although a very large number of these trees will be lost, we will be attempting salvage operations in some stands to utilize these trees.

Soil and topography:

The northern two-thirds is generally flat. Kinney Creek lies in a narrow valley with progressively steeper slopes as you go downstream. The southern one-third is a hilly northern hardwood terrain noted on many maps as "Turtle Lake Hills".

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

To the north and south there are equal portions of State and private ownership. To the east, most of the ownership is State and to the west, most of the ownership is private. The compartment is located in an area of sparse, rural residential development. There is a small amount of farming in the area.

Unique Natural Features:

Carter Creek originates in the compartment and flows westerly approximately four miles where it joins up with the Platte River. Turtle Lake is a 38 acre lake located in sections 29 and 32. Kinney Creek, located in section 20, flows northerly and empties into Brundage Creek and ultimately into the Platte River.

Archeological, Historical, and Cultural Features:

There are no known specific features in the compartment.

Special Management Designations or Considerations:

Both Kinney and Carter Creeks originate in this compartment, and are high quality cold water streams that flow into the Platte River. There is a stand scheduled for treatment near Kinney Creek. The timber sale boundary will be kept at least 100 feet away from Kinney Creek.

Watershed and Fisheries Considerations:

This compartment contains Turtle Lake and portions of Kinney Creek. Kinney Creek is a naturally reproducing trout stream that flows into Brundage Creek (water supply source for the Platte River State Fish Hatchery), and eventually the Platte River. Clear cutting along the riparian edges of this stream should be avoided, and appropriate BMP's should be adhered to. Though none of the proposed treatments appear as though they will have any significant impacts on the riparian corridor of Turtle Lake, the appropriate BMP's should be followed. (comments by Heather Hettinger).

Wildlife Habitat Considerations:

Compartment 16 is comprised 100% of a sandy outwash plain. Soils within this LTA are generally excessively drained, acidic, and low in natural fertility. This landtype is normally associated with frequent wildfires and the associated fire dependent communities. GLO notes for this portion reported mainly beech/hemlock forests. However, this LTA also supported oak/pine barrens, pine barrens, and upland prairie. Several large non-forested stands in the NW corner of this compartment provide an excellent opportunity for opening management consisting of warm and cool season herbaceous

vegetation. At the very least these stands should be maintained as open by clearing encroaching woody vegetation. Once suitable herbaceous vegetation is established these stands should be maintained by periodic prescribed fire.

The south and southwest portion of the compartment is hilly and supports a relatively contiguous northern hardwood complex. Stands in this area should be managed to perpetuate northern hardwoods, providing habitat for species such as red-bellied woodpecker, gray squirrel, wild turkey, white-breasted nuthatch, and blue-spotted salamander. Timber prescriptions should be designed to maintain species diversity as well as include specs for snags, coarse woody debris, and conifer retention. Some of the slash should be left in piles for small animal habitat. The conifer component in these stands is essentially non-existent. Measures should be taken to attempt to reintroduce conifers, especially eastern hemlock.

This compartment also has a history of aspen cutting. Such early successional management is appropriate and will be continued in this area, with additional aspen harvests scheduled this inventory cycle to increase age class diversity. The incorporation of snags, leave trees, and downed logs in these cuts will help to replicate a wildfire-altered forest and increase wildlife use by species like grouse, woodcock, golden-winged warbler, and deer. Again, some of the slash should be left in piles for small animal habitat. Harvest operations should be utilized to create some (approximately 1-2 trees per acre) coarse woody debris (CWD), preferably via timber sale specs.

Oak occurs here as a component of the overall species mix. Its continued presence as a component here, and ideally, its expansion, is very important for hard mast production, especially considering the spread of beech bark disease. Sale specs should include measures to retain some mature mast producing trees as well as promote the regeneration of the oak component through seeding and stump sprouting. Some cedar along Kinney and Carter Creeks provides winter cover for deer. The potential for both northern goshawk and red-shouldered hawk exists here, specifically in the southwest part of the compartment.

Mineral Resource and Development Concerns and/or Restrictions

There is no known metallic mineral potential in this part of the state. The nearest active sand/gravel pit is more than three miles away. There is potential for sand & gravel in the compartment, but it might be too far from populated areas (markets) to have much economic potential beyond use by the county road commission for road maintenance. There is some potential for Antrim Shale gas production from beneath the compartment, but it is north of the main Antrim play, and completing new wells here is unlikely to be economical. The compartment is many miles from any active Antrim production. Several Antrim wells have been drilled near the compartment, but pipelines were never extended to the area, and the wells have since been plugged and abandoned or just abandoned (orphaned). There is no other known potential for oil & gas from known hydrocarbon producing formations beneath the compartment. 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. (Comments by Peter Rose, DNR Geologist, 3/10/2023.)

Vehicle Access:

There are good gravel and paved county roads at various locations in this compartment. Access to State land is very good. There are also many forest "2-track" roads in various areas of the compartment that are in good condition and are used for public and DNR land management accessibility.

Survey Needs:

A survey may possibly be needed to establish a corner adjacent to private land in Section 30, also in Section 31.

Recreational Facilities and Opportunities:

Snowmobile trail #3 (Platte River Snowmobile Trail) runs East/West through the compartment, as well as North/South along N. Carmean Rd. Proposed timber management activities should include trail protection specifications to reduce impacts, as well as serve as an example of how silviculturally sound timber harvesting practices can co-exist, and often improve recreation and wildlife experiences for future generations. A State public access site managed by DNR Parks and Recreation Division is located on the north tip of Turtle Lake offering a boat launch for fishing and boating. Biking, and hiking on non-designated trails, as well as hunting are additional recreational activities enjoyed throughout the compartment.

Fire Protection:

This area has wildfire protection by DNR and local volunteer Fire Departments.

Additional Compartment Information:

The following reports from the Inventory are attached:

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

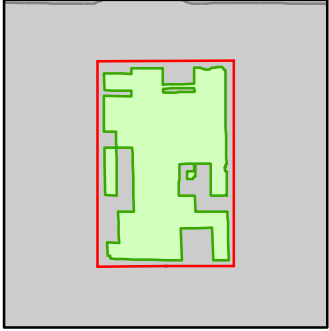
The following information is displayed, where pertinent, on the attached compartment maps:

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

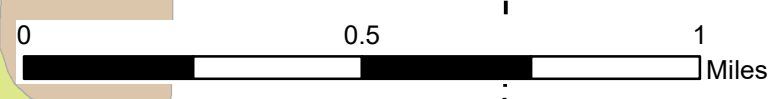
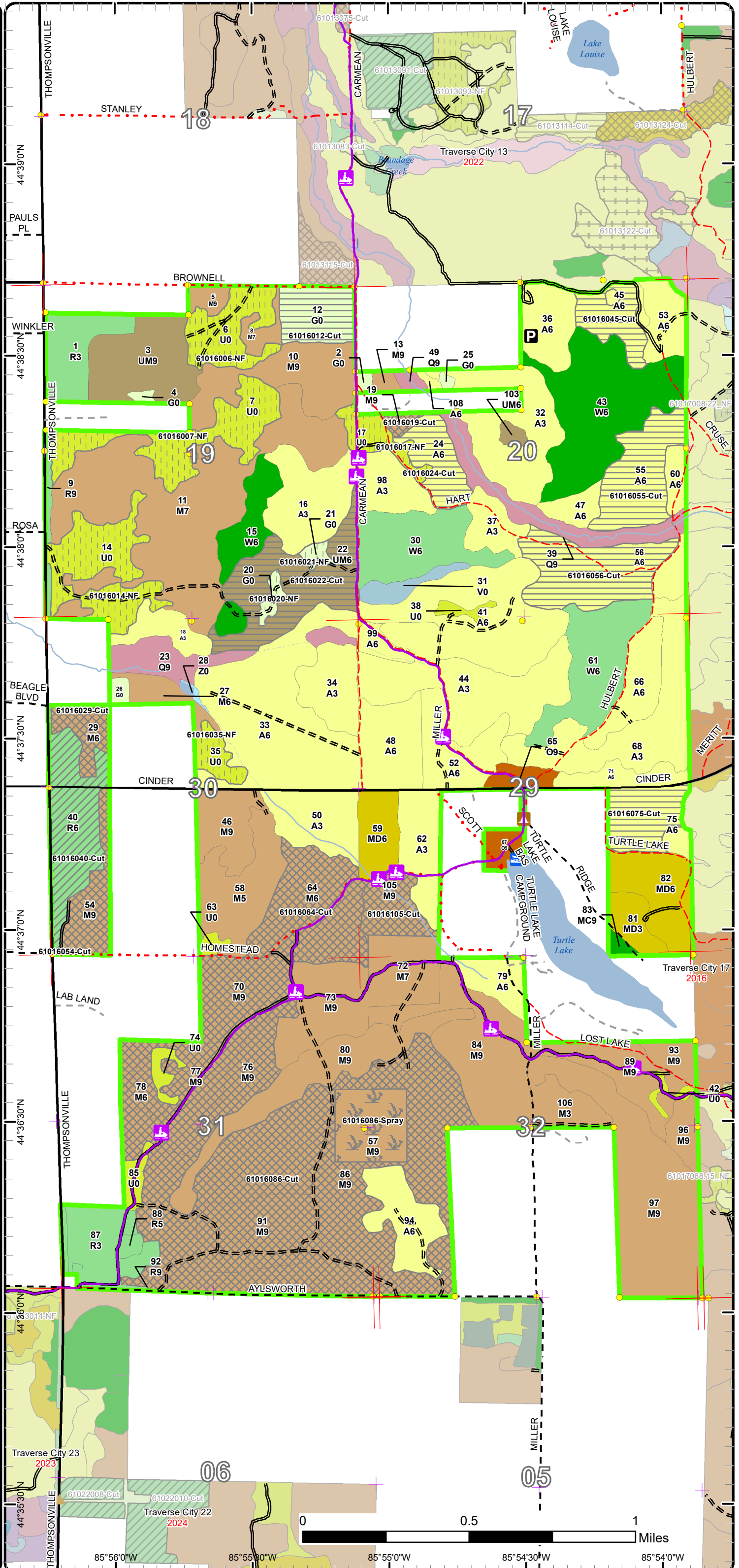
Cover Type & Treatments Map

Compartment: 16
T26N, R13W, Sec. 19, 20, 29-32

County: Benzie
Unit: Traverse City
Mgmt Area: Grand Traverse
Moraine
YOE: 2025
Acres: 2896.3 GIS Calculated
Examiner: Craig Allen
Map Revised: 5/9/2023
Map Phase: Web-Post



- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- ▭ Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- · - · - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- ⚡ Snowmobile Trails
- ⚡ Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ⚓ Boating Access Site
- Culvert
- ⛺ Campground
- P Parking Lot
- ▭ Compartment Boundary
- ▭ Pesticide
- ▭ Selection (Group, Single Tree)
- ▭ Clearcut (w/Reserves)
- ▭ Thinning (Crown, Low, Systematic)
- ▭ Opening Maintenance
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



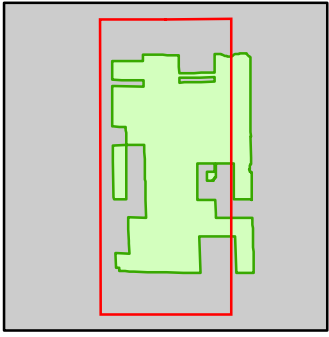
85°56'0"W 85°55'30"W 85°55'0"W 85°54'30"W 85°54'0"W

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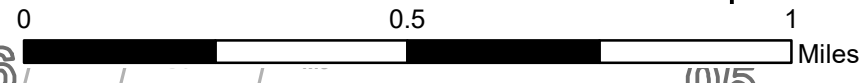
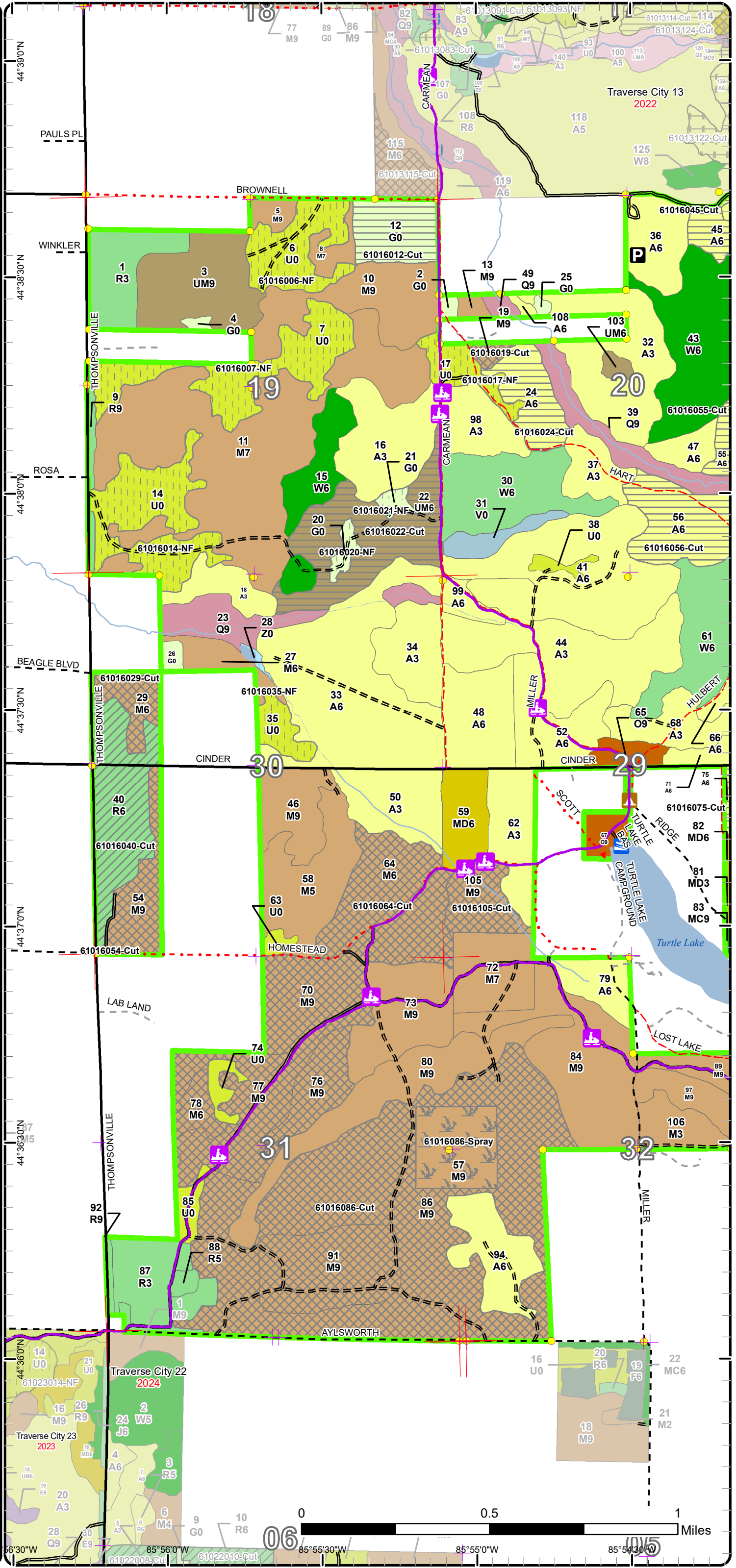
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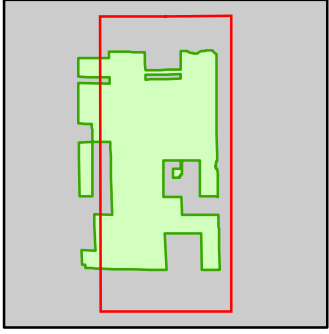
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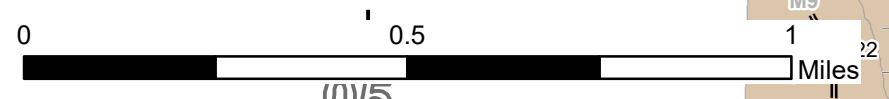
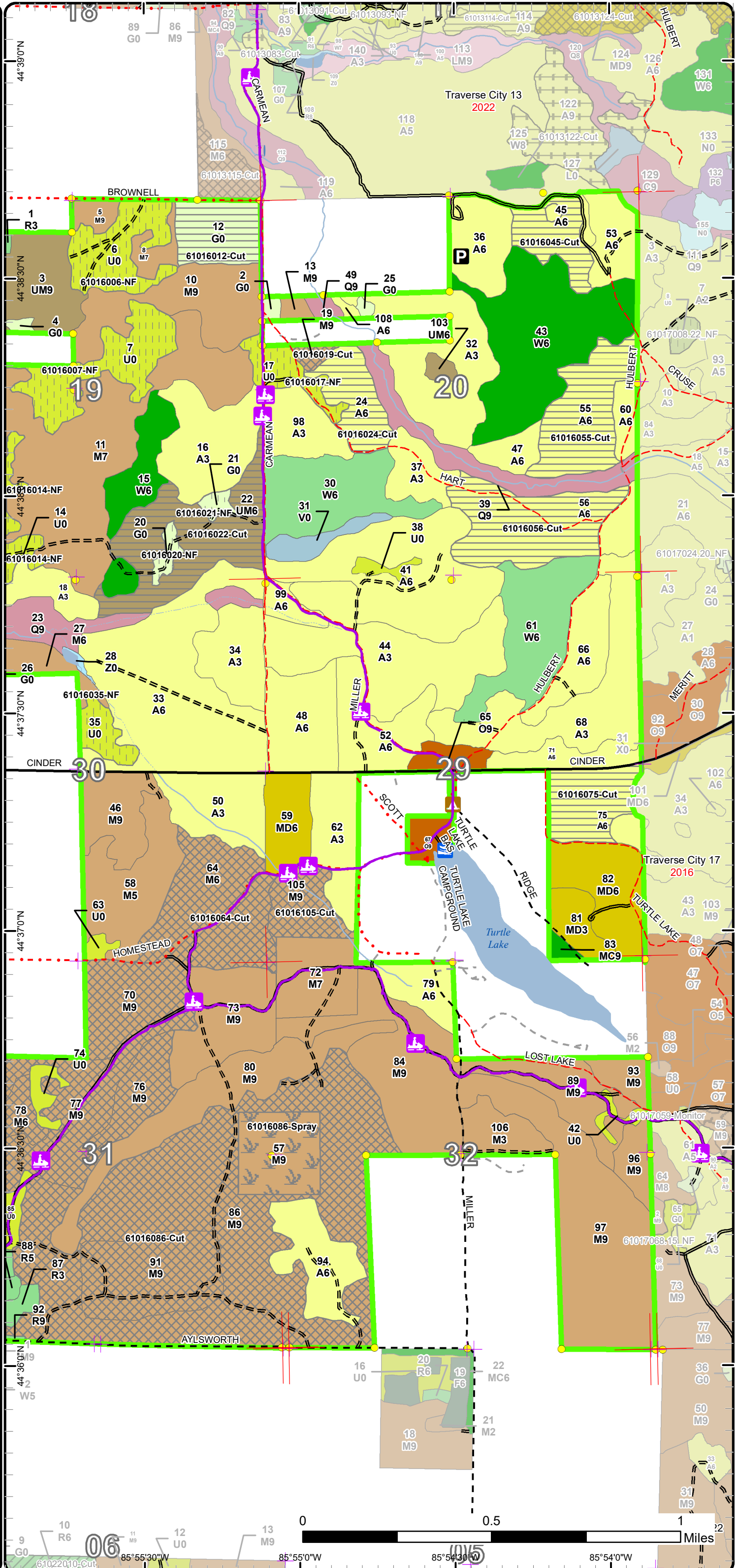
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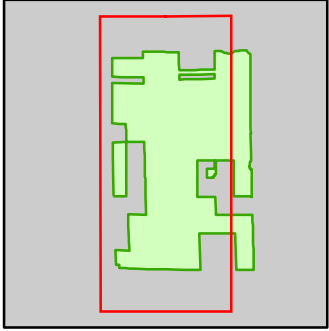
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Stand Boundary Map

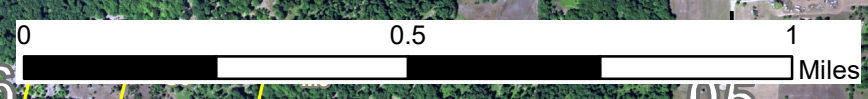
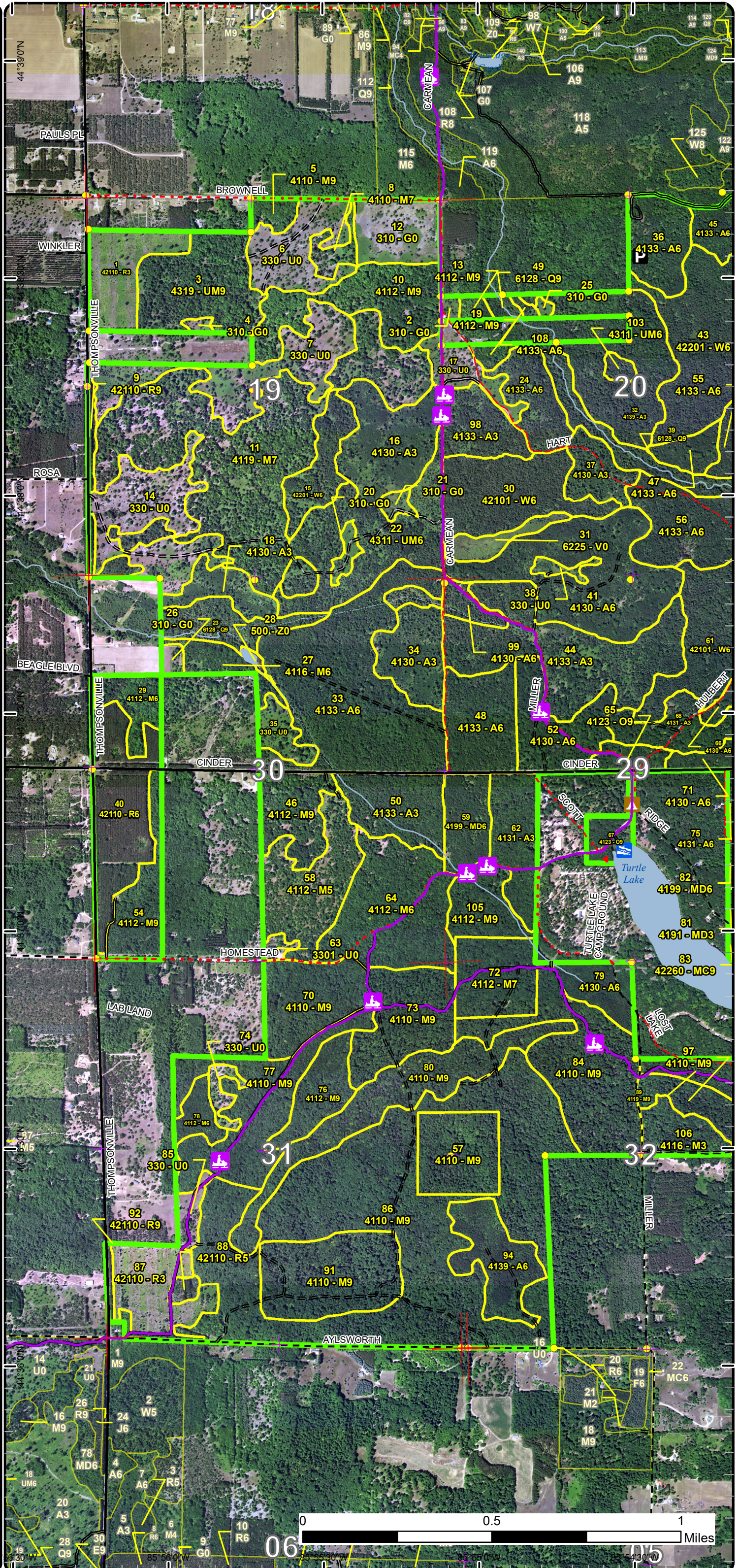
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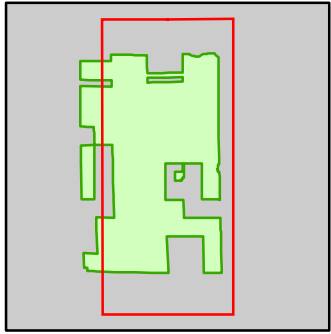
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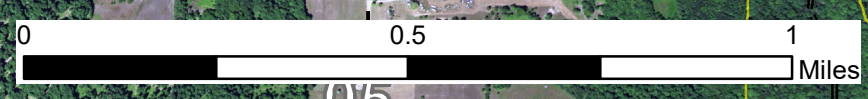
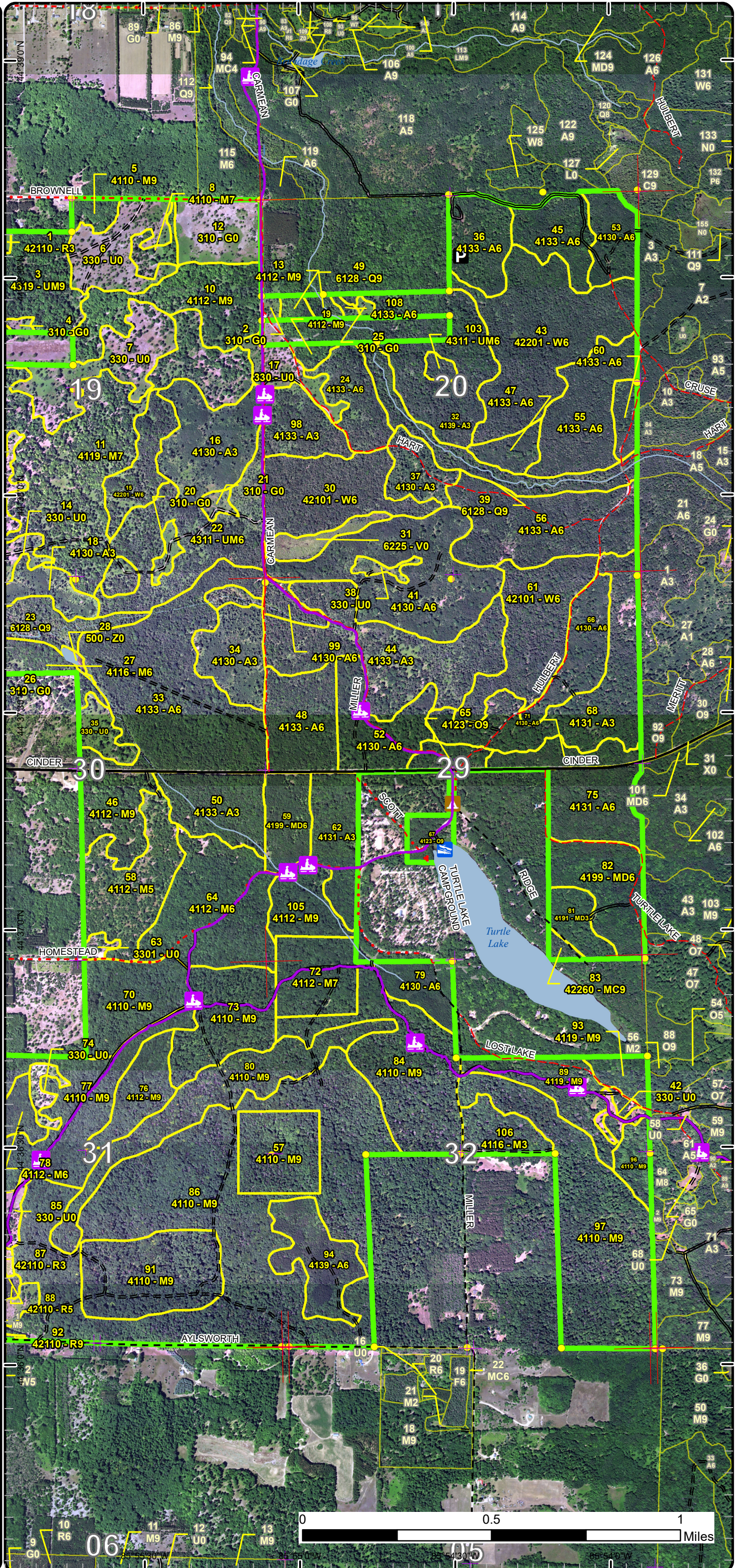
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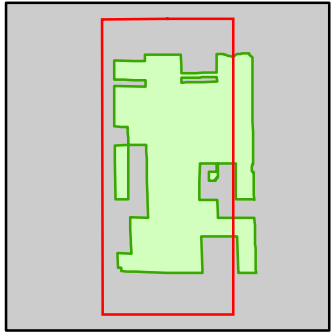


Special Conservation Areas

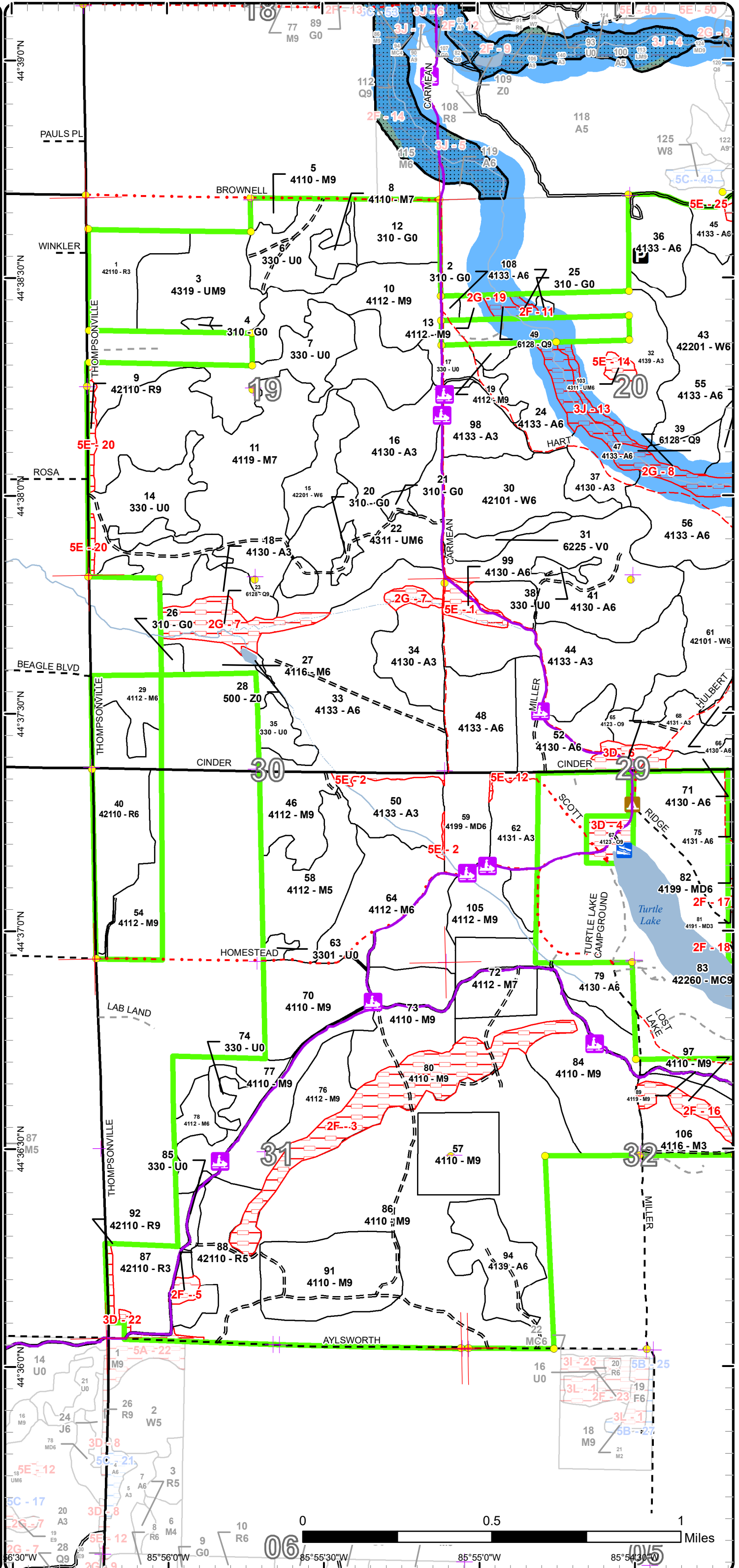
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- Campground
- Parking Lot
- Compartment Boundary
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Vernal Pool

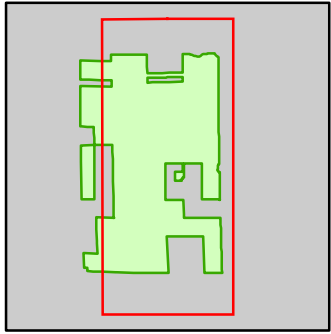


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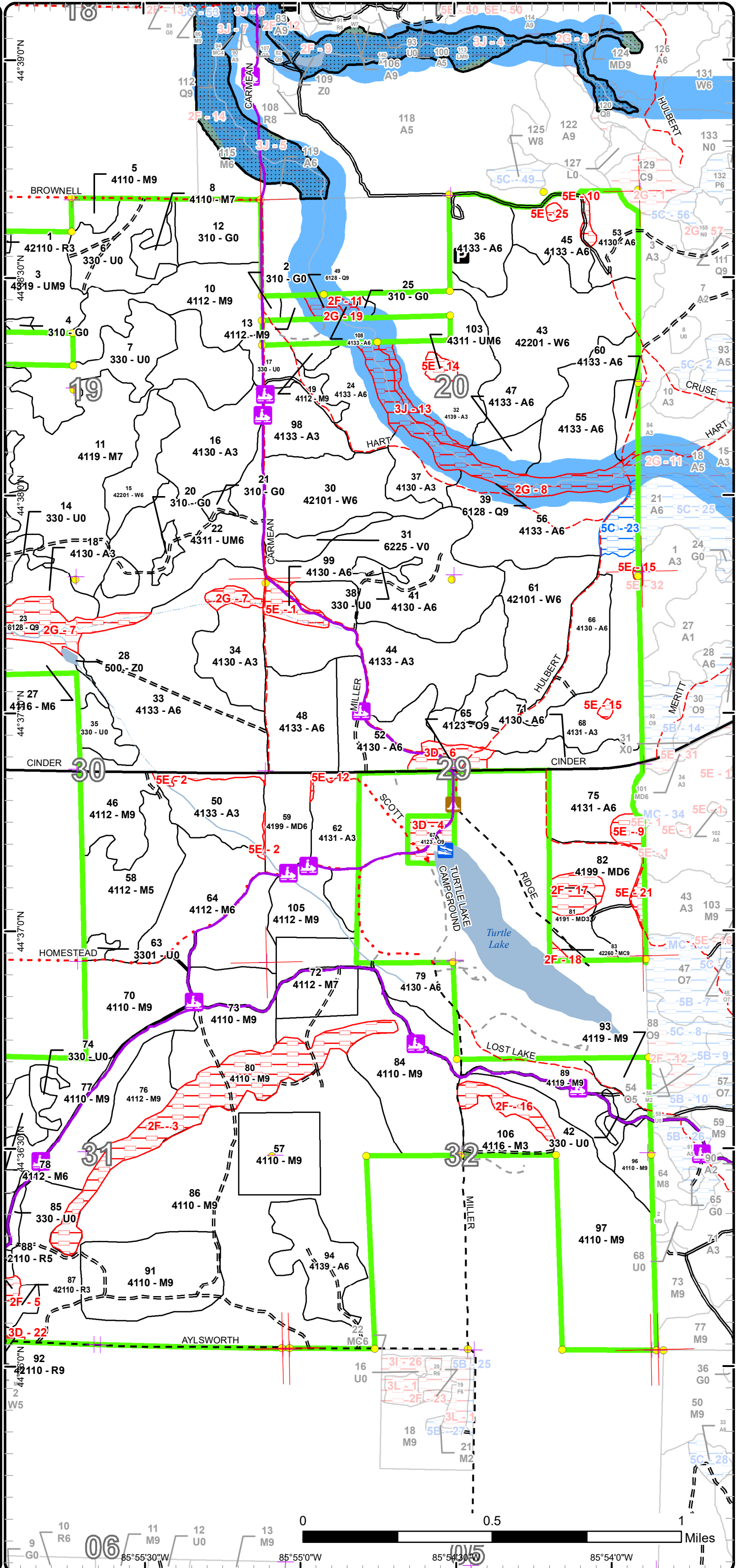
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- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
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- 3D: Recreational / Scenic values
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Report 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	266	95	0	321	183	0	60	2	0	0	0	0	0	0	0	0	0	926
Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Herbaceous Openland	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Low-Density Trees	166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	166
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	57	0	0	0	0	0	56
Mixed Upland Deciduous	0	0	0	0	33	0	34	0	0	0	0	0	0	0	0	0	0	0	67
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Northern Hardwood	0	16	0	0	42	0	0	0	0	61	726	316	29	0	0	0	0	0	1188
Oak	0	0	0	0	0	0	0	0	0	0	9	10	0	0	0	0	0	0	19
Red Pine	0	0	57	0	0	0	0	49	9	6	0	0	0	0	0	0	0	0	120
Upland Mixed Forest	0	0	0	0	0	0	0	101	3	0	0	0	0	0	0	0	0	0	104
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	0	92	0	26	80	0	0	0	0	0	0	0	0	0	198
Total	215	282	152	0	396	275	34	236	94	67	738	326	86	0	0	0	0	0	2896



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 16
Total Compartment Acres: 2,896

Commercial Harvest - 810
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	157	0	0	0	0	0	0	0	0	157
Herbaceous Openland	24	0	0	0	0	0	0	0	0	24
Northern Hardwood	0	526	0	0	0	0	0	0	0	526
Red Pine	0	0	0	0	49	0	0	0	0	49
Upland Mixed Forest	55	0	0	0	0	0	0	0	0	55
Total	236	526	0	0	49	0	0	0	0	810

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	810	0	0	0	0	30	0	0	152	992
Next Step	0	54	24	0	0	24	816	0	0	918
Total	810	54	24	0	0	54	816	0	152	1910



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

6	61016006-NF	29.1	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</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 /2024</p>											
7	61016007-NF	45.4	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</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 /2024</p>											
12	61016012-Cut	24.1	310 - Herbaceous Openland	Nonstocked		Unspec ified	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all trees (and chip tops if possible) to prepare area for trench and plant to red pine. However, Leave mature big old sugar maple trees in NE corner as legacy trees and may be possible witness trees to nearby survey corner as well.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr)</p> <p><u>Acceptable</u> red pine to meet or exceed minimum stocking requirements.</p> <p><u>Regen:</u></p> <p><u>Other</u> after harvest then trench, possible herbicide, and plant red pine seedlings.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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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14	61016014-NF	46.1	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub	No
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Prescription Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

17	61016017-NF	13.6	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub	No
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Prescription Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

19	61016019-Cut	3.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	98	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
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Prescription Lightly select mark the stand to thin slightly by removing and poor form, suppressed as needed. Try to keep residual BA near 80 SF.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of maple, cherry, basswood, aspen to meet or exceed minimum stocking requirements.

Regen:

Other Harvest together with adjacent stand 24.

Comment: Landing area with be in adjacent stand 17.

Site Condition

Proposed Start Date: 10/1 /2024



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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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20	61016020-NF	4.0	310 - Herbaceous Openland	Nonstocked	Unspecified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</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 /2024</p>										

21	61016021-NF	3.3	310 - Herbaceous Openland	Nonstocked	Unspecified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</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 /2024</p>										

22	61016022-Cut	55.3	4311 - Pine, Aspen Mix	Poletimber Well	65	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all aspen, red maple, basswood, cherry. Can green mark some scattered leave trees of maple, basswood and cherry for retention (preferably large, wind strong and or unique). Cut white pine less than 20 inch DBH and protect white pine sub-merchantable.</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> Mix of aspen, maple, white pine, oak, basswood to meet or exceed minimum stocking requirements.</p> <p><u>Regen:</u></p> <p><u>Other</u> Can also mark retention island(s) if needed. Add drumming log spec.</p> <p><u>Comment:</u> This treatment will include grassy opening stands 21 and 22 as well.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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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24	61016024-Cut	22.0	4133 - Aspen, Mixed Pine	Poletimber Well	60	Unspec ified	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Harvest all aspen, red maple, cherry but green mark some scattered retention trees of cherry and maple as needed. Cut all white pine but
Specs: protect sub-merchantable pine and mark to keep scattered large DBH (greater than 20 inch) white pine for retention, seed producers and future legacy trees. Leave any oak and all other species.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, maple, oak, pine, cherry to meet or exceed minimum stocking requirements.

Regen:

Other Keep harvest boundary minimum of 100 feet from Kinney Creek. Add drumming log spec for grouse.

Comment: Use adjacent stand 17 for landing site.

Site Condition

Proposed Start Date: 10/1 /2024

29	61016029-Cut	14.5	4112 - Maple, Beech, Cherry Association	Poletimber Well	98	81-110	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
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Prescription Select mark, lightly thin stand (since we will be thinning adjacent pine stand and have good access). Lightly mark stand to promote growth
Specs: of better-quality/health trees. Reduce average volume to approximately 80 BA. Mark to remove multi-stems and poor form trees first. Add Spec to cut all scotch pine. Keep most other pine species for stand diversity.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of maple, cherry, oak to meet or exceed minimum stocking requirements.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

35	61016035-NF	10.1	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		No
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Prescription Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for
Specs: wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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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40	61016040-Cut	48.5	42110 - Planted Red Pine	Poletimber Well	67	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin stand by select marking individual trees to harvest approximately 1/3 of trees. Primarily focus on marking poor form, suppressed, defect trees then mark others allowing for approximately 1/3 of volume removal with even spacing throughout plantation as much as possible

Specs:
Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

45	61016045-Cut	19.6	4133 - Aspen, Mixed Pine	Poletimber Well	49	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest all aspen, red maple, white pine, cherry. Do not cut any other species. Mark scattered leave trees of maple and white pine for retention focus on leaving large DBH and/or unique trees. Leave retention along both sides of east road and retention island as already mapped. Add drumming log spec.

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

Acceptable aspen, maple, pine, cherry, oak,
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

54	61016054-Cut	24.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Two-Aged	No
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Prescription Select thin stand to promote growth of better-quality/health trees. Reduce average volume to approximately 80 BA. Possibly create some small gap openings for regeneration. Mark to remove multi-stems and poor form trees first. Spec to cut all beech but green mark any beech that exhibit little or no signs of beech bark disease. Leave all conifers.

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

Acceptable Mix of maple, cherry, basswood, ash to meet or exceed minimum stocking requirements.
Regen:

Other Also, spec to remove any ironwood as needed to facilitate logging operations.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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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55	61016055-Cut	39.7	4133 - Aspen, Mixed Pine	Poletimber Well	48	Unspec ified	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Harvest all aspen, red maple, cherry but green mark some scattered retention trees of cherry and maple as needed. Cut all white pine but
Specs: protect sub-merchantable pine and mark to keep scattered large DBH (greater than 20 inch) white pine for retention, seed producers and future legacy trees. Leave any oak and all other species.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, maple, pine, cherry, oak to meet or exceed minimum stocking requirements.

Regen:

Other Keep harvest boundary minimum of 100 feet from Kinney Creek. Add drumming log spec for grouse.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

56	61016056-Cut	49.2	4133 - Aspen, Mixed Pine	Poletimber Well	48	Unspec ified	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Harvest all aspen, red maple, cherry but green mark some scattered retention trees of cherry and maple as needed. Cut all white pine but
Specs: protect sub-merchantable pine and mark to keep scattered large DBH (greater than 20 inch) white pine for retention, seed producers and future legacy trees. Leave any oak and all other species.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of aspen, maple, cherry, oak, pine to meet or exceed minimum stocking requirements.

Regen:

Other Keep harvest boundary minimum of 100 feet from Kinney Creek. Add drumming log spec for grouse.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

64	61016064-Cut	60.5	4112 - Maple, Beech, Cherry Association	Poletimber Well	80	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
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Prescription Select thin stand to promote growth of better-quality/health trees. Reduce average volume to approximately 80 BA. Possibly create some
Specs: small gap openings for regeneration. Mark to remove multi-stems and poor form trees first. Spec to cut all beech but green mark any beech that exhibit little or no signs of beech bark disease. Leave all conifers.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of maple, cherry, basswood, oak, aspen, hemlock, ash to meet or exceed minimum stocking requirements.

Regen:

Other Could mark to clearcut small area (approx one acre or less) of aspen concentrated in portion of the stand south of road.

Comment: Also, add spec to remove any ironwood as needed throughout stand to facilitate logging operations.

Site Condition

Proposed Start Date: 10/1 /2024



Standard

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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75	61016075-Cut	26.2	4131 - Aspen, Oak	Poletimber Well	63	Unspecified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Harvest all aspen, red maple, red oak. Green mark scattered retention trees of oak and a few red maple of large size. Do not cut white oak. Leave all pine.
Specs: Leave retention area in SE part of stand of thick white pine and oak as mapped in MIFI. Also, protect sub-merchantable white pine throughout sale area.

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

Acceptable Mix of aspen, maple, oak, white pine to meet or exceed minimum stocking requirements.
Regen:

Other Protect from logging damage the old railroad grade that goes east-west across south end of stand.
Comment: Add drumming log spec.

Site Condition

Proposed Start Date: 10/1 /2024

86	61016086-Cut	402.7	4110 - Sugar Maple Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Select thin stand to promote growth of better-quality/health trees. Reduce average volume to approximately 80 BA. Possibly create some small gap openings for regeneration. Mark to remove multi-stems and poor form trees first. Spec to cut all beech but green mark any beech that exhibit little or no signs of beech bark disease. Leave all conifers.

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

Acceptable mix of maple, cherry, ash, basswood to meet or exceed minimum stocking requirements.
Regen:

Other Also, add spec to remove any ironwood as needed to facilitate logging operations.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

105	61016105-Cut	20.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	95	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
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Prescription Select thin stand to promote growth of better-quality/health trees. Reduce average volume to approximately 80 BA. Possibly create some small gap openings for regeneration. Mark to remove multi-stems and poor form trees first. Spec to cut all beech but green mark any beech that exhibit little or no signs of beech bark disease. Leave all conifers.

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

Acceptable Mix of maple, cherry, ash, basswood, oak to meet or exceed minimum stocking requirements.
Regen:

Other Also, spec to remove any ironwood as needed to facilitate logging operations.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

Approved Treatments:

57	61016086-Spray	30.1	4110 - Sugar Maple Association	Sawtimber Well	100	81-110	Pesticide	ERROR	411 - Northern Hardwood	Uneven-Aged	No
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Prescription will consist of herbicide application to advance regeneration and non-tree competing vegetation (e.g. sedge, Rubus), followed by scarification of the forest floor.
Specs:

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Scarification
Treatments:

Acceptable Mixed Northern Harwood species
Regen:



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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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Other Percent to Treat = 6%
Comment: MWR study

Site Condition

Proposed Start Date: 10/1 /2019

Total Treatment 992
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit
 Craig Allen : Examiner

Compartment: 16
 Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		5B	5C	2F	2G	3D	3J	5E	
925	889	9	28	Aspen		9	1	0			5	22
9	9	0	0	Bog								
39	39	0	0	Herbaceous Openland								
166	166	0	0	Low-Density Trees	0							
56	0	0	56	Lowland Conifers				56				
67	55	0	12	Mixed Upland Deciduous			9					3
3	2	0	1	Natural Mixed Pines			1					
1189	1130	0	59	Northern Hardwood	0		59					
19	0	0	19	Oak					19			
120	106	0	15	Red Pine			3		6			6
104	101	0	3	Upland Mixed Forest				0				3
1	1	0	0	Water				0				
197	197	0	0	White Pine								
2,896	2,695	9	193	Total Forested Acres	0	9	74	56	24	5		33
	93%	0%	7%	Relative Percent								

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	8	2G: Too wet (sensitive soils, does not include access issues)	3G: Other Influence zones - See comments	Unspecified	Unspecified
Comments: this area was left as long term retention for adjacent timber sale #61-038-15-01							
2	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 							

Report 4 – Site Conditions

Traverse City Mgt. Unit
 Craig Allen : Examiner

Compartment: 16
 Year of Entry: 2025

3	Unavailable	2F: Too steep	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3D: Recreational / Scenic values	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: turtle lake access site parcel							
5	Unavailable	2F: Too steep	3	3G: Other Influence zones - See comments	5E: Long-Term Retention	Unspecified	Unspecified
Comments:							
6	Unavailable	3D: Recreational / Scenic values	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
 Craig Allen : Examiner

Compartment: 16
 Year of Entry: 2025

9	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: long term retention along both sides of the road here separating the two aspen stands of different age classes.							
11	Unavailable	2F: Too steep	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: This was side hill unharvestable due to steep terrain and close proximity to Kinney creek.							
12	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: part of long term retention for surrounding harvest area.							
16	Unavailable	2F: Too steep	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
 Craig Allen : Examiner

Compartment: 16
 Year of Entry: 2025

17	Unavailable	2F: Too steep	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Kinney Creek corridor.							
20	Unavailable	5E: Long-Term Retention	6	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	3D: Recreational / Scenic values	6	3G: Other Influence zones - See comments	5E: Long-Term Retention	Unspecified	Unspecified
Comments:							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Manage this portion of stand 56 with stand 21 of adjacent compartment 17.							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Craig Allen : Examiner

Compartment: 16
Year of Entry: 2025

25	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: purposed retention area for surrounding sale area...down in frost pocket and mostly pine. Can be made bigger if needed.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water 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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
1	42110 - Planted Red Pine	Sapling Well	27.5	10	1-50	N/A																																										
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2	310 - Herbaceous Openland	Nonstocked	2.0		Unspecified	No	small opening between private parcels																																									
3	4319 - Mixed Upland Forest	Sawtimber Well	45.5	65	111-140	N/A	good mixed species stand																																									
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8	4110 - Sugar Maple Association	Sawtimber Poor	7.0	100	1-50	N/A																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10	4112 - Maple, Beech, Cherry Association	Sawtimber Well	47.1	93	51-80	N/A	Also has a few white pine
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	15	Log/Pole	13		White Pine	Low	< 5 feet	Sapling
Bigtooth Aspen	5	Log/Pole	10		Sugar Maple	Medium	Variable	Pole
Red Maple	25	Log/Pole	12		Ironwood	Medium	Variable	Sapling
Black Cherry	5	Pole/Log	9		Sugar Maple	Low	Variable	Sapling
Sugar Maple	50	Log/Pole	12	93				

11	4119 - Mixed Northern Hardwoods	Sawtimber Poor	145.8	95	1-50	N/A	a very mixed and diverse semi open stand. lots of pockets of regen of various species in clumps and islands. Also, includes some red pine and scotch pine located more in northwest lobe.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Pole/Log	9		Red Maple	Low	Variable	Sapling
Sugar Maple	15	Log/Pole	12		White Pine	Low	Variable	Sapling
Black Cherry	15	Log/Pole	12		Sugar Maple	Low	Variable	Sapling
White Pine	15	Log/Pole	11					
Quaking Aspen	5	Pole	8					
Basswood	15	Log/Pole	14					
Red Maple	25	Log/Pole	11	95				

12	310 - Herbaceous Openland	Nonstocked	24.1		Unspecified	No	I
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13	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.1	98	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Log/Pole	16		Sugar Maple	Medium	Variable	Pole
Beech	3	Log/Pole	12		Sugar Maple	Low	Variable	Sapling
Basswood	10	Log/Pole	14		Ironwood	Low	Variable	Sapling
Red Maple	40	Log/Pole	10	98				
Sugar Maple	42	Log/Pole	12	98				

14	330 - Low-Density Trees	Nonstocked	46.1		Unspecified	No	
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15	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	25.6	66	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Log/Pole	12		White Pine	High	Variable	Sapling
White Pine	65	Pole/Log	8	66				
Red Maple	10	Pole/Log	9					
Bigtooth Aspen	15	Log/Pole	12					
Black Cherry	5	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
16	4130 - Aspen	Sapling Well	39.2	17	Unspecified	N/A																																																																
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19	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.7	98	81-110	N/A																																																																
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22	4311 - Pine, Aspen Mix	Poletimber Well	55.3	65	51-80	N/A	Also contains scattered white and red oak.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 24.0 119 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Log/Pole	15		Hemlock	Medium	Variable	Pole
Northern White Cedar	40	Log/Pole	12	119	Northern White Cedar	Low	10 - 20 feet	Sapling
Red Maple	20	Log/Pole	12		Red Maple	Medium	Variable	Sapling
Hemlock	20	Log/Pole	11		Hemlock	Low	10 - 20 feet	Sapling
					Northern White Cedar	Medium	Variable	Pole

24 4133 - Aspen, Mixed Pine Poletimber Well 22.0 60 Unspecified N/A

also contains some scattered mature red oak and scattered pole/sap red oak and a few basswood.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	35	Log/Pole	10		White Oak	Low	Variable	Sapling
Bigtooth Aspen	37	Log/Pole	10	60	White Pine	Medium	Variable	Sapling
Quaking Aspen	15	Pole	8	34	White Pine	Medium	Variable	Pole
Red Maple	10	Log/Pole	11					
Black Cherry	3	Log/Pole	12					

25 310 - Herbaceous Openland Nonstocked 1.2 Unspecified No

26 310 - Herbaceous Openland Nonstocked 3.0 Unspecified No

27 4116 - Mixed N. Hardwood - Aspen Poletimber Well 12.0 95 81-110 N/A

Also contains occasional sugar maple, Red oak, white oak, White pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	20	Log/Pole	10		Red Maple	Low	Variable	Sapling
Bigtooth Aspen	30	Log/Pole	10		Red Maple	Medium	Variable	Pole
Red Maple	50	Log/Pole	12	95	White Pine	Low	Variable	Sapling
					Ironwood	Medium	Variable	Sapling

28 500 - Water Nonstocked 1.4 Unspecified No

29 4112 - Maple, Beech, Cherry Association Poletimber Well 14.5 98 81-110 N/A

Also a few beech, red pine, white pine, scotch pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log/Pole	12	98	Ironwood	Medium	Variable	Sapling
Red Maple	32	Log/Pole	11		Red Maple	Low	Variable	Sapling
Black Cherry	3	Pole/Log	8		Sugar Maple	Low	Variable	Sapling
Red Oak	5	Log/Pole	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30 42101 - Planted White Pine, Mixed Deciduous Poletimber Well 44.6 46 81-110 N/A Was trenched and planted with white pine. Also contains scattered red and white oak of various sizes.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	35	Log/Pole	10		White Pine	High	Variable	Sapling
White Pine	65	Pole/Log/Sap	7	46	White Oak	Low	Variable	Sapling

31 6225 - Bog Nonstocked 9.2 Unspecified No

32 4139 - Aspen, Mixed Deciduous Sapling Well 51.4 2 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	15	Log/Pole	14		White Pine	Medium	< 5 feet	Sapling
White Pine	15	XLog/Log/Pole	18					
Red Maple	15	Sapling	1	2				
Bigtooth Aspen	50	Sapling	1	2				
Sugar Maple	5	Log/Pole	12					

33 4133 - Aspen, Mixed Pine Poletimber Well 103.3 36 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	15	Log/Pole/XLog	17		Bigtooth Aspen	Medium	Variable	Sapling
Bigtooth Aspen	45	Pole/Sapling	6	36	White Pine	Low	Variable	Sapling
White Pine	25	Log/Pole	11					
Red Maple	10	Pole/Sapling	6	36				
White Oak	5	Log/Pole/XLog	16					

34 4130 - Aspen Sapling Well 24.9 17 Unspecified N/A Also contains scattered mature retention trees of Oak, white pine, red maple

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling	2	17
Bigtooth Aspen	75	Sapling	2	17
Black Cherry	10	Sapling	2	17

35 330 - Low-Density Trees Nonstocked 10.1 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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36 4133 - Aspen, Mixed Pine Poletimber Well 24.3 35 Unspecified N/A Nice mix species stand. Some nice "groves" of hemlock. Stand also has some cedar

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	29	Pole	6	35	Ironwood	Medium	Variable	Sapling
Bigtooth Aspen	30	Pole	6	35	White Pine	Low	Variable	Sapling
Hemlock	5	Log/Pole	12					
Black Cherry	5	Pole	6	35				
White Pine	25	Log/Pole	12					
Red Maple	3	Pole	6					
Red Oak	3	Log/Pole	16					

37 4130 - Aspen Sapling Well 15.9 17 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	2	17
Black Cherry	10	Sapling	2	17
Red Oak	10	Log/Pole	16	100
Quaking Aspen	65	Sapling	2	17
White Pine	5	Log/Pole	10	

38 330 - Low-Density Trees Nonstocked 3.3 Unspecified No

39 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 29.4 110 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	3	Log/Pole	10		White Pine	Medium	Variable	Sapling
Northern White Cedar	15	Pole/Log	9		Hemlock	Medium	Variable	Sapling
Hemlock	20	Pole/Log	9		Red Maple	Low	Variable	Sapling
Red Maple	20	Log/Pole	12					
White Pine	42	Log/Pole/XLog	16	110				

40 42110 - Planted Red Pine Poletimber Well 48.5 67 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log/Pole	10	67	Ironwood	Medium	Variable	Sapling
					Beech	Low	Variable	Sapling
					Sugar Maple	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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41 4130 - Aspen Poletimber Well 71.7 35 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	7	Log/Pole/XLog	17	100	White Pine	Low	Variable	Sapling
Quaking Aspen	40	Pole	6	35				
Bigtooth Aspen	40	Pole	6	35				
White Oak	3	Log/Pole/XLog	17	100				
Black Cherry	10	Pole	6	35				

42 330 - Low-Density Trees Nonstocked 3.4 Unspecified No

43 42201 - Natural White Pine, Mixed Deciduous Poletimber Well 80.0 75 111-140 N/A Younger pine being protected from weevil damage by taller wp and hardwoods

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Log/Pole	12		White Pine	High	Variable	Sapling
Black Cherry	5	Pole/Log	9		White Pine	Medium	Variable	Pole
Bigtooth Aspen	26	Pole/Log	9					
Red Oak	3	Log/Pole	12					
White Pine	60	Log/Pole	11	75				
White Oak	3	Log/Pole	14					

44 4133 - Aspen, Mixed Pine Sapling Well 75.2 6 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Pole/Log	8	64	White Pine	Medium	Variable	Sapling
Black Cherry	5	Sapling	1		White Pine	Low	Variable	Pole
Bigtooth Aspen	35	Sapling	1	6				
Red Maple	10	Sapling	1					
White Oak	10	Log/Pole/XLog	16	100				
Quaking Aspen	10	Sapling	1	6				
Red Oak	10	Log/XLog/Pole	16	100				

Stand was harvested in winter/spring of 2017. All aspen and maple was cut to regen and expand. Many retention trees of maple and aspen where marked to leave. Also, there were retention islands left in the cut as well. No pine or oak was cut.

45 4133 - Aspen, Mixed Pine Poletimber Well 22.8 49 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	3	Log	14		Ironwood	Medium	Variable	Sapling
Bigtooth Aspen	50	Pole/Log	8	49	White Pine	Low	Variable	Sapling
Black Cherry	7	Pole/Log	8	49				
White Pine	25	Pole/Log	8					
Red Maple	15	Pole/Log	8	49				

Also, contains occasional sugar maple, hemlock, basswood.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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46 4112 - Maple, Beech, Cherry Association Sawtimber Well 24.7 93 51-80 N/A Also has a few basswood.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	35	Log/Pole	11	93	Red Oak	Low	Variable	Sapling
Red Maple	35	Log/Pole	11	93	Ironwood	Low	5 - 10 feet	Sapling
White Pine	5	Pole/Log	9		Red Maple	Medium	Variable	Sapling
Black Cherry	15	Log/Pole	11		White Pine	Low	Variable	Sapling
Red Oak	10	Pole/Log	7		Beech	Low	5 - 10 feet	Sapling
					Sugar Maple	Medium	Variable	Sapling

47 4133 - Aspen, Mixed Pine Poletimber Well 9.6 35 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	20	Log/Pole	10		White Pine	Medium	Variable	Sapling
Bigtooth Aspen	77	Pole	6	35				
Red Oak	3	Log/Pole/XLog	17					

48 4133 - Aspen, Mixed Pine Poletimber Well 32.6 40 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	15	Log/Pole/XLog	17		White Pine	High	Variable	Sapling
Red Maple	10	Pole	8					
Bigtooth Aspen	45	Pole	8	40				
White Pine	30	Pole/Log	9					

49 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 3.1 110 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	42	Log/Pole/XLog	16	110	Hemlock	Medium	Variable	Sapling
Red Maple	20	Log/Pole	12		White Pine	Medium	Variable	Sapling
Bigtooth Aspen	3	Log/Pole	10		Red Maple	Low	Variable	Sapling
Hemlock	20	Pole/Log	9					
Northern White Cedar	15	Pole/Log	9					

50 4133 - Aspen, Mixed Pine Sapling Well 30.1 5 1-50 N/A Harvested in september of 2017. Has many scattered retention trees of various species, also retention strip along cinder road.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Sapling	1	5	White Pine	Medium	Variable	Pole
White Pine	20	Log/Pole/Sap	12		White Pine	Full	Variable	Sapling
Red Oak	5	Log/XLog/Pole	17					
Bigtooth Aspen	50	Sapling	1	5				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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52 4130 - Aspen Poletimber Well 31.0 35 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	6	35	Red Oak	Low	>20 feet	Sapling
Bigtooth Aspen	75	Pole	6	35	White Oak	Low	>20 feet	Sapling
Black Cherry	10	Pole	6	35				
Red Oak	5	Log/Pole	17					

53 4130 - Aspen Poletimber Well 18.2 35 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	40	Pole/Sapling	6	35	White Pine	Low	Variable	Sapling
White Pine	15	Log/Pole	12		Ironwood	Medium	Variable	Sapling
Bigtooth Aspen	40	Pole/Sapling	7	35				
Red Oak	5	Log/Pole	16					

54 4112 - Maple, Beech, Cherry Association Sawtimber Well 24.1 100 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	5	Log/Pole	12		Sugar Maple	Low	Variable	Sapling
Sugar Maple	35	Log/Pole	12	100	Sugar Maple	Medium	Variable	Pole
Red Maple	35	Log/Pole	12	100	Ironwood	High	< 5 feet	Sapling
Black Cherry	25	Log/Pole	12	100	Beech	Low	Variable	Sapling

55 4133 - Aspen, Mixed Pine Poletimber Well 39.7 48 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	40	Log/Pole	10		White Pine	High	Variable	Sapling
Red Maple	5	Pole/Log	9					
Quaking Aspen	10	Pole	7	48				
Bigtooth Aspen	45	Pole/Log	9	48				

56 4133 - Aspen, Mixed Pine Poletimber Well 57.9 48 Unspecified N/A Also, some scattered white oak within.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	30	Pole	6	48	White Pine	High	Variable	Sapling
White Pine	20	Pole/Log	9		Red Oak	Low	Variable	Sapling
Bigtooth Aspen	37	Pole	8	48				
Red Oak	5	Log/Pole	14					
Black Cherry	3	Pole	8					
Red Maple	5	Pole/Log	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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57 4110 - Sugar Maple Association Sawtimber Well 30.0 100 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log/Pole	15	100	Beech	High	Variable	Sapling
Beech	5	XLog/Log/Pole	18		Sugar Maple	Low	Variable	Pole
Basswood	30	Log/Pole	16	100	Ironwood	Medium	Variable	Sapling
Black Cherry	5	Log/Pole	14		Sugar Maple	Low	Variable	Sapling

58 4112 - Maple, Beech, Cherry Association Poletimber Medium 41.9 34 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole	6	34	Red Oak	Low	Variable	Sapling
Red Oak	3	Pole	6	34	Red Maple	Low	Variable	Sapling
Black Cherry	67	Pole	6	34	Ironwood	Low	Variable	Sapling
White Pine	10	Log	12		Black Cherry	Medium	Variable	Sapling

59 4199 - Other Mixed Upland Deciduous Poletimber Well 19.7 35 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole	7	35	Red Maple	Medium	Variable	Sapling
Red Oak	10	Pole	7	35	Bigtooth Aspen	Medium	Variable	Sapling
Bigtooth Aspen	30	Pole	7	35				
Black Cherry	20	Pole	7	35				
White Pine	10	Pole	7					

60 4133 - Aspen, Mixed Pine Poletimber Well 7.9 35 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	40	Pole	6	35	White Pine	Medium	Variable	Sapling
Quaking Aspen	32	Pole	6	35				
White Pine	23	Pole/Log	8					
Red Oak	5	Log	14	100				

61 42101 - Planted White Pine, Mixed Deciduous Poletimber Well 47.0 46 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	15	Log/Pole	16		Red Oak	Low	Variable	Sapling
White Oak	5	Log/Pole	17		White Pine	Medium	Variable	Sapling
White Pine	65	Pole	6	46				
Bigtooth Aspen	15	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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62	4131 - Aspen, Oak	Sapling Well	27.2	5	51-80	N/A	Area was harvested in september of 2017 removing all aspen and red maple (to regenerate aspen) along with select oak to stump sprout. Area south of snowmobile trail was select cut to promote various hardwood regen and keep BA higher in that area. Goal of mix species regeneration throughout the stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		10	Log/Pole	10		Red Maple		Medium	Variable	Sapling	
Red Oak		25	Log/Pole	14	95	Bigtooth Aspen		High	Variable	Sapling	
Bigtooth Aspen		45	Sapling	1	5	White Pine		Low	Variable	Sapling	
Red Maple		20	Sapling	1	5						

63	3301 - Low Density Deciduous Trees	Nonstocked	2.7		Unspecified	No	
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64	4112 - Maple, Beech, Cherry Association	Poletimber Well	60.5	80	111-140	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Basswood		3	Log/Pole	12		Ironwood		Medium	Variable	Sapling
Sugar Maple		37	Log/Pole	12	80	Sugar Maple		Medium	Variable	Sapling
Red Oak		5	Log/Pole/XLog	14		Red Oak		Low	Variable	Pole
Red Maple		25	Log/Pole	12						
Black Cherry		27	Log/Pole	12						
Bigtooth Aspen		3	Log/Pole	14						

65	4123 - Red Oak	Sawtimber Well	8.8	96	81-110	N/A	open park-like			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		95	XLog/Log/Pole	18	96	White Oak		Low	Variable	Sapling
Red Maple		5	Pole/Log	9		White Pine		Low	Variable	Sapling

66	4130 - Aspen	Poletimber Well	24.4	35	Unspecified	N/A				
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		10	Pole	6	35					
Bigtooth Aspen		65	Pole	6	35					
Black Cherry		10	Pole	6	35					
Red Oak		15	Log/Pole	16	98					

67	4123 - Red Oak	Sawtimber Well	10.0	100	81-110	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Log/Pole	10		White Pine		High	Variable	Sapling
Bigtooth Aspen		10	Pole/Log	9		Red Maple		Low	Variable	Pole
Red Oak		85	XLog/Log/Pole	18	100					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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68	4131 - Aspen, Oak	Sapling Well	60.4	6	Immature	N/A	Stand was harvested in winter/spring of 2017 to regenerate and expand aspen component. Also cut was red maple and select oak trees with hope of stump sprouts to occur.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	15	Log/Pole/XLog	17	96	White Pine	Low	Variable	Pole
Bigtooth Aspen	35	Sapling	1	6	Red Oak	Low	Variable	Sapling
White Pine	15	Pole	8		White Oak	Low	Variable	Sapling
Black Cherry	10	Sapling	1					
White Oak	5	Sapling	1					
Red Maple	10	Sapling	1	6				
Quaking Aspen	10	Sapling	1	6				

70	4110 - Sugar Maple Association	Sawtimber Well	34.5	96	111-140	N/A	Thinned in 1999 Current BA avg = 120
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Log/Pole	14		Sugar Maple	Low	Variable	Sapling
Basswood	3	Log/Pole	14		Sugar Maple	Medium	Variable	Pole
Beech	3	XLog/Log	18		Ironwood	Medium	Variable	Sapling
Sugar Maple	71	Log/Pole	14	96	Beech	High	< 5 feet	Sapling
Black Cherry	20	Log/Pole	14					

71	4130 - Aspen	Poletimber Well	14.3	35	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	90	Pole	7	35	White Oak	Low	Variable	Sapling
Red Maple	10	Pole	7	35	White Pine	Low	Variable	Sapling

72	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	28.5	110	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Log/Pole/XLog	17		Sugar Maple	Low	5 - 10 feet	Sapling
Red Oak	10	XLog/Log/Pole	20		Red Oak	Low	5 - 10 feet	Sapling
Black Cherry	10	Log/Pole	16		Beech	High	5 - 10 feet	Sapling
Red Maple	75	Log/XLog/Pole	17	110				

73	4110 - Sugar Maple Association	Sawtimber Well	39.1	95	81-110	N/A	Also contains some hemlock, white pine. Was select thinned in 2007.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log/Pole	15	95	Ironwood	Low	< 5 feet	Sapling
Red Maple	15	Log/Pole	15		Beech	High	< 5 feet	Sapling
Basswood	10	Log/Pole	14					
Black Cherry	10	Log/Pole	15					
Red Oak	5	XLog/Log	18					

74	330 - Low-Density Trees	Nonstocked	5.5		Unspecified	No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
75	4131 - Aspen, Oak	Poletimber Well	30.4	63	Unspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Oak	20	XLog/Log	19		Red Maple	Low	Variable	Sapling
	Red Maple	10	Log/Pole	11	63	White Pine	Low	Variable	Sapling
	Bigtooth Aspen	70	Log/Pole	11	63	White Pine	Low	Variable	Pole
						Red Oak	Low	Variable	Sapling
76	4112 - Maple, Beech, Cherry Association	Sawtimber Well	20.5	100	111-140	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Black Cherry	15	Log/Pole	13		Ironwood	Medium	5 - 10 feet	Sapling
	Sugar Maple	55	Log/Pole	13	100	Beech	Medium	5 - 10 feet	Sapling
	Red Maple	20	Log/Pole	13		Sugar Maple	Low	>20 feet	Sapling
	Beech	5	Log/XLog	17					
	Basswood	5	Log/Pole	13					
77	4110 - Sugar Maple Association	Sawtimber Well	55.1	95	111-140	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Red Maple	10	Log/Pole	12		Sugar Maple	Medium	Variable	Sapling
	Black Cherry	32	Log/Pole	12		Sugar Maple	Medium	Variable	Pole
	Sugar Maple	45	Log/Pole	12	95	Ironwood	Low	Variable	Sapling
	Beech	3	Log/Pole	12		Beech	Low	Variable	Sapling
	Basswood	10	Log/Pole	12					
78	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.4	90	111-140	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Black Cherry	15	Log/Pole	11		Sugar Maple	Low	Variable	Sapling
	Red Maple	80	Log/Pole	11	90	Beech	Medium	Variable	Sapling
	Sugar Maple	5	Log/Pole	12		Ironwood	Medium	Variable	Sapling
						Red Maple	Medium	>20 feet	Pole
79	4130 - Aspen	Poletimber Well	16.2	35	Unspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Black Cherry	10	Pole/Sapling	7	35	Black Cherry	Low	Variable	Sapling
	Red Maple	20	Pole/Sapling	7	35	Red Maple	Low	Variable	Sapling
	Bigtooth Aspen	70	Pole/Sapling	7	35	Beech	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
80	4110 - Sugar Maple Association	Sawtimber Well	51.1	95	111-140	N/A																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>50</td> <td>Log/Pole</td> <td>14</td> <td>95</td> </tr> <tr> <td>Beech</td> <td>10</td> <td>Log/Pole</td> <td>16</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>Basswood</td> <td>35</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	50	Log/Pole	14	95	Beech	10	Log/Pole	16		Black Cherry	5	Log/Pole	14		Basswood	35	Log/Pole	14		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Ironwood</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Medium</td> <td>Variable</td> <td>Pole</td> </tr> <tr> <td>Beech</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Medium	Variable	Sapling	Sugar Maple	Medium	Variable	Pole	Beech	Medium	Variable	Sapling									
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Beech	Medium	Variable	Sapling																																																		
81	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	13.3	35	51-80	N/A																																															
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82	4199 - Other Mixed Upland Deciduous	Poletimber Well	33.8	50	81-110	N/A	Also, some scattered beech and basswood.																																														
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83	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	2.9	95	81-110	N/A																																															
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84	4110 - Sugar Maple Association	Sawtimber Well	66.1	95	81-110	N/A	Also, some scattered hemlock. Lots of large woody debris due to ash dying out.																																														
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85	330 - Low-Density Trees	Nonstocked	6.6		Unspecified	No																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
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87	42110 - Planted Red Pine	Sapling Well	29.6	10	Immature	N/A	Previously a jack pine/red pine strip plantation that was clearcut to replant all to red pine (part of "red pine project") Was replanted on 5/3/2013 with 2-0 seedlings.																																															
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88	42110 - Planted Red Pine	Poletimber Medium	3.1	72	111-140	N/A	Has some oak saps too.																																															
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89	4119 - Mixed Northern Hardwoods	Sawtimber Well	29.6	96	51-80	N/A	Good mixed species regen in understory...saps and poles.																																															
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91	4110 - Sugar Maple Association	Sawtimber Well	48.8	95	111-140	N/A																																																
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94	4139 - Aspen, Mixed Deciduous	Poletimber Well	29.5	47	Unspecified	N/A																																													
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96	4110 - Sugar Maple Association	Sawtimber Well	10.6	92	51-80	N/A																																													
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98	4133 - Aspen, Mixed Pine	Sapling Well	21.5	6	Immature	N/A	Area was harvested in winter/spring of 2017. Aspen and maple cut. White pine was left uncut. Also contains some scattered mature red oak and scattered pole/sap red oak. A couple retention islands were left in the cut area and some scattered retention trees of maple and aspen.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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99 4130 - Aspen Poletimber Well 7.6 65 81-110 N/A Also, has some scattered oak saps/poles

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole/Log	9		White Pine	Low	Variable	Pole
Black Cherry	3	Pole/Log	8		White Pine	Medium	Variable	Sapling
White Pine	19	Pole/Log	9					
Bigtooth Aspen	30	Log/Pole	10	65				
White Oak	5	Log/Pole	16	100				
Red Oak	10	Log/Pole	16	100				
Quaking Aspen	30	Pole	8	65				

103 4311 - Pine, Aspen Mix Poletimber Well 3.1 75 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	3	Log/Pole	14		White Pine	High	Variable	Sapling
White Pine	54	Pole/Log	9	75	White Pine	Medium	Variable	Pole
Bigtooth Aspen	35	Pole/Log	9					
Black Cherry	5	Pole/Log	9					
Red Oak	3	Log/Pole	12					

105 4112 - Maple, Beech, Cherry Association Sawtimber Well 20.2 95 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Log/Pole	15	95	Beech	High	5 - 10 feet	Sapling
Sugar Maple	30	Log/Pole	15	95	Ironwood	Medium	Variable	Sapling
Beech	10	Log/XLog/Pole	17		Red Maple	Low	Variable	Pole
Red Oak	10	XLog/Log	18		Sugar Maple	Low	Variable	Pole
Black Cherry	15	Log/Pole	14					

106 4116 - Mixed N. Hardwood - Aspen Sapling Well 16.2 5 Immature N/A Salvage/ regen harvest in September/October of 2017 due to oak wilt and beech bark disease.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	20	Sapling	1	5	Ironwood	Medium	Variable	Sapling
Sugar Maple	40	Sapling	1	5	Red Oak	Low	Variable	Sapling
Black Cherry	10	Sapling	1		Sugar Maple	Low	Variable	Pole
Basswood	15	Log/XLog	14		Beech	High	Variable	Sapling
Sugar Maple	15	Log/XLog	14	95				

108 4133 - Aspen, Mixed Pine Poletimber Well 1.5 70 81-110 N/A This was side hill unharvestable due to steep terrain and close proximity to Kinney creek.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Log/Pole	10		Ironwood	Low	Variable	Sapling
Red Oak	20	Log/Pole	14		White Pine	Medium	Variable	Sapling
White Pine	20	Pole/Log	9					
Bigtooth Aspen	40	Log/Pole	10	70				