



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61006

Entry Year 2025

Acreage: 2,337

County Benzie

Management Area: Grand Traverse Moraine

Stand Examiner: Pat Ruppen

Legal Description:

T27N R14W Sections 3, 4, 9, 10, 15, 16

Identified Planning Goals:

This compartment falls within the Grand Traverse Moraines management area, for which a plan is being developed. The current draft of the plan calls for maintenance of northern hardwood, aspen, and plantation pine cover types, among others, using mainly partial with some final harvests.

There are numerous pine plantations of various species throughout the compartment. Red and white pine plantations are growing well and should be maintained with periodic thinnings. Several of these have a significant component of hardwoods and the potential exists to gradually be managed toward a more natural mix, focusing on retention of higher quality trees with each thinning and on increasing within-stand species diversity. Several red and white pine stands are scheduled for thinning this planning period to help maintain vigor and growth within the stand.

While there are some better-than-average quality hardwood stands in the compartment, most are of middling quality and are at risk of significant insect damage and subsequent tree species loss. Ash trees have succumbed to emerald ash borer, and beech scale /beech bark disease has begun to spread. Most of the compartment's hardwood stands have been managed in the long run under uneven-aged management regimes using periodic selection harvests. These past treatments have resulted in even aged hardwood stands that are aging with larger diameter trees. The failure of past regeneration attempts is a concern and has resulted in the current even- aged condition of the hardwood stands.

Excessive deer browsing seems to be the largest factor in the lack of desirable regeneration. With many hardwood stands reaching this age and condition, innovative treatments should be attempted to encourage successful regeneration of desirable species. One stand is prescribed to have larger regeneration gaps put in through a series of small clearcut gaps within the stand. Several stands are prescribed for thinnings this entry. Also, one stand of lower quality is recommended for a final harvest (clearcut) . This stand will be planted to red pine after harvest.

Previous clearcuts in mixed hardwood-aspen stands have resulted in well-stocked aspen, cherry and maple regeneration, with small amounts of other hardwoods. There are a couple small stands that will be recommended for final harvest to restart these mixed stands with an aspen component. Aspen stands in the compartment are mostly immature. Some small regeneration cuts of merchantable aspen would benefit local wildlife habitat diversity, including mature aspen inclusions within hardwood stands. Scattered forest openings should be maintained as such for local wildlife habitat diversity.

Soil and topography:

Soils within the compartment are predominantly Kaleva and Benzonia sands, with minor occurrences of other sandy soil types. Topography is generally rolling to hilly, with numerous small kettle depressions. There are two notable valleys, one stretching from near the middle of section 4 to the east then south through section 3; the other running southwest to northeast through state land in section 15 and across the southeast part of section 10.

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

State ownership is solid and contiguous with other state land in adjacent compartments to the north, east, and south. There is one isolated quarter-section in section 16 which is contiguous with state land in compartment 7. Private lands in the SW part of this compartment and to the west are predominantly rural residential tracts with woodlots and old farm fields and orchards.

Unique Natural Features:

Remnant black walnut trees have spread from an old farmstead and are scattered around south section 10 and north section 15, providing a unique mast resource.

Archeological, Historical, and Cultural Features:

There is evidence of old homesteads at several sites within the compartment. Bland Cemetery is just to the north across Oviatt Road. An old rail grade runs SW-NE through a valley in parts of sections 10 and 15.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

There are no waterbodies in this compartment, so Fisheries has no concerns at this time.

Wildlife Habitat Considerations:

Approximately 15% of compartment 6 lies on a broad moraine ridge. This LTA is characterized by having well-drained sandy loams on rolling ridges. In presettlement times this LTA was almost completely beech-maple forest. Currently, State ownership of this LTA in compartment 6 is mostly northern hardwoods and pine plantations. Existing hardwood stands should be managed to perpetuate the cover type, 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. Red and white pine plantations have hardwood regeneration in the understories. Many of these stands could be gradually moved via periodic thinnings toward northern hardwood types, retaining a significant conifer component.

The remainder of the compartment is located on a broad flat outwash plain. Presettlement vegetation was mostly beech-maple forest. Wild fires were common to most of this LTA, but the situation of this area near Lake Michigan and between moraines probably limited fire frequency, allowing later successional stages to predominate. Currently, this outwash plain within this compartment harbors a mosaic of conifer plantations, hardwoods, remnant fields, and a few young aspen stands. Conifers are rare outside the plantations. This LTA should be managed to perpetuate hardwoods, allow some of the pine plantations and openings to succeed to hardwoods, and maintain selected openings. The loss of Beech mast is a definite concern and plans and work should continue in order to find a replacement for this valuable wildlife food source. Pockets of higher quality aspen could be maintained adjacent to hardwood stands via periodic patch cutting. These aspen pockets should be located in the fringes of draws, where fires or windstorms might have naturally pushed into adjacent ridges. Such a habitat mosaic would benefit species such as red squirrel, American redstart, chestnut-sided warbler, ruffed grouse, white-tailed deer, broad-winged hawk, and red-backed salamander. Suitable northern goshawk habitat may be present.

Mineral Resource and Development Concerns and/or Restrictions

Benzie County surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and an end moraine of coarse-textured glacial till. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Devonian Traverse Group. The Traverse is used for stone and cement products. The nearest gravel pit is located one mile to the west and potential should be good. This area is located northwest of the Antrim Shale gas play. The Antrim Shale appears to be pinched out and to have limited potential. There are currently no oil and gas leases in the compartment.

Vehicle Access:

Access is mostly adequate throughout the compartment for management purposes, although some trail roads are partly closed in. A short connector is being proposed to link an existing trail road in section 10 to another trail road leading to Valley Road. This will improve timber harvesting options and avoid the snowmobile trail.

Survey Needs:

Monumentation is adequate.

Recreational Facilities and Opportunities:

Snowmobile trail #3 (Platte River Snowmobile Trail) runs roughly North/South through sections 3, 10, and 15 of the compartment. 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 hunting experiences for future generations. A non-winter harvest, coupled with avoiding the use of the trail as a haul route, is suggested. The area is also popular for deer hunting. Dispersed recreation includes berry and mushroom picking. Sleeping Bear Dunes National Lakeshore is less than 2 miles west of the compartment. Garey Lake group camp area, and Garey Lake designated-site State Forest Campgrounds are less than 2 miles to the east of the compartment.

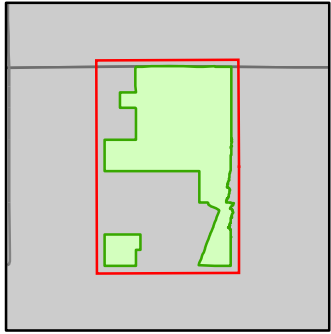
Fire Protection:

Initial attack fire protection for this compartment is normally handled out of the Platte River DNR office with assistance provided by the Homestead Volunteer Fire Department in Honor. Additional mutual aid is provided from Almira VFD and, if needed, from Leelanau County fire departments. Because no fire officers are stationed at Platte River, initial attack for wildland fire suppression is now dispatched from the Traverse City Field Office. Road access into all areas is fair, with some limitations on larger equipment because all interior access roads in the area are seasonal dirt roads. Wildfire in the compartment has historically been relatively low; due to the fuel types this is not a high risk area. Travel time for equipment from the Traverse City Field Office is a concern.

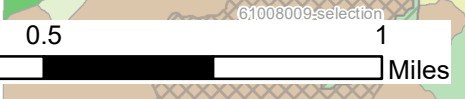
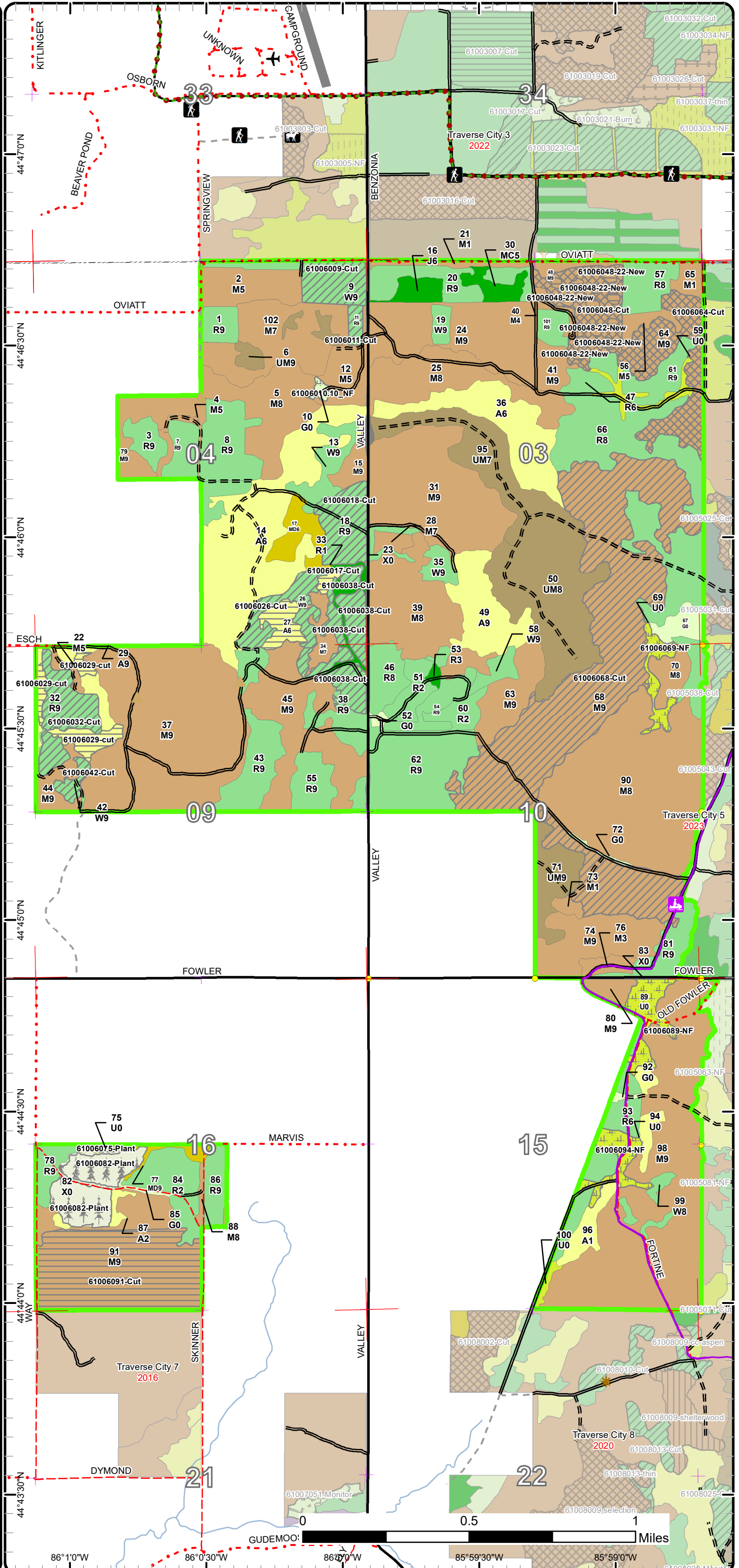
Additional Compartment Information:

Cover Type & Treatments Map

Compartment: 6
 T27N, R14W, Sec. 3, 4, 9, 10, 15, 16
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Grand Traverse Moraine
 YOE: 2025
 Acres: 2337.1 GIS Calculated
 Examiner: Pat Ruppen
 Map Revised: 5/10/2023
 Map Phase: Web-Post



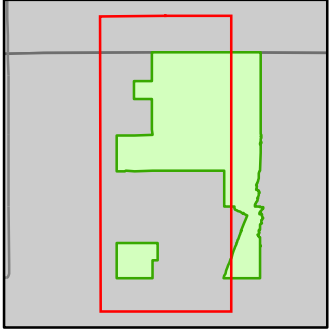
- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- ▭ Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- 🚙 Snowmobile Trails
- 🚙 Designated Snowmobile Trails
- Perennial River
- ▲ Berms
- ☠ Cemetery
- ▭ Compartment Boundary
- ▭ Other Treatment - See Comments
- ▭ Selection (Group, Single Tree)
- ▭ Planting (Tree Species)
- ▭ Clearcut (w/Reserves)
- ▭ Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 790 - Other Bare/Sparsely Vegetated



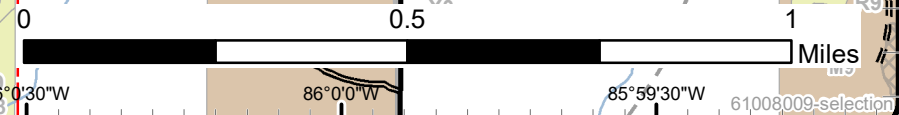
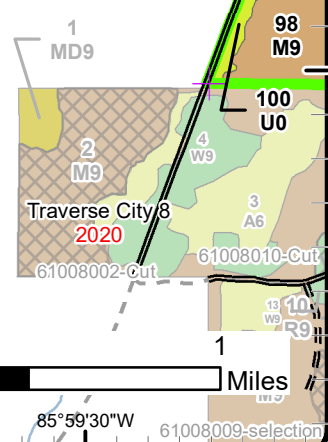
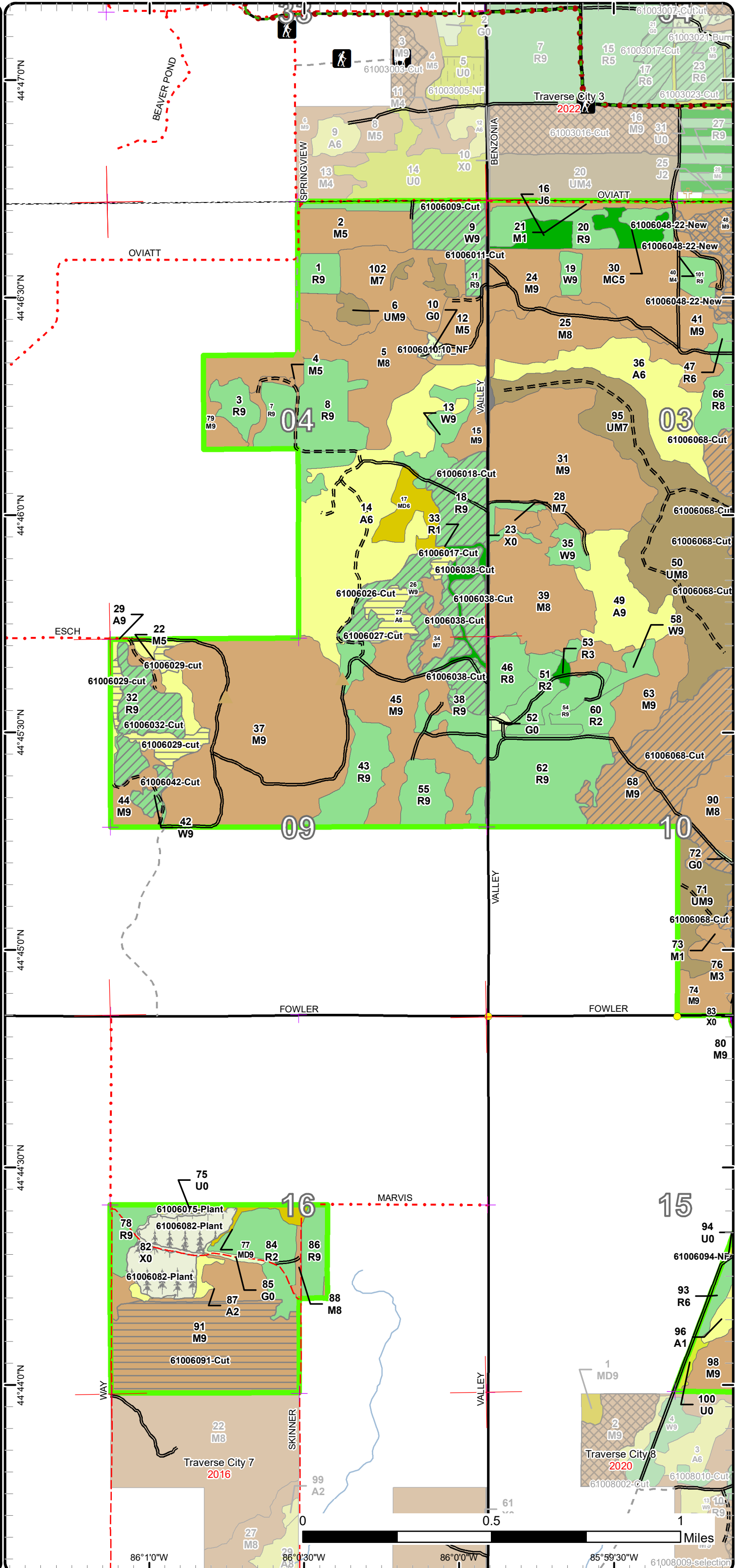
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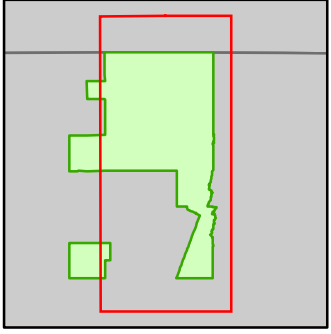


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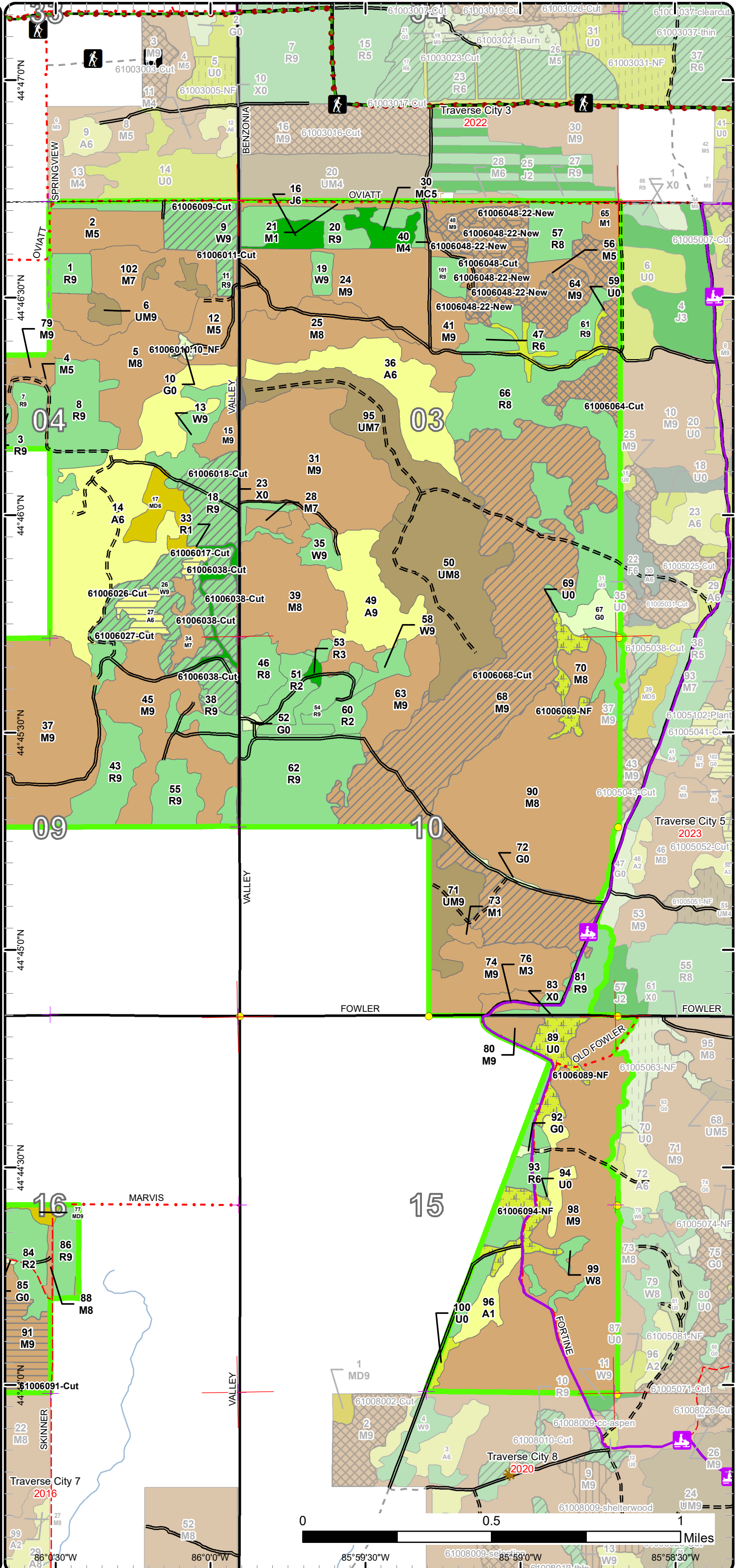


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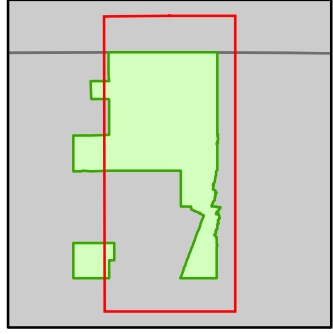


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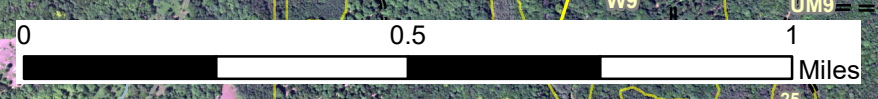
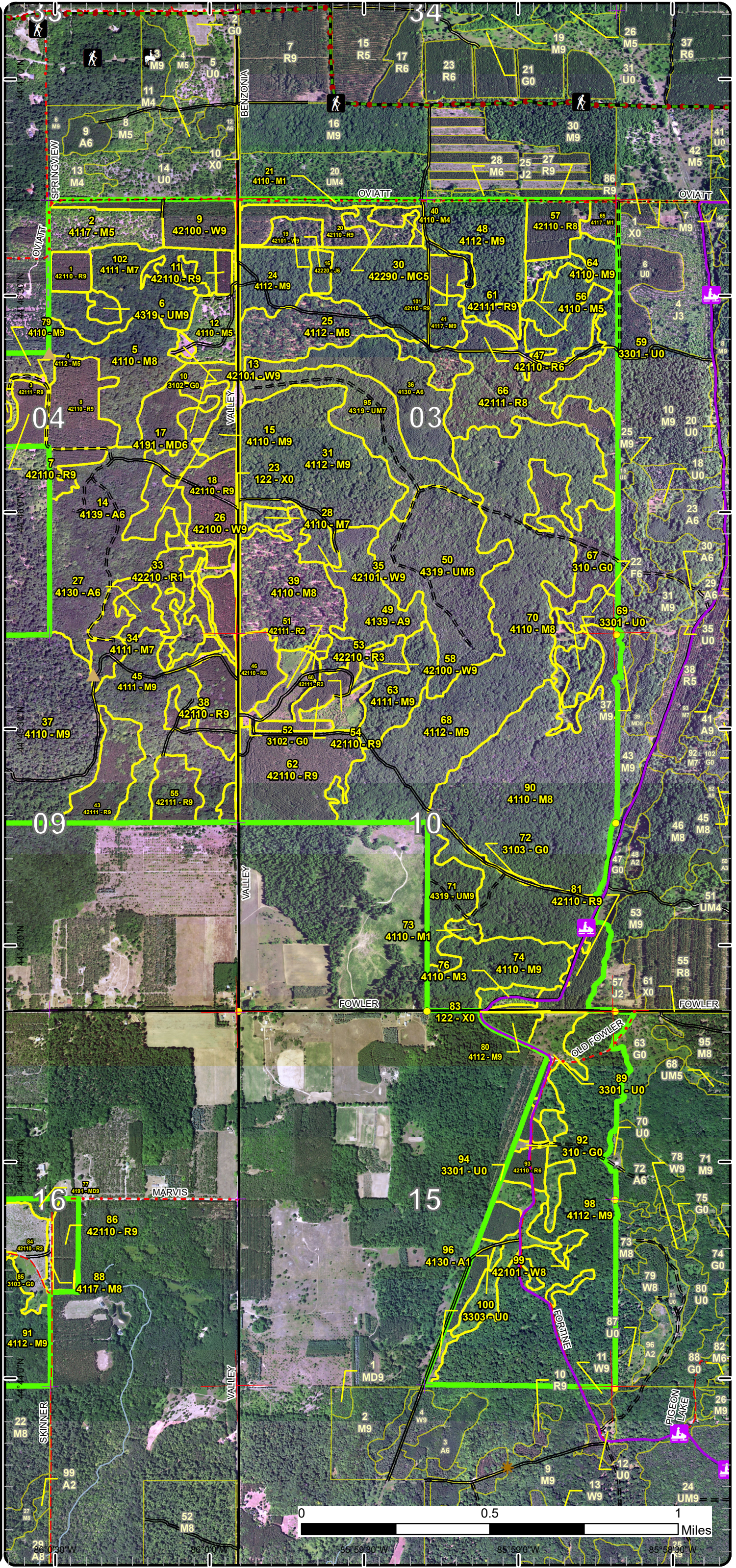


Stand Boundary Map

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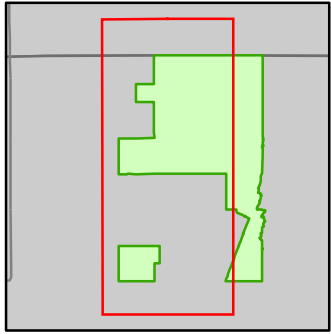


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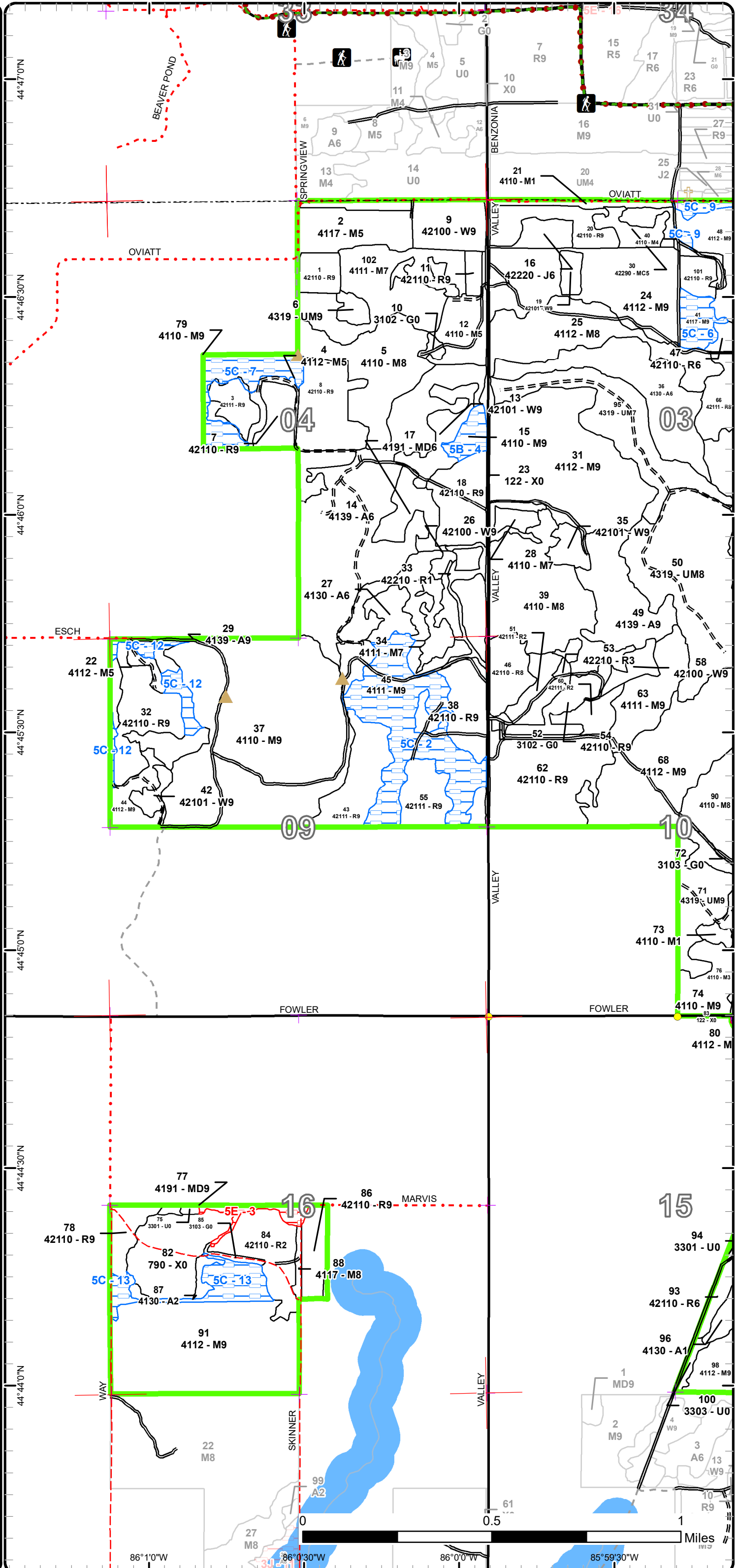


Special Conservation Areas

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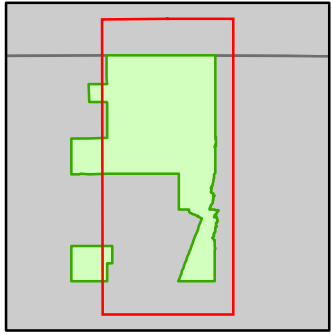


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- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

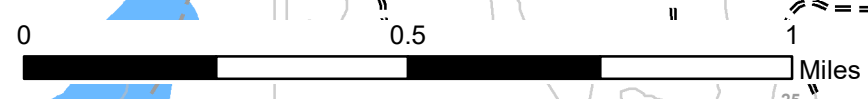
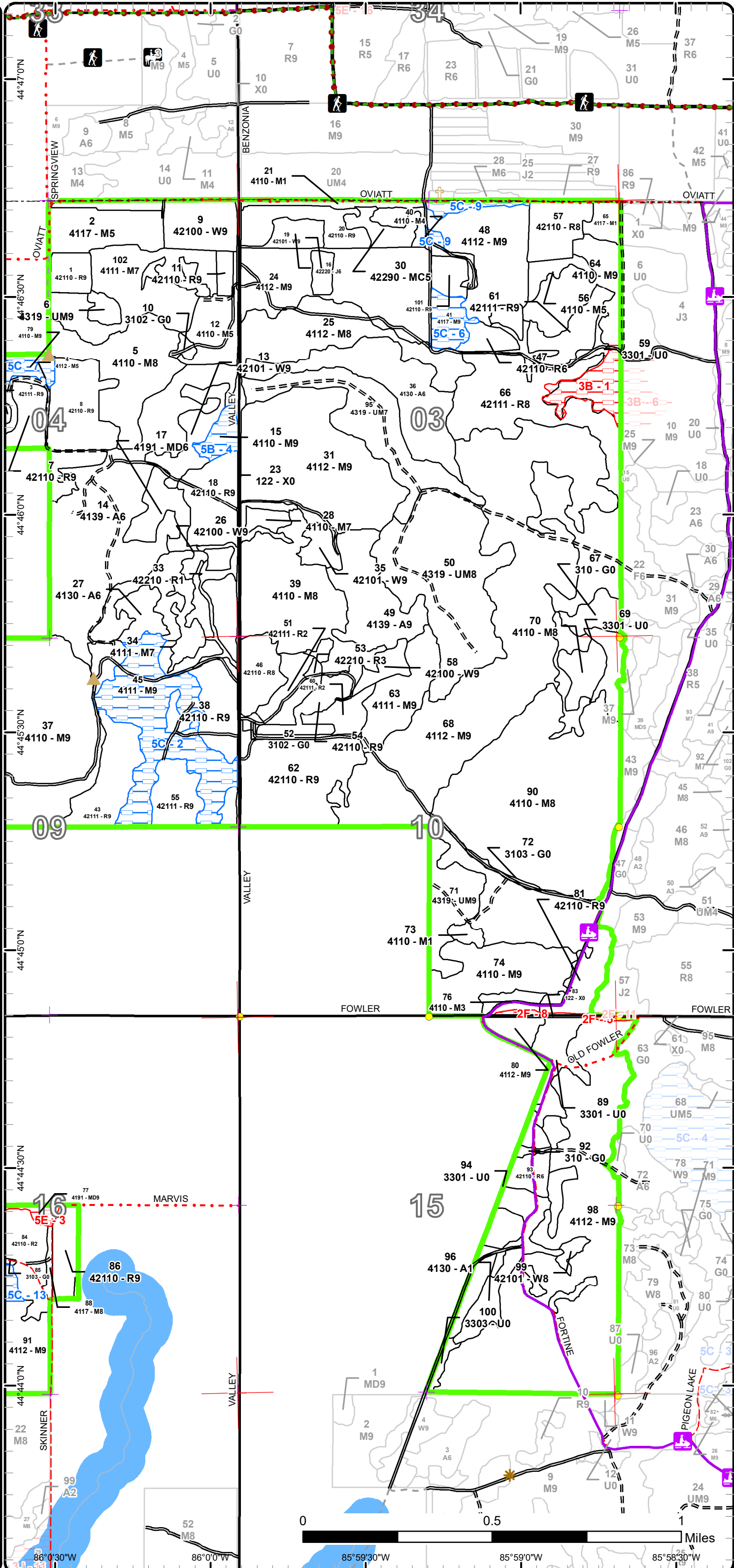


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- Cemetery
- Trailhead
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



86°0'30"W 86°0'0"W 85°59'30"W 85°59'0"W 85°58'30"W

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**

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	4	16	0	39	127	0	21	0	0	0	0	0	0	0	0	0	0	206
Bare/Sparsely Vegetated	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Herbaceous Openland	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Jack Pine	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Low-Density Trees	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Mixed Upland Deciduous	0	0	0	0	0	13	5	0	0	0	0	0	0	0	0	0	0	0	17
Natural Mixed Pines	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
Northern Hardwood	0	6	3	0	10	5	47	3	0	21	663	38	504	0	0	0	0	0	1300
Red Pine	0	0	45	0	0	0	46	385	20	0	0	0	0	0	0	0	0	0	494
Upland Mixed Forest	0	0	0	0	0	0	0	135	0	0	0	0	0	0	0	0	0	0	135
Urban	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
White Pine	0	0	0	0	0	0	6	63	0	0	0	0	0	0	0	0	0	0	68
Total	95	10	64	0	56	152	104	607	20	21	663	38	504	0	0	0	0	0	2329



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 6
Total Compartment Acres: 2,337

Commercial Harvest - 467
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 8

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	22	0	0	0	0	0	0	0	0	22
Northern Hardwood	83	63	0	0	0	201	0	0	0	347
Red Pine	0	0	0	0	0	71	0	0	0	71
White Pine	0	0	0	0	0	36	0	0	0	36
Total	105	63	0	0	0	308	0	0	0	475

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	475	0	26	0	0	0	0	32	0	533
Next Step	0	150	75	0	0	75	295	0	0	595
Total	475	150	101	0	0	75	295	0	32	1128



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:

9	61006009-Cut	16.5	42100 - Planted White Pine	Sawtimber Well	64	141- 170	Harvest	Crown Thinning	42100 - Planted White Pine	Even-Aged	No
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Prescription Reduce basal area to 120 by thinning in rows. Stand has been third row thinned in past. Treat with stand 11 to south.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old homestead site in NE corner of stand.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

11	61006011-Cut	3.3	42110 - Planted Red Pine	Sawtimber Well	66	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Reduce basal are to 120 by marking with rows. Stand has been third row thinned.

Specs:

Next Step

Treatments:

Acceptable red pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

27	61006017-Cut	1.9	4130 - Aspen	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Retain some well formed widely spaced hardwood and pine for seed and mast production. Harvest remaining stems to regenerate stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, pine, hardwoods.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat
											Cut

18	61006018-Cut	19.5	42110 - Planted Red Pine	Sawtimber Well	66	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin trees in rows for crown release. Reduce basal area to @120. Remove poor formed or damaged trees as found. Stand has been 3rd row thinned. Current stocking is variable but avg =160.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Recommend selling stands 26,27,38 and 18 in one sale.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

26	61006026-Cut	15.1	42100 - Planted White Pine	Sawtimber Well	64	171-200	Harvest	Crown Thinning	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription Thin pine in rows where stocking is high. Reduce ba to 120. Thin hardwoods as needed for crop tree release.
Specs:

Next Step
Treatments:

Acceptable pine, aspen, hardwood mix.
Regen:

Other Recommend selling stands 26,27,38 and 18 in one sale.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

27	61006027-Cut	8.2	4130 - Aspen	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Retain some scattered well formed maple and pine (10 ba or less) . Harvest remaining stems to regenerate stand. Recommend selling stands 26,27,38 and 18 in one sale.
Specs:

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

Acceptable Aspen, pine, hardwood mix.
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
29 61006029-cut	11.8	4139 - Aspen, Mixed Deciduous	Sawtimber Well	66	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Harvest to regenerate aspen. Cut aspen and low- quality hardwoods. Orange mark hardwoods and spec cut aspen. Retain some well-formed larger hardwoods for seed but target for harvest some of the large poor formed wolfy maple. Cut beech and ironwood as found. Try to protect pole sized maple.</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> aspen, pine, oak, hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u> Private line is generally marked by landowner but not real straight. Corner noted at north end but not look for in south. Probably is there but</p> <p><u>Comment:</u> needs verified.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2024</p>										
32 61006032-Cut	21.5	42110 - Planted Red Pine	Sawtimber Well	69	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> reduce basal area to 120. Target poor formed and suppressed trees for removal. Thin from above as possible to reduce average size.</p> <p><u>Specs:</u> Stand has been thinned in past but seems to have been randomly marked. Rows are hard to follow. May need some rows marked through.</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>Proposed Start Date: 10/1 /2024</p>										
38 61006038-Cut	26.6	42110 - Planted Red Pine	Sawtimber Well	66	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Crown thin the red pine in rows. Has been 3rd row thinned but some rows may need to be extended. Hilly terrain. Thin associated hardwood as needed. Remove poor formed and low quality hardwoods as possible. Reduce basal area to @120. Current BA= 165 avg but stocking is variable. Some decline in south edge of north block.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> N/A</p> <p><u>Regen:</u></p> <p><u>Other</u> Recommend selling stands 26,27,38 and 18 in one sale.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 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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42 61006042-Cut	4.2	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	66	141- 170	Harvest	Crown Thinning	4210 - Planted White Pine	Even-Aged	No
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Prescription Thin in rows to reduce basal area to 120 avg. Target suppressed and poor formed trees. Target larger trees after that to reduce average size. Has been third row thinned.

Next Step
Treatments:

Acceptable pine and northern hardwoods.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

48 61006048-22-New	8.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	104	111- 140	Harvest	Clearcut	411 - Northern Hardwood	Even-Aged	Yes
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Prescription Cut all stems within harvest pockets regardless of merchantability.
Specs:

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

Acceptable Northern hardwood mix: maple, cherry, basswood, aspen, oak, pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

48 61006048-Cut	25.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	104	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
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Prescription Mark stand to reduce basal area to 70-90. Remove most poor quality and oversized trees. Release crop trees in areas with higher quality and stocking. Remove most remaining beech.
Specs:

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

Acceptable Northern hardwood mix.
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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64	61006064-Cut	37.5	4110 - Sugar Maple Association	Sawtimber Well	97	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark stand for crop tree release. Reduce basal area to 70-90. Remove most remaining beech. Remove most poor formed and oversized trees.
Specs:

Next Step Monitoring, Artificial Regen(1yr)
Treatments:

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

Other Possible red shouldered hawk nest in south part of stand. Factor limited at this time. WLD will investigate.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

68	61006068-Cut	201.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	112	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Mark stand for crop tree release removing poor quality and oversized trees. Reduce basal area to 80-90. Some areas are heavier to red maple and cherry with more oversized stems. Focus on removing largest stems and lower quality stems in these areas. Will be difficult to find crop trees to keep in these areas. Other areas are heavier to sugar maple which would benefit from crop tree release. Do not cut well formed sugar maple just to bring basal area down. Should be enough poor quality trees to meet basal area goals in most areas. Keep yellow birch and most basswood unless diseased.
Specs:

Next Step
Treatments:

Acceptable Northern hardwood mix: maple, cherry, basswood, aspen, oak, pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

69	61006069-NF	7.8	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.
Specs:

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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89	61006089-NF	12.1	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub	No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

91	61006091-Cut	74.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	92	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Cut all stems regardless of merchantability. Cut stumps down to 6" or less and chip tops to prepare site for planting. Plant red pine after site prep.

Next Step SitePrep, Trenching; Pesticide, Aerial - Site Prep; SitePrep, Roller Chopping; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable planted red pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

94	61006094-NF	10.3	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub	No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

Approved Treatments:

10	61006010.10_ NF	1.7	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3102 - Grass	No
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Prescription 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. Prune remnant apple trees.

Next Step
Treatments:

Acceptable
Regen:

Other Old farm field. Be mindful of old foundations, etc.
Comment:

Site Condition



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 Start Date: 10/1 /2025

75	61006075- Plant	0.7	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	Planting	Initial Plant	42110 - Planted Red Pine	Even-Aged	No
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Prescription RP

Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable planted RP; some volunteer maple, cherry, or WP ok too

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

82	61006082- Plant	25.6	790 - Other Bare/Sparsely Vegetated	Nonstocked	0	Unspec ified	Planting	Initial Plant	42110 - Planted Red Pine	Even-Aged	No
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Prescription red pine

Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable planted red pine with a very small amount of JP volunteers

Regen:

Other Percent to Treat = 90%

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

Total Treatment 533.4
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 6

Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions				
Acres	Available	With Condition	Not Available	5B	5C	2F	3B	5E
207	197	10	0	Aspen	0	10		
28	28	0	0	Bare/Sparsely Vegetated				
15	15	0	0	Herbaceous Openland				
7	7	0	0	Jack Pine				
40	40	0	0	Low-Density Trees				
17	12	0	5	Mixed Upland Deciduous				5
7	7	0	0	Natural Mixed Pines				
1275	1158	105	12	Northern Hardwood	6	99	1	12
495	493	0	2	Red Pine	0	0	1	1
136	136	0	0	Upland Mixed Forest				
12	12	0	0	Urban				
74	74	0	0	White Pine	0			
2,312	2,179	115	19	Total Forested Acres	6	108	2	12
	94%	5%	1%	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	3B: Threatened, endangered, and special concern species	13	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
BA only 113. Hold for 10 years to maintain some unharvested areas in the compartment this YOY and to stay closer to MA plan harvest targets; other stands with higher BAs are being targeted instead.							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 6

Year of Entry: 2025

3	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Just thinned in 2007 and BA only 113; hold for 10 years for site recovery and potential development of regeneration.							
5	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep road bank.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treating stand to the NE this entry.							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: steep road bank							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Pat Ruppen : Examiner

Compartment: 6

Year of Entry: 2025

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Younger hardwood regeneration along edge of stand.							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Harvesting adjacent areas this treatment							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Adjacent harvest planned.							

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	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	Sawtimber Well	11.8	66	111-140	N/A	2023: 128 AVG BA. Let stand grow in. No issues. 2017: Sugar maple is in a patch along the north side of the north block of the stand; pine saplings along open edges. Third thinning in fall 2017.																																																							
<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>4</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>2</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>94</td> <td>Log/Pole</td> <td>11</td> <td>66</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	4	Log/Pole	14		Black Cherry	2	Pole	8		Red Pine	94	Log/Pole	11	66	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	Medium	< 5 feet	Sapling	Red Pine	Low	Variable	Sapling																											
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2	4117 - Mixed N. Hardwood - Pine	Poletimber Medium	21.2	53	1-50	N/A	2023: Interesting mixed stand that is still developing as pine is still growing in. Stocking and species mix is variable. Low quality open grown hardwoods but the pine is growing very well. Could be harvested and planted to red pine some time when it grows in. 2013: Mixed sugar maple & red pine taking over an old orchard. Aspen is in a single patch at the east edge of the stand. Scattered Scotch pine and white pine.																																																							
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Sub-Canopy Species	Density	Avg. Height	Size																																																											
Beech	Medium	5 - 10 feet	Sapling																																																											
4	4112 - Maple, Beech, Cherry Association	Poletimber Medium	4.3	35	1-50	N/A	Narrow opening between red pine plantation blocks.																																																							
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5	4110 - Sugar Maple Association	Sawtimber Medium	36.4	97	51-80	N/A	2023: Little desirable regen ant this time but there are some patches of cherry saplings. The rest is beech and ironwood growing in blackberries. SM seedling and saplings are getting browsed heavily. Some of the sm is large and decent quality. Could consider cutting it back to a seed tree and getting some of the large sm out before they decline in value and quality. Some areas with blowdown damage. Probably before last treatment. 2018: the stand was selection harvested in summer/fall 2017; some younger timber along the east edge was excluded from the cut. Post-sale residual BA was about 65 in the sale area.																																																							
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6	4319 - Mixed Upland Forest	Sawtimber Well	7.6	64	111-140	N/A	2023: 116 avg ba. Aspen is dropping out of stand . Sm seedling and white pine seedlings heavily browsed.. Beech scale is present.																																										
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7	42110 - Planted Red Pine	Sawtimber Well	16.2	66	111-140	N/A	2023: 134 AVG BA. Let stand grow in. When it is re-started the shape of the SE part could be Straightened out. The cove on the east side is just Large aspen and maple. Could harvest with stand 8 and maybe stand 3 and re-plant all. 2017; Stand includes a narrow open strip along the west edge of the SE block, with sparse hardwood saplings. Thinned																																										
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8	42110 - Planted Red Pine	Sawtimber Well	23.1	66	141-170	N/A	2023: 150 avg ba. Decline/mortality pocket on west edge (1 ac.) . Stand has a good bit of sm 5-20' under with beech. May go to hardwoods at some point if not kept in red pine. Stand could be harvested if necessary of could wait. May want to take two rows and get the rest next entry if desire is to convert. 2017: Good quality stand; some minor storm damage.																																										
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9	42100 - Planted White Pine	Sawtimber Well	16.5	64	141-170	N/A	2023: 162 avg ba. Pine has good form but could be thinned. Reduce ba																																										
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10	3102 - Grass	Nonstocked	1.7		Unspecified	No	2023. Open grasses with juniper and some tree clumps. 2013: Old farm field/orchard.																																										
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11	42110 - Planted Red Pine	Sawtimber Well	3.3	66	141-170	N/A	2023: avg ba =165. Stand looks fine. Let it grow in. Could be lightly thinned if nearby.																																										
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12	4110 - Sugar Maple Association	Poletimber Medium	14.9	57	1-50	N/A	2023: open grown hardwoods with wp and rp filling in various ages. 2013: Old apple orchard reclaimed by hardwoods. Scattered dead/dying apple trees. Ash are dying from EAB. there are a few scattered patches of quaking aspen poles.																																																				
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13	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	12.7	64	111-140	N/A	2023: Patches of planted white pine with hardwoods grown in. also. Good sm poles and saps filling gaps. Sm seedling and white seedling under pine but getting browsed heavily. Let stand develop. 2013:Thinned in spring 2010.																																																				
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14	4139 - Aspen, Mixed Deciduous	Poletimber Well	87.8	45	51-80	N/A	2023: Mixed up stand with areas heavier to aspen and other areas heavier to hardwoods and other areas about 50/50 mix. Some parts are heavy ironwood saps and poles. Aspen seems to have some older patches mixed in. Small patch of white pine at the north end of the stand. Not clear how to manage this in the future. May want to let this aspen get old and then see how the rest of the stand develops. Might want to cut the aspen and poor formed hardwoods and then let a new age of aspen grow in. Could find some of the areas heavy to aspen and do some clear-cut patches. The corner on the west side by stand 7 is older aspen and large wolfy maple. That could be cleared when the red pine (stand 7) is harvested and re-planted.																																																				
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15	4110 - Sugar Maple Association	Sawtimber Well	6.2	96	81-110	N/A	2023: Average BA= 87. Average quality hardwood mix in cove. Let it grow in. 2013: Thinned in 2007. Scattered dying ash. Beech scale is present.																																																				
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16	42220 - Natural Jack Pine	Poletimber Well	7.0	30	51-80	N/A	2023: Remnant red pine and scattered hardwoods with younger aged pine growing in. Should cut this mixed stand and re-plant with stands 20 and 30. Let this stand grow in volume this entry. Should be chip-able at least next entry with some pulp and logs from the remnant red pine. 2013:Mixed ages of pines seeded in from adjacent/previous plantation, with a remnant component of log-sized planted red pine. One age-class of jack pine is predominant (about 20 years old per whorl count). Red maples are multi-stemmed stump sprouts. Jack pine saplings have substantial bending & breaking from snow loads.																																																				
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17	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.5	45	81-110	N/A	2023: Pretty mixed up stand with aspen, wp and hardwoods. Stocking is variable. Heavier stocking in planted wp strips. Some areas heavier to SM, others to aspen and others ahite pine with SM. SM saps growing through wp. Some nice sm poles. Let stand develop. 2013:Stand has patches of planted white pine embedded in regenerated aspen/maple. Scattered older aspen and maple.																																												
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18	42110 - Planted Red Pine	Sawtimber Well	19.5	66	141-170	N/A	2023: 158 avg ba. Stocking is variable. Sm and beech saps growing in gaps. Most trees have decent crowns and room to grow. Let stand grow in or could thin with other adjacent stands and bring ba down to 120. . 2013:Minor damage from snowstorms. Bigtooth aspen is in one patch.																																												
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19	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	4.1	64	111-140	N/A	2023:136 avg ba. Let stand grow in. SM seedling getting heavily browsed. 2017:Numerous weevil-damaged pines. Thinned fall 2017.																																												
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20	42110 - Planted Red Pine	Sawtimber Well	19.5	74	81-110	N/A	2023: Red pine stocking is fine. (110 avg ba) Pockets of wp an jp poles. Stocking is variable. Could cut this stand with stands 16 and 30 when they are mature enough. Probably next entry. Would be good to get this block in same aged stand. Thinned summer 2017																																												
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21	4110 - Sugar Maple Association	Sapling Poor	5.7	30	1-50	N/A	2023: Stand filling in with mix of seedlings and sprouts. 2017: Narrow stand between the road and red pine plantation. Low quality timber. was clearcut in 2017 with some marked residual seed trees and scattered clumps of maple saplings.																																												
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23	122 - Road/Parking Lot	Nonstocked	10.8		Unspecified	No	Valley Road																																																								
24	4112 - Maple, Beech, Cherry Association	Sawtimber Well	53.7	97	51-80	N/A	2023: 101 avg ba. Lower quality hardwood stand. Basal area is not too high at this time. Beech saplings with ironwood in understory. Some beech with blue marks are likely part of the monitoring project for beech scale as mentioned in last inventory. . Some of the marked trees may still be scale free. Beech scale is present in stand however. Let stand grow in. However, some of the red maple is getting large .																																																								
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25	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	37.4	97	51-80	N/A	2023: Average BA = 76. - Average hardwood. Beech, cherry and ironwood under. Let stand grow in. 2017: Fair to good timber quality. Scattered patches of planted white pine poles/saplings. 2013 mean BA from 6 plots = 137. Thinned heavily in summer 2016; residual BA from sale cruise: SM 38, RM 17, BC 11, AB 6, AWP/YB 1, total 73.																																																								
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26	42100 - Planted White Pine	Sawtimber Well	15.1	64	171-200	N/A	2023: Avg Ba =175. Most of the pine has decent form. Stocking is variable but areas are overstocked. Could be thinned if nearby. 2013: Aspen is mostly in one clone in the SE part of the stand. Scale present on pine. Hardwoods are mostly wolfy, multi-stemmed sugar maple. Scattered dying ash.																																																								
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27	4130 - Aspen	Poletimber Well	10.0	45	81-110	N/A	2023: Could harvest to regenerate aspen. . Most of the hardwood is average-low quality. Some scattered better quality. maple could be marked for retention. Beech scale is present.																																																			
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28	4110 - Sugar Maple Association	Sawtimber Poor	3.7	96	51-80	N/A	2023: SOME SM POLES AND SAPLINGS IN POCKETS. LET STAND DEVELOP. 2013:Old field succeeding to hardwoods: sparse, mature, multi-stemmed open grown sugar maple and black cherry with patchy sugar maple saplings and poles. Scattered white pine, dying ash.																																																			
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29	4139 - Aspen, Mixed Deciduous	Sawtimber Well	21.4	66	81-110	N/A	2023: The south part of the stand is mainly large aspen and wolfy maple. Other areas are mixed log/pole sized hardwoods and aspen but patches on the north and west are heavier to aspen. The terrain is hilly and steep in areas. Would be good to harvest the aspen out of this stand if nearby. 2013: Heterogenous mix of aspen and hardwoods, some semi-open patches.																																																			
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30	42290 - Natural Mixed Pine	Poletimber Medium	7.3	41	81-110	N/A	2023: Mixed pine and lower quality hardwoods. Older pine and hardwoods scattered around in stand as if left as seed trees or shelter. Could harvest this stand next entry and replant with stands 16 and 20. Get the whole block in one age. 2013: Mixed ages of pines seeded in from adjacent plantation, plus a remnant component of log-sized planted red pine. One age-class of pole-sized red pine is predominant (about 31 years old per whorl count). Red maples are multi-stemmed stump sprouts.																																																			
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31	4112 - Maple, Beech, Cherry Association	Sawtimber Well	72.8	96	81-110	N/A	2023: Avg ba=90. Some areas heavier to red maple and other parts more to the sm . Some areas with the stocking a little high but most of the stand is good to grow. Recommend letting stand grow in. Scattered yellow birch.																																																			
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32	42110 - Planted Red Pine	Sawtimber Well	21.7	69	141-170	N/A	2023: 156 avg ba. Stand could be thinned back to 120 ba if nearby. Good bit of sm saplings in the north part of stand. 2013: Stand still has some room to grow in the canopy from the last thinning. Some breakage from snow storms.																																																																		
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33	42210 - Natural Red Pine	Sapling Poor	5.2	15	Immature	N/A	2023: mover to forested stand. 2013: Open lanes between red pine plantation blocks, filling in with trees.																																																																		
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34	4111 - S.Maple, Hard Mast Association	Sawtimber Poor	7.4	96	1-50	N/A	2023: Some aspen clones in North end. Some maple regen getting browsed. Steady ironwood and beech saplings. 2018: Hilly. Stand blends into white pine plantation at NW corner. Shelter-wood harvested 2017, residual BA about 30.																																																																		
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35	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	9.5	66	141-170	N/A	2023: LOW QUALITY HARDWOOD. WHITE PINE LOOKS ALRIGHT. 2020: Thinned in May 2019.																																																																		
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36	4130 - Aspen	Poletimber Well	38.5	36	81-110	N/A	2023: Patchy aspen regen but good growth. Some area are mixed hardwoods. let this stand grow in and consider harvest next entry. Stand to south has been recently harvested.																																																																		
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37	4110 - Sugar Maple Association	Sawtimber Well	131.9	97	81-110	N/A	2023: Some trees are getting large and should be harvested before losing value. Could mark stand to reduce ba to 80 and bring down avg diameter. 2013: Scattered hemlock; some planted white pine in the SW part of the stand; scattered yellow birch. Ash are dying from EAB; beech scale is present.																																																											
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38	42110 - Planted Red Pine	Sawtimber Well	37.5	66	141-170	N/A	2023: Avg. BA in North part of stand =168. South part of stand that was recently thinned is at 126 BA. . Could mark the north stand to bring ba down to 120. Stocking is variable but generally high. Beech and sm saps under pine. 2017: Hardwoods are concentrated in the south part of the stand; includes a few black cherry and red maple. North parts of stand thinned in 2010; south part of stand thinned in 2017.																																																											
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39	4110 - Sugar Maple Association	Sawtimber Medium	50.6	91	51-80	N/A	2023: Thick beech understory with pockets of cherry and ironwood. Beech scale present. Let understory develop and hope for desirable regen. 2014 comments: Scattered white pine, bigtooth aspen. The formerly private land part of the stand (SE lobe) was thinned by the previous owner circa 2001. Mean BA from 8 plots = 128.) Thinned in spring 2016; residual BA from sale cruise: SM 44, RM 2, AB 8, BC 1, WP 2, total 57.																																																											
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40	4110 - Sugar Maple Association	Poletimber Poor	2.8	54	51-80	N/A	Trail road/gap between hardwood and red pine stands. Partly used in 2006 as a landing for neighboring hardwood stand, then seeded with rye.																																																											
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41	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	8.3	97	111-140	N/A	2023: a small amount of sm saps in pine areas. Let stand grow in.																																																											
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42	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	4.6	66	141-170	N/A	2023:162 avg ba Could thin this if nearby but not critical. 2013: . Hardwoods are mostly wolfy, multi-stemmed.																																															
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43	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	26.4	66	111-140	N/A	2023: Avg ba in N pine 168. 138 avg ba in south pine Low quality hardwood patches between pine. Could thin the pine in the North of stand if nearby. South part looks good to grow. Hardwood pockets were open up in last harvest with ba 50-80. Beech and ironwood regen. 2018: Beech scale is present. Thinned in 2017.																																															
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44	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.5	97	81-110	N/A	2023: Average hardwoods with failed regeneration attempts from last harvests. Average ba= 67. Variable stocking. Some areas are just large and wolfy maple, beech and cherry with ironwood and beech saps. Let stand develop. 2013:Mixed regeneration resulting from last thinning is mostly beech and iron wood, with some cherry and ash, lots of blackberry.																																															
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45	4111 - S.Maple, Hard Mast Association	Sawtimber Well	52.3	96	81-110	N/A	2023: 110 avg BA. Most of the stand is low quality with few crop trees. Terrain is hilly. A couple area with better quality sm. May be best to just let stand develop and grow in considering the terrain and quality. 2013:EAB and beech scale are present.																																															
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46	42110 - Planted Red Pine	Sawtimber Medium	12.1	56	141-170	N/A	2023: 148 avg ba. Let stand grow in. 2017: One acre patch in NW corner was thinned in 2010. Whole stand thinned fall 2017.																																															
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47	42110 - Planted Red Pine	Poletimber Well	9.0	66	111-140	N/A	2023: 140 avg ba. Scattered wolffy, multi-stemmed hardwoods. Thinned in summer 2019.																																																						
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48	4112 - Maple, Beech, Cherry Association	Sawtimber Well	38.4	104	111-140	N/A	2022: 128 avg ba. Good bit of maple growing in gaps. May be a good place to cut some holes in stand to develop new age class. Timber is getting large and oversized. Seems to be some potential to get some maple regen. 2013: Many multi-stemmed tree. Generally good quality, especially black cherry. Numerous cherry seedlings, and some red maple seedlings/sprouts, resulting from last thinning. There are a few hemlocks in the NW part of the stand, and some scattered aspen and elm.																																																						
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49	4139 - Aspen, Mixed Deciduous	Sawtimber Well	29.1	46	81-110	N/A	2022: COMPLICATED STAND WITH AREAS THAT ARE MOST ASPEN AND MIXED ASPEN HARDWOOD AND AREAS THAT ARE MOST HARDWOOD. PATCHES OF WHITE PINE. ASPEN COULD BE HARVESTED BUT WOULD PROBABLE BE FINE TO LEAVE TO PUT ON MORE VOLUME. HARDWOODS ARE AVERAGE. MOST OF THE ASPEN CONCENTRATED IN CLONES IN NORTH AND WEST. MAY WANT TO CLEARCUT WITH RETENTION OF SOME SCATTERED HARDWOODS IN HTE PARTS WITH MOST ASPEN AND THIN THE HARDWOOD AREAS AND KEEP AS ISLANDS OR STRIPS, THE WHITE PINE COULD MOSTLY GO. 2013: Scattered patches of planted white pine within the stand, plus inclusions of mature hardwoods.																																																						
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50	4319 - Mixed Upland Forest	Sawtimber Medium	70.4	66	81-110	N/A	2013: Mixed density of white pine with pockets of cherry and red maple. Some patches of aspen sprouts growing in with beech and ironwood throughout understory. Low quality black cherry. Thinned in summer 2019.																																																						
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51	42111 - Planted Red Pine, Mixed Deciduous	Sapling Medium	10.2	16	Immature	N/A	2023: Mixed density. Good growth on most of the red pine. Best to just let it grow in and not worry about pre-commercial thinning. 2018: Former Austrian pine plantation was clearcut in about 2001, then replanted to red pine (and some white pine on periphery) in 2007. This stand has been updated from a field evaluation for a project on free to grow red pine.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																								
52	3102 - Grass	Nonstocked	1.3		Unspecified	No	Old homestead site . A few old fruit trees and lilac patches.																								
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53	42210 - Natural Red Pine	Sapling Well	1.4	18	1-50	N/A	2023: Still very dense natural red pine. 2015;Former Austrian pine plantation was clear-cut in about 2001. This stand may have been the landing area for surrounding cut areas; filled in with volunteer seedlings - excessively dense. Mostly RP, a few AP saplings.																								
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54	42110 - Planted Red Pine	Sawtimber Well	12.3	56	111-140	N/A	2023: 136 average ba. Let stand grow in. 2017: South part of stand was thinned in 2010. Marked thinning of whole stand fall 2017.																								
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55	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	15.5	66	111-140	N/A	2023: Avg BA 136. Let stand grow in. Beech and sm saplings under pine with maple heavily browsed. Hardwood patches have basal area reduced to 1-50 ba. 2018:Hilly. Thinned in 2017.																								
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56	4110 - Sugar Maple Association	Poletimber Medium	5.2	50	51-80	N/A	2023: Some residual SM and BC log trees. Hardwoods reclaiming an old open lane; still partly open.																								
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57	42110 - Planted Red Pine	Sawtimber Medium	14.5	69	111-140	N/A	2023: 154 average ba. Let stand develop. 2017: Stand includes a small opening: old homestead site/foundation. Just a few old sugar maples along the road and some scattered black cherry. Thinned fall 2017.																								
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58	42100 - Planted White Pine	Sawtimber Well	5.7	56	141-170	N/A	2023:Avg ba 150. Could be thinned if nearby. Not critical. May go to hardwoods and wp as stand is opened up. 2013: Age approximate from whorl count.																																							
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59	3301 - Low Density Deciduous Trees	Nonstocked	6.4		Unspecified	No	Open lanes between pine plantation blocks, succeeding to hardwoods.																																							
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60	42111 - Planted Red Pine, Mixed Deciduous	Sapling Medium	7.6	16	Immature	N/A	2023: Stand looks like it will grow in but stocking is variable. Some natural rp, wp and scotch pine. 2018: Former Austrian pine plantation was clearcut in about 2001, then replanted to red pine (and some white pine on periphery) in 2007. This stand has been updated from a field evaluation for a project on free to grow red pine.																																							
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61	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	12.1	66	81-110	N/A	2023: Average ba =110. Let stand develop. 2020:Stand is a mosaic of hardwood patches and planted pines. Thinned in summer 2019.																																							
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62	42110 - Planted Red Pine	Sawtimber Well	44.4	66	111-140	N/A	2023: 134 avg ba. Good bit of sm seedlings getting browsed. Could thin lightly or let stand put on more volume. Stand has pole potential. Stand could either be moved to hardwoods by opening up or kept in pine by keeping ba 120 or more. 2017: Stand includes some scattered hardwoods, mostly along the road and the south edge of the stand. Also includes about 1.5 acre triangular patch of white pine near the SW corner, down in a depression; patchy distribution of Scotch pine. Good quality red pine, has some potential for utility poles. Thick hardwood saplings in south half of stand. Fall 2017: stand was thinned, all merchantable Scotch pine, ash, ironwood, and aspen were cut, plus all beech over 2" dbh. Stand has scattered basswood, red maple, and tulip poplar.																																											
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63	4111 - S.Maple, Hard Mast Association	Sawtimber Well	20.8	87	51-80	N/A	2023: Most is bigger sm and beech. Getting large and likely losing value. 100ba average. No desirable regeneration. Beech bark scale. 2013: Slopes downward to east and decreases in quality.																																											
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64	4110 - Sugar Maple Association	Sawtimber Well	37.5	97	111-140	N/A	2023: Decent hardwood stand. Consider marking for crop tree release. 2013: Generally good quality timber. Bigtooth aspen is in scattered clones. Scattered beech and red maple.																																											
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65	4117 - Mixed N. Hardwood - Pine	Sapling Poor	5.7	5	Immature	N/A	2023: Mix of jp and rp patches with cherry and beech regeneration. Residual cherry poles with a few sm. 2017; Clearcut fall 2017. Scattered residual maple, cherry.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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66 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Medium 82.0 66 81-110 N/A 2023: Fair amount of tiny sm seedlings getting browsed. Stand is a mosaic of planted pine and patches of hardwoods. Thinned in fall 2019.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	15	Log/Pole	12		Ironwood	Medium	Variable	Sapling
Basswood	2	Log/Pole	12		Beech	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	1	Log/Pole	12		Sugar Maple	Low	Variable	Sapling
Black Cherry	5	Log/Pole	12					
Red Pine	72	Log/Pole	10	66				
Red Maple	5	Log	16					

67 310 - Herbaceous Openland Nonstocked 7.6 0 Unspecified 413 - Aspen 2023: Patchy aspen regeneration and areas with cherry brush. Heavy blackberry patches. Looks like stand will go to cherry, aspen mix. Bring back to forested stand next entry. Clearcut in fall 2019.

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	Log
Red Pine	Trace	>20 feet	Pole
Black Cherry	Medium	5 - 10 feet	Seeding
Bigtooth Aspen	Medium	5 - 10 feet	Sapling
Basswood	Trace	>20 feet	Log

68 4112 - Maple, Beech, Cherry Association Sawtimber Well 201.0 112 111-140 N/A 2023: Stand would benefit from Crop tree release and by getting some of the bigger stems out. Some areas of pole and small log sugar maple would benefit and get some of the larger red maple and cherry out. Most of the beech should go. Most has scale. Removing beech and large red maple would create canopy gaps that may just fill with beech and ironwood. A little yellow birch in stand. Some areas heavier to red maple. The north part of the stand is generally lower stocked and larger red maple mix. May just want to focus on getting some of the large stems out in this area. 2013: Numerous multi-stemmed trees. Small lobe at west end of stand was thinned along with adjacent red pine plantation in fall 2017.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	10	XLog/Log	20		Sugar Maple	Low	>20 feet	Sapling
Bigtooth Aspen	1	Log	13		Black Cherry	Low	5 - 10 feet	Sapling
Black Cherry	15	Log	14		Beech	High	Variable	Sapling
Red Maple	23	XLog/Log	18		Ironwood	Medium	Variable	Sapling
Basswood	5	Log	16					
Sugar Maple	46	Log/Pole	11	112				

69 3301 - Low Density Deciduous Trees Nonstocked 7.8 Unspecified No 2023: Mosaic of fern patches, grass/forb patches, clumps of mixed hardwoods, and black cherry scattered throughout.

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Trace		Log
Ironwood	Low		Sapling
Sugar Maple	Low		Sapling
Red Pine	Trace		Sapling
Black Cherry	Low		Log
Bracken Fern	High		Non-Wood
Black Cherry	Low		Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
70	4110 - Sugar Maple Association	Sawtimber Medium	9.0	112	51-80	N/A	2023: Low quality hardwoods. Stand has been lower density open growing for years and should have hardwood regeneration if possible anywhere. Going to ironwood. May want to clearcut and plant red pine when stand to east is re-started. 2013: Semi-open stand with some larger open-grown trees, numerous multi-stemmed.																																																									
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71	4319 - Mixed Upland Forest	Sawtimber Well	19.3	65	81-110	N/A	2023: Thinned 2019. Some sm, ash and beech seedlings under white pine. Heavy browsing on sm. Low quality sm in canopy. White pine seedlings in gaps. Wants to grow sm but seedlings getting browsed like grass.																																																									
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72	3103 - Rubus-Fern	Nonstocked	1.5		Unspecified	No	Long, narrow opening along draw/road through hardwood type. Used as a landing for adjacent hardwood thinning in 2016-2017.																																																									
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73	4110 - Sugar Maple Association	Sapling Poor	2.7	15	Immature	N/A	2023: scattered cherry, SM, Aspen with sm saplings growing in. 2013: Open grown cherries surrounded by expanding halos of sugar maple saplings.																																																									
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74	4110 - Sugar Maple Association	Sawtimber Well	33.1	112	51-80	N/A	2023: Thick blackberry. Some areas with wind throw. Let stand develop. Hope for some desirable regen. Selection harvest spring 2017; most of the beech and all of the ash were cut (ash was mostly dead already).																																																									
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75	3301 - Low Density Deciduous Trees	Nonstocked	0.8		Unspecified	4211 - Planted Red Pine	Plant to red pine along with adjacent stand 82. This stand was missed in the trenching operation, but could be 'flat planted' along with stand 82.																																												
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76	4110 - Sugar Maple Association	Sapling Well	5.2	45	1-50	N/A	2023: Nice pole/sapling sm. Pocket of walnut in north end.																																												
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77	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	4.7	55	81-110	N/A	2023: West end of stand is pole sized mix. Log size mix through the rest of stand. Keep stand as retention area for adjacent plantations. 2013: Stand has some older, larger trees along road and edge.																																												
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78	42110 - Planted Red Pine	Sawtimber Well	8.8	66	141-170	N/A	2023: Average BA= 155. Stand recently thinned. Let grow in until next entry and let adjacent stand develop. 2017: Some patches of hardwood included in the stand along the edge. Thinned in fall 2017; residual BA from sale cruise = 133.																																												
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79	4110 - Sugar Maple Association	Sawtimber Well	18.8	97	81-110	N/A	2023: The stand was selection harvested in summer 2005. Decent quality sm. Flat in north of stand is almost all sm. Difficult access to sw part. Basal area is creeping up since last harvest. Understory Beech and ironwood at this time. Let stand grow in.																																												
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80	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.7	96	81-110	N/A	2023: No desirable regeneration. Gaps are fully occupied with ironwood saplings and seedlings. Stocking is fine. Let stand develop. Small patch of planted red pine along road.																																											
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81	42110 - Planted Red Pine	Sawtimber Well	14.8	66	111-140	N/A	2023: average ba 128. Could get most red pine off and let hardwoods grow in or could let pine put on more volume then consider. . . Wants to go back to hardwood or could keep in red pine. Thinned Nov. 2017. Residual BA from sale cruise: RP 106 + 12 (SM, AP, BC, walnut) = 118.																																											
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82	790 - Other Bare/Sparsely Vegetated	Nonstocked	27.7	0	Unspecified	4211 - Planted Red Pine	Former jack pine plantation was clearcut in fall 2017, with about 10 BA of scattered cherry, sugar maple, red maple, oak, white & red pine retained. 2018: original plan was to allow JP volunteers to come up following clearcutting, then roller chop, trench, and plant RP. Roller chopping was done in 2020, but has proved ineffective for JP control, so treatment will now include herbicide for JP control, then trenching and planting. Spring 2021: trenched. Sprayed summer 2022.																																											
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83	122 - Road/Parking Lot	Nonstocked	1.4		Unspecified	No	Fowler Road																																											
84	42110 - Planted Red Pine	Sapling Medium	20.7	10	Immature	N/A	2023: Thick cherry brush in gaps between rows. Red pine is keeping up. Cherry should reduce as stand grows in. Good growth on red pine and no disease issues noticed. 2018: Scattered retained cherry, maple, and clumps of red pine. 2016 regen check says no release needed, but cherry sprouts are thick in places and overtopping RP seedlings. An FTP is drafted to hand cut competition, if volunteers are available. This stand has been updated from a field evaluation for a project on free to grow red pine.																																											
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86	42110 - Planted Red Pine	Sawtimber Well	9.9	66	141-170	N/A	2022: Average ba 148. Let stand grow in. 2018: Thinned fall 2017. Residual BA from sale cruise = 141.																															
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87	4130 - Aspen	Sapling Medium	4.1	6	Immature	N/A	Stand consists of 3 aspen patches clearcut in fall 2017, with about 15 BA of residual SM, RM, AB.																															
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88	4117 - Mixed N. Hardwood - Pine	Sawtimber Medium	2.6	62	51-80	N/A	Strip along Skinner Road and edges of red pine plantation.																															
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89	3301 - Low Density Deciduous Trees	Nonstocked	12.1		Unspecified	No	2023: Low density trees. 2013: About 60/40 fern vs. knapweed (some horsemint) per 2003 inventory. Dense patch of sugar maple saplings in east arm of the stand.																															
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90	4110 - Sugar Maple Association	Sawtimber Medium	118.0	112	51-80	N/A	2023: Some cherry and ash regen but a lot of ironwood and beech. Heavy blackberry in places. Any maple regen found was browsed. 2017: Selection harvest done between July 2016 and April 2017; most of the beech and all of the ash were harvested (ash mostly already dead).																																														
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91	4112 - Maple, Beech, Cherry Association	Sawtimber Well	90.3	92	111-140	N/A	2023: Poor quality maple from sprouts. Larger diameter RM clumps. More SM in west and north of stand. Limited # of crop trees. Could reduce the amount of larger red maple and thin SM areas. Most of understory is beech and ironwood but not extremely thick at this time. Average BA =125. 2013: Patch of hemlock in NW corner surrounded by younger hardwoods; semi-open. Numerous multi-stemmed maple. Poor old beech in places. Beech scale is present. Ash is infested with EAB, dying. Sugar maple is of low quality. Some good quality red maple in places. Mean of 10 BA plots = 108. Two aspen-dominated patches adjacent to stand 82 were clearcut in fall of 2017; these are now part of stand 87.																																														
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92	310 - Herbaceous Openland	Nonstocked	1.1		Unspecified	No	Used as a timber landing in 2010.																																														
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93	42110 - Planted Red Pine	Poletimber Well	21.5	55	111-140	N/A	2023: Avg BA=135. Stand looks fine except for small mortality pocket West of stand 92 . Let stand grow in. Thinned Nov. 2017. Residual BA from pre-sale cruise = 133 (114 RP, 14 BC, 5 RM/IW).																																														
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94	3301 - Low Density Deciduous Trees	Nonstocked	10.3		Unspecified	No	2023: Barely non-forested. Will likely shift to forested next entry. Some red and white pine seeding in. 2013: 1/2 acre hardwood inclusion. Variably sized cherry throughout.																																														
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95	4319 - Mixed Upland Forest	Sawtimber Poor	38.4	66	1-50	N/A	2023: Some aspen clones sprouted along with light cherry and beech sprouts throughout stand. A small amount of wp seedlings. Tops left in large piles from last treatment. 2020: Shelter-wood harvest summer 2019. Monitor for mixed natural regeneration.																																																	
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96	4130 - Aspen	Sapling Poor	15.8	14	Unspecified	N/A	Three patches clearcut in spring 2009. Stand has scattered residual hardwoods (sugar maple, black cherry, yellow birch, beech).																																																	
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98	4112 - Maple, Beech, Cherry Association	Sawtimber Well	142.8	112	51-80	N/A	2023: Some areas heavy to red maple and others heavier to sugar maple. Good bit of beech but not a lot of noticeable scale. . Stocking looks fine for now. Let stand develop. Little if any desirable regeneration. Heavy to ironwood and beech. 2013: Hilly, some frost pockets/depressions. Stand has small amounts of bigtooth aspen, ironwood, & basswood. Beech scale and EAB are present.																																																	
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99	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Medium	5.7	59	81-110	N/A	2023: Mix of hardwood and white pine. Thinned in Nov. 2017. Much of the cut white pine pulp was unusable by the producer and left on the ground. Residual BA from sale cruise: WP 57, SM 42, BC 7, RM 2; total 108.																																																	
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100	3303 - Mixed Low Density Trees	Nonstocked	2.3		Unspecified	Managed Opening																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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101	42110 - Planted Red Pine	Sawtimber Well	6.1	66	111-140	N/A	2023: 124 average ba. Let stand develop. 2017: Scattered wolfy, multi-stemmed hardwoods. Thinned summer 2017.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	4	Log	14		Beech	Medium	5 - 10 feet	Sapling
Red Pine	95	Pole/Log	9	66				
Red Maple	1	Log	14					

102	4111 - S.Maple, Hard Mast Association	Sawtimber Poor	40.9	97	1-50	N/A	2023: Beech and ironwood sapling throughout stand. Some thickets of cherry saplings. Some SM saplings getting browsed heavily. 2018: Most of the stand was seed-tree cut in summer 2017. Some areas with pole/sapling hardwood cover along the peripheries were excluded from the cut, but are still included with this stand. Current condition is mixed-age, with well-distributed, mature hardwood seed trees along with the retained pole/sapling edges. If open areas regenerate as anticipated, this stand will eventually be a multi-aged mix.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	1	Pole/Log	9		Sugar Maple	Low	>20 feet	Sapling
Black Cherry	14	Log/Pole	14		Beech	Medium	5 - 10 feet	Sapling
Beech	25	XLog/Log/Pole	20		Black Cherry	Medium	5 - 10 feet	Sapling
Sugar Maple	60	Log/Pole	12	97	Ironwood	Low	5 - 10 feet	Sapling
					White Ash	Low	5 - 10 feet	Sapling