



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61003

Entry Year 2022

Acreage: 1,811

County Leelanau

Management Area: Benzie Moraines

Revision Date: 2020-07-22

Stand Examiner: Tim Webb

Legal Description:

T28N R14W Sections 33, 34, 35, 36

Identified Planning Goals:

Compartment 3 lies within the Benzie Moraines Management Area (MA), as identified in the Regional State Forest Management Plan. Vegetative management in the MA will produce various forest products; maintain or enhance biodiversity conservation and wildlife habitat; protect areas of unique character and threatened, endangered and special concern species; provide for forest-based recreational uses; and Native American non-commercial use of forest products. Timber management for this 10-year planning period includes improving the age-class structure of aspen and red pine and continued selection harvesting in high-quality northern hardwoods to achieve an all-age structure. Wildlife management objectives include increasing the structural complexity of northern hardwood communities for interior forest species and perpetuating early-successional communities for species adapted to young forests. Expected trends within this 10-year planning period are forest pest issues, particularly beech bark disease, and an increase in recreational trail use.

Former orchards and agricultural fields in this compartment, typed as upland brush on previous inventories, continue to succeed to forest cover, predominantly sugar maple and mixed. Such a concentration of immature hardwood stands is unusual in this forest management unit.

Also unusual is the wide age class spread of pine plantations within the compartment. Some blocks may be cut and regenerated during this planning period, adding still another age class to the mix. These plantations are predominantly red pine, with some having intermixed rows, strips, or blocks of jack pine. Jack pine is likely not indigenous in this area, and so should be considered for gradual reduction or elimination, unless desired for wildlife cover. Most of the red pine stands should continue to be thinned as they gradually mature.

Soil and topography:

The compartment is predominantly on an outwash plain landscape with level to rolling topography, with some steeper moraine landscape along the far east side. Soils are almost entirely Kalkaska sand, with some small areas of East Lake loamy sand in the northeast corner.

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

There is a large area of state forest land to the south of compartment 3. To the east, north, and west are low intensity rural residential development, forest, and some agricultural use on private lands. A small airport and campground abut the northwest corner of the compartment. The Village of Empire and the Sleeping Bear Dunes National Lakeshore are just a couple miles to the northwest and west.

Unique Natural Features:

There are some seeps in the southeast corner of the compartment flowing into Garey Lake just to the south.

Archeological, Historical, and Cultural Features:

There is evidence throughout the compartment of abandoned fields and homesteads, including old foundations, apple trees, and other exotic trees and shrubs. Bland Cemetery is on Oviatt Road in section 34. An old rail grade traverses part of the compartment.

Special Management Designations or Considerations:

Past experimental red oak and hybrid aspen plantings within the compartment have had variable success (see compartment files for details). Stand 90 was selection-harvested in spring 2018 as an MSU research project. High slash was left to thwart deer browsing on regeneration. This stand will continue to be monitored for tree regeneration.

Watershed and Fisheries Considerations:

This compartment is just west of the Pearl Lake region, including Gilbert Lake, Wells Lake, Armstrong Lake, Garey Lake, Pearl Lake, and numerous small spring lakes. None of the treatments proposed in this cycle are adjacent to any of these lakes.

Wildlife Habitat Considerations:

This compartment falls almost entirely within a broad, flat outwash plain of excessively drained sand. However, this compartment lies between two hilly landscapes at the northern tip if this expansive land type association (LTA). Consequently, this compartment may have been less influenced by the historic large-scale fires that affected the rest of the LTA and therefore might have some more successional advanced features. Maintenance of some northern hardwoods will provide mature interior forest habitat for numerous forest species, like blue-spotted salamander, gray fox, white-breasted nuthatch, and gray squirrel. Maintaining diversity of hardwood species and retention of cavity trees and down logs should be a part of selection cutting in such stands. Much of this compartment has been intensively cultured in the past, including pine plantations, shrub plantings and remnant orchards. Uplands should continue to be managed for a variety of successional stages and age classes of mixed aspen, pine, and hardwood, from grass and shrub openings to late successional hardwood conifer forest, consistent with the mosaic historically created by fire. Where final harvest is to occur we should maintain within-stand structural diversity by retaining various leave trees, snags, and down logs. Species associated with various age classes of mixed aspen/pine forests include broad-winged hawk, red squirrel, black-and-white warbler, ruffed grouse, and hog-nosed snake. As red pine plantations approach final harvest, conversion of a few stands to more natural mixes of forest vegetation should be considered. Also, consider incorporating small (2-5 acre) pine islands that are left relatively un-thinned within mature stands to provide winter roosting cover for turkeys. Some supplemental planting of native fruiting shrubs may be prescribed in openings, and perhaps some maintenance of remnant apple trees for bear and deer food. The establishment of several herbaceous stands in this compartment will benefit many species such as eastern bluebird, wild turkey, white-tail deer, badger, and smooth green snake.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Devonian Traverse Group. The Traverse is quarried for limestone and cement products. The nearest gravel pit is within one mile to the west. Gravel potential in the compartment is considered good. This area is located northwest of the Antrim Shale gas play. The Antrim Shale appears to be pinched out and there would be no potential.

Vehicle Access:

Nearly all stands are accessible by existing roads and trails. A hardwood stand in the extreme northeast corner of the compartment is accessible only via adjacent private land.

Survey Needs:

The compartment is adequately monumented, except perhaps the north half of the northeast quarter of section 36.

Recreational Facilities and Opportunities:

The Shore-to-Shore Trail passes through the compartment. The Garey Lake Trail Camp and state forest campground are just south across Oviatt Road. Deer and turkey hunting and mushrooming are important dispersed recreational activities.

Fire Protection:

VFD Fire protection is the Glen Arbor/Empire Fire Dept., and DNR Fire Protection is from the Traverse City Field Office. Access is sufficient in this compartment, and there is no real urban interface concern with the possible exception of some private residences scattered around the perimeter. Cover type does not lend itself to large catastrophic fires.

Additional Compartment Information:

There is a 12' x 12' deer enclosure near the middle of section 35, erected in 1976. One side is partially collapsed. It contains only two ironwood and two ash saplings.

The following reports from the Inventory are attached:

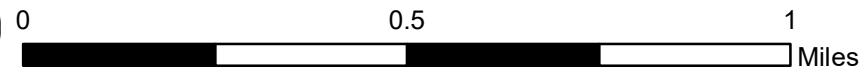
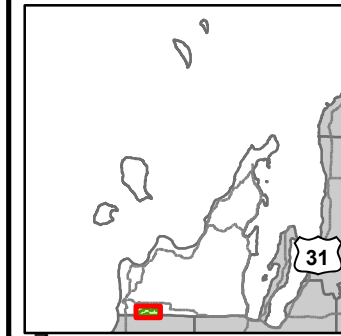
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

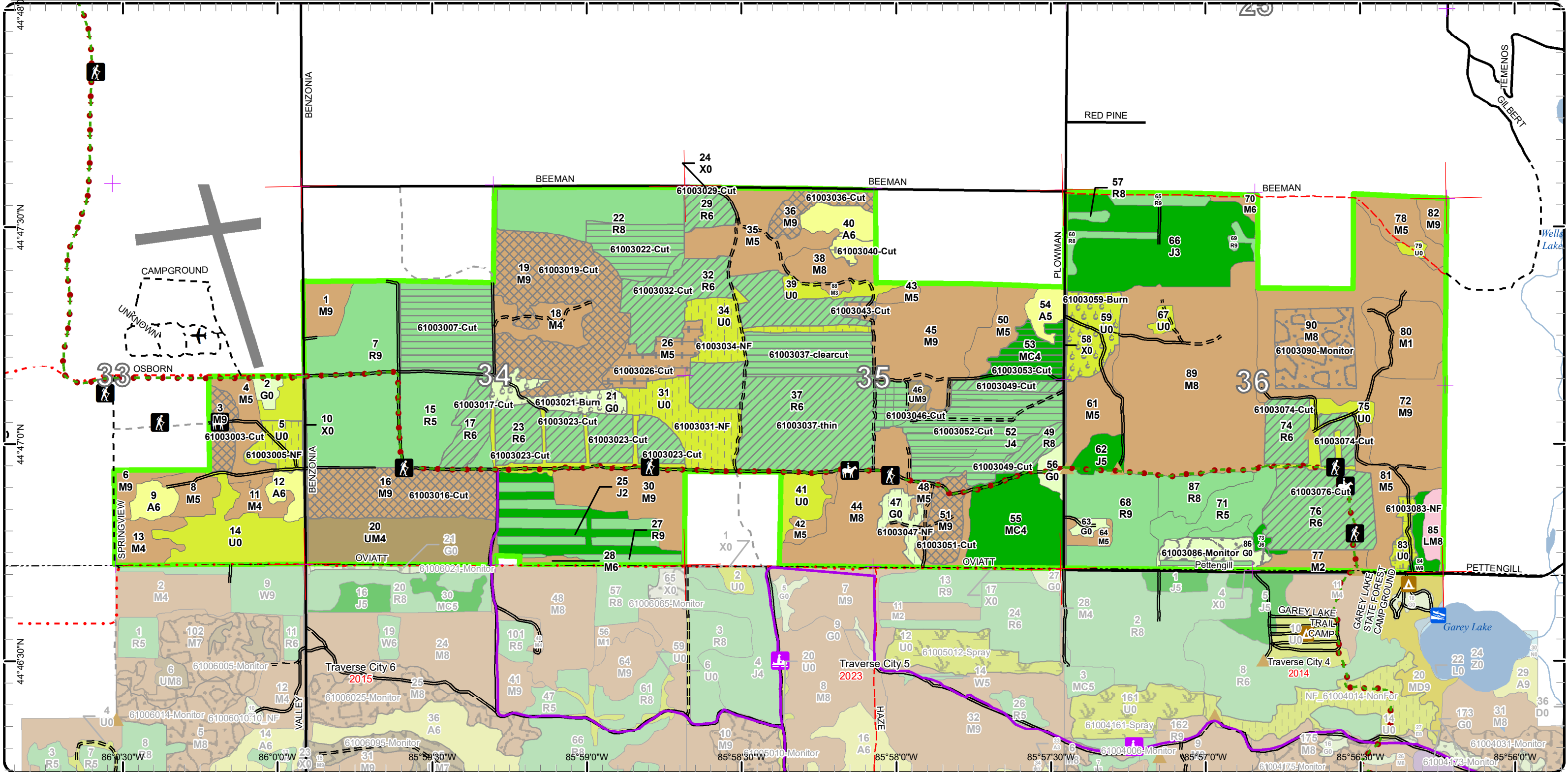
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 3
 T28N, R14W, Sec. 33-36
 County: Leelanau
 Unit: Traverse City
 Mgmt Area: Benzie Moraines
 YOE: 2022
 Acres: 1,810.8 GIS Calculated
 Examiner: Tim Webb
 Map Revised: 1/4/2021
 Map Phase: Post-Review

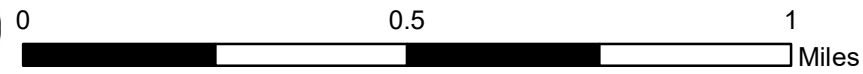
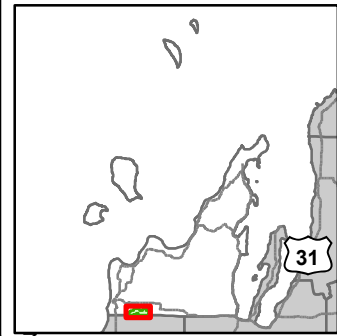


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Horse Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Snowmobile Trails
- Airport
- Boating Access Site
- Berms
- Campground
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Airports
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees

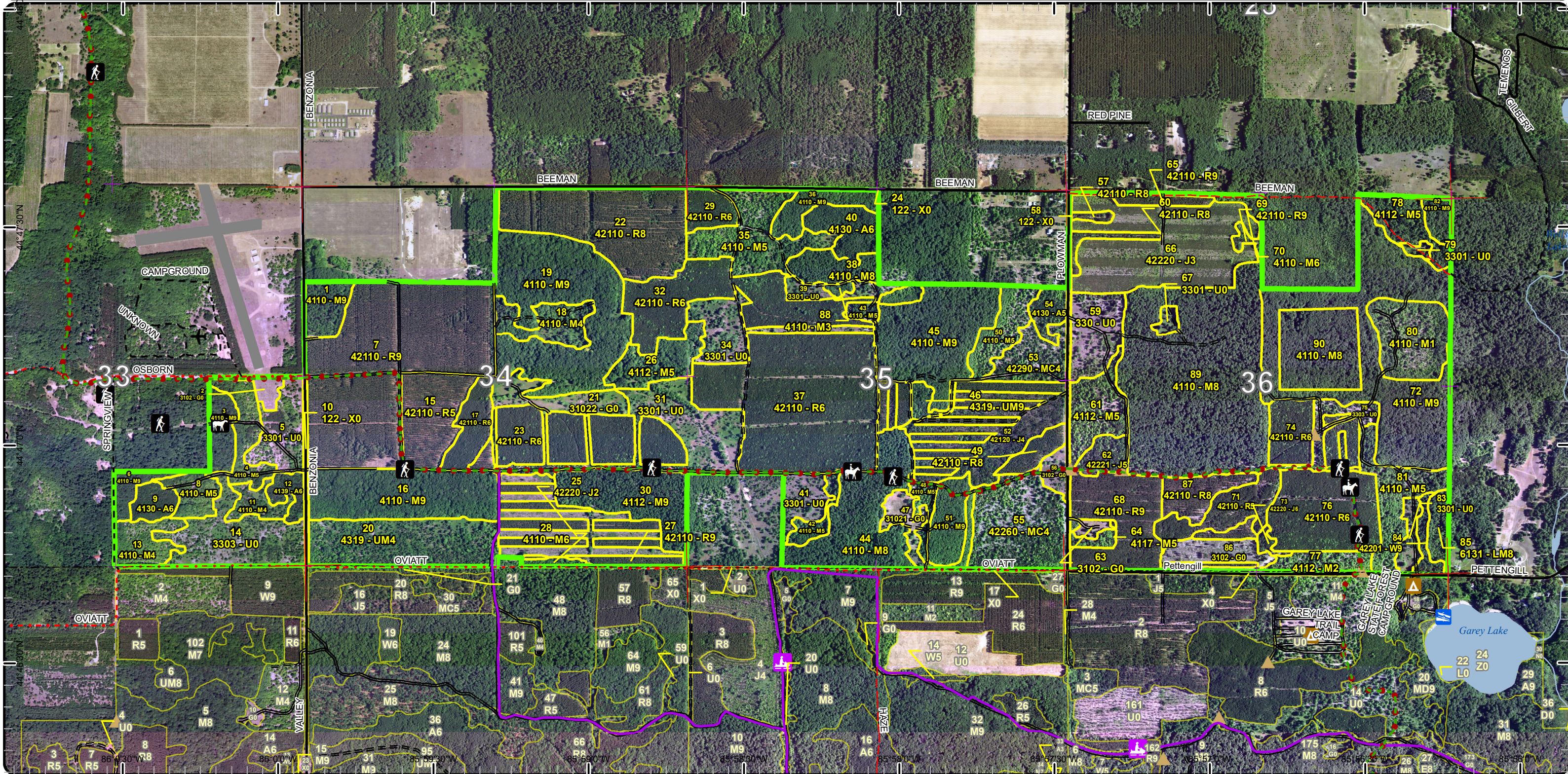


Stand Boundary Map

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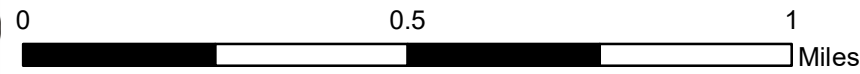
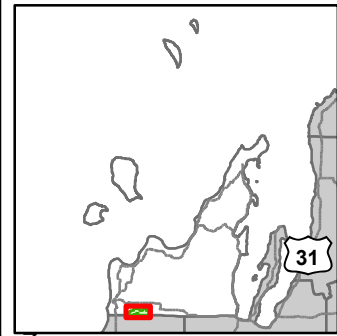


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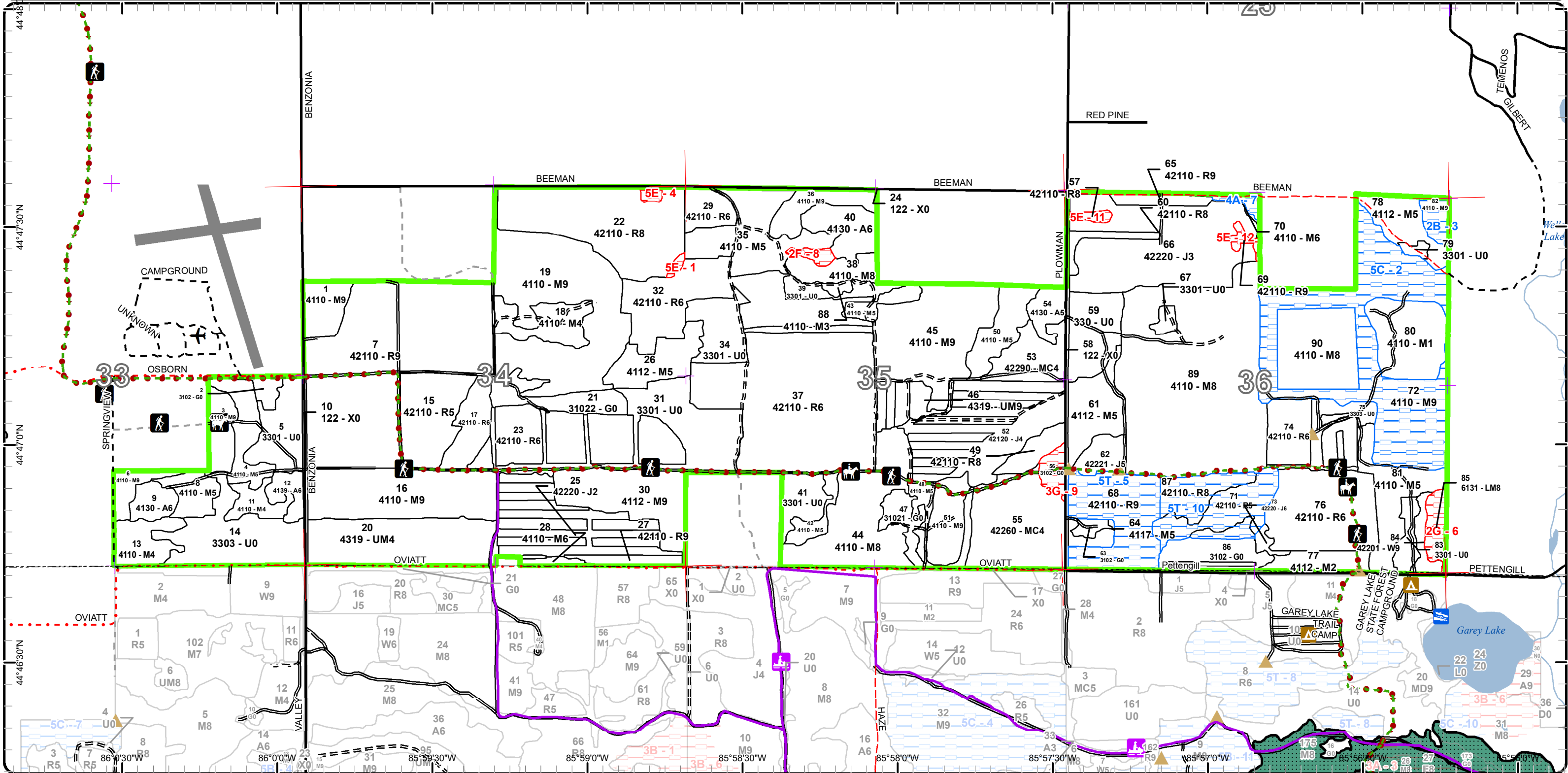


Special Conservation Areas

Compartment: 3
 T28N, R14W, Sec. 33-36
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 Unit: Traverse City
 Mgmt Area: Benzie Moraines
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 Examiner: Tim Webb
 Map Revised: 1/4/2021
 Map Phase: Post-Review



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- 🏕 Campground
- 🌊 Lake/Pond
- 🌊 Perennial River
- 🌊 Lakes and Rivers
- ✈ Airports
- 🟩 Compartment Boundary
- 🟦 Available w/ Constraints
- 🔴 Unavailable
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5T: Contingency Treatment for Forest Health Concerns
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3G: Other Influence zones - See comments
- 5E: Long-Term Retention
- ☐ Stand Boundaries
- ☐ SCA
- 🟩 Habitat Corridor



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	0	0	7	26	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Herbaceous Openland	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Jack Pine	0	23	62	0	0	9	0	34	0	0	0	0	0	0	0	0	0	0	128
Low-Density Trees	158	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	158
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	6
Natural Mixed Pines	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	15	53
Northern Hardwood	0	0	0	2	0	41	79	48	0	0	0	421	105	0	0	0	0	55	751
Red Pine	0	0	0	0	256	0	43	67	212	0	0	0	0	0	0	0	0	0	578
Upland Mixed Forest	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	39	43
Urban	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
White Pine	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	215	23	62	9	320	55	122	149	216	0	0	421	105	0	0	0	0	116	1811



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 3
Total Compartment Acres: 1,811

Commercial Harvest - 564
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	0	0	0	0	0	4	0	0		4
Jack Pine	52	0	0	0	0	0	0	0		52
Natural Mixed Pines	15	0	0	0	0	0	0	0		15
Northern Hardwood	0	145	0	0	0	18	0	0		163
Red Pine	84	0	0	0	243	0	0	0		326
Upland Mixed Forest	0	0	0	0	4	0	0	0		4
Total	151	145	0	0	247	22	0	0		564

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	564	0	0	32	0	40	0	69		706
Next Step	0	188	136	15	136	416	0	32		922
Total	564	188	136	47	136	457	0	101		1628



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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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Proposed Treatments:

3	61003003-Cut	9.3	4110 - Sugar Maple Association	Sawtimber Well	105	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Mark for selection with a residual BA of about 90. Remove most of the beech.</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> mixed northern hardwoods</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 /2021</p>											
5	61003005-NF	10.2	3301 - Low Density Deciduous Trees	Nonstocked			Unspec ified	NonForestMgt /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> 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. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Work around some of the existing beneficial vegetation to create a wildlife food plot of appropriate herbaceous species suited to site and soil conditions, with fertilization. Maintain as needed with mowing, seeding of native grasses and forbs or pasture mix, fertilizing, burning, or removal of woody encroachment.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Planting is planned to be south of the power line.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
7	61003007-Cut	38.3	42110 - Planted Red Pine	Sawtimber Well	72	141-170	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut. Specify low stumps and slash treatment to facilitate site prep and replanting to red pine. Retention: narrow strip of hardwoods along the north edge, plus a patch at the southwest corner.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine</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 /2021</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
16 61003016-Cut	42.1	4110 - Sugar Maple Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Thin, mark to 80-90 BA residual, creating some large regen holes around aspen clones. Focus on removing beech, aspen, poor quality trees, multi-stemmed, etc.</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 and mixed hardwood regen in gaps</p> <p><u>Regen:</u></p> <p><u>Other</u> The Shore-to-Shore Trail abuts the stand. Include sale specs to protect the trail and mitigate impacts to users.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
17 61003017-Cut	12.3	42110 - Planted Red Pine	Poletimber Well	39	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Third-row thinning.</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> The Shore-to-Shore Trail abuts the stand. Include sale specs to protect the trail and mitigate impacts to users.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
19 61003019-Cut	70.0	4110 - Sugar Maple Association	Sawtimber Well	113	111-140	Harvest	Group Selection	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Create numerous, fairly large regeneration holes focused on patches of poor quality trees. Take out much of the beech. Residual BA 80-90.</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> mixed hardwoods in regen gaps</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 /2021</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
21 61003021-Burn	14.0	31022 - Warm Season Grass	Nonstocked		Immature	Burn	Opening	31022 - Warm Season Grass		No
<p><u>Prescription</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs.</p> <p><u>Next Step</u> NonForestMgt, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
22 61003022-Cut	19.6	42110 - Planted Red Pine	Sawtimber Medium	72	111-140	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut. Specify low stumps and slash treatment to facilitate site prep and replanting.</p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red pine</p> <p><u>Other Comment:</u> Permanent retention area was excluded from the sale area in the southeast part of the stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
23 61003023-Cut	38.9	42110 - Planted Red Pine	Poletimber Well	39	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> 3rd-row thin the stand. Leave any cherry that needs to be cut on the ground.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> The Shore-to-Shore Trail abuts the stand. Include sale specs to protect the trail and mitigate impacts to users.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
26 61003026-Cut	15.7	4112 - Maple, Beech, Cherry Association	Poletimber Medium	113	81-110	Harvest	Overstory Removal	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Remove aspen clones and some of the older maples, creating some regen gaps. Lightly thin the rest where beneficial to release younger hardwoods.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen and mixed hardwoods in regen gaps</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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29 61003029-Cut	8.1	42110 - Planted Red Pine	Poletimber Well	39	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> 3rd-row thin. Leave in place any hardwoods that need to be cut during harvest.</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 /2021</p>										
31 61003031-NF	27.1	3301 - Low Density Deciduous Trees	Nonstocked		Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	3301 - Low Density Deciduous Trees		No
<p><u>Prescription</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Prep site for expansion of adjacent native grass/forb planting. When ready seed in native grass and forb mid. Eventually burn rotationally to maintain barrens/grasslands dynamic. Remove invasive species mechanically or with herbicide treatment.</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> Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs,</p> <p><u>Comment:</u> planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
32 61003032-Cut	45.6	42110 - Planted Red Pine	Poletimber Well	39	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> 3rd-row thin. Leave in place any hardwoods that need to be cut during harvest.</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> Some slopes, but rows are wide enough that it should be operable for row-thinning.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
34	61003034-NF	18.1	3301 - Low Density Deciduous Trees	Nonstocked		Immature	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> 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. 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.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
36	61003036-Cut	10.6	4110 - Sugar Maple Association	Sawtimber Well	112	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Mark for selection down to about 90 BA residual.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> mixed hardwoods in regen gaps, maybe some white pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
37	61003037-clearcut	25.6	42110 - Planted Red Pine	Poletimber Well	39	171-200	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut. Specify low stumps and slash treatment to facilitate site prep and replanting to red pine. Retain a strip along the west edge of about 1 acre.</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 Regen:</u> red pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
37	61003037-thin	68.1	42110 - Planted Red Pine	Poletimber Well	39	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> 3rd-row thin. Leave in place any hardwoods that need to be cut during harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> The Shore-to-Shore Trail abuts the stand. Include sale specs to protect the trail and mitigate impacts to users.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
40 61003040-Cut	3.8	4130 - Aspen	Poletimber Well	39	Unspecified	Harvest	Overstory Removal	4116 - Mixed N. Hardwood - Aspen	Uneven-Aged	No
<p><u>Prescription</u> Remove aspen and cherry from south part of the stand, leaving maples as much as possible.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, maple, and cherry in gaps, along with retained maple saplings and poles.</p> <p><u>Regen:</u></p> <p><u>Other</u> WLD 5/5/20: Hi Tim Webb. This is just a test.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
43 61003043-Cut	2.5	4110 - Sugar Maple Association	Poletimber Medium	66	51-80	Harvest	Overstory Removal	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Remove aspen and cherry from southwest part of the stand, leaving maples. Maybe mark a few mature, low-quality maples to remove as well.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, cherry, and maple in regen gaps, along with existing maple saplings and poles.</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 /2021</p>										
46 61003046-Cut	4.0	4319 - Mixed Upland Forest	Sawtimber Well	76	171-200	Harvest	Low Thinning	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Mark stand for thinning, residual BA about 100.</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 /2021</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
47 61003047-NF	7.5	31021 - Cool Season Grass	Nonstocked		Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Continue herbaceous planting prescription. Should test soils and revise planting specs as necessary for what would be beneficial for wildlife and staff logistics, i.e. annual planting versus perennial and native versus non-native.</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> Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment and invasives.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
49 61003049-Cut	12.3	42110 - Planted Red Pine	Sawtimber Medium	66	141-170	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark for thinning to a residual BA of about 120.</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 /2021</p>										
51 61003051-Cut	13.1	4110 - Sugar Maple Association	Sawtimber Well	110	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Mark for selection harvest, residual BA about 90.</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> mixed hardwoods in regen gaps</p> <p><u>Regen:</u></p> <p><u>Other</u> The Shore-to-Shore Trail runs through the stand. Include sale specs to protect the trail and mitigate impacts to users.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
52 61003052-Cut	52.0	42120 - Planted Jack Pine	Poletimber Poor	67	51-80	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut. Specify low stumps. Recommended sequence: <u>Specs:</u> 1) Clean site as much as possible, including dead JP, with the timber sale. Specify chipping spec and ensure good compliance. 2) Delay next steps 2 years after TCR 3) Roller chop (or masticator if we have the option) Yr 2 4) Trench Yr 2 5) Herbicide Yr 3 6) Plant Yr 4 7) Monitor Yr 4 8) Monitor Yr 6</p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); <u>Treatments:</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> red pine</p> <p><u>Other Comment:</u> This treatment includes both red and jack pine stands in a strip plantation, all being proposed for harvest and replanting to red pine. There is a lot of standing and fallen dead jack pine, which will hinder replanting. If not removed in harvest, it will have to be roller-chopped at some point after harvest is completed. No retention is being prescribed; part of the original RP stand will be thinned and left as a mature stand.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
53 61003053-Cut	15.0	42290 - Natural Mixed Pine	Poletimber Poor	26	1-50	Harvest	Clearcut with Retention	310 - Herbaceous Openland		No
<p><u>Prescription</u> Cut all trees greater than 1" dbh, except leave several small, scattered mixed-species islands of trees for cover up to a total of 1 acre and at least 50 feet from the edge. Require chipping if feasible; otherwise use specs to maximize utilization and reduce/compress slash and to keep slash back at least 20 feet from the edge. Require low stump heights.</p> <p><u>Next Step</u> Burn, Opening <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Goal is to severely reduce tree cover and manage the site as open land.</p> <p><u>Other Comment:</u> Long term goal is to manage the site as open land via periodic burning.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
59 61003059-Burn	18.4	330 - Low-Density Trees	Nonstocked		Immature	Burn	Opening	31022 - Warm Season Grass		No
<p><u>Prescription</u> Burn this stand at least once per entry period in order to set back woody encroachment, increase species diversity, stimulate native herbaceous vegetation, promote berry production, and recycle nutrients.</p> <p><u>Next Step</u> NonForestMgt, Other - Specify <u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</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
74 61003074-Cut	19.6	42110 - Planted Red Pine	Poletimber Well	39	111-140	Harvest	Systematic Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> 3rd-row thin in west part; 4th-row thin in east part and avoid cutting oaks.</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> The Shore-to-Shore Trail abuts the stand. Include sale specs to protect the trail and mitigate impacts to users.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
76 61003076-Cut	37.7	42110 - Planted Red Pine	Poletimber Well	39	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> 3rd-row thin.</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> The Shore-to-Shore Trail runs through the stand. Include sale specs to protect the trail and mitigate impacts to users (e.g. winter harvest only).</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
83 61003083-NF	5.8	3301 - Low Density Deciduous Trees	Nonstocked		Immature	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Prune remnant apple trees. Replace some of the dead apple trees with apple, crabapple, or other native fruiting shrub spp. Selectively</p> <p><u>Specs:</u> 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.</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 /2021</p>										

Approved Treatments:

86 61003086-Monitor	11.7	3102 - Grass	Nonstocked			Monitoring	Artificial Regen(3yr)	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> check regen at 3 years</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine and red oak; some patches of aspen OK, especially in SE corner; some cherry volunteers OK throughout, and very low numbers of</p> <p><u>Regen:</u> JP</p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></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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Site Condition

Proposed Start Date: 9 /1 /2020

90	61003090-Monitor	28.7	4110 - Sugar Maple Association	Sawtimber Medium	100	81-110	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	No
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Prescription check for hardwood regeneration

Specs:

Next Step

Treatments:

Acceptable mixed northern hardwoods

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2019

Total Treatment Acreage Proposed: 705.7

Report 4 – Site Conditions

Traverse City Mgt. Unit

Tim Webb : Examiner

Compartment: 3

Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Available <i>With Condition</i>	Acres Not Available		Dominant Site Conditions								
					2B	4A	5C	5T	2F	2G	3G	5E	
32	32	0	0	Aspen									
45	40	0	4	Herbaceous Openland							4		
128	128	0	0	Jack Pine									
158	158	0	0	Low-Density Trees									
7	0	0	7	Lowland Mixed Forest						7			
53	53	0	0	Natural Mixed Pines									
750	658	89	2	Northern Hardwood	5	2	82		2				
578	507	66	6	Red Pine		0		66					6
43	43	0	0	Upland Mixed Forest									
13	13	0	0	Urban									
5	5	0	0	White Pine						0			
1,811	1,637	155	19	Total Forested Acres	5	2	82	66	2	7	4		6
	90%	9%	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	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	82	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Tim Webb : Examiner

Compartment: 3

Year of Entry: 2022

3	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5T: Contingency Treatment for Forest Health Concerns	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Erosive soils, as evidenced by old gullies. Allow jack pine to die off naturally and help build the soil; thin red pine in a future entry period when soil is deemed stable.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	4A: No Markets Available for these Forest Products	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Too small of a stand to cut on its own. Cut when other nearby stands are prescribed.							
8	Unavailable	2F: Too steep	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Tim Webb : Examiner

Compartment: 3

Year of Entry: 2022

9	Unavailable	3G: Other Influence zones - See comments	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5T: Contingency Treatment for Forest Health Concerns	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Erosive soils, as evidenced by old gullies. Thin red pine in a future entry period when soil is deemed stable.							
11	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Mgt. Unit

Compartment:

Year of Entry



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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
1	4110 - Sugar Maple Association	Sawtimber Well	10.0	103	81-110	N/A	High quality timber. Scattered hemlock. Thinned in Dec. 2014. 2020 BA about 100. Strip along east edge of stand has well stocked maple poles plus a few aspen.																																																								
		<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>90</td> <td>Log/Pole</td> <td>13</td> <td>103</td> </tr> <tr> <td>Basswood</td> <td>3</td> <td>Log</td> <td>16</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>4</td> <td>Log</td> <td>15</td> <td></td> </tr> <tr> <td>Beech</td> <td>3</td> <td>Log/Pole/XLog</td> <td>16</td> <td></td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	90	Log/Pole	13	103	Basswood	3	Log	16		Black Cherry	4	Log	15		Beech	3	Log/Pole/XLog	16				<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>Variable</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Beech	Medium	Variable	Sapling	Ironwood	Medium	Variable	Sapling																					
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Beech	Medium	Variable	Sapling																																																												
Ironwood	Medium	Variable	Sapling																																																												
2	3102 - Grass	Nonstocked	3.8		Immature	No																																																									
				<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>Common Or Ground Juniper</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Common Or Ground Juniper	Low	< 5 feet	Tall Shrub	White Pine	Trace	Variable	Sapling																																															
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3	4110 - Sugar Maple Association	Sawtimber Well	9.3	105	81-110	N/A	Some understory hemlock.																																																								
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4	4110 - Sugar Maple Association	Poletimber Medium	13.0	61	1-50	N/A	Aspen is mostly in one clone in the middle of the stand; beech mostly in the southeast part of the stand.																																																								
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5	3301 - Low Density Deciduous Trees	Nonstocked	16.1		Unspecified	No	Airport runway approach. Stand is filling in, could probably be a forested type next entry period. Patches of dense aspen in the middle of the stand, 3-5" dbh in 2020. Mixed pines: white, red, Scotch, jack. Apple trees are in poor shape.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	4110 - Sugar Maple Association	Sawtimber Well	6.1	103	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	90	Log/Pole	10	103
Beech	5	XLog/Log/Pole	20	
Black Cherry	5	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	Sapling
Beech	Full	Variable	Sapling

7	42110 - Planted Red Pine	Sawtimber Well	107.9	72	141-170	N/A	Thinned summer 2015. Some patches were left unthinned for denser turkey roosting cover. South 200' or so was thinned a little heavier to promote seeding in and establishment of hardwoods from adjacent stand. East 1 acre of that strip was all JP, was clearcut and now filling in with JP, RP, beech. 2020 BA about 145. [2010 comments: Jack pine is in open lanes within the stand and along east edge. Beech saplings are sparse, but thicker in canopy gaps; otherwise no understory. Stand was initially thinned every-other row, so height didn't develop well and trees remain limby. Last YOE, stand was withheld from thinning in hope of promoting some trees to pole class; trees are still too short. BA needs reduction, but further thinning will not promote height growth.]
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	98	Log/Pole	12	72
Jack Pine	2	Pole/Sapling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Medium	Variable	Sapling
White Pine	Trace	< 5 feet	Sapling

8	4110 - Sugar Maple Association	Poletimber Medium	8.8	50	1-50	N/A	Sparse pine, juniper in understory.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	85	Pole/Sapling	5	50
Beech	5	Pole/Sapling	7	
Black Cherry	10	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling

9	4130 - Aspen	Poletimber Well	6.7	39		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	60	Pole	7	39
Black Cherry	20	Pole	6	39
Pin Cherry	5	Pole/Sapling	6	39
Sugar Maple	3	Pole	6	
Red Maple	1	Pole	7	
Quaking Aspen	5	Pole	6	39
Beech	2	Pole	7	
Ironwood	4	Pole/Sapling	5	39

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	Variable	Sapling
Sugar Maple	Low	Variable	Sapling
Ironwood	High	Variable	Sapling
Beech	Low	Variable	Sapling

10	122 - Road/Parking Lot	Nonstocked	4.2			No	County Road 677 - Benzonia Trail
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11	4110 - Sugar Maple Association	Poletimber Poor	6.9	41	1-50	N/A	Mostly stump sprouts.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	37	Pole/Sapling	6	
Quaking Aspen	3	Pole	6	
White Pine	5	Pole/Sapling	6	
Black Cherry	55	Pole/Sapling	6	41

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Sugar Maple	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12	4139 - Aspen, Mixed Deciduous	Poletimber Well	5.8	39	51-80	N/A	Small amount of pin cherry poles, but dying off.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Sugar Maple					20	Pole/Sapling	6		Sugar Maple				Low	Variable	Sapling
Beech					5	Pole/Sapling	7		Beech				Medium	Variable	Sapling
Quaking Aspen					5	Pole	7	39	Black Cherry				Low	>20 feet	Sapling
Bigtooth Aspen					40	Pole	7	39	Red Pine				Low	Variable	Sapling
Black Cherry					30	Pole/Sapling	6	39							

13	4110 - Sugar Maple Association	Poletimber Poor	11.8	55	51-80	N/A	Open grown, limby maple. Scattered clones of aspen. Row of mature maple along Oviatt Rd. and Springview Dr. Scattered old apple trees, junipers, Scotch/red pine saplings and small poles. Maple is larger and more dense on the west side of the stand.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Sugar Maple					80	Pole/Sap/Log	6	55	Sugar Maple				Medium	Variable	Sapling
Quaking Aspen					4	Pole	6		Beech				Low	Variable	Sapling
Red Pine					8	Pole/Sapling	6		Red Pine				Low	Variable	Sapling
Black Cherry					3	Pole	6		Scotch Pine				Low	Variable	Sapling
Scotch Pine					5	Pole/Sapling	6								

14	3303 - Mixed Low Density Trees	Nonstocked	31.5		Immature	No	Old orchard succeeding to mixed hardwoods and pines, mostly filling in with white pine.
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Sub-Canopy Species				Density	Avg. Height	Size
White Pine				Medium	>20 feet	Pole
Red Pine				Low	>20 feet	Pole
Bigtooth Aspen				Trace	>20 feet	Log
Scotch Pine				Trace	Variable	Sapling
Red Pine				Trace	Variable	Sapling
Common Or Ground Juniper				Low	< 5 feet	Tall Shrub
Apple (spp.)				Trace	Variable	Tall Shrub
Sugar Maple				Low	>20 feet	Pole
Autumn Olive				Trace	5 - 10 feet	Tall Shrub
White Pine				Medium	Variable	Sapling
Black Cherry				Low	>20 feet	Pole

15	42110 - Planted Red Pine	Poletimber Medium	26.2	53	141-170	N/A	Stand was 3rd-row thinned in Nov.-Dec. 2015. 2020 BA about 150. [2010 comments: Shore-to-Shore Trail abuts stand. SI trees: 8", 48', 8",
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Red Pine					96	Pole	8	53	Beech				Trace	< 5 feet	Seeding
Black Cherry					4	Pole	8								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	4110 - Sugar Maple Association	Sawtimber Well	42.1	100	111-140	N/A	Aspen has a patchy distribution. Scattered hemlock. Patch of black locust near northwest corner of the stand. 2020 BA about 125. Some mortality in cherry.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	65	Pole/Log	9	100
Red Maple	5	Log	15	
Beech	10	Log/Pole/XLog	14	
Bigtooth Aspen	3	Log/Pole	11	
Black Cherry	15	Log/Pole	12	
Black Locust	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
Beech	High	Variable	Sapling
Ironwood	Low	Variable	Sapling

17	42110 - Planted Red Pine	Poletimber Well	12.3	39	171-200	N/A	2020 BA about 175.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	96	Pole	7	39
Black Cherry	4	Pole	7	

18	4110 - Sugar Maple Association	Poletimber Poor	13.6	60	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	55	Pole/Sap/Log	6	60
Red Maple	10	Pole	8	
Jack Pine	4	Pole/Sapling	7	
Black Cherry	30	Pole/Log/Sap	8	
Red Pine	1	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
Beech	Low	Variable	Sapling
Jack Pine	Low	Variable	Sapling

19	4110 - Sugar Maple Association	Sawtimber Well	70.5	113	111-140	N/A	Fair to poor quality timber, many multi-stemmed trees. 2020 BAs: 110, 70, 160, 130 140, 100; mean 118.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	75	Log/Pole	12	113
Red Maple	5	Log	16	
Beech	15	Log/Pole/XLog	16	
Black Cherry	5	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	Sapling
Beech	Full	Variable	Sapling
Ironwood	Low	Variable	Sapling

20	4319 - Mixed Upland Forest	Poletimber Poor	39.4	53	1-50	N/A	A few old apple trees.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	25	Pole/Sapling	6	53
Quaking Aspen	2	Pole	7	
White Pine	10	Pole/Sapling	5	
Red Pine	20	Pole/Sapling	6	
Jack Pine	25	Pole/Sapling	5	
Black Cherry	15	Pole/Sapling	6	
Red Maple	3	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Juniper	Low	< 5 feet	Tall Shrub
White Pine	Low	Variable	Sapling
Red Pine	Trace	Variable	Sapling
Jack Pine	Trace	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
21	31022 - Warm Season Grass	Nonstocked	14.0		Immature	Managed Opening																																				
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22	42110 - Planted Red Pine	Sawtimber Medium	54.2	72	111-140	N/A	2020 BA about 120. [2010 comments: SI trees: 11.7", 67'; 10.3", 65'; 10.2", 66'. Scattered cherry, birch. Little understory except JP and beech in fire breaks and canopy gaps, has some bending/breaking from heavy snow. Marked thinning spring 2013, residual BA 111. Small inclusion of black locust, maple and cherry near the road: old homestead.]																																			
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23	42110 - Planted Red Pine	Poletimber Well	38.9	39	171-200	N/A	Shore-to-Shore Trail abuts stand. 2020 BAs: 220, 220, 150, 180; mean 193.																																			
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24	122 - Road/Parking Lot	Nonstocked	2.4			No	Beeman Road																																			
25	42220 - Natural Jack Pine	Sapling Medium	22.8	8	Immature	N/A	Formerly storm-damaged JP plantation, was clearcut spring 2013, allowed to regenerate naturally to JP, RP, BC, etc. Numerous standing dead JP post-harvest & lots of slash.																																			
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26	4112 - Maple, Beech, Cherry Association	Poletimber Medium	15.7	113	81-110	N/A	2020 BA about 90, quite variable. Stand is more or less two-storied: older poor quality cherry and maple over mixed hardwood poles and saplings. 2nd age (56 as of 2020) was taken from an 8" red maple. Aspen is in scattered clones. Scattered beech, white pine.																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
27	42110 - Planted Red Pine	Sawtimber Well	23.8	66	141-170	N/A	2020 BA about 145. Stand had been 3rd-row thinned. 2010 SI trees: 9" 65'; 9" 67. Marked thinning completed spring 2013.																																															
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28	4110 - Sugar Maple Association	Poletimber Well	2.3	51	51-80	N/A	Stand is a narrow strip between the road and pine plantation, including a row of overmature maples along the road.																																															
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29	42110 - Planted Red Pine	Poletimber Well	8.1	39	171-200	N/A	JP is mostly along west edge of stand. 2020 BA = 180.																																															
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30	4112 - Maple, Beech, Cherry Association	Sawtimber Well	29.8	101	81-110	N/A	Some good quality sawtimber, especially cherry. Thinned in Dec. 2014. 2020 BA about 90-100. Scattered mature yellow birch, hemlock.																																															
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31	3301 - Low Density Deciduous Trees	Nonstocked	37.3		Immature	Managed Opening	Older maple and cherry trees border an abandoned grade running through the stand. Shore-to-Shore Trail runs through stand. Scotch and white pine poles here and there.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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32	42110 - Planted Red Pine	Poletimber Well	45.6	39	171-200	N/A	Fringe of JP along NW edge of stand. 2020 BA about 170. Scattered mature hardwoods.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	3	Pole/Sapling	6	
Red Maple	2	Pole	7	
Red Pine	90	Pole	7	39
Jack Pine	2	Pole/Sapling	5	
Black Cherry	3	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Deciduous Saplings	Low	Variable	Sapling

34	3301 - Low Density Deciduous Trees	Nonstocked	18.1		Immature	No	Several deteriorating aspen clones. Scattered jack and Scotch pines.
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Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Trace	Variable	Sapling
Sugar Maple	Trace	>20 feet	Pole
Quaking Aspen	Low	>20 feet	Sapling
Serviceberry (Juneberry)	Trace	10 - 20 feet	Tall Shrub
Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub
Red Maple	Trace	>20 feet	Sapling
Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Black Cherry	Trace	Variable	Sapling
Black Cherry	Low	>20 feet	Pole
Black Cherry	Trace	>20 feet	Log

35	4110 - Sugar Maple Association	Poletimber Medium	29.2	51	1-50	N/A	Stand is heterogenous in density and size of trees. Mostly maple/cherry, but some areas heavier to pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Pole/Sap/Log	6	51
Black Cherry	20	Pole/Log	8	
Ironwood	3	Pole/Sapling	5	
Beech	2	Pole	7	
Red Pine	5	Pole/Sap/Log	8	
Red Maple	1	Pole	8	
Scotch Pine	1	Pole/Sapling	5	
Jack Pine	1	Pole/Sapling	5	
White Pine	6	Pole/Sap/Log	6	
Quaking Aspen	1	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
White Pine	Trace	Variable	Sapling
Ironwood	Low	Variable	Sapling
Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub
Red Pine	Trace	Variable	Sapling
Jack Pine	Trace	Variable	Sapling

36	4110 - Sugar Maple Association	Sawtimber Well	10.6	112	111-140	N/A	Scattered hemlock, basswood and yellow birch. 2020 BA about 120.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	80	Log/Pole/XLog	14	112
Red Maple	5	Log/Pole	12	
Beech	5	XLog/Log	18	
Black Cherry	10	Log	17	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	Sapling
Beech	Medium	Variable	Sapling
Ironwood	High	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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37	42110 - Planted Red Pine	Poletimber Well	93.7	39	171-200	N/A	2020 BA about 180. Shore-to-Shore Trail abuts stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	92	Pole	7	39
Black Cherry	8	Pole/Log	8	

38	4110 - Sugar Maple Association	Sawtimber Medium	11.0	110	81-110	N/A	Scattered hemlock, yellow birch in stand. Selection harvest completed fall 2013, excluding the steeper areas on the north side of the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	80	Log/Pole	12	110
Red Maple	6	Log	14	
Beech	4	Log/Pole/XLog	16	
Black Cherry	10	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	Sapling
Beech	Low	Variable	Sapling
Ironwood	Medium	Variable	Sapling

39	3301 - Low Density Deciduous Trees	Nonstocked	6.7			No	Sparse hardwoods encroaching into an old field area.
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Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	Pole
Quaking Aspen	Trace	>20 feet	Sapling
Black Cherry	Low	>20 feet	Log
Black Cherry	Low	>20 feet	Pole
Scotch Pine	Trace	Variable	Sapling
Witch Hazel	Trace	10 - 20 feet	Tall Shrub
Common Or Ground Juniper	Low	< 5 feet	Tall Shrub
Serviceberry (Juneberry)	Trace	10 - 20 feet	Sapling
Red Pine	Trace	Variable	Sapling
Deciduous Saplings	Low	Variable	Sapling

40	4130 - Aspen	Poletimber Well	13.0	39	Unspecified	N/A	Scattered hemlocks in stand. Black cherry is mostly stump sprouts.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Pole/Log	8	
Red Maple	7	Pole	7	
Bigtooth Aspen	40	Pole	7	39
Black Cherry	18	Pole	7	39
Quaking Aspen	25	Pole	7	39

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Medium	Variable	Sapling
Deciduous Saplings	Low	Variable	Sapling
Sugar Maple	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
41	3301 - Low Density Deciduous Trees	Nonstocked	10.0		Immature	No	Mixed JP, RP, WP, SP saplings and seedlings. Spruce along west side were planted by private landowner thinking this was his land. Wooden posts supposedly marking property line are well into state land.																																
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42	4110 - Sugar Maple Association	Poletimber Medium	5.5	59	1-50	N/A	Pole/sapling hardwoods encroaching into an old field area, with sparse older, open-grown tree intermixed. Shore-to-Shore Trail abuts stand.																																
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Ironwood	5	Pole/Sapling	5																																				
43	4110 - Sugar Maple Association	Poletimber Medium	5.3	66	51-80	N/A	Deteriorating aspen clone over younger maples in the southwest part of the stand.																																
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44	4110 - Sugar Maple Association	Sawtimber Medium	41.3	109	81-110	N/A	Selection harvest completed fall 2013. There are patches dominated by pole/sapling trees, especially in the south-central and southeast parts of the stand; these were excluded from the 2013 timber sale. Density of understory saplings is quite variable. 2020 BA around 90.																																
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45	4110 - Sugar Maple Association	Sawtimber Well	45.7	108	81-110	N/A	[2010 comments: BA's: 110, 120, 80, 100, 100, 120, 100; mean 104. Considerable variation in dbh. 12' x12' deer enclosure in south lobe of stand; looks a little better regeneration-wise than surrounding area. Has an ash, s. maple, and cherry over 4' tall iron plus several ironwoods; also some shorter ash and cherry. Needs minor repair.] 2020: fence has only two ironwood saplings and two ash saplings; one side partly collapsed. 2020 BAs: 120, 140 100, 110, 110; mean 116.																																
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46	4319 - Mixed Upland Forest	Sawtimber Well	4.0	76	171-200	N/A																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
47	31021 - Cool Season Grass	Nonstocked	7.5		Immature	Managed Opening	Some old apple trees, dead and dying. Most of this stand is cultivated for a wildlife food plot.																																														
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48	4110 - Sugar Maple Association	Poletimber Medium	8.2	56	51-80	N/A	Small numbers of misc. species: beech, black locust, ironwood, mixed pines. Shore-to-Shore Trail runs through stand.																																														
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49	42110 - Planted Red Pine	Sawtimber Medium	30.2	66	141-170	N/A	2010 SI trees: 11.3" 60'; 8.9" 62'. Previously 3rd-row thinned; marked thinning completed spring 2013.																																														
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50	4110 - Sugar Maple Association	Poletimber Medium	13.5	56	1-50	N/A	Natural regeneration in an old field, progressively more sparse with more maple along west side, more pines to the east. Pines are slowly filling in open areas, mix of RP, JP, WP, and SP.																																														
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51	4110 - Sugar Maple Association	Sawtimber Well	13.1	110	111-140	N/A	Shore-to-Shore Trail runs through stand. Good quality maple. 2020 BA about 120.																																														
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52	42120 - Planted Jack Pine	Poletimber Poor	34.1	67	51-80	N/A	Lots of mortality, dead wood. 2010 SI trees: 8.3" 57'; 7.7" 52'.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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53	42290 - Natural Mixed Pine	Poletimber Poor	15.0	26	1-50	N/A	There are scattered remnant patches of experimentally planted hybrid aspen poles and sprouts.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	40	Pole/Sapling	5	26	Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub
Red Pine	35	Pole/Sapling	5	26	Jack Pine	Medium	Variable	Sapling
Black Cherry	10	Pole/Log/Sap	8		Red Pine	Low	Variable	Sapling
Sugar Maple	10	Pole/Log	8		Deciduous Saplings	Low	Variable	Sapling
Bigtooth Aspen	5	Pole/Sap/Log	7					

54	4130 - Aspen	Poletimber Medium	6.5	23	Immature	N/A	This stand regenerated from a cut-over hybrid aspen experimental planting. There is a single row of large, old sugar maples along the road. Some log-sized aspen from the original planting remain near the edges.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	7	Pole/Sap/Log	6		White Pine	Low	Variable	Sapling
Bigtooth Aspen	90	Sapling/Pole/Log	4	23				
Black Cherry	3	Pole	6					

55	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	37.7	36	1-50	N/A	Heterogenous mix of ages, species encroached into an old field area. Pines are steadily filling in and are multi-aged up to about 25-30 yrs. old. Shore-to-Shore Trail runs through stand. More maple to NW, more pine to SE.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	25	Pole/Sap/Log	6	56	Red Pine	Medium	Variable	Sapling
Red Pine	33	Pole/Sapling	6	36	Jack Pine	Medium	Variable	Sapling
Jack Pine	35	Pole/Sapling	6	36	Beech	Low	Variable	Sapling
Black Cherry	4	Pole/Sapling	7					
Scotch Pine	2	Sapling/Pole	4					
Beech	1	Pole/Sapling	6					

56	3102 - Grass	Nonstocked	4.5		Immature	Managed Opening	Old orchard & homestead (old foundation near road x trail intersection). S. to S. trail through stand. Pines are steadily encroaching.
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Sub-Canopy Species	Density	Avg. Height	Size
Scotch Pine	Trace	Variable	Sapling
Jack Pine	Trace	Variable	Sapling
Apple (spp.)	Low	Variable	Tall Shrub
Black Cherry	Trace	Variable	Sapling
Red Pine	Low	Variable	Sapling
Common Lilac	Trace	5 - 10 feet	Tall Shrub
Black Cherry	Low	>20 feet	Pole
Common Or Ground Juniper	Low	< 5 feet	Tall Shrub
Red Pine	Low	>20 feet	Pole

57	42110 - Planted Red Pine	Sawtimber Medium	1.6	66	111-140	N/A	Stand is a retention area within a winter 2009-2010 clearcut. There are homestead remnants within the stand, with some remnant lilacs and apple trees, and a few beech, cherry and maple poles.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log/Pole	12	66	Beech	Medium	Variable	Sapling
					White Pine	Low	Variable	Sapling
					Common Lilac	Trace	5 - 10 feet	Tall Shrub
					White Spruce	Trace	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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58	122 - Road/Parking Lot	Nonstocked	6.7			No	Plowman and Beeman roads
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59	330 - Low-Density Trees	Nonstocked	18.4		Immature	No	North end has lots of JP regen.
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Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	Variable	Sapling
Common Or Ground Juniper	Medium	< 5 feet	Tall Shrub
Sugar Maple	Low	>20 feet	Log
Red Pine	Trace	Variable	Sapling
Black Cherry	Low	>20 feet	Pole
Sugar Maple	Trace	Variable	Sapling
Autumn Olive	Trace	< 5 feet	Tall Shrub
Jack Pine	Trace	>20 feet	Pole
Red Pine	Trace	>20 feet	Pole
Scotch Pine	Trace	Variable	Sapling

60	42110 - Planted Red Pine	Sawtimber Medium	4.1	66	141-170	N/A	Stand is a retention area within a winter 2009-2010 clearcut, with some remnant strips of both JP & RP (mostly RP). Jack pine is dying out.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	85	Log/Pole	11	66
Jack Pine	10	Pole	8	67
Black Cherry	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Medium	5 - 10 feet	Sapling
Jack Pine	Low	5 - 10 feet	Sapling
Red Pine	Low	5 - 10 feet	Sapling

61	4112 - Maple, Beech, Cherry Association	Poletimber Medium	17.6	51	1-50	N/A	Limby, open-grown hardwoods. Slowly filling in with pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	68	Pole/Sap/Log	7	51
Red Pine	7	Pole/Sapling	7	
Jack Pine	10	Pole/Sapling	6	
Black Cherry	10	Pole	8	
Beech	3	Pole/Sapling	6	
Bigtooth Aspen	2	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
Red Pine	Low	Variable	Sapling
Jack Pine	Low	Variable	Sapling
Beech	Low	Variable	Sapling

62	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	7.4	46	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Pole	7	
Beech	15	Pole/Sapling	6	
Red Pine	5	Pole/Sapling	7	
Jack Pine	65	Pole	7	46
Black Cherry	10	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	High	Variable	Sapling
Jack Pine	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
63	3102 - Grass	Nonstocked	2.3		Immature	Managed Opening	Old homestead; building foundation.																																																		
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64	4117 - Mixed N. Hardwood - Pine	Poletimber Medium	3.4	59	81-110	N/A	Old homestead. "Cottonwood" listed is a single patch in the NW corner of white poplar. There are some over-mature maples on the edge, also some old apple trees.																																																		
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65	42110 - Planted Red Pine	Sawtimber Well	4.9	66	141-170	N/A	Stand was thinned during winter 2009-2010. 2020 BA about 160.																																																		
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66	42220 - Natural Jack Pine	Sapling Well	61.6	10	Immature	N/A	Former JP/RP strip plantation was clearcut winter 2009-2010, trenched summer 2010, replanted to RP April 2011. Areas that were previously JP are very dense with JP volunteers mixed with the planted RP.																																																		
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67	3301 - Low Density Deciduous Trees	Nonstocked	2.3		Immature	No	Jack, white, red, and Scotch pines.																																																		
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68	42110 - Planted Red Pine	Sawtimber Well	33.2	72	171-200	N/A	2010 site index trees: RP: 12.0" 71', 9.2" 60'; JP: 9.3" 60' ; Old gullies on some slopes. Frequent mortality in JP. Much of the plantation is in an every other row JP/RP pattern, but not consistently. 2020 BAs, RP/JP: 140/40, 110/50, 200/0, 140/20, 130/30, 150/10, 160/30; mean 147 + 26 = 173.																																														
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69	42110 - Planted Red Pine	Sawtimber Well	2.0	66	141-170	N/A	Stand is a retention area from within a winter 2009-2010 clearcut.																																														
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70	4110 - Sugar Maple Association	Poletimber Well	3.0	100	111-140	N/A	Component of older, larger trees of poor quality; pole timber is more promising.																																														
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71	42110 - Planted Red Pine	Poletimber Medium	17.2	53	81-110	N/A	2010 comments: Poor sandy soils. Erosion is stabilizing because of planted trees. RP on poorest areas is stunted, yellowed (nitrogen deficiency?). Density is quite variable. One acre patch in NE corner was thinned in summer 2013.																																														
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72	4110 - Sugar Maple Association	Sawtimber Well	81.7	100	111-140	N/A	29 acre patch from this stand was select harvested in 2018 (MWR cut), now stand 90. Scattered hemlock. Steep hillside at NE corner. 2019 BAs: 130, 120, 70, 140, 130, 100, 130, 150; mean 122. Good quality maple. Oak is between stands 80 and 90.																																														
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73	42220 - Natural Jack Pine	Poletimber Well	1.9	49	Unspecified	N/A	Old gullies. This is a small, immature stand of volunteer JP.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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74	42110 - Planted Red Pine	Poletimber Well	19.6	39	111-140	N/A	East part of the stand includes some experimentally planted oak. The crowns are co-dominant with the RP. See OI/compartiment files for details. 2019 BAs: 140, 160, 210, 150, 180, 180; mean 170.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	8	Pole/Sap/Log	8	
Red Oak	2	Pole/Sapling	5	38
Red Pine	85	Pole	7	39
Jack Pine	2	Pole	7	
Black Cherry	3	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Deciduous Saplings	Low	Variable	Sapling

75	3303 - Mixed Low Density Trees	Nonstocked	10.2		Immature	Managed Opening	Stand includes some experimentally planted oak; see compartment files for details. 2019: canopy is filling in, will probably move to a forested stand next entry period. A few scattered Austrian and Scotch pines.
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Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Trace	>20 feet	Pole
Red Oak	Low	>20 feet	Pole
Black Cherry	Trace	>20 feet	Pole
Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub
Paper Birch	Trace	>20 feet	Pole
Sugar Maple	Low	>20 feet	Pole
Jack Pine	Low	10 - 20 feet	Sapling
Autumn Olive	Trace	< 5 feet	Tall Shrub
Jack Pine	Trace	>20 feet	Pole
Red Pine	Trace	10 - 20 feet	Sapling
Sugar Maple	Low	Variable	Sapling

76	42110 - Planted Red Pine	Poletimber Well	37.7	39	171-200	N/A	2019 BAs: 190, 210, 170, 190; mean 190.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Pole/Log/Sap	8	
Red Pine	93	Pole	7	39
Black Cherry	2	Pole	8	

77	4112 - Maple, Beech, Cherry Association	Sapling Medium	9.1	45	1-50	N/A	Scattered old apple trees. Shore-to-Shore Trail runs through stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	72	Sapling/Pole	4	45
Beech	3	Pole	8	
Quaking Aspen	2	Pole	7	
Red Pine	2	Pole/Sapling	6	
Jack Pine	15	Pole/Sapling	5	
Black Cherry	6	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	10 - 20 feet	Sapling
Jack Pine	Low	Variable	Sapling
Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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78	4112 - Maple, Beech, Cherry Association	Poletimber Medium	13.3	100	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	50	Pole/Sap/Log	8	100
Red Maple	6	Pole/Sapling	6	
Quaking Aspen	15	Log/Pole	12	
Black Cherry	25	Log/Pole	13	
Ironwood	2	Pole	6	
Beech	2	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	Variable	Sapling
Ironwood	High	Variable	Sapling
Beech	Medium	Variable	Sapling

79	3301 - Low Density Deciduous Trees	Nonstocked	1.5		Immature	No	
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Sub-Canopy Species	Density	Avg. Height	Size
Scotch Pine	Trace	Variable	Sapling
Black Cherry	Low	>20 feet	Pole
Sugar Maple	Low	>20 feet	Pole
Deciduous Saplings	Low	Variable	Sapling

80	4110 - Sugar Maple Association	Sapling Poor	24.6	47	1-50	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	75	Sapling/Pole	4	47
Red Maple	2	Pole	7	
Red Pine	3	Pole/Sapling	5	
Jack Pine	4	Pole/Sapling	5	
Black Cherry	14	Pole/Sapling	7	
Red Oak	2	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
Jack Pine	Trace	Variable	Sapling
Juniper	Low	< 5 feet	Tall Shrub
Red Pine	Trace	Variable	Sapling

81	4110 - Sugar Maple Association	Poletimber Medium	20.6	61	51-80	N/A	Density is quite variable.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	85	Pole/Sap/Log	7	61
Beech	2	Pole	6	
Red Oak	3	Pole/Sapling	6	
White Pine	5	Log/Pole	10	
Black Cherry	5	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
Beech	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
White Pine	Low	< 5 feet	Seeding
Jack Pine	Trace	Variable	Sapling

82	4110 - Sugar Maple Association	Sawtimber Well	5.2	100	111-140	N/A	Fairly open understory. If thinned, access will have to be via private land. 2019 BA: 130.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	58	Log/Pole	11	100
Basswood	15	Log	14	
Black Cherry	25	Log	13	
Ironwood	2	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	Sapling
Beech	Low	Variable	Sapling
Ironwood	Low	>20 feet	Pole
Ironwood	High	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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83 3301 - Low Density Deciduous Trees Nonstocked 5.8 Immature No Old orchard. Caged, planted apple trees; mostly failed.

Sub-Canopy Species	Density	Avg. Height	Size
Apple (spp.)	Low	10 - 20 feet	Tall Shrub
Sugar Maple	Trace	>20 feet	Log
Red Oak	Low	>20 feet	Log
Sugar Maple	Low	>20 feet	Pole
Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub
Black Cherry	Low	>20 feet	Pole
White Pine	Trace	>20 feet	Pole
Autumn Olive	Trace	< 5 feet	Tall Shrub
Red Oak	Trace	>20 feet	Pole
Black Cherry	Trace	>20 feet	Log
White Pine	Low	Variable	Sapling
Deciduous Saplings	Low	Variable	Sapling

84 42201 - Natural White Pine, Mixed Deciduous Sawtimber Well 4.7 45 141-170 N/A Small, wet draw at south end of stand. Stand is mostly on an east-facing slope along a draw. Wolfy, open grown pines. Scattered red oak. Honey locust is along the road.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Pole/Log	9	
Red Maple	2	Log	14	
Quaking Aspen	4	Pole/Log	9	
Black Cherry	15	Log/Pole	11	
Black Locust	2	Pole/Sapling	7	
Red Oak	1	Log/Pole	12	
Honeylocust	1	Log	15	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Deciduous Saplings	Low	Variable	Sapling

85 6131 - Hemlock, White Pine, Maple, Birch Sawtimber Medium 6.5 108 81-110 N/A Shallow flowage through draw.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Log	14	108
Yellow Birch	15	Log/Pole	12	
Quaking Aspen	5	Log/Pole	12	
Northern White Cedar	15	Log/Pole/XLog	12	
White Pine	5	XLog/Log	18	
Hemlock	25	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	Variable	Sapling
Hemlock	Medium	>20 feet	Pole
Deciduous Saplings	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
86	3102 - Grass	Nonstocked	12.6			No	Clearcut spring 2013. Retained clumps of mature RP, plus some JP and deciduous trees on periphery. Roller chopped in 5/2017 to eliminate volunteer JP saplings, trenched 6/2017, planted 5/2018. Filled in with white oak acorns 10/2018 around periphery, in east lobe, and east 1/2 of main block. Red oak was prescribed, but white oak was used due to availability in fall 2018 vs. unavailable red oak acorns.																																																														
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87	42110 - Planted Red Pine	Sawtimber Medium	17.2	75	111-140	N/A	2010 SI trees: RP: 12.0" 71', 9.2" 60'; JP: 9.3" 60' ; Old gullies on some slopes. Shore-to-Shore Trail abuts stand. JP removed, red pine thinned in spring 2013.																																																														
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88	4110 - Sugar Maple Association	Sapling Well	1.5	23	Immature	N/A	Stand resulted from fall 2013 overstory removal with aspen removed and much of the pre-existing hardwood regeneration retained.																																																														
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Beech	2	Pole/Sapling	6																																																																		
89	4110 - Sugar Maple Association	Sawtimber Medium	117.8	100	81-110	N/A	Selection harvest completed summer/fall 2013, removing all ash and much of the beech. Good quality sugar maple. Scattered basswood, cherry.																																																														
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90	4110 - Sugar Maple Association	Sawtimber Medium	28.5	100	81-110	N/A	Stand was formerly part of stand 72. Selection harvested in spring 2018 as an MSU research project. Monoculture of s. maple with small amount of beech, basswood, and cherry. High slash left to thwart deer browsing on regeneration. Good quality s. maple.																																																														
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