



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61005

Entry Year 2023

Acreage: 1,899

County Benzie

Management Area: Benzie Moraines

Revision Date: 2021-05-17

Stand Examiner: Tim Webb

Legal Description:

T27N - R14W - Sections 2, 11, 14

Identified Planning Goals:

According to the Regional State Forest Management Plan, this compartment is included in the Benzie Moraines management area (MA). Vegetative management in this 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 hemlock wooly adelgid, and an increase in recreational trail use.

Past efforts toward even-age management of lower-quality northern hardwoods were somewhat successful. However, attempts in the last 10-year planning period failed (except for beech and ironwood), prompting conversion of hardwoods to red pine plantations in some areas. Further attempts at hardwood regeneration should be withheld until better methods can be developed.

Some forest openings in the compartment harbor Scotch pine and autumn olive. Attempts to eliminate these invasive species should be made as resources allow.

There are numerous conifer plantations of various species scattered throughout the compartment. Red and white pine plantations are growing well and should be maintained with periodic thinnings. Blocks of white spruce with mixed hardwoods are providing habitat diversity.

Soil and topography:

Most of the compartment is level to rolling with some kettle depressions, small wetlands and draws. A significant slope break and parallel valley run roughly north/south through parts of sections 2 and 11. Soils are predominantly Benzonia and Kaleva sand types.

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

Three private parcels lie within the compartment boundaries, the largest being 80 acres with a permanent residence. The other two are recreational properties, one with a cabin in trespass on adjacent state land. Ownership within a mile in all directions is mainly state land with the exception of the southwest corner which contains private forested parcels within 1/2 mile of the compartment boundary.

Unique Natural Features:

Pigeon Lake is in section 14, mostly on private land.

Archeological, Historical, and Cultural Features:

There is evidence of old homesteads in the northeast and northwest corners of section 2. An old, abandoned rail grade runs roughly north-south through the west half of sections 2 and 11.

Special Management Designations or Considerations:

Approximately the south 3/4 of the east 1/2 of section 14 is included in a special conservation area, previously nominated as proposed old growth in a 1997 plan. This is part of a multi-compartment complex of stands on a moraine landscape to be managed long-term for late-successional northern hardwoods with conifer elements, and for interior hardwood forest habitat. Active management should be limited to promoting succession/diversity in plantations, treating exotic pests, or fire suppression.

Watershed and Fisheries Considerations:

There are no water features in the compartment other than Pigeon Lake - a small, shallow pond on private land - and a few small wetlands in kettle depressions.

Wildlife Habitat Considerations:

State land in this compartment is situated predominately on glacial outwash plains of dry sandy soils. Wildfires were a common phenomenon on these dry soils and represent an important natural disturbance. These fires created and sustained a variety of fire driven early successional communities; however, parts of this landscape were at times shielded from fire to a degree. Consequently, some management for successional advanced hardwood/white pine stands is fitting to this compartment. Hardwood treatments should be designed to incorporate the preservation of tree species diversity, the retention of mature mast producing trees, and the protection of den, cavity, and downed trees. Tops should be left onsite, unchipped, and in scattered piles for habitat. Many wildlife species, including broad-winged hawks, wild turkeys, southern flying squirrels, eastern gray squirrels, and Baltimore orioles, are associated with these forest types.

This compartment also has a history of aspen cutting. Such early successional management is appropriate and should be continued in this area, with additional aspen harvests scheduled this inventory cycle to increase age class diversity. The incorporation of snags, leave trees, brush piles, and downed logs in these cuts will help to replicate a wildfire-altered forest and increase wildlife use by species like grouse, woodcock, golden-winged warbler, and deer.

Future management of the several pine stands here should consider incorporating small (2-5 acre) islands that are left relatively un-thinned within mature stands to provide winter roosting cover for turkeys.

Openings are an important part of this dry and fire prone landscape. Opening maintenance will continue in the compartment to benefit grassland species and species utilizing the edge component of these openings, such as, cedar waxwing, deer, wild turkey, mourning dove, meadow vole, or red fox.

Mineral Resource and Development Concerns and/or Restrictions

Numerous active sand/gravel pits exist in the area including a cluster of pits roughly three miles northeast of the compartment. There is good potential for sand and lesser amounts of gravel within the compartment. Glacial drift appears to be too thick here for potential bedrock non-metallic mineral production that would be economical. There is no known potential for oil & gas in the compartment, and there has been very sparse exploration in this area. There is no known metallic mineral potential in this part of the state. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Access is adequate through most of the compartment. Logging trucks may have difficulty in parts of section 14 because of terrain. However, much of this section may be incorporated into a special conservation area where logging may be limited. Recently imposed load restrictions on Fowler Road have curtailed hauling routes for potential timber sales in this compartment. The dirt road in the SWSW sec. 2 may need some fill/reshaping through low, wet stretches.

Survey Needs:

None

Recreational Facilities and Opportunities:

The Platte River Snowmobile Trail passes through sections 2 and 11. Garey Lake State Forest Campground is within one mile to the east of the compartment as is the Pearl Lake area. The area is popular for deer and grouse hunting. Non-hunting use consists of berry and mushroom picking.

Fire Protection:

Fire protection response for this area is from the Traverse City field office with assistance from Homestead Township Volunteer Fire Department. Road access in the area is fair which allows for reasonable response times. Good access to water points for fire suppression are readily available with a few miles. Wildfire history in the area has been relatively low.

Additional Compartment Information:

A private cabin just east of Pigeon Lake remains in trespass after past attempts at resolution languished.

The following reports from the Inventory are attached:

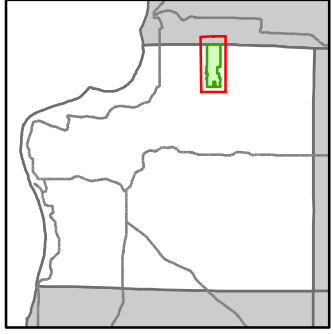
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

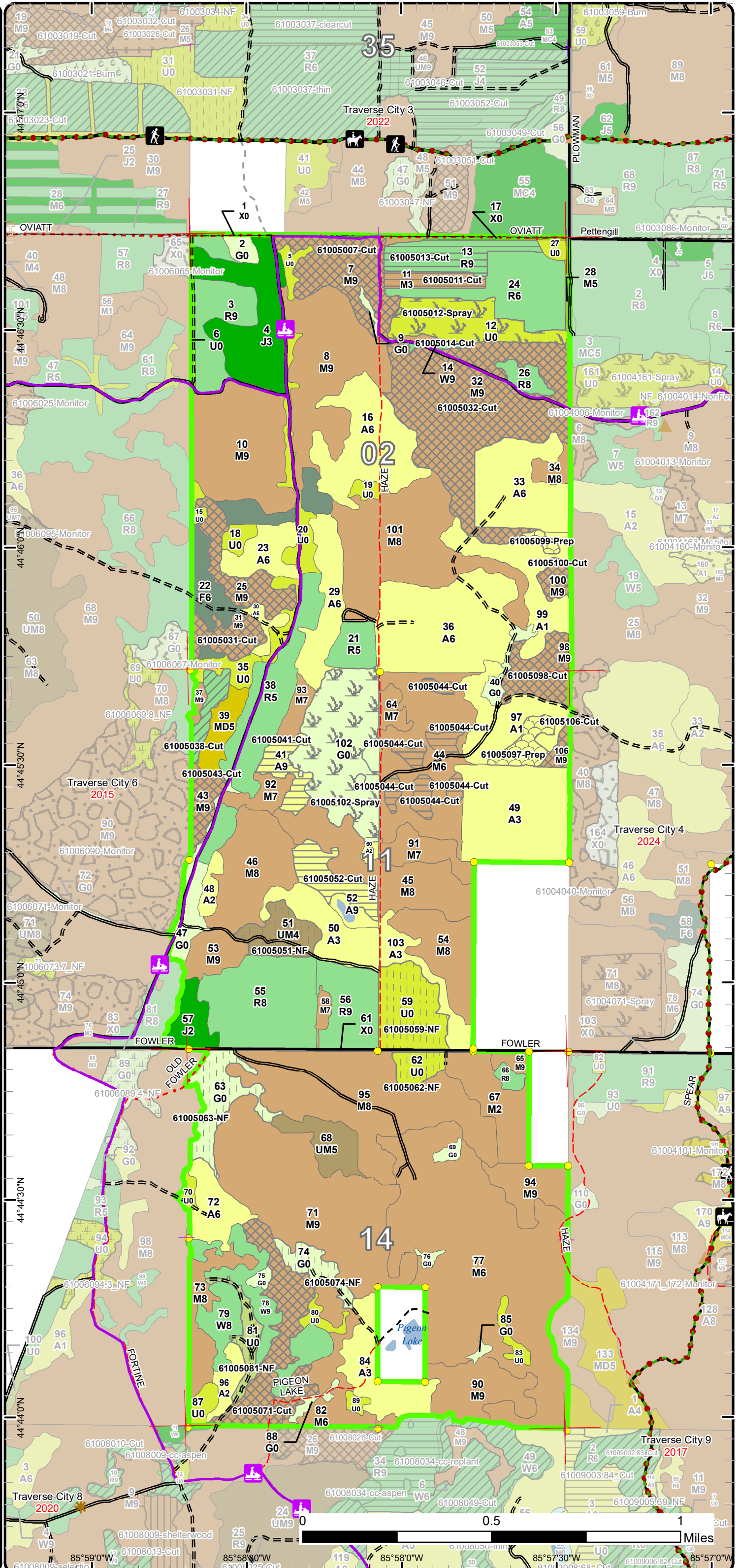
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 5
 T27N, R14W, Sec. 2, 11, 14
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Benzie Moraines
 YOE: 2023
 Acres: 1899.5 GIS Calculated
 Examiner: Tim Webb
 Map Revised: 9/15/2021
 Map Phase: Post-Review

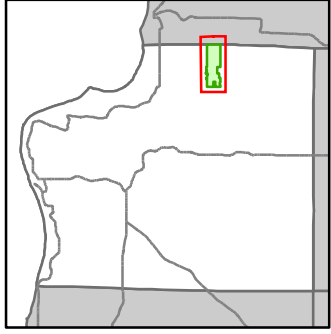


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Horse Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Lake/Pond
- Lakes and Rivers
- ▲ Berms
- ★ Trailhead
- Compartment Boundary
- Pesticide
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- Site Prep
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees

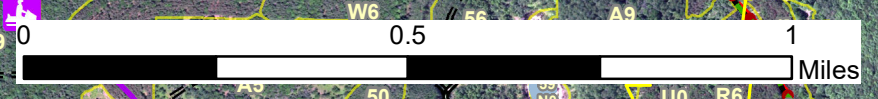
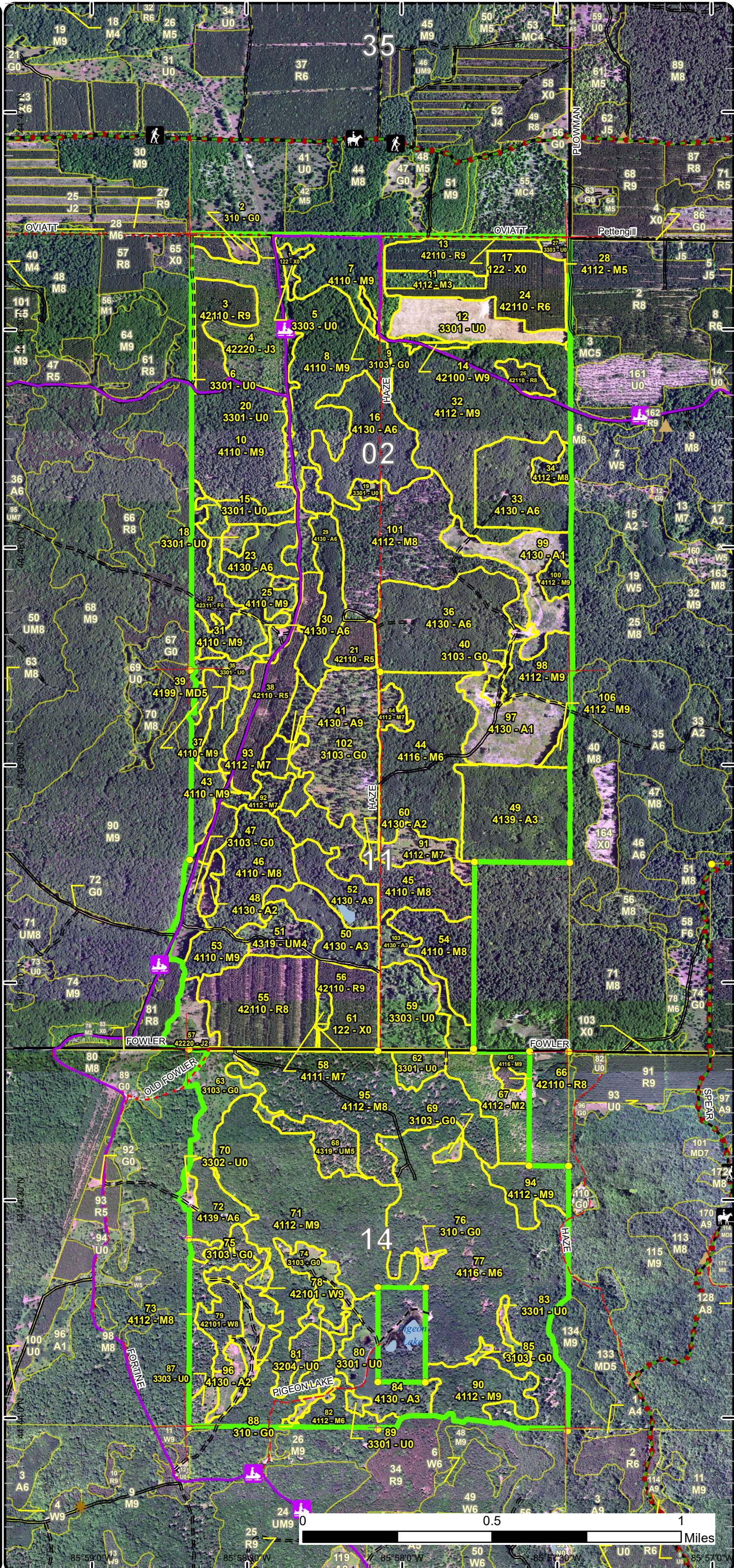


Stand Boundary Map

Compartment: 5
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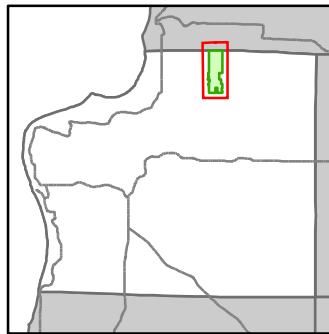
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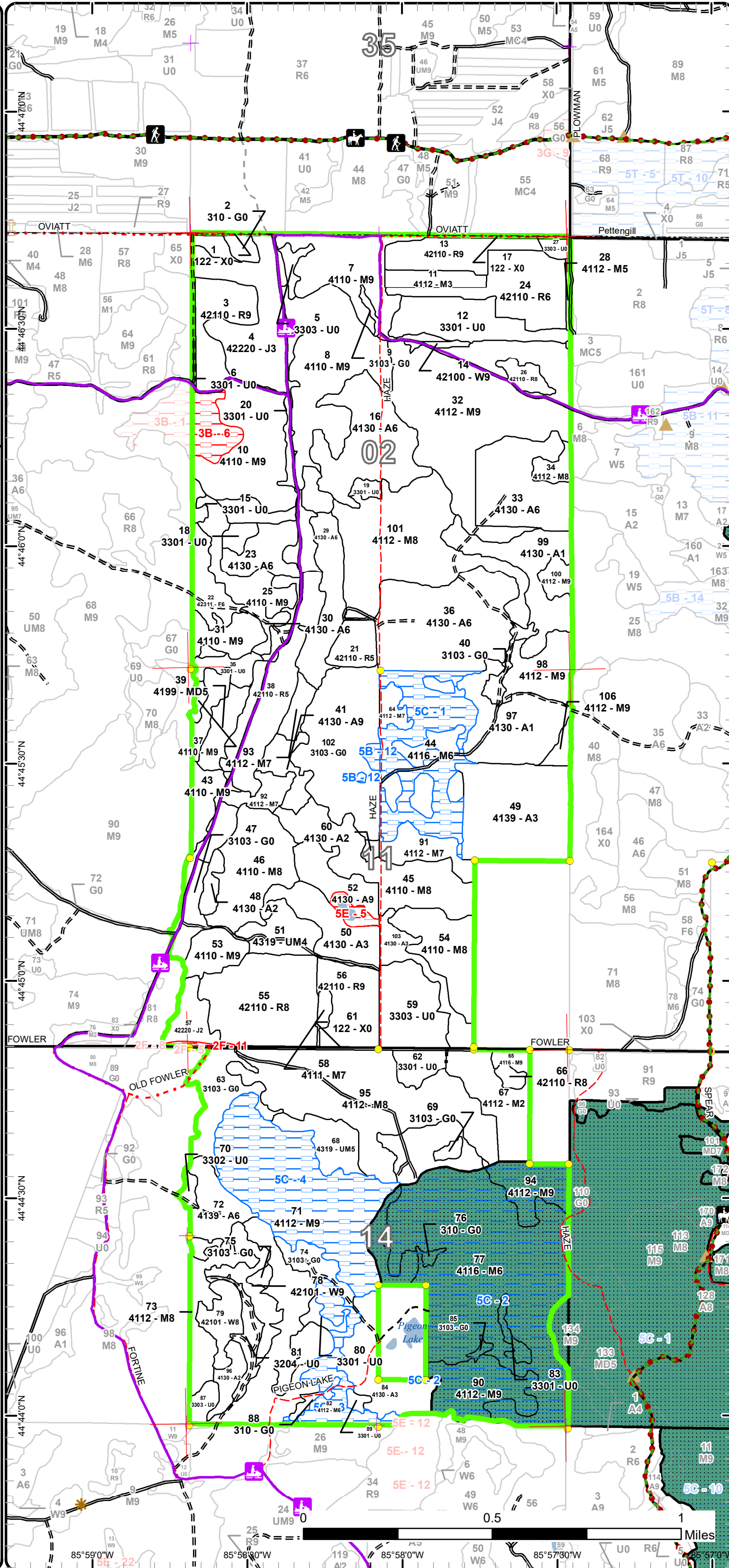
85°59'00"W 85°58'30"W 85°58'00"W 85°57'30"W
 44°41'30"N 44°41'00"N 44°40'30"N 44°40'00"N

Special Conservation Areas

Compartment: 5
 T27N, R14W, Sec. 2, 11, 14
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Benzie Moraines
 YOE: 2023
 Acres: 1899.5 GIS Calculated
 Examiner: Tim Webb
 Map Revised: 9/15/2021
 Map Phase: Post-Review



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- Horse Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Lake/Pond
- Lakes and Rivers
- Berms
- 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
- 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	80	42	97	126	0	26	0	0	0	0	0	0	0	0	0	0	0	371
Herbaceous Openland	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
Jack Pine	0	10	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Low-Density Trees	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
Mixed Upland Deciduous	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	9
Northern Hardwood	0	0	0	8	0	24	204	0	22	10	87	353	254	0	0	0	0	17	977
Red Pine	0	0	0	0	0	9	43	110	29	0	0	0	0	0	0	0	0	0	191
Upland Mixed Forest	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	13	26
Upland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Upland Spruce/Fir	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	23
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
White Pine	0	0	0	0	0	0	33	2	0	0	0	0	0	0	0	0	0	0	34
Total	224	90	78	105	126	65	319	112	51	10	87	353	254	0	0	0	0	30	1901



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 5
Total Compartment Acres: 1,899

Commercial Harvest - 278
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	22	0	0	0	0	0	0	0	0	22
Northern Hardwood	22	208	0	0	0	0	0	0	0	230
Red Pine	17	0	0	0	0	7	0	0	0	24
White Pine	0	0	0	0	0	2	0	0	0	2
Total	61	208	0	0	0	8	0	0	0	278

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	278	10	0	0	0	71	0	0	76	435
Next Step	0	25	153	0	0	107	527	0	0	813
Total	278	35	153	0	0	178	527	0	76	1247



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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Approved Treatments:

7	61005007-Cut	28.5	4110 - Sugar Maple Association	Sawtimber Well	104	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Focus cutting on poor quality and multi-stemmed trees. Thin to about 90 BA, and create some regeneration holes, especially centered on aspen clones. Use appropriate contract specs to protect the snowmobile trail and its use during harvest operations.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> any mix of northern hardwoods and aspen in regeneration 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 /2022</p>											
11	61005011-Cut	7.6	4112 - Maple, Beech, Cherry Association	Sapling Well	23	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut all trees; no retention due to small stand size. Replant to RP in conjunction with stand 13 to the north. Require chipping to eliminate thick beech saplings, but fall back to mastication if chipping does not happen.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Release; Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(1yr); Monitoring, Artificial Regen(3yr)</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 /2022</p>											
12	61005012-Spray	23.6	3301 - Low Density Deciduous Trees	Nonstocked	0		Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Herbicide application to control beech and other deciduous seedlings and release planted RP.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(3yr); Planting, Interplant</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> 1 /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
13 61005013-Cut	17.4	42110 - Planted Red Pine	Sawtimber Well	69	141-170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut. Possible retention: small patch at east end adjacent to stand 27; some or all of the E-W white pine strip in the stand; young maple adjacent to the road. Require chipping to facilitate replanting.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Release; 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> Prep and re-plant to RP, along with stand 11 to the south.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
14 61005014-Cut	1.5	42100 - Planted White Pine	Sawtimber Well	64	201+	Harvest	Crown Thinning	4210 - Planted White Pine	Even-Aged	No
<p><u>Prescription</u> Thin to a residual BA of 130.</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 /2022</p>										
25 61005025-Cut	15.3	4110 - Sugar Maple Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Mark for selection harvest, target residual BA about 90. Make some regeneration holes centered on aspen clones. Use pertinent contract</p> <p><u>Specs:</u> specs to protect the snowmobile trail surface and its use during harvest.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed hardwoods, spruce, and aspen in regeneration 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 /2022</p>										
31 61005031-Cut	10.9	4110 - Sugar Maple Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Mark for selection harvest, opening up some gaps to release spruce and regenerate hardwoods. Target residual BA 70-80. Use pertinent</p> <p><u>Specs:</u> contract specs to protect the snowmobile trail surface and its use during harvest.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed hardwoods and white spruce</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 /2022</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
32	61005032-Cut	88.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	114	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> Mark for selection harvest, residual BA 80. Leave 2-3 beech or aspen per acre for habitat, cut the rest. Mark other species as needed for spacing and residual density. Use pertinent contract specs to protect the snowmobile trail surface and its use during harvest.</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 and aspen in regeneration 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 /2022</p>											
38	61005038-Cut	6.5	42110 - Planted Red Pine	Poletimber Medium	52	141-170	Harvest	Systematic Thinning	4211 - 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></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
41	61005041-Cut	8.9	4130 - Aspen	Sawtimber Well	58		Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut to 2" dbh. Retain scattered mixed-species clumps. Create some CWD.</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, mixed 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 /2022</p>											
43	61005043-Cut	8.3	4110 - Sugar Maple Association	Sawtimber Well	118	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Mark for selection harvest, target residual BA 80-90. Use pertinent contract specs to protect the snowmobile trail surface and its use during harvest.</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 and aspen in regeneration 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 /2022</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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44 61005044-Cut	14.7	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	53	111- 140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Clearcut to a 2" dbh limit. Create 1-2 down logs per acre for CWD, min. 10" dbh. Retain scattered individuals/clumps of hardwoods and a few aspen totaling 3-5% canopy coverage.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, mixed hardwoods

Regen:

Other Proposed clearcut patches within stand 44 were drafted using a brief stand walk-through and aerial imagery. The aim is to cut patches where aspen is concentrated, leaving the remainder of the stand for uneven-aged hardwood mgmt. Patches to be cut may vary in size and location from the proposal based on actual aspen distribution in the stand.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

51 61005051-NF	13.4	4319 - Mixed Upland Forest	Poletimber Poor	50	1-50	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		No
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Prescription Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

52 61005052-Cut	12.8	4130 - Aspen	Sawtimber Well	55		Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription Clearcut, retaining a patch of mature timber around the wetland basin. Also retain some scattered old beech for wildlife trees and any live ash. Cut and leave 1-2 trees >10" dbh per acre for CWD.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, mixed hardwoods

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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
59 61005059-NF	22.8	3303 - Mixed Low Density Trees	Nonstocked			NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
62 61005062-NF	6.7	3301 - Low Density Deciduous Trees	Nonstocked		Immature	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
63 61005063-NF	18.1	3103 - Rubus-Fern	Nonstocked		Immature	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
71	61005071-Cut	32.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	108	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> Mark for selection harvest, creating some large regeneration holes centered on aspen clones. Residual BA about 90. Remove most of the beech. Use pertinent contract specs to protect the snowmobile trail surface and its use during harvest.</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 hardwoods in regen gaps</p> <p><u>Regen:</u></p> <p><u>Other</u> Heavy beech scale. Be alert to potential RSH nesting (observed in area spring 2021). Because of likely seasonal harvest restrictions for bark slip periods and snowmobile trail protection, consider allowing 3 years for contract execution.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
74	61005074-NF	8.0	3103 - Rubus-Fern	Nonstocked		Immature	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
81	61005081-NF	7.4	3204 - Mast Producing Shrub	Nonstocked		Immature	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
97	61005097-Prep	7.8	4130 - Aspen	Sapling Poor	6	Immature	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Trench for planting. Consider creating deeper than normal trenches to set back cherry regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant; Pesticide, Skidder - Release; 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> Plant to RP.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
98 61005098-Cut	16.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	114	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> Mark for group selection, creating large regeneration holes centered on aspen clones. Remove most of the aspen and beech. Mark the rest for thinning.</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 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 /2022</p>										
99 61005099-Prep	2.0	4130 - Aspen	Sapling Poor	6	Immature	SitePrep	Trenching	42311 - Planted Spruce, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Trench, then plant white spruce</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant; Pesticide, Skidder - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> white spruce, mixed 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 /2022</p>										
100 61005100-Cut	4.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	114	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> Mark for selection; residual BA about 80. Remove most of the beech and aspen.</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, aspen, white spruce</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
102 61005102-Spray	47.4	3103 - Rubus-Fern	Nonstocked	0	Unspecified	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Spray to control beech and raspberry/blackberry; do not include patches of good aspen regen. <u>Specs:</u> Possibly delay treatment to coincide with cultivation when it occurs in stands 11 & 13 for economical benefit/efficiency. <u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Skidder - Release; Planting, Interplant; ; ; Planting, Initial <u>Treatments:</u> Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Acceptable Regen:</u> Planted red pine. Small amounts of aspen, cherry, or maple are acceptable. <u>Other Comment:</u> Percent to Treat = 100% <u>Site Condition</u> <u>Proposed Start Date:</u> 1 /1 /2021</p>										
106 61005106-Cut	3.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	114	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> Mark for selection; target residual BA 90. Remove most of the beech, but leave 1-2 per acre for habitat. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> mixed hardwoods and aspen in regen gaps <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 434.7

Report 4 – Site Conditions

Traverse City Mgt. Unit

Tim Webb : Examiner

Compartment: 5

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C	2F	3B	5E
		With Condition	Not Available						
369	365	0	4	Aspen		0			4
104	100	4	0	Herbaceous Openland	2	2			
46	45	0	1	Jack Pine			1		
105	102	3	0	Low-Density Trees		3			
9	9	0	0	Mixed Upland Deciduous					
977	652	314	11	Northern Hardwood		314		11	
191	191	0	0	Red Pine			0		
26	26	0	0	Upland Mixed Forest					
7	7	0	0	Upland Shrub					
23	23	0	0	Upland Spruce/Fir					
7	7	0	0	Urban					
34	34	0	0	White Pine					
1,899	1,562	322	16	Total Forested Acres	2	320	1	11	4
	82%	17%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	180	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
This is part of a multi-compartment SCA, to be managed as core habitat for species requiring mature, interior hardwood forest. Stands will continue to be managed using timber harvest, but with emphasis on habitat rather than timber production.							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Tim Webb : Examiner

Compartment: 5

Year of Entry: 2023

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	75	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	4	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Retention area including a wetland and surrounding slopes.							
6	Unavailable	3B: Threatened, endangered, and special concern species	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep road bank.							
12	Available	5B: Maintain for regeneration purposes	2	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: This site condition area is two patches of aspen regen within a larger area being regenerated to red pine. Retain these aspen patches as inclusions as the surrounding area gets site prepped and planted.							



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Unspecified	Habitat Area	Habitat Corridor	SCA	792
Comments				
This proposal is for a multi-compartment SCA, to be managed as core habitat for species requiring mature, interior hardwood forest. Stands will continue to be managed using timber harvest, but with emphasis on habitat rather than timber production.				

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	122 - Road/Parking Lot	Nonstocked	1.0			No	Petengill Rd.				
2	310 - Herbaceous Openland	Nonstocked	3.1			No	Stand is mostly an open grassy field, with patches of oak/white pine along the road.				
		Sub-Canopy Species	Density	Avg. Height	Size						
		Red Oak	Low	>20 feet	Pole						
		Black Cherry	Trace	>20 feet	Pole						
		White Pine	Low	>20 feet	Pole						
		Red Oak	Low	>20 feet	Log						
		Jack Pine	Low	Variable	Sapling						
3	42110 - Planted Red Pine	Sawtimber Well	21.9	65	111-140	N/A	Scattered hardwoods and old apple trees; beech, sugar maple, and cherry seedlings and saplings, thick in some spots. 2011 SI trees: 10.8" 66', 9.7" 62', 10.2" 66'. Snowmobile trail runs adjacent to stand. Thinned in Dec. 2014; post-harvest BA 125 (from sale cruise). 2021 BAs: 100, 120, 120, 140; mean 120.				
		Canopy Species	% Cover	Size Class	DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size
		Red Pine	97	Log/Pole	10	65		Sugar Maple	Trace	Variable	Sapling
		Black Cherry	3	Pole/Log	9			Beech	High	Variable	Sapling
4	42220 - Natural Jack Pine	Sapling Well	35.8	12	Immature	N/A	Stand was cut (cut 4 rows, leave 2 rows pattern) under TSC #35-04, unit cutting done 11/08, sale closed 5/28/09. North and east parts of stand planted to red oak acorns 11/08, about 17 acres, 188 acorns per acre in trenches, under FTP #C-61-478. Additional 10 acres planted 11/22/10 in middle of stand, about 2800 acorns, 280 per acre, partially trenched. Uncut jack pine was left to provide partial shade for oak and hardwood regeneration, to suppress JP regeneration, and to protect seedlings from browsing as the JP eventually fell over. Fall 2010: windstorm has already snapped 5-10% of the JP. Snowmobile trail runs through/adjacent to stand. 2012: now mostly doghair JP with some deciduous saplings and retained poles, occasional remnant mature JP. 2 acre patch of young sugar maple in SE corner.				
		Canopy Species	% Cover	Size Class	DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size
		Jack Pine	75	Sapling	2	12		Beech	Low	Variable	Sapling
		Black Cherry	5	Sapling/Pole	3						
		Beech	5	Sapling	2						
		Sugar Maple	5	Pole/Sapling	5						
		Pin Cherry	10	Sapling	3	12					
5	3303 - Mixed Low Density Trees	Nonstocked	3.1		Immature	No					
		Sub-Canopy Species	Density	Avg. Height	Size						
		Spotted Knapweed	High		Non-Wood						
		Witch Hazel	Low	5 - 10 feet	Tall Shrub						
		Pines (spp.)	Low	Variable	Sapling						
		Black Cherry	Low	>20 feet	Pole						
		Scotch Pine	Trace	>20 feet	Pole						
		Common Or Ground Juniper	Low	< 5 feet	Tall Shrub						
		Sugar Maple	Trace	>20 feet	Log						
		White Pine	Trace	>20 feet	Log						
		Jack Pine	Low	>20 feet	Pole						
		Autumn Olive	Trace	5 - 10 feet	Tall Shrub						
		Deciduous Saplings	Low	Variable	Sapling						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6 3301 - Low Density Deciduous Trees Nonstocked 1.8 Immature No Narrow opening along 2-track between mature hardwoods and pine plantation, succeeding to hardwoods with some pine volunteers.

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	Variable	Sapling
Black Cherry	Low	>20 feet	Pole
Bracken Fern	Medium		Non-Wood
Deciduous Saplings	Medium	Variable	Sapling
Sugar Maple	Low	>20 feet	Pole

7 4110 - Sugar Maple Association Sawtimber Well 32.2 104 111-140 N/A Scattered overstory red maple, basswood, ironwood. 2011 BA about 110. Aspen is declining. Generally low quality. Southeast part of stand merged in in 2017; has somewhat younger pole/sapling timber, as does NE finger along Oviatt Rd. That NE part has some black locust pole timber. 2021 BAs: 110, 160, 130, 170, 130, 140; mean 140.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	80	Log/Pole	11	104
Beech	5	Log/Pole/XLog	16	
Bigtooth Aspen	3	Log	15	
Black Cherry	10	Log/Pole	12	
Basswood	1	Log	15	
Black Locust	1	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	Sapling
Beech	Medium	Variable	Sapling
Hemlock	Low	10 - 20 feet	Sapling
Ironwood	Medium	Variable	Sapling
Ironwood	Low	>20 feet	Pole

8 4110 - Sugar Maple Association Sawtimber Well 50.7 114 81-110 N/A 2021 BAs: 80, 110, 100, 110, 120, 100, 90; mean 101. Stand has scattered patches of planted white spruce. Snowmobile trail runs adjacent to stand. Good quality timber.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	75	Log/Pole	10	114
Red Maple	5	Log	15	
Basswood	5	Log	14	
Beech	2	Log/XLog	16	
Bigtooth Aspen	2	Log/Pole	13	
Black Cherry	8	Log	14	
Ironwood	1	Pole	7	
White Spruce	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
Beech	Low	5 - 10 feet	Sapling
Ironwood	High	5 - 10 feet	Seeding
Ironwood	Low	Variable	Sapling
White Spruce	Trace	Variable	Sapling

9 3103 - Rubus-Fern Nonstocked 1.3 Immature No Old RR grade runs through opening.

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
Scotch Pine	Trace	10 - 20 feet	Sapling
Bracken Fern	Full		Non-Wood
Black Cherry	Low	>20 feet	Pole
Deciduous Saplings	Trace	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
10	4110 - Sugar Maple Association	Sawtimber Well	48.2	100	81-110	N/A	Scattered overstory aspen, yellow birch hemlock. Understory hemlock is concentrated in the WC part of the stand. Good quality timber along the north and east sides of the stand. Selection harvested in 2014, except WC part with more hemlock and hawk nest. Mature hemlock is mostly dead. 2021 BAs: 80, 100, 70, 80; mean 82.																																																		
<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>68</td> <td>Log/Pole</td> <td>13</td> <td>100</td> </tr> <tr> <td>Red Maple</td> <td>2</td> <td>Log/Pole/XLog</td> <td>16</td> <td></td> </tr> <tr> <td>Basswood</td> <td>8</td> <td>XLog/Log</td> <td>18</td> <td></td> </tr> <tr> <td>Beech</td> <td>2</td> <td>XLog</td> <td>22</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>20</td> <td>Log/Pole/XLog</td> <td>16</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	68	Log/Pole	13	100	Red Maple	2	Log/Pole/XLog	16		Basswood	8	XLog/Log	18		Beech	2	XLog	22		Black Cherry	20	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>Sugar Maple</td> <td>Low</td> <td>>20 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Hemlock</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>>20 feet</td> <td>Pole</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Low	>20 feet	Sapling	Beech	Low	Variable	Sapling	Hemlock	Low	10 - 20 feet	Sapling	Ironwood	High	Variable	Sapling	Ironwood	Low	>20 feet	Pole
Canopy Species	% Cover	Size Class	DBH	Age																																																					
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Ironwood	High	Variable	Sapling																																																						
Ironwood	Low	>20 feet	Pole																																																						
11	4112 - Maple, Beech, Cherry Association	Sapling Well	7.6	23	1-50	N/A	Scattered remnant apple trees. 2-aged: remnant hardwoods over beech/pine dominated regeneration.																																																		
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12	3301 - Low Density Deciduous Trees	Nonstocked	23.6	0		4211 - Planted Red Pine	Formerly Austrian pine plantation, plus parts of Scotch/red/white pine plantations. Old AP plantation was seed tree harvested by the previous landowner, resulting in scattered pine regen. and thick beech saplings. This was clean-cut in summer 2016, trenched in Oct. 2016, and planted with red pine in May 2017. Regen check spring 2018 showed need for aerial herbicide application to control deciduous volunteers, especially beech sprouts. 2019 regen check: cherry competition is 5-10', but sparse; not a big factor. Most of the beech competition is less than 5'. One odd rose bush in NW corner - multiflora?? Scattered AP, RP volunteers. 18% RP seedling mortality, 59% free to grow. Needs herbicide release spray.																																																		
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13	42110 - Planted Red Pine	Sawtimber Well	17.4	69	141-170	N/A	North strip along Oviatt Road is hardwood; additional hardwoods in 2 wider E-W lanes within the plantation. 2021 BAs: 180, 190, 160, 130, 140, 190; mean 165. PBB mortality pocket near middle of the stand. WP regen thick in some areas.																																																		
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14	42100 - Planted White Pine	Sawtimber Well	1.6	64	201+	N/A	Snowmobile trail crosses stand.																																																		
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16	4130 - Aspen	Poletimber Well	37.1	35		N/A	Big enough to be merchantable if need to cut for age class diversity. QA more abundant in lower areas.																																																															
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17	122 - Road/Parking Lot	Nonstocked	1.8			No	Oviatt Road
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18	3301 - Low Density Deciduous Trees	Nonstocked	3.3		Immature	No																																									
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19	3301 - Low Density Deciduous Trees	Nonstocked	2.3			No	
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21	42110 - Planted Red Pine	Poletimber Medium	8.8	45	111-140	N/A	Third-row thinning June 2016; 2021 BA about 120.																																				
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22	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	22.7	45	111-140	N/A	2021 BAs: 80, 100, 150, 120, 110; mean 112.																																																						
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Quaking Aspen	3	Pole	8		Witch Hazel	Medium	10 - 20 feet	Tall Shrub																																																					
White Spruce	74	Pole/Log	8	45	Serviceberry (Juneberry)	Low	>20 feet	Tall Shrub																																																					
Black Cherry	15	Log/XLog/Pole	14																																																										

23	4130 - Aspen	Poletimber Well	12.9	23	Immature	N/A	There is an inclusion of mature hardwoods toward the middle of the stand. Mostly sugar maple, but some black cherry and basswood as well.																																													
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24	42110 - Planted Red Pine	Poletimber Well	29.0	73	141-170	N/A	2011 SI trees: 9.0" 65', 9.1" 65', 7.7" 68'. Thinned in Dec. 2014; residual BA 136 (from sale cruise). 2021 BAs: 130, 190, 180, 140, 190, 170; mean 167. Two PBB mortality pockets in east part of the stand.																																																			
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25	4110 - Sugar Maple Association	Sawtimber Well	15.3	100	111-140	N/A	Numerous multi-stemmed trees. Some understory white spruce in places. 2021 BAs: 120, 150, 150, 120, 140; mean 136.																																																			
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26	42110 - Planted Red Pine	Sawtimber Medium	5.0	64	111-140	N/A	2011 SI trees: 10.1" 69', 10.4" 82'. Snowmobile trail runs adjacent to stand. Thinned in Dec. 2014; post sale BA (from sale cruise): RP 80, BC 16, WP 16, SM 9; total 120. 2021 BAs: 130, 130, 160, 120; mean 135.																																																			
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27	3303 - Mixed Low Density Trees	Nonstocked	2.4		Immature	No	Stand has an old concord grape vine on a Scotch pine.																																																			
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28	4112 - Maple, Beech, Cherry Association	Poletimber Medium	1.6	56	1-50	N/A	Hardwood strip between plantation blocks with some big, old sugar maples from old farmstead.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29	4130 - Aspen	Poletimber Well	20.1	35		N/A	Just reaching merchantability.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole/Sapling	6	35	Red Maple	Low	Variable	Sapling
Quaking Aspen	2	Pole/Sapling	6	35	Beech	Low	Variable	Sapling
Bigtooth Aspen	80	Pole/Sapling	7	35	Ironwood	Low	Variable	Sapling
Black Cherry	12	Pole	7	35				
Pin Cherry	3	Pole	6	35				

30	4130 - Aspen	Poletimber Well	3.8	23	Immature	N/A	There are some remnant mature aspens on the peripheries.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	68	Pole/Sap/Log	5	23	Black Cherry	Medium	5 - 10 feet	Sapling
Black Cherry	30	Sapling/Pole	4	23	Witch Hazel	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	2	Pole/Sapling	5		Ironwood	Low	Variable	Sapling

31	4110 - Sugar Maple Association	Sawtimber Well	10.9	100	111-140	N/A	Numerous multi-stemmed trees, generally low quality. 2021 BAs: 120, 50, 80, 200, 120; mean 114.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	70	Log/Pole	12	100	White Spruce	Medium	Variable	Sapling
Basswood	20	Log/Pole	12		Ironwood	High	Variable	Sapling
Black Cherry	2	Log/Pole	12		White Spruce	Low	>20 feet	Pole
Ironwood	3	Pole/Sapling	6					
White Spruce	5	Pole	8					

32	4112 - Maple, Beech, Cherry Association	Sawtimber Well	88.3	114	111-140	N/A	Aspen is old and declining. Beech is at risk. Snowmobile trail runs through stand. 2021 BAs: 210, 180, 120, 120, 80, 90, 160, 120, 130; mean 134. Good quality maple and cherry.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	47	Log/Pole	10	114	Sugar Maple	Low	Variable	Sapling
Red Maple	10	Log/Pole/XLog	12		Beech	Low	>20 feet	Pole
Beech	30	Log/Pole/XLog	16		Beech	High	Variable	Sapling
Bigtooth Aspen	2	Log	16	83				
Black Cherry	10	Log/XLog	15					
Quaking Aspen	1	Log	16					

33	4130 - Aspen	Poletimber Well	33.3	24	Immature	N/A	Lots of black knot on cherry.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	2	Pole/Sapling	5		Beech	Full	Variable	Sapling
Beech	1	XLog	26		Black Cherry	High	Variable	Sapling
Quaking Aspen	27	Pole/Sapling	5	24	Ironwood	Low	Variable	Sapling
Bigtooth Aspen	45	Pole/Sapling	5	24				
Black Cherry	25	Pole/Sapling	5	24				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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34	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	4.5	86	51-80	N/A	Poor quality open-grown cherry; many multi-stemmed trees. Good sugar and red maple understory through much of the stand, some reaching pole class.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	18	Pole/Sap/Log	7	
Red Maple	40	Pole/Log	8	
Bigtooth Aspen	2	Pole	8	
Black Cherry	40	Log	14	86

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

35	3301 - Low Density Deciduous Trees	Nonstocked	5.9		Immature	No	
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Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	Log
Black Cherry	Low	>20 feet	Pole
Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Basswood	Low	>20 feet	Log
Red Pine	Trace	Variable	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Spruce	Trace	Variable	Sapling
Deciduous Saplings	Low	Variable	Sapling
Autumn Olive	Trace	5 - 10 feet	Tall Shrub
White Pine	Trace	Variable	Sapling
Honeysuckle (spp.)	Trace	5 - 10 feet	Tall Shrub

36	4130 - Aspen	Poletimber Well	54.2	35		N/A	Area with planted spruce at the east end of the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Pole/Sapling	6	
Beech	1	XLog	28	
Bigtooth Aspen	62	Pole	6	35
White Spruce	5	Pole/Sapling	7	
Black Cherry	20	Pole/Sapling	7	35
Quaking Aspen	10	Pole	6	35

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

37	4110 - Sugar Maple Association	Sawtimber Well	1.9	100	81-110	N/A	2021 BAs: 50, 150, 110; mean 103.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	46	Log/Pole	11	100
Basswood	40	Log/Pole/XLog	16	
Quaking Aspen	2	Log/Pole	10	
Black Cherry	7	Log	14	
Ironwood	5	Pole	7	

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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38	42110 - Planted Red Pine	Poletimber Medium	43.0	52	141-170	N/A	(2011 comments: Somewhat limby, 2-4 stick trees. Snowmobile trail and an old RR grade run through much of the stand. SI trees: 7.9" 51', 9.0" 53', 10.7" 56'. BA's: 130, 200, 190, 190, 190, 250.) 2 parts of stand along the road were third-row thinned in June, 2016, plus all mature aspen cut; residual BA: RP 103, BC 14, RM 4, total 121 (from sale cruise). West part of stand was not cut in that entry. 2021 BAs: 180, 160, 100, 110, 150, 130, 130, 220 (west block); mean 148. There is an inclusion of aspen/cherry regeneration in the middle of the largest block.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Log/Pole	12		Deciduous Saplings	Low	Variable	Sapling
Red Pine	88	Pole/Log	9	52	Beech	Medium	5 - 10 feet	Sapling
Black Cherry	10	Log/Pole/XLog	14					

39	4199 - Other Mixed Upland Deciduous	Poletimber Medium	9.3	42	1-50	N/A	Stand has small amounts of elm, balsam poplar, beech, juniper, juneberry.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Pole/Log/Sap	8		Ironwood	High	Variable	Sapling
Quaking Aspen	20	Pole/Sapling	7					
Black Cherry	35	Sapling/Pole	4	42				
Ironwood	35	Sapling/Pole	4					

40	3103 - Rubus-Fern	Nonstocked	4.4			No	
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Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	>20 feet	Log
Sugar Maple	Low	Variable	Sapling
Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub
Bigtooth Aspen	Trace	>20 feet	Pole
Red Maple	Low	>20 feet	Log
Bracken Fern	High		Non-Wood
Sugar Maple	Low	>20 feet	Pole
White Spruce	Trace	< 5 feet	Sapling

41	4130 - Aspen	Sawtimber Well	8.9	58		N/A	West edge of stand is on a steep slope.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Log/Pole	13		Red Maple	Low	Variable	Sapling
Beech	6	Log/Pole/XLog	15		Beech	High	Variable	Sapling
Bigtooth Aspen	65	Log/Pole	10	58	Ironwood	Low	Variable	Sapling
Black Cherry	4	Log/Pole	12					
Sugar Maple	5	Log/Pole	12					

43	4110 - Sugar Maple Association	Sawtimber Well	8.3	118	111-140	N/A	Good quality hardwoods. Scattered beech and aspen. 2021 BAs: 100, 140, 120, 140; mean 125. Snowmobile trail runs adjacent to stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	80	Log/Pole/XLog	12	118	Sugar Maple	Low	>20 feet	Sapling
Basswood	5	XLog/Log	18		Beech	Low	Variable	Sapling
Black Cherry	15	Log	14		Ironwood	High	Variable	Sapling
					Sugar Maple	Low	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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44 4116 - Mixed N. Hardwood - Aspen Poletimber Well 58.6 53 111-140 N/A 2021 BA about 125.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Log/Pole	12		Red Maple	Low	Variable	Sapling
Red Maple	25	Pole/Log	9		Beech	Medium	Variable	Sapling
Beech	15	XLog/Log/Pole	22		Sugar Maple	Low	Variable	Sapling
Bigtooth Aspen	40	Pole/Log	9	53				
Black Cherry	10	Log/Pole	11					

45 4110 - Sugar Maple Association Sawtimber Medium 36.5 97 81-110 N/A Select cut late summer/fall 2015. Some garlic mustard along Haze Road. 2021 BA about 100. There is some ash regeneration, but it's heavily browsed.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	75	Log/Pole	12	97	Sugar Maple	Low	>20 feet	Sapling
Red Maple	5	Log	15		Beech	Medium	Variable	Sapling
Beech	10	XLog	28		White Ash	Low	< 5 feet	Seeding
Black Cherry	7	Log/Pole	12					
Basswood	3	Log	16					

46 4110 - Sugar Maple Association Sawtimber Medium 31.1 105 81-110 N/A Aspen is in scattered clones. Thinned in 2006. Lots of dead fallen ash. BAs: 40, 80, 90, 100, 90, 100; mean 83.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	72	Log/Pole	12	105	Beech	Medium	Variable	Sapling
Red Maple	2	Log	12		Ironwood	High	Variable	Sapling
Basswood	15	Log	16		White Ash	Low	Variable	Sapling
Beech	5	XLog/Log/Pole	18		Sugar Maple	Low	Variable	Sapling
Bigtooth Aspen	6	Log/Pole	12					

47 3103 - Rubus-Fern Nonstocked 12.0 0 Immature No Low valley covered with fern and patches of grass/spotted knapweed. Snowmobile trail and old RR grade pass through this stand.

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Trace	< 5 feet	Tall Shrub
Deciduous Saplings	Trace	Variable	Sapling
Black Cherry	Trace	>20 feet	Log
Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub
Sugar Maple	Trace	>20 feet	Log
Red Pine	Trace	Variable	Sapling
Bracken Fern	High	Unspecified	Non-Wood
Black Cherry	Medium	>20 feet	Pole
Scotch Pine	Trace	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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48 4130 - Aspen Sapling Medium 4.2 5 Immature N/A Steep west-facing slope. Clearcut in June 2016.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	5	Sapling	1		Blackberry/Raspberry	High	< 5 feet	Tall Shrub
Red Maple	2	Log/Pole	10					
Sugar Maple	2	Pole/Log	8					
Black Cherry	1	Pole	9					
Beech	10	Sapling	1					
Bigtooth Aspen	80	Sapling	1	5				

49 4139 - Aspen, Mixed Deciduous Sapling Well 46.7 24 Immature N/A The stand has mixed aspen-cherry regeneration with significant patches of pure cherry cover. Lots of black knot on cherry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	1	XLog	30		Beech	Full	Variable	Sapling
Bigtooth Aspen	40	Pole/Sapling	5	24	Black Cherry	High	Variable	Sapling
Black Cherry	35	Sapling/Pole	4	24				
Pin Cherry	5	Sapling/Pole	4	24				
Quaking Aspen	18	Sapling/Pole	4	24				
Red Maple	1	Pole/Sapling	5					

50 4130 - Aspen Sapling Well 19.7 15 Immature N/A Cut in 2006. Small islands of residual hardwoods, scattered old beech.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	7	Log/Pole	10		Ironwood	Low	Variable	Sapling
Beech	2	XLog	26					
Bigtooth Aspen	80	Sapling/Pole	3	15				
Black Cherry	1	Sapling	3	15				
Quaking Aspen	10	Sapling	3	15				

51 4319 - Mixed Upland Forest Poletimber Poor 13.4 50 1-50 N/A Mature hardwood patch along east edge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	30	Pole/Sapling	5	25	Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub
Jack Pine	15	Sapling/Pole	4		Ironwood	Low	Variable	Sapling
Black Cherry	15	Log/Pole	12					
Sugar Maple	35	Pole/Sap/Log	8	50				
Basswood	3	XLog/Log	20					
Ironwood	2	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
52	4130 - Aspen	Sawtimber Well	16.7	55		N/A	Garlic mustard along Haze Rd. Stand has at least a couple of surviving mature ash. Scattered red maple, cherry. Good amount of down logs.																																														
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53	4110 - Sugar Maple Association	Sawtimber Well	10.4	84	81-110	N/A	Heavy layer of ironwood seedlings. Small areas with bigtooth aspen on west side of stand. Thinned in 2006. 2021 BAs: 100, 90, 110; mean 100.																																														
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54	4110 - Sugar Maple Association	Sawtimber Medium	22.6	111	51-80	N/A	Good quality timber. Select cut in fall 2015. Scattered black cherry in stand. 2021 BAs: 60, 80, 70, 80, 60, 70; mean 70.																																														
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55	42110 - Planted Red Pine	Sawtimber Medium	42.6	68	111-140	N/A	2011 SI trees: RP: 9.3" 60', 11.7" 67', 10.7" 64'. Jack pine strips were clearcut and red pine strips thinned in Nov. 2014, residual BA 96 (from sale cruise). Eastern-most clearcut strip is fully stocked with JP/AB; other strips moderately stocked with RP, JP, AB. Scattered black cherry, sugar maple. 2021 BAs in red pine strips: 80, 130, 120, 180, 110, 150, 150; mean 131.																																														
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56	42110 - Planted Red Pine	Sawtimber Well	20.5	65	81-110	N/A	Scattered pole cherry. 2011 SI trees: 10.5", 61"; 11.2", 66'. November 2014: thinned; every 4th tree cut. Post sale residual BA 107 (from sale cruise). 2021 BAs: 70, 160, 120, 70, 70; mean 98.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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57	42220 - Natural Jack Pine	Sapling Medium	10.3	5	Immature	N/A	Clearcut in May 2016. Scattered residual hardwoods, and Austrian pine, etc. on bank along Fowler Rd. 2021: Regen stocking is quite variable, but most of the stand is filling in ok.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	5	Log	12	
Red Maple	3	Pole/Log	9	
Sugar Maple	2	Pole/Log	9	
Red Pine	1	Log/Pole	11	
Beech	15	Sapling	1	
Black Cherry	1	Sapling	3	5
Jack Pine	70	Sapling	1	5
Austrian Pine	3	Pole	8	

58	4111 - S.Maple, Hard Mast Association	Sawtimber Poor	2.5	105	1-50	N/A	Shelterwood cut Nov. 2014. Filled in heavily with beech and ironwood. North 1/3 has some good aspen regeneration.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	63	Log/Pole	12	105
Beech	15	XLog/Log	18	
Red Pine	15	Log/Pole	10	
Ironwood	5	Pole/Sapling	5	
Black Cherry	2	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	Sapling
Beech	High	5 - 10 feet	Sapling
Ironwood	High	5 - 10 feet	Sapling
Bigtooth Aspen	Low	10 - 20 feet	Sapling

59	3303 - Mixed Low Density Trees	Nonstocked	22.8			No	Mostly old field partially filled in with pine and hardwoods, plus some small patches of mature maple.
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Sub-Canopy Species	Density	Avg. Height	Size
Common Or Ground Juniper	Low	< 5 feet	Tall Shrub
Deciduous Saplings	Low	Variable	Sapling
Red Pine	Low	Variable	Sapling
Bigtooth Aspen	Trace	>20 feet	Pole
Sugar Maple	Low	>20 feet	Log
Black Cherry	Low	>20 feet	Pole
Sugar Maple	Low	>20 feet	Pole
Red Pine	Low	>20 feet	Pole

60	4130 - Aspen	Sapling Medium	1.4	7	1-50	N/A	Cut summer 2014. This is a small part of a larger, mostly-failed hardwood regeneration cut that filled in well with aspen.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	85	Sapling	1	7
Sugar Maple	7	Log	12	
Beech	3	XLog	28	
Beech	5	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Full	< 5 feet	Tall Shrub

61	122 - Road/Parking Lot	Nonstocked	4.2			No	Fowler Road
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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62	3301 - Low Density Deciduous Trees	Nonstocked	6.7		Immature	No	Hardwoods are slowly reclaiming an old field.																																																				
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63	3103 - Rubus-Fern	Nonstocked	18.1		Immature	No	Patches of planted white spruce along edges; belt of red/Scotch pine along Fowler Road.																																																
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64	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	4.8	97	1-50	N/A	Cut summer 2014. This is a small part of a larger, mostly-failed hardwood regeneration cut that partly filled in with aspen. Most of the 2014 cut on the west side of Haze Rd. is being converted to red pine after the hardwoods failed to regenerate.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
65	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	2.9	45	111-140	N/A	West part of stand is aspen, east end is mixed hardwoods.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		55	Pole/Sapling	6	45	Sugar Maple	
Bigtooth Aspen		35	Log/Pole	10	59	Scotch Pine	
Black Cherry		5	Pole	7		Beech	
Quaking Aspen		5	Log/Pole	10		Ironwood	
						Density	
						Avg. Height	
						Size	
66	42110 - Planted Red Pine	Sawtimber Medium	2.5	66	111-140	N/A	Small, isolated stand. Second thinning Nov. 2014. 1st thinning 2009. 2021 BA about 135.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		97	Log/Pole	11	66	Sugar Maple	
Black Cherry		3	Log/Pole	12		Beech	
						Density	
						Avg. Height	
						Size	
67	4112 - Maple, Beech, Cherry Association	Sapling Medium	20.8	45	1-50	N/A	Described stand is the residual from a 2009 Scotch pine removal. Stand should gradually fill in with additional hardwood seedlings; more maple adjacent to mature hardwoods, otherwise mostly beech. Scotch pine volunteer saplings were hand felled by boy scout volunteers July 2014; greatly reduced, but still quite a few competing with hardwoods.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		25	Sapling/Pole	3	45	Beech	
Red Maple		30	Sapling/Pole	3	45	Ironwood	
Beech		25	Sapling	2		Scotch Pine	
Black Cherry		5	Pole/Sapling	7			
Ironwood		10	Sapling	3			
Scotch Pine		5	Sapling/Pole	1			
						Density	
						Avg. Height	
						Size	
68	4319 - Mixed Upland Forest	Poletimber Medium	12.7	57	51-80	N/A	Thinned in summer 2014. 2011 SI tree: 10.1" 68'. 2021 BA about 70.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		5	Log/Pole	10		Ironwood	
White Pine		55	Pole/Log	9	57	Ironwood	
Black Cherry		15	Log/Pole	10		Beech	
Red Maple		25	Log/Pole	10			
						Density	
						Avg. Height	
						Size	
69	3103 - Rubus-Fern	Nonstocked	1.8			No	
						Sub-Canopy Species	
						Quaking Aspen	
						Quaking Aspen	
						Pines (spp.)	
						American Elm	
						Common Or Ground Juniper	
						Bracken Fern	
						Black Cherry	
						Density	
						Avg. Height	
						Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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70	3302 - Low Density Conifer Trees	Nonstocked	2.2			No	Patches of planted white spruce with ironwood, cherry, maple, and aspen saplings and poles.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Deciduous Saplings	Low	Variable	Sapling
								White Spruce	Medium	>20 feet	Pole
								Black Cherry	Trace	>20 feet	Pole

71	4112 - Maple, Beech, Cherry Association	Sawtimber Well	116.4	108	111-140	N/A	Sugar maple is more prominent on hill tops, ridges. Aspen is in scattered patches. 2021 BAs: 80, 170, 130, 110, 170, 120, 150, 110; mean 130.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	30	Pole/Log	9	
								Red Maple	50	Log/Pole	13	108
								Beech	5	XLog/Log/Pole	18	
								Bigtooth Aspen	3	Log/Pole/XLog	15	
								Black Cherry	10	Log/Pole	12	
								Quaking Aspen	2	Log/Pole	12	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Sugar Maple	Low	>20 feet	Sapling	
Beech	Medium	Variable	Sapling									
Ironwood	Medium	Variable	Sapling									
Sugar Maple	Low	>20 feet	Pole									

72	4139 - Aspen, Mixed Deciduous	Poletimber Well	14.2	36		N/A	Scattered elm. Most of the hardwood is of stump sprout origin.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	15	Pole/Log/Sap	7	36
								Quaking Aspen	54	Pole	6	36
								Black Cherry	10	Pole/Log	8	36
								Ironwood	15	Sapling/Pole	4	
								Sugar Maple	5	Pole/Log/Sap	8	
								Pin Cherry	1	Pole	6	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Ironwood	Full	Variable	Sapling	
Beech	Low	Variable	Sapling									

73	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	15.1	108	81-110	N/A	Scattered beech & small patches of planted white pine. Selection harvested in summer 2014. 2021 BAs: 120, 80, 110, 110, 30; mean 90.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	30	Pole/Log	9	
								Red Maple	50	Log/Pole	12	108
								Black Cherry	16	Log/Pole	12	
								White Pine	3	Pole/Log	9	57
								Ironwood	1	Pole	6	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Sugar Maple	Low	>20 feet	Sapling	
								Beech	Medium	Variable	Sapling	
Ironwood	Low	Variable	Sapling									
Ironwood	Medium	< 5 feet	Seeding									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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74	3103 - Rubus-Fern	Nonstocked	8.0		Immature	No																																												
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75	3103 - Rubus-Fern	Nonstocked	1.7		Immature	No	This stand is the result of a small clearcut patch associated with a white pine thinning. The lower 1/4 of the stand regenerated well to aspen; the upper 3/4 was severely browsed and is now an opening.																										
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76	310 - Herbaceous Openland	Nonstocked	1.2			No																												
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77	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	145.0	55	81-110	N/A	Density is quite variable. Scattered white pine and elm in the stand. 2021 BAs: 120, 110, 40, 100, 100, 130, 100; mean 100.																		
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White Pine	Trace	Variable	Sapling																						

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Pole/Log	9	
Red Maple	35	Log/Pole	11	55
Quaking Aspen	25	Pole/Log	8	55
Bigtooth Aspen	10	Pole/Log	9	
Black Cherry	22	Log/Pole	10	
Ironwood	3	Pole/Sapling	5	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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78 42101 - Planted White Pine, Mixed Deciduous Sawtimber Well 22.5 57 141-170 N/A Thinned in 2007. 2021 BAs: 160, 180, 190, 130, 160, 130, 200; mean 164.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	80	Log/Pole	10	57	Ironwood	Medium	< 5 feet	Seeding
Black Cherry	15	Log/XLog/Pole	14		White Pine	Medium	< 5 feet	Seeding
Sugar Maple	1	Log/XLog	16		Beech	Low	Variable	Sapling
Red Maple	4	Log	14					

79 42101 - Planted White Pine, Mixed Deciduous Sawtimber Medium 10.3 57 141-170 N/A Thinned in 2007. 2021 BAs: 120, 180, 190, 140; mean 158.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	70	Log/Pole	10	57	Ironwood	High	Variable	Seeding
Black Cherry	20	Log/Pole/XLog	13		Beech	Low	Variable	Sapling
Sugar Maple	10	Log/Pole/Sap	10		White Pine	Low	< 5 feet	Seeding

80 3301 - Low Density Deciduous Trees Nonstocked 3.0 Immature No Part of stand is in frost holes.

Sub-Canopy Species	Density	Avg. Height	Size
Deciduous Saplings	Low	Variable	Sapling
Red Maple	Low	>20 feet	Pole
Black Cherry	Low	>20 feet	Pole
White Pine	Low	Variable	Sapling
Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub
Black Cherry	Low	>20 feet	Log
White Pine	Trace	>20 feet	Pole
Bracken Fern	High	Unspecified	Non-Wood

81 3204 - Mast Producing Shrub Nonstocked 7.4 Immature Managed Opening

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Trace	>20 feet	Pole
Deciduous Saplings	Trace	Variable	Sapling
Black Cherry	Low	>20 feet	Log
Black Cherry	Trace	>20 feet	Pole
Bracken Fern	Full		Non-Wood
White Pine	Low	Variable	Sapling
Autumn Olive	Medium	5 - 10 feet	Tall Shrub
Sugar Maple	Trace	>20 feet	Pole
White Pine	Low	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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82	4112 - Maple, Beech, Cherry Association	Poletimber Well	20.6	92	111-140	N/A	[2011 comments: Much of the stand is on slopes. Generally low quality hardwoods, but stand has some better quality single-stemmed maples (aged one RM: 31 yrs.) in the intermediate canopy. Aspen is in various aged clones, one aged at 53, some mortality.] 2021 BAs: 90, 150, 130, 130, 190, 140, 120, 50; mean 125. Scattered beech, white pine, elm.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	6	Log/Pole	10	
Red Maple	40	Pole/Log/Sap	8	
Quaking Aspen	6	Pole/Log	9	
Bigtooth Aspen	4	Log/Pole	10	63
Black Cherry	42	Log/Pole	10	92
Ironwood	2	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Full	Variable	Sapling
Red Maple	Medium	Variable	Sapling

83	3301 - Low Density Deciduous Trees	Nonstocked	3.5		Immature	No	
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Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	>20 feet	Pole
Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Deciduous Saplings	Low	Variable	Sapling
Black Cherry	Low	>20 feet	Log
Black Cherry	Low	>20 feet	Pole
White Pine	Low	Variable	Sapling
Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub
Bracken Fern	High	Unspecified	Non-Wood

84	4130 - Aspen	Sapling Well	22.3	14	Immature	N/A	The stand, cut in 2007, has scattered remnant white pine, juneberry, and individuals/patches of residual hardwoods. There are 2 small wetlands within the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	2	Log/Pole	12	
Red Maple	8	Log/Pole/Sap	11	
Quaking Aspen	5	Sapling/Pole	3	
Bigtooth Aspen	80	Sapling	3	14
Black Cherry	5	Pole/Log/Sap	8	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	Variable	Sapling

85	3103 - Rubus-Fern	Nonstocked	1.0		Immature	No	
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Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Trace	10 - 20 feet	Tall Shrub
Bracken Fern	Full		Non-Wood
White Pine	Trace	Variable	Sapling
St. Johns Wort	Low		Non-Wood
Red Maple	Trace	>20 feet	Pole
Black Cherry	Low	>20 feet	Pole
Black Cherry	Trace	>20 feet	Log
White Pine	Trace	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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87	3303 - Mixed Low Density Trees	Nonstocked	4.0		Immature	42311 - Planted Spruce, Mixed Deciduous	Stand was a poor quality white pine plantation, clearcut in 2007 with expected aspen regeneration. Aspen sprouts were sparse, heavily browsed. Furrowed and planted to w. spruce 5/16/14. Probably frost prone. 2021: 60-70' survival of WS, avg. 2-3' tall, with some WP filling in.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Red Maple	Trace	>20 feet	Pole
								White Pine	Low	>20 feet	Pole
								Sugar Maple	Low	Variable	Sapling
								White Spruce	Low	< 5 feet	Seeding
								White Pine	Trace	Variable	Sapling
								Ironwood	Low	Variable	Sapling
								Beech	Trace	Variable	Sapling
Black Cherry	Trace	>20 feet	Pole								

88	310 - Herbaceous Openland	Nonstocked	2.2			No	The stand is mainly in a frost-prone draw.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Black Cherry	Low	>20 feet	Pole
								Black Cherry	Low	>20 feet	Log
								White Pine	Low	Variable	Sapling
								Quaking Aspen	Trace	>20 feet	Pole
Red Maple	Trace	>20 feet	Pole								

89	3301 - Low Density Deciduous Trees	Nonstocked	1.6		Immature	No					
								Sub-Canopy Species	Density	Avg. Height	Size
								Quaking Aspen	Low	>20 feet	Pole
								Black Cherry	Medium	>20 feet	Log
								Deciduous Saplings	Trace	Variable	Sapling
								White Pine	Low	Variable	Sapling
								Serviceberry (Juneberry)	Trace	10 - 20 feet	Tall Shrub
								Bracken Fern	Full	Unspecified	Non-Wood
Red Maple	Low	>20 feet	Pole								

90	4112 - Maple, Beech, Cherry Association	Sawtimber Well	21.9	78	141-170	N/A	2021 BAs: 200, 170, 130, 80, 130; mean 142. Some mortality of aspen. Heavy to beech scale.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	35	Log/Pole	10	
								Red Maple	35	Log/Pole	10	78
								Beech	5	Log/Pole	11	
								Quaking Aspen	8	Log/Pole	12	
								Black Cherry	15	Log/Pole	12	
								Ironwood	2	Pole	6	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Sugar Maple	Low	>20 feet	Sapling	
Beech	Low	Variable	Sapling									
Ironwood	High	Variable	Sapling									
Serviceberry (Juneberry)	Trace	>20 feet	Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
91	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	11.5	97	1-50	N/A	Shelterwood cut in summer 2014. This part of the cut east of Haze Road is being retained as-is for wildlife habitat and potential long-term hardwood regeneration. Most of the rest of the 2014 cut is being converted to red pine after the hardwoods failed to regenerate.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech		20	XLog/Log	22	97	Blackberry/Raspberry	High	< 5 feet	Tall Shrub
Black Cherry		30	Log/Pole	13		Bracken Fern	Medium	Unspecified	Non-Wood
Sugar Maple		30	Log/Pole	12	97	Beech	Medium	< 5 feet	Seeding
Red Maple		20	Log	14	97				
5/14/21 WLD - Talk with Tim Webb about potential to add WLD treatment specs for low density treed community.									
92	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	7.1	97	1-50	N/A	Shelterwood cut in summer 2014 (except SW 1.5 acres not part of harvest area). This hill is being retained as-is for wildlife habitat and potential long-term hardwood regeneration. Most of the rest of the 2014 cut is being converted to red pine after the hardwoods failed to regenerate. Starting to fill in with cherry and beech. There are a few red maple and ash seedlings, but heavily browsed.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech		5	XLog/Log	22	97	Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Black Cherry		15	Log/Pole	12		Bracken Fern	Medium	Unspecified	Non-Wood
Sugar Maple		45	Log/Pole	12	97	Red Pine	Trace	< 5 feet	Seeding
Red Maple		33	Log	14	97	Black Cherry	Low	5 - 10 feet	Sapling
Ironwood		1	Pole	7		Beech	Medium	5 - 10 feet	Sapling
Red Pine		1	Log	12					
93	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	5.3	97	1-50	N/A	Shelterwood cut in summer 2014. This hillside is being retained as-is for wildlife habitat and potential long-term hardwood regeneration. Most of the rest of the 2014 cut is being converted to red pine after the hardwoods failed to regenerate.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech		5	Pole	5		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Black Cherry		10	Log/Pole	12		Bracken Fern	Medium	Unspecified	Non-Wood
Sugar Maple		15	Log/Pole	12	97	Beech	Medium	Variable	Sapling
Red Maple		70	Log/Pole	12	97	Black Cherry	Trace	5 - 10 feet	Sapling
94	4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.1	108	111-140	N/A	Within SCA. 2021 BAs: 120, 120, 160, 140; mean 135.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		45	Log/Pole	13	108	Beech	Medium	Variable	Sapling
Sugar Maple		35	Pole/Log	9	108	Sugar Maple	Low	>20 feet	Sapling
Beech		6	XLog/Log/Pole	18		Ironwood	Low	Variable	Sapling
Black Cherry		12	Log/Pole	12					
Basswood		2	Log/Pole	12					
95	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	74.6	108	81-110	N/A	Selection harvest occurred in summer 2014; most of the beech and ash were removed. 2021 BAs: 80, 90, 70, 100, 120; mean 92.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		55	Log/Pole	10	108	Beech	Medium	Variable	Sapling
Red Maple		30	Log	14		Sugar Maple	Low	>20 feet	Sapling
Black Cherry		10	Log/Pole	12		Ironwood	Low	Variable	Sapling
Beech		3	XLog/Log/Pole	18		Ironwood	Medium	< 5 feet	Seeding
Basswood		2	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
96	4130 - Aspen	Sapling Medium	6.2	7	Immature	N/A	Clearcut in summer 2014. Some areas (especially north and south ends) initially failed to regenerate, but slowly filling in with white pine, cherry and ironwood.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		95	Sapling	1	7	White Pine		
Black Cherry		2	Sapling	1	7	Ironwood		
Quaking Aspen		3	Sapling	1	7	Density		
						Avg. Height		
						Size		
						Seeding		
						Seeding		
97	4130 - Aspen	Sapling Poor	30.1	6	Immature	N/A	Clearcut winter 2014-15; scattered retained mature hardwoods. Large areas of the stand, especially one the east side, were initially devoid of regeneration; now filling in with cherry seedlings and a few red pines.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		30	Sapling	1	6	Black Cherry		
Quaking Aspen		49	Sapling	1	6	Beech		
Black Cherry		20	Sapling	1	6	Red Pine		
Sugar Maple		1	Log	12		Blackberry/Raspberry		
						Density		
						Avg. Height		
						Size		
						Seeding		
						Seeding		
						Seeding		
						Tall Shrub		
98	4112 - Maple, Beech, Cherry Association	Sawtimber Well	16.0	114	111-140	N/A	Aspen is old and declining. Beech are at risk. 2021 BAs: 160, 120, 140, 80, 110, 110; mean 120.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		30	Pole/Log	9	114	Beech		
Red Maple		15	Log	15		Ironwood		
Black Cherry		18	Log	14		Density		
Beech		30	Log/Pole/XLog	16		Avg. Height		
Bigtooth Aspen		7	Log/XLog	15	83	Size		
						Seeding		
						Seeding		
99	4130 - Aspen	Sapling Poor	25.6	6	Immature	N/A	Clearcut in early 2015; scattered residual hardwoods. Some parts of the stand (particularly in the NE) are taking a long time to fill in.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		50	Sapling	1	6	Beech		
Black Cherry		35	Sapling	1	6	Blackberry/Raspberry		
Quaking Aspen		15	Sapling	1	6	Density		
						Avg. Height		
						Size		
						Seeding		
						Tall Shrub		
100	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.8	114	111-140	N/A	West half of stand has planted white spruce. This stand was a retention pocket for the surrounding 2015 aspen regeneration cut. 2021 BA about 130.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		50	Log	14	114	White Spruce		
Beech		15	Log/Pole/XLog	16		Beech		
Black Cherry		15	Log/Pole	13		Density		
White Spruce		10	Pole	7		Avg. Height		
Bigtooth Aspen		10	Log	15		Size		
						Seeding		
						Seeding		
101	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	60.7	114	51-80	N/A	Thinned in 2015. 2021 BAs: 80, 80, 90, 70, 70, 30; mean 70. There is some decent cherry regeneration in many of the gaps. Good quality maple.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		65	Log/Pole	12	114	Sugar Maple		
Red Maple		20	Log/XLog	14		Beech		
Beech		5	XLog/Log	20		Black Cherry		
Black Cherry		10	Log/Pole	13		Density		
						Avg. Height		
						Size		
						Seeding		
						Seeding		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
102	3103 - Rubus-Fern	Nonstocked	49.6	0	Unspecified	4211 - Planted Red Pine	Shelterwood cut in summer 2014 for hardwood regeneration. Regen check Oct. 2018: thick with raspberry. Regeneration is predominantly beech, with a few cherry stump sprouts and very little else coming in 4 years after harvest. 2020 comment: most of the overstory seed trees were harvested in winter 2019-2020, with scattered >18-inch cherry and maple retained. Numerous cull and over-sized beech logs were left around the edges. Site will be converted to red pine. Trenched spring 2021.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Maple	Trace	>20 feet	Log	
								Sugar Maple	Trace	>20 feet	Log	
								Black Cherry	Trace	>20 feet	Log	
								Beech	High	< 5 feet	Seeding	
Blackberry/Raspberry	Full	< 5 feet	Tall Shrub									
103	4130 - Aspen	Sapling Well	12.2	6	1-50	N/A	Clearcut spring 2014.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	90	Sapling	1	6
								Sugar Maple	5	Log/Pole	12	
								Quaking Aspen	5	Sapling	1	6
Sub-Canopy Species	Density	Avg. Height	Size									
Beech	Medium	5 - 10 feet	Sapling									
Blackberry/Raspberry	Full	5 - 10 feet	Tall Shrub									
Ironwood	Low	5 - 10 feet	Sapling									
106	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.3	114	111-140	N/A	Aspen is old and declining. Beech are at risk. 2021 BA about 120.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	40	Pole/Log	9	114
								Red Maple	28	Log/Pole/XLog	14	
								Black Cherry	15	Log/Pole	13	
								Beech	15	Log/Pole/XLog	16	
Bigtooth Aspen	2	Log	12	83								
Sub-Canopy Species	Density	Avg. Height	Size									
Beech	Medium	Variable	Sapling									
Ironwood	Medium	Variable	Sapling									
Sugar Maple	Low	>20 feet	Sapling									