



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61024

Entry Year 2025

Acreage: 1,567

County Benzie

Management Area: Grand Traverse Moraine

Stand Examiner: Craig Allen

Legal Description:

T25N- R14W; Sections 2, 11, 14

Identified Planning Goals:

This compartment is a part of the Benzie Outwash Management Area. Within this compartment there is a high percentage of early successional forest types consisting primarily of aspen, red maple and cherry that will continue to require harvest treatments to balance age class distributions. We will concentrate our harvest efforts on the oldest age classes to regenerate. Most of the proposed treatments are targeting these stands. These cuts will have retention islands as well as various scattered retention trees remaining.

Soil and topography:

The topography is mostly level with some low lying areas. The upland areas consist of the well drained Kalkaska- Rubicon soil association. Lowland areas of wet and semi- wet flats are made up of permeable Roscommon- Augres- Croswell soils.

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

This compartment is part of a large block of State land, which includes some scattered private ownerships. The areas lying to the west, south and east of this compartment are also mostly State owned. The area lying to the north is private, and parceled into various ownerships.

Unique Natural Features:

The headwaters for Dair Creek start in this compartment.

Archeological, Historical, and Cultural Features:

There are no known sites within the compartment.

Special Management Designations or Considerations:

The forested lowland headwaters of Dair Creek form an important deeryard area.

Watershed and Fisheries Considerations:

Compartment 24 comprises the headwater area for Dair Creek, a significant tributary of the Betsie River. Dair Creek is a Designated Trout Stream, with naturally reproducing populations of brook trout, brown trout, and rainbow trout (steelhead). Dair Creek is critical in that it produces a large percentage of the wild steelhead parr from the Betsie River watershed. Therefore, Dair Creek should receive the utmost protection. For that reason, we recommend managing for species other than aspen in stands near the streams, in order to reduce the potential for major beaver impacts on the headwaters of this important stream. (Comments by Mark Tonello)

Wildlife Habitat Considerations:

This compartment lies entirely within a broad flat outwash plain which typically exhibits excessively drained soils and few lakes or wetlands. Upland areas are normally managed for a variety of forest age classes, successional stages, and patch sizes, as well as grass/shrub openings consistent with fire driven dynamics that historically shaped vegetation on this LTA. Several large non-forested stands on the west edge of section 2 will be managed in conjunction with adjacent non-forested stands west of Weldon Road, as a large opening complex. Treatments may include bracken and invasive species control, seeding, mowing, and prescribed fire. This type of treatment regime would benefit species such as American Redstarts, chestnut-sided warblers, ruffed grouse, and white-tailed deer, and amphibians associated with vernal pools occasionally found in this area.

There is an inclusion of poorly drained soils in section 14 which supports lowland hardwoods and lowland conifers. Some low areas could be allowed to succeed to uneven-aged stands of mixed coniferous and deciduous species and treated with selective harvest. Patch cuts can be used to mimic wind events and should be designed to maximize stem densities of the regenerating stand. High stem densities provide cover for wildlife and prevent the water table from rising. Treatments should leave tops unchipped and utilize timber operations to create coarse woody debris to provide horizontal cover for hares and other animals. Cuts should be designed to prevent loss of moisture by evapotranspiration, or otherwise to not alter the natural hydrologic cycle. This low lying area comprises a moderately sized deer yard that is drained by Dair Creek.

The aspen stands in this area have a component of conifer and hardwoods that should be used as leave trees/clumps as the aspen is harvested. An occasional oak is also found and are normally used as leave trees when harvesting surrounding aspen. Tops should be left unchipped for horizontal cover. When harvesting aspen that is adjacent to lowland stands, falling edge trees that occur on the upland/lowland interface provides needed horizontal cover for hares and other animals. The boundary marked trees can be felled into the uncut swamp after harvest is completed.

The southeastern portion of this compartment is slightly hilly and dominated by northern hardwoods. This area more resembles an LTA associated with small ground moraines. Hardwood treatments of any style should be designed to leave snags and coarse woody debris as well as within stand species diversity and vertical structure. Species benefiting from management of this community type include the red-eyed vireo, four-toed salamander, gray fox, and broad-winged hawk.

Mineral Resource and Development Concerns and/or Restrictions

There is no known metallic mineral potential in this part of the state. The nearest active sand/gravel pit is more than three miles away. There is potential for sand & gravel in the southern half of the compartment, on the uplands, but the compartment might be too far from populated areas (markets) to have much economic potential beyond use by the county road commission for road maintenance. The compartment is north of the main Antrim Shale gas play and Silurian reef trend. There is some potential for Antrim Shale gas production from beneath the compartment, but completing new wells here is unlikely to be economical. The compartment is more than two miles from any active Antrim production. Several Antrim wells have been drilled near the compartment, but pipelines were never extended to the area, and the wells have since been plugged and abandoned. Several wells have also been drilled in the area testing for Silurian reef reservoirs, and all were dry holes. There is no other known potential for oil & gas from known hydrocarbon producing formations beneath the compartment. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights. (Comments by Peter Rose, DNR Geologist, 3/10/2023).

Vehicle Access:

There are good gravel county roads on the edges of this compartment, offering good and easy access to State lands. There are also many forest "2-track" roads in various areas of the compartment that are in good condition and are used for public and DNR land management accessibility

Survey Needs:

There are currently no known survey needs in this compartment for land management activities at this time.

Recreational Facilities and Opportunities:

Snowmobile trail #3 (Platte River Snowmobile Trail) runs along Weldon Rd, and Aylsworth Rd, which are the western and northern boundary lines of this compartment. Snowmobile trails located on straight, county roads tend to invite high speeds, which increases safety concerns. Proposed timber management activities should include trail protection specifications to reduce impacts, increase safety, as well as serve as an example of how silviculturally sound timber harvesting practices can co-exist, and often improve recreation and wildlife experiences for future generations. Hunting and dispersed camping are also popular recreational activities throughout the compartment.

Fire Protection:

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

Additional Compartment Information:

The following reports from the Inventory are attached:

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

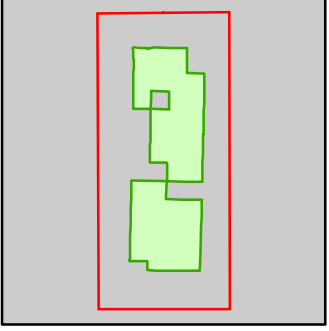
The following information is displayed, where pertinent, on the attached compartment maps:

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

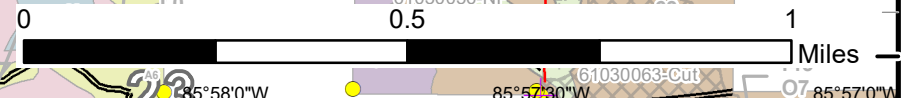
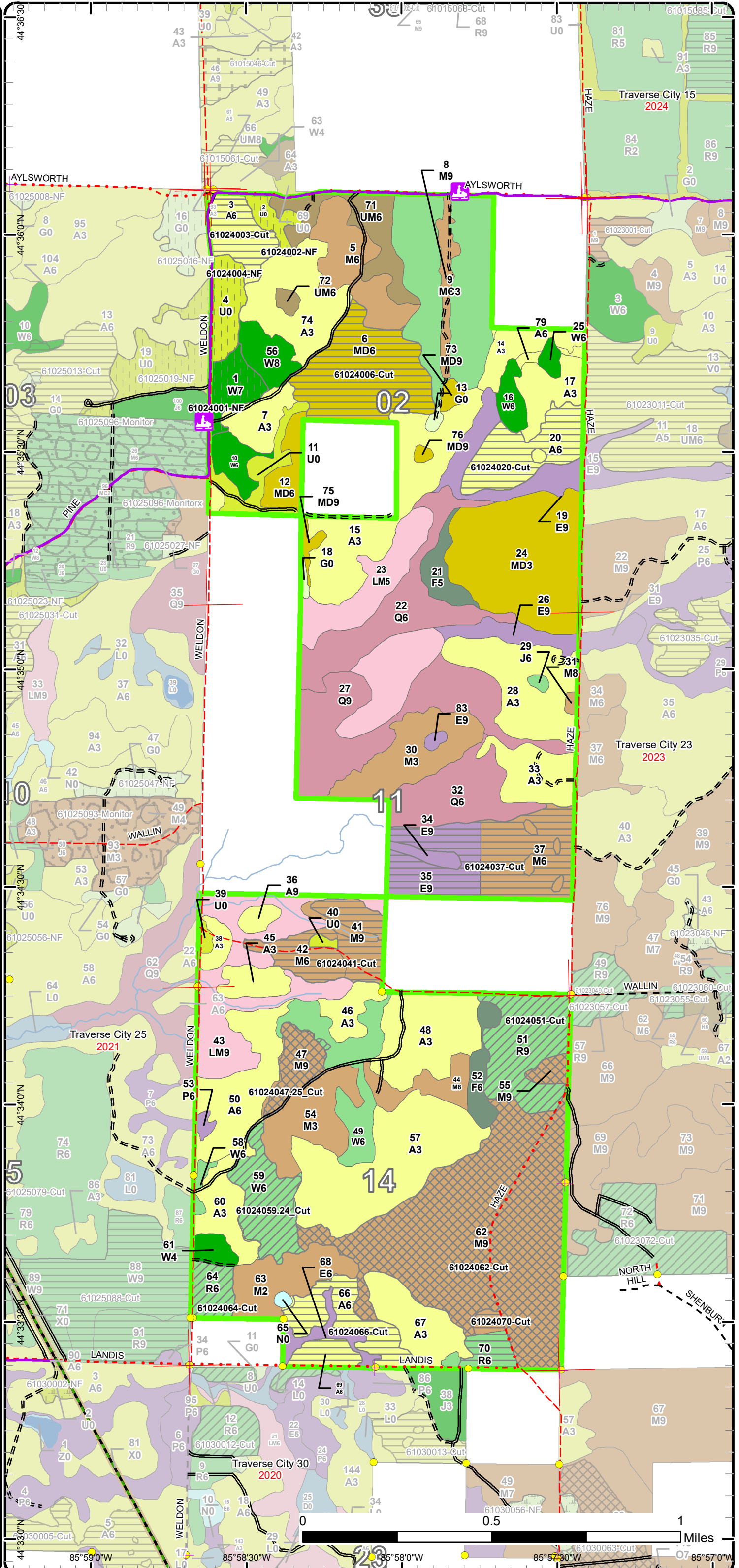
Cover Type & Treatments Map

Compartment: 24
T25N - R14W Sec. 02,11,14

County: Benzie
Unit: Traverse City
Mgmt Area: Grand Traverse Moraine
YOE: 2025
Acres: 1566.8 GIS Calculated
Examiner: Craig Allen
Map Revised: 5/9/2023
Map Phase: Web-Post



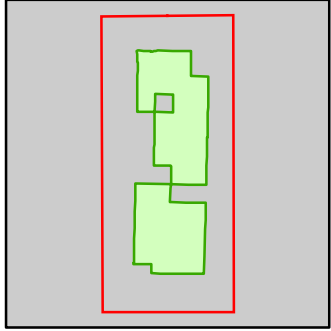
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Designated Rail Trail
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 623 - Emergent Wetland



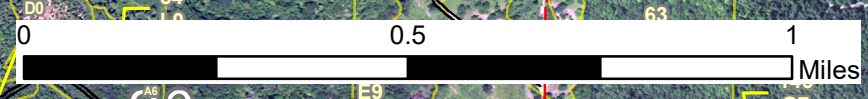
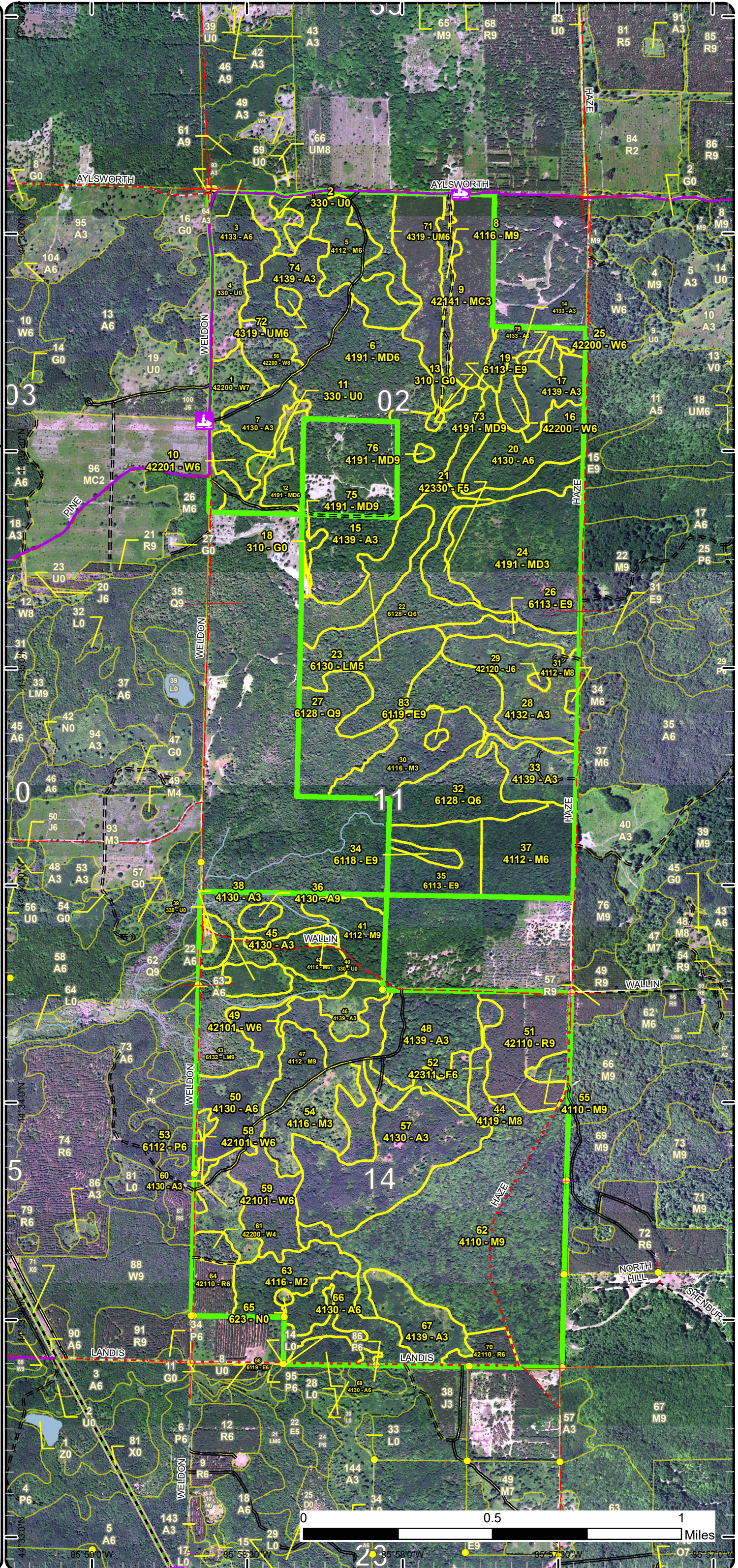
Stand Boundary Map

Compartment: 24
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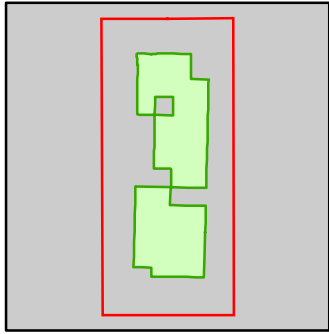


44° 33' 0" N 85° 59' 0" W 44° 33' 0" N 85° 58' 0" W 44° 33' 0" N 85° 57' 0" W 44° 33' 0" N 85° 56' 0" W

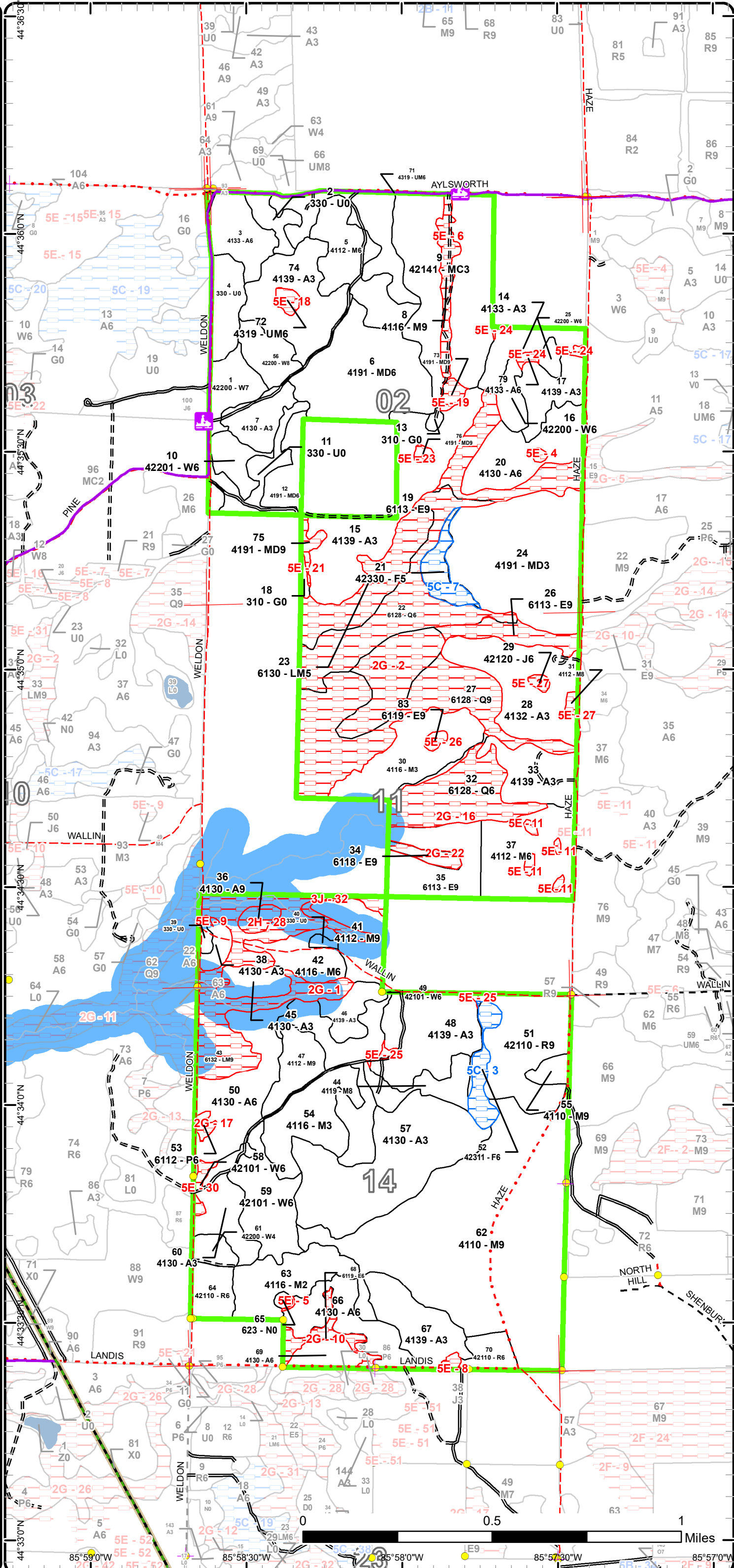
Special Conservation Areas

Compartment: 24
T25N - R14W Sec. 02,11,14

County: Benzie
Unit: Traverse City
Mgmt Area: Grand Traverse Moraine
YOE: 2025
Acres: 1566.8 GIS Calculated
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



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	133	144	97	0	0	76	0	4	0	0	0	0	0	0	0	0	0	454
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Low-Density Trees	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Lowland Aspen/Balsam Poplar	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	57	72	0	0	0	0	0	0	129
Lowland Deciduous	0	0	0	0	0	0	7	0	0	10	51	0	0	0	0	0	0	0	67
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	99	0	0	0	0	0	0	99
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	0	0	0	69	0	11	49	0	0	0	6	0	0	0	0	0	0	135
Northern Hardwood	0	54	26	0	0	0	35	0	13	27	174	45	0	0	0	0	0	0	374
Planted Mixed Pines	0	0	0	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64
Red Pine	0	0	0	0	0	0	0	55	0	0	0	0	0	0	0	0	0	0	55
Upland Mixed Forest	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	25
Upland Spruce/Fir	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	18
White Pine	0	0	0	0	0	0	0	102	0	0	0	0	0	0	0	0	0	0	101
Total	40	187	170	163	69	0	129	250	17	37	282	222	0	0	0	0	0	0	1563



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 24
Total Compartment Acres: 1,567

Commercial Harvest - 466
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	73	0	0	0	0	0	0	0	0	73
Mixed Upland Deciduous	49	0	0	0	0	0	0	0	0	49
Northern Hardwood	88	175	0	0	0	0	0	0	0	263
Red Pine	10	0	0	0	0	46	0	0	0	57
White Pine	0	0	0	0	0	24	0	0	0	24
Total	220	175	0	0	0	71	0	0	0	466

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	466	0	0	0	0	0	0	33	0	499
Next Step	0	0	0	0	0	383	0	0	0	383
Total	466	0	0	0	0	383	0	33	0	881



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

1	61024001-NF	12.5	42200 - Natural White Pine	Sawtimber Poor	65	1-50	NonForestMgt	Herbaceous/Crop /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, fertilizing, burning, or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
2	61024002-NF	6.7	330 - Low-Density 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, fertilizing, burning, or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
3	61024003-Cut	17.0	4133 - Aspen, Mixed Pine	Poletimber Well	57		Unspec ified	Harvest Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut, but leave all white pine over 18 inch DBH. Protect sub-merchantable white pine. Mark small retention island(s) if needed. Mark to leave any unique/ Legacy tree.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Mix of aspen, maple, pine, cherry to meet or exceed minimum stocking requirements. <u>Regen:</u></p> <p><u>Other</u> Add spec for drumming logs for grouse. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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4	61024004-NF	13.5	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /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, fertilizing, burning, or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

6	61024006-Cut	49.1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	68	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all aspen, red maple, cherry, ironwood, and beech. Cut white pine, but mark to leave some scattered pine > 20 inch DBH for retention, diversity and seed production. Protect sub-merchantable white pine from damage as much as possible. Add grouse drumming log spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Mix of aspen, maple, cherry, white pine, basswood, oak to meet or exceed minimum stocking requirements. <u>Regen:</u></p> <p><u>Other</u> Extra notation for sale administration: Do not cut any sugar maple or oak! Re-use adjacent stand 13 for landing area. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											

20	61024020-Cut	26.4	4130 - Aspen	Poletimber Well	55	Unspecified	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all aspen, red maple, cherry. Select mark white pine to harvest poor form and/ or weevil damaged trees (can achieve by green mark leave trees if more efficient). Mark retention island(s) as needed, especially around the middle area where there is a high concentration of white pine as mapped in MIFI. Mark to leave any unique/ Legacy trees. Add drumming log spec and snag spec. Protect sub-merchantable white pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Mix of aspen, maple, cherry, white pine to meet or exceed minimum stocking requirements. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
37 61024037-Cut	59.2	4112 - Maple, Beech, Cherry Association	Poletimber Well	54	111-140	Harvest	Clearcut with Retention	4112 - Maple, Beech, Cherry Association	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest area to focus primarily on regenerating and expanding cherry component. Create several retention islands (as mapped in MIFI) for visual aesthetics. Cut all cherry, red maple, beech, aspen, balsam fir. Leave any cedar, and white pine.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of cherry, maple, aspen to meet or exceed minimum stocking requirements.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
41 61024041-Cut	28.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	100	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Manage stand for mixed species regeneration with emphasis on aspen. Harvest all aspen, red maple, beech, cherry. Keep harvest boundary minimum of 100 feet away from definable creek banks (Tributary to Dair Creek). Retention will be left along edges of this creek tributary, and other areas of the stand that are found to be too wet for logging equipment painted outside the boundary lines on the north lobe of the stand. Add grouse drumming log spec.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of aspen, red maple, cherry, white pine, cedar, hemlock, sugar maple to meet or exceed minimum stocking requirements.</p> <p><u>Other Comment:</u> May need to portable bridge or crane mats to properly get equipment access to northeast lobe of harvest area. Might be possible to squeeze access between creek and private boundary along east edge of stand.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
51 61024051-Cut	35.8	42110 - Planted Red Pine	Sawtimber Well	65	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Thin stand by select marking individual trees to harvest approximately 1/3 of trees. Primarily focus on marking poor form, suppressed, defect trees then mark others allowing for approximately 1/3 of volume removal with even spacing throughout plantation as much as possible</p> <p><u>Next Step 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 /2024</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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62	61024062-Cut	162.8	4110 - Sugar Maple Association	Sawtimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Select thin stand to promote growth of better-quality/health trees. Reduce average volume to approximately 80 BA. Possibly create some small gap openings for regeneration. Mark to remove multi-stems and poor form trees first. Spec to cut all beech but green mark any beech that exhibit little or no signs of beech bark disease. Leave all conifers.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

64	61024064-Cut	10.3	42110 - Planted Red Pine	Poletimber Well	60	171-200	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
-----------	---------------------	------	--------------------------	-----------------	----	---------	---------	----------------	--------------------------	-----------	----

Prescription Thin stand by select marking individual trees to harvest approximately 1/3 of trees. Primarily focus on marking poor form, suppressed, defect trees then mark others allowing for approximately 1/3 of volume removal with even spacing throughout plantation as much as possible

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

66	61024066-Cut	29.3	4130 - Aspen	Poletimber Well	58	Unspecified	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
-----------	---------------------	------	--------------	-----------------	----	-------------	---------	-------------------------	-------------------------------	-----------	----

Prescription Managing stand for mixed species regeneration with emphasis on aspen. Harvest all aspen, red maple, cherry, beech. Retain (by spec or green mark) all or most sugar maple. Retain all other species not mentioned. Most retention can be left along edges of stand 68 and 65. Possibly leave some small retention islands around other wet/fragile soil areas if applicable. Mark to retain any unique or legacy tree on site. May need portable bridge and/or crane mats to access north areas across stand 68. Add grouse drumming log spec to sale.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
70 61024070-Cut	10.4	42110 - Planted Red Pine	Poletimber Well	60	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut to allow hardwoods to regenerate and create a mix species stand. Will harvest aspen area in adjacent stand to the north at same time to get aspen to expand into this area. Harvest all hardwoods and pine. Except, leave mature large DBH sugar maple and basswood in center of red pine stand for diversity and seed trees. Also, mark to leave some scattered red pine individuals and/or groups for diversity and seed producers. Add grouse drumming log spec. Long term retention of red pine area on far west end of stand adjacent to road as currently mapped in MIFI.</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, maple, ash, cherry, white pine, 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 /2024</p>										

Approved Treatments:

47 61024047.25_Cut	12.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
<p><u>Prescription</u> Select thin following compleat marker guidelines managing for best tree in place. Thin BA down to approximately 80-90 BA residual.</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 /2014</p>										
59 61024059.24_Cut	24.4	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	60	141-170	Harvest	Crown Thinning	42100 - Planted White Pine	Even-Aged	No
<p><u>Prescription</u> Select mark trees to remove poor-formed white pine that has been damaged from weevil (green mark leave trees will likely be most efficient). Try to leave a minimum of 50 BA residual with higher BA more desirable if possible depending on amount and severity of weevil damage trees. Also cut all aspen, cherry and red maple. Mark some scattered leave trees of maple and cherry for retention.</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 /2014</p>										

Total Treatment 498.6
Acres Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit
 Craig Allen : Examiner

Compartment: 24
 Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		5C	2G	2H	3J	5E
455	446	0	8	Aspen	0		4		5
3	3	0	0	Herbaceous Openland					
1	0	0	1	Jack Pine					1
37	37	0	0	Low-Density Trees					
2	0	0	2	Lowland Aspen/Balsam Poplar		2			
129	2	0	127	Lowland Conifers	0	127			
68	26	0	42	Lowland Deciduous		40			1
99	0	0	99	Lowland Mixed Forest		99			
1	1	0	0	Marsh					
135	129	0	6	Mixed Upland Deciduous	0				6
375	359	0	16	Northern Hardwood				3	12
64	64	0	0	Planted Mixed Pines					
55	54	0	1	Red Pine					1
25	23	0	2	Upland Mixed Forest					2
18	1	17	0	Upland Spruce/Fir	17				
101	99	0	2	White Pine					2
1,567	1,243	18	307	Total Forested Acres	18	268	4	3	31
	79%	1%	20%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	176	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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9	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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21	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: retention island left within a harvested area.							
24	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Craig Allen : Examiner

Compartment: 24

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28	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	2G: Too wet (sensitive soils, does not include access issues)	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



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	42200 - Natural White Pine	Sawtimber Poor	12.5	65	1-50	N/A	Old homestead field area that has been slowly seeding in with white pine.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Cherry		25	Pole/Log	9		Black Cherry		Low	Variable	Sapling
White Pine		75	Log/Pole/XLog	12	65	White Pine		Medium	Variable	Sapling
2	330 - Low-Density Trees	Nonstocked	6.7		Unspecified	Managed Opening				
3	4133 - Aspen, Mixed Pine	Poletimber Well	17.4	57	Unspecified	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Quaking Aspen		15	Pole/Log	9	57	Red Maple	Medium	Variable	Sapling	
Red Maple		5	Pole	8		Beech	Low	< 5 feet	Sapling	
White Pine		35	Pole	8		White Pine	Medium	Variable	Sapling	
Bigtooth Aspen		40	Log/Pole	11	57	White Pine	Medium	Variable	Pole	
Black Cherry		5	Pole/Log	9						
4	330 - Low-Density Trees	Nonstocked	13.5		Unspecified	Managed Opening				
5	4112 - Maple, Beech, Cherry Association	Poletimber Well	27.2	85	81-110	N/A	Mix species stand...and quite variable in quality and BA.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple		40	Log/Pole	10	85	Sugar Maple	Medium	Variable	Sapling	
White Pine		5	Pole/Log	8		Red Maple	Medium	Variable	Sapling	
Black Cherry		3	Pole/Log	9		Ironwood	Medium	Variable	Sapling	
Beech		5	Log/Pole	12		Beech	Low	Variable	Sapling	
Bigtooth Aspen		3	Log/Pole	10		Hemlock	Low	>20 feet	Pole	
Sugar Maple		44	Log/Pole	10	85					
6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	49.1	68	81-110	N/A	Also contains occasional red oak. good mix species stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Sugar Maple		3	Log/Pole	12		White Pine	High	Variable	Sapling	
White Pine		40	Log/Pole	10	68	Red Maple	Medium	Variable	Pole	
Red Maple		40	Log/Pole	12		Red Maple	High	Variable	Sapling	
Quaking Aspen		9	Pole/Log	8		Beech	Medium	Variable	Sapling	
Bigtooth Aspen		5	Log/Pole	11		Ironwood	Low	Variable	Sapling	
Black Cherry		3	Log/Pole	10						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
7	4130 - Aspen	Sapling Well	14.6	16	Unspecified	N/A																																														
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8	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	8.8	100	51-80	N/A																																														
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9	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	63.8	24	Immature	N/A	Stand was clearcut in 1994, Trenched in 1999...then handplanted to 2-0 red pine bare root stock in April of 2000.																																													
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10	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	8.8	65	81-110	N/A																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
13	310 - Herbaceous Openland	Nonstocked	1.3	0	Unspecified		Logging Landing site																																
14	4133 - Aspen, Mixed Pine	Sapling Well	12.5	5	Immature	N/A	Area was harvested in March & April of 2018. Many scattered mature retention trees of various species (white pine, maple, aspen, fir, cherry) were kept along with retention islands and areas.																																
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15	4139 - Aspen, Mixed Deciduous	Sapling Well	48.1	5	Immature	N/A	Area was harvested in March & April of 2018. Many scattered mature retention trees of various species (white pine, maple, aspen, fir, cherry) were kept along with retention islands and areas.																																
16	42200 - Natural White Pine	Poletimber Well	6.7	65	111-140	N/A																																	
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18	310 - Herbaceous Openland	Nonstocked	1.2		Unspecified	No	adjacent to private openland																																
19	6113 - Lowland Maple	Sawtimber Well	19.0	95	81-110	N/A																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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20 4130 - Aspen Poletimber Well 27.1 55 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	15	Log/Pole	11		White Pine	Low	Variable	Sapling
Black Cherry	15	Pole/Log	9		Red Maple	High	10 - 20 feet	Sapling
Red Maple	5	Pole/Log	8					
Quaking Aspen	65	Pole/Log	9	55				

21 42330 - Upland Fir Poletimber Medium 8.9 65 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	60	Pole/Log	9	65	Quaking Aspen	Low	Variable	Sapling
White Pine	30	Log/Pole	16		White Pine	Low	Variable	Sapling
Red Maple	10	Pole/Log	9		Red Maple	Low	Variable	Sapling
					Black Cherry	Medium	Variable	Sapling
					Balsam Fir	Medium	Variable	Sapling

22 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 40.2 100 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	3	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
Red Maple	20	Log/Pole	13		Northern White Cedar	Low	Variable	Pole
White Pine	5	Log/Pole	18		Red Maple	Medium	Variable	Sapling
Hemlock	30	Log/Pole	10	100				
Balsam Fir	20	Pole	6					
Northern White Cedar	22	Pole/Log	9					

23 6130 - Fir, Aspen, Maple Poletimber Medium 49.0 101 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	35	Pole	7	101	Northern White Cedar	Low	Variable	Sapling
Hemlock	5	Pole	7	101	Balsam Fir	Medium	Variable	Sapling
Yellow Birch	15	Pole	6		Alder	Medium	Variable	Tall Shrub
Red Maple	25	Pole	8	101	American Elm	Low	Variable	Sapling
Northern White Cedar	5	Pole	7	101				
American Elm	15	Pole	6					

Part of drainage system formulating headwaters for Dair Creek. water year round

24 4191 - Mixed Upland Deciduous with Conifer Sapling Well 69.0 31 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	30	Pole/Sapling	5	31	Black Cherry	High	< 5 feet	Sapling
Red Maple	20	Pole/Sap/Log	5	31	Beech	Low	< 5 feet	Sapling
White Pine	5	Log/Pole	16		Red Maple	High	Variable	Sapling
Jack Pine	15	Pole	8					
Black Cherry	30	Pole/Sapling	5	31				

Nice mixed species stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
25	42200 - Natural White Pine	Poletimber Well	2.8	65	111-140	N/A																																																							
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26	6113 - Lowland Maple	Sawtimber Well	10.4	87	51-80	N/A																																																							
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27	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	57.0	95	51-80	N/A																																																							
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28	4132 - Aspen, Jack Pine	Sapling Well	37.8	17	Unspecified	N/A	Contains scattered mature retention leave trees and islands for diversity that were left uncut during the harvest in 2006.																																																						
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29	42120 - Planted Jack Pine	Poletimber Well	1.2	67	81-110	N/A	Small island that was left out in harvest area to provide wildlife cover and diversity																																																						
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31	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	1.2	95	51-80	N/A	Small island of mix tree species that was left as a save island for wildlife and species diversity as well as visual purposes along road.																																						
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33	4139 - Aspen, Mixed Deciduous	Sapling Well	19.5	17	Unspecified	N/A	Contains scattered leave trees and islands																																						
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34	6118 - Lowland Deciduous with Cedar	Sawtimber Well	4.0	95	51-80	N/A	winter cover, mostly wet soil conditions.																																						
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35	6113 - Lowland Maple	Sawtimber Well	26.1	95	111-140	N/A	Variable soil conditions...north side may be subject to seasonally wetter conditions.																																						
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36	4130 - Aspen	Sawtimber Well	4.0	70	Unspecified	N/A																																							
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37	4112 - Maple, Beech, Cherry Association	Poletimber Well	35.4	54	111-140	N/A	Was clearcut in September of 1969...Cherry sprouted and grew very good after that harvest.																																															
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38	4130 - Aspen	Sapling Well	5.0	5	Immature	N/A	Aspen stand harvested in november of 2018 Also contains scattered mature retention trees of various species.																																															
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39	330 - Low-Density Trees	Nonstocked	1.8		Unspecified	No																																																
40	330 - Low-Density Trees	Nonstocked	1.3		Unspecified	No	This is an old logging landing site. Will be used again for same when surrounding stand is harvested.																																															
41	4112 - Maple, Beech, Cherry Association	Sawtimber Well	18.5	100	81-110	N/A																																																
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42	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	13.4	70	81-110	N/A																																																
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43	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	49.8	105	81-110	N/A																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
44	4119 - Mixed Northern Hardwoods	Sawtimber Medium	12.0	98	51-80	N/A	also has occasional cherry and red oak. BA range: 50-60
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Basswood		25	Log/Pole	16		Ironwood	
Bigtooth Aspen		5	Log/Pole	11		Medium	
Sugar Maple		40	Log/Pole	16	98	Variable	
Red Maple		30	Log/Pole	12	98	Sapling	
						Sugar Maple	
						High	
						Variable	
						Sapling	
						Red Maple	
						Low	
						Variable	
						Sapling	
						Beech	
						Low	
						Variable	
						Sapling	
45	4130 - Aspen	Sapling Well	8.9	17	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		20	Sapling/Pole	3	17		
Quaking Aspen		70	Sapling/Pole	3	17		
Black Cherry		10	Sapling/Pole	3			
46	4139 - Aspen, Mixed Deciduous	Sapling Well	9.7	17	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Black Cherry		25	Sapling/Pole	3	17		
Quaking Aspen		50	Sapling/Pole	3	17		
Red Maple		25	Sapling/Pole	3	17		
47	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.1	100	111-140	N/A	Stand currently under timber sale contract for thinning.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		5	Log/Pole	12		Sugar Maple	
White Pine		5	Pole	9	60	Low	
Black Cherry		20	Log/Pole	14		Variable	
Red Maple		60	Log/Pole	14	100	Pole	
Sugar Maple		10	Log/Pole	11		Sapling	
						Red Maple	
						Medium	
						Variable	
						Pole	
						Red Maple	
						Medium	
						Variable	
						Pole	
						White Pine	
						Low	
						Variable	
						Pole	
						Beech	
						Low	
						< 5 feet	
						Sapling	
48	4139 - Aspen, Mixed Deciduous	Sapling Well	35.5	5	Immature	N/A	Area was harvested in April/May of 2017. Most sugar maple and conifers were left on site...also additional mix of species retained. a couple retention areas left as well.
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		22	Sapling	1	5		
Balsam Fir		3	Pole	8			
Sugar Maple		15	Log/Pole	12			
Red Maple		35	Sapling	1	5		
Quaking Aspen		20	Sapling	1			
Basswood		5	Sapling	1			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
49	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	26.8	60	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		70	Pole/Log	9	60	Red Maple	Low	Variable	Sapling
Black Cherry		10	Log/Pole	14		Beech	Low	< 5 feet	Sapling
Red Maple		20	Log/Pole	14					
50	4130 - Aspen	Poletimber Well	32.8	29	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry		30	Pole/Sapling	6	29	Red Maple	Medium	Variable	Sapling
Red Maple		10	Pole/Sapling	6	29	Black Cherry	High	Variable	Sapling
Bigtooth Aspen		40	Pole/Sapling	6	29				
Quaking Aspen		20	Pole/Sapling	6	29				
51	42110 - Planted Red Pine	Sawtimber Well	35.8	65	171-200	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/Pole	12	65	Beech	High	Variable	Sapling
52	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	9.3	62	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		15	Pole/Log	8		Red Maple	Low	Variable	Sapling
Black Cherry		10	Log/Pole	12		Beech	Low	< 5 feet	Sapling
White Spruce		75	Pole	8	62				
53	6112 - Lowland Aspen	Poletimber Well	1.7	29	Unspecified	N/A	lowland seasonal drainage		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry		30	Pole/Sapling	6	29	Red Maple	Medium	Variable	Sapling
Northern White Cedar		5	Pole	8		Cherry (spp.)	High	Variable	Sapling
White Pine		5	Pole/Log	9					
Red Maple		10	Pole/Sapling	6	29				
Quaking Aspen		20	Pole/Sapling	6	29				
Bigtooth Aspen		30	Pole/Sapling	6	29				
54	4116 - Mixed N. Hardwood - Aspen	Sapling Well	26.0	17	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Beech		10	Sapling	2					
Black Cherry		20	Sapling	1	17				
Red Maple		35	Sapling	2	17				
Bigtooth Aspen		35	Sapling	2	17				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
55	4110 - Sugar Maple Association	Sawtimber Well	4.4	100	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		35	Log/Pole	15		Ironwood	Medium	Variable	Sapling
Bigtooth Aspen		5	Log/Pole	12		Sugar Maple	Low	Variable	Pole
Sugar Maple		60	Log/Pole	15	100	Sugar Maple	Low	Variable	Sapling
56	42200 - Natural White Pine	Sawtimber Medium	11.5	65	81-110	N/A	Old homestead field area that has been slowly seeding in with white pine.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry		25	Pole/Log	9		White Pine	Medium	Variable	Sapling
White Pine		75	Log/Pole/XLog	12	65	Black Cherry	Low	Variable	Sapling
57	4130 - Aspen	Sapling Well	64.5	28	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		20	Pole/Sapling	7		Ironwood	Low	Variable	Sapling
Black Cherry		20	Pole/Sapling	7	28	Sugar Maple	Low	< 5 feet	Sapling
Bigtooth Aspen		40	Pole/Sapling	7	28	Black Cherry	Medium	< 5 feet	Sapling
Red Maple		20	Pole/Sapling	7	28	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
						Bigtooth Aspen	Medium	< 5 feet	Sapling
58	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	2.3	60	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Log/Pole	11		Red Maple	Low	< 5 feet	Sapling
Black Cherry		10	Log/Pole	12		Beech	Low	< 5 feet	Sapling
White Pine		80	Pole/Log	9	60				
59	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	24.4	60	141-170	N/A	Stand is currently under timber sale contract		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		75	Pole	8	60	Beech	Low	< 5 feet	Sapling
Quaking Aspen		5	Pole	7		Red Maple	Low	< 5 feet	Sapling
Black Cherry		10	Log/Pole	11					
Red Maple		10	Log/Pole	11					
60	4130 - Aspen	Sapling Well	16.8	17	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		62	Sapling/Pole	3	17				
Black Cherry		10	Sapling/Pole	3	17				
Red Maple		25	Sapling/Pole	3	17				
White Pine		3	Sapling/Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
61	42200 - Natural White Pine	Poletimber Poor	5.3	60	51-80	N/A																																																			
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62	4110 - Sugar Maple Association	Sawtimber Well	161.1	95	111-140	N/A																																																			
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Ironwood	High	Variable	Sapling																																																						
63	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	23.8	5	Immature	N/A	Area was harvested in November 2018. Mature retention trees mostly sugar maple left for diversity and seed trees.																																																		
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64	42110 - Planted Red Pine	Poletimber Well	10.4	60	171-200	N/A	Was row thinned in 2005.																																																		
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65	623 - Emergent Wetland	Nonstocked	1.0		Unspecified	No																																																			
66	4130 - Aspen	Poletimber Well	21.9	58	Unspecified	N/A																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
67	4139 - Aspen, Mixed Deciduous	Sapling Well	22.3	17	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry		15	Sapling/Pole	3	17	Beech	Low	Variable	Sapling
Quaking Aspen		10	Sapling/Pole	3					
Red Maple		35	Sapling/Pole	3	17				
Bigtooth Aspen		40	Sapling/Pole	4	17				
68	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	7.3	57	Unspecified	N/A	drainage..wet most of year		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		20	Pole/Log	9	57	Red Maple	Medium	Variable	Sapling
Red Maple		40	Log/Pole	12	57	Beech	Low	Variable	Sapling
Hemlock		15	Pole/Log	9					
Bigtooth Aspen		15	Pole/Log	9					
Basswood		10	Log/Pole	11					
69	4130 - Aspen	Poletimber Well	7.6	57	Unspecified	N/A	Also contains some scattered sugar maple log size...retain in stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		30	Pole/Log	8		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen		60	Log/Pole	11	57	Beech	Medium	Variable	Sapling
Black Cherry		10	Pole/Log	9					
70	42110 - Planted Red Pine	Poletimber Well	8.7	60	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Log/Pole	12	60	Ironwood	Medium	Variable	Sapling
						Beech	Medium	5 - 10 feet	Sapling
71	4319 - Mixed Upland Forest	Poletimber Well	22.7	68	81-110	N/A	Contains some pockets of advanced sugar maple regeneration in understory (sap & poles).		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry		3	Pole/Log	9		Ironwood	Low	Variable	Sapling
Red Maple		25	Log/Pole	11		Sugar Maple	Low	Variable	Sapling
Quaking Aspen		10	Pole	7		Red Maple	High	Variable	Sapling
White Pine		54	Pole/Log	9	68	Red Maple	Medium	Variable	Pole
Bigtooth Aspen		5	Log/Pole	10		White Pine	High	Variable	Sapling
Sugar Maple		3	Log/Pole	11					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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72	4319 - Mixed Upland Forest	Poletimber Well	2.2	68	81-110	N/A	This stand is a retention island left for surrounding harvested stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Log/Pole	12		Red Maple	Medium	Variable	Pole
Black Cherry	3	Pole/Log	9		Red Maple	High	Variable	Sapling
Bigtooth Aspen	5	Log/Pole	10		White Pine	High	Variable	Sapling
Quaking Aspen	10	Pole	8		Ironwood	Low	Variable	Sapling
Sugar Maple	3	Log/Pole	12					
White Pine	54	Log/Pole/XLog	11	68				

73	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	2.6	100	51-80	N/A	This stand is a retention area that was left purposely left uncut for long term retention(associated with adjacent harvested stand to the south)
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log/Pole	11		Red Maple	Medium	Variable	Sapling
Black Cherry	20	Log/Pole	12		Cherry (spp.)	Low	Variable	Sapling
Red Maple	25	Log/Pole	12	100	Balsam Fir	High	Variable	Sapling
Bigtooth Aspen	20	Pole/Log	8	75	White Pine	Low	Variable	Sapling
Balsam Fir	25	Pole	7					

74	4139 - Aspen, Mixed Deciduous	Sapling Well	32.3	5	1-50	N/A	Area was harvested in April and may of 2018 for mix species regeneration. Many scattered mature retention trees of various species (white pine, maple, aspen, fir, cherry) were kept along with retention islands and areas.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	19	Sapling	1	5				
Bigtooth Aspen	40	Sapling	1	5				
Black Cherry	3	Sapling	1					
Sugar Maple	3	Log/Pole	11					
White Pine	10	Pole/Log/Sap	9	89				
Red Maple	25	Sapling	1					

75	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	2.7	100	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	25	Pole	7		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	20	Pole/Log	8	75	Black Cherry	Low	Variable	Sapling
White Pine	10	Log/Pole	11		Balsam Fir	High	Variable	Sapling
Black Cherry	20	Log/Pole	12		White Pine	Low	Variable	Sapling
Red Maple	25	Log/Pole	12	100				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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76 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 1.1 100 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	25	Pole	7		Red Maple	Medium	Variable	Sapling
White Pine	10	Log/Pole	11		White Pine	Low	Variable	Sapling
Red Maple	25	Log/Pole	12	100	Cherry (spp.)	Low	Variable	Sapling
Bigtooth Aspen	20	Pole/Log	8	75	Balsam Fir	High	Variable	Sapling
Black Cherry	20	Log/Pole	12					

79 4133 - Aspen, Mixed Pine Poletimber Well 2.1 57 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Pole	9	57	Red Maple	Low	Variable	Sapling
Black Cherry	20	Pole	9	57	Black Cherry	Medium	< 5 feet	Sapling
White Pine	30	Pole/Log	9		White Pine	Medium	Variable	Sapling

83 6119 - Mixed Lowland Deciduous Forest Sawtimber Well 1.4 90 81-110 N/A This is a long term retention island for surrounding harvest area.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole/Log	8		Red Maple	High	Variable	Sapling
Balsam Fir	10	Pole	7		Balsam Fir	Medium	Variable	Sapling
Red Maple	55	Log/Pole	14	90				
Black Cherry	30	Log/Pole	14					