



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61025

Entry Year 2021

Acreage: 1,913

County Benzie

Management Area: Benzie Outwash

Revision Date: 2019-06-13

Stand Examiner: Craig Allen

Legal Description:

T25N- R14W; Sections 3, 10, 15
Weldon Township of Benzie County, Michigan.

Identified Planning Goals:

Compartment 25 is a part of the Benzie Outwash management area (MA). Vegetation management in this MA will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character, including the Betsie River which is a designated natural river; and threatened, endangered and special concern species and provide for forest-based recreational uses and Native American non-commercial uses of forest products. Timber management for the next 10 years includes improving the age-class distribution of aspen and red pine. Northern hardwoods management includes continued selective or regeneration harvesting of northern hardwoods to achieve an uneven age-class structure or improve timber quality. 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 in this 10-year planning period are increased recreational pressure on recreational trails and introduced insect and disease concerns, especially emerald ash borer and beech bark disease.

Soil and topography:

The terrain is mostly level, except for some steep slopes along Dair Creek in the northwest portion of section 15. The soils in the area are mostly Kalkaska-Rubicon association with Roscommon-AuGres-Croswell association in the low areas around Dair Creek.

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

The compartment is entirely State-owned except for the S1/2 of the SW of section 15. The areas bordering the compartment are approximately 60% State-owned, being part of a fairly contiguous large block of State ownership. Pioneer road borders the west side of the compartment and is the only paved road within the compartment.

Unique Natural Features:

Dair Creek flows through this compartment and is a tributary to the Betsie River. The Betsie River is a designated Michigan Natural River. The designation includes all its tributaries.

Archeological, Historical, and Cultural Features:

There is a possibility of culturally significant sites within the compartment. Early Native Americans would commonly establish settlements, camps and trails along the River/ creek corridors. Also, there are a few old homestead sites within the compartment and an old railroad grade.

Special Management Designations or Considerations:

There are no special management designations within this compartment other than Dair Creek being managed as a Michigan Natural River due to it being a tributary to the Betsie River.

Watershed and Fisheries Considerations:

This compartment is within the Betsie River watershed, and contains portions of Dair Creek. The Betsie River and its tributaries are part of the Natural Rivers programs, so the stream buffers indicated in the Natural Rivers Plan should be followed. Additionally Dair Creek has a history of damaging beaver activity, so caution should be used to not encourage beaver use.

Wildlife Habitat Considerations:

The topography in this compartment is excessively drained sandy outwash plains. These fire prone soils currently support large stands of aspen as well as open barrens-type communities. There are several pine plantations within this compartment as well. Communities on this LTA should continue to be managed for a variety of forest age classes, successional stages, and patch sizes, as well as grass/shrub openings, consistent with the fire driven dynamics of these soils. Proposed aspen cuts should be designed to increase age class diversity and maximize the juxtaposition of the

various age classes. These cuts should also include creation of dead and down logs which benefit many species of wildlife, such as deer, grouse, yellow-billed cuckoos, and cottontail rabbits. Parts of this landscape were, at times, shielded from fire, and therefore some management for successional advanced hardwood/conifer stands is fitting. Future management of pine stands should consider incorporating small (2-5 acre) islands that are left relatively un-thinned within mature stands to provide winter roosting cover for turkeys. Deciduous species should be encouraged within conifer plantations for diversity. Dair Creek runs through this sandy outwash plain. A narrow strip of lowland conifers and lowland brush are found along the creek bottom and create a valuable riparian corridor through an otherwise dry landscape.

Openings and semi-forested habitats are an integral part of this dry outwash plain and were historically maintained by periodic wildfire. These communities provide grasses and forbs for forage, nesting, and "bugging" areas. Scattered fruiting shrubs and mast producing trees provide food and cover. The "edge" component created by these grasslands is, yet another important habitat component provided. Mechanical treatments and prescribed burning have been proposed in several areas to maintain and enhance these communities by setting back woody (as well as bracken and sedge) encroachment, stimulating native herbaceous vegetation and berry production, preparing seed beds, and recycling nutrients. Selective hand felling will be used to set back encroachment where necessary.

Compartment 25 is within the Benzie Outwash Management Area (MA) of the Regional State Forest Management Plan. Featured species for this MA includes marten, woodcock, bear, black-throated blue warbler, golden-winged warbler, mallard, pileated woodpecker, red-shouldered hawk, ruffed grouse, turkey, deer, wood duck, and wood thrush. Based on the natural disturbance history of the land type associations within the Benzie Outwash MA, the MA plan calls for managing the amount of open/semi-open lands at or above the current level to provide habitat for species which use openings.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel production is occurring three miles to the northwest, and there appears to be sand potential within the compartment on the uplands. This area is located north of the Niagaran reef trend and the main Antrim Shale gas play. There is good Antrim potential beneath the compartment, but the Antrim may be thinner and shallower here than within the main trend of the Antrim play, and wells in this area may not produce as well. There have been a handful of Antrim wells completed to the north that have been shown to be capable of producing commercial quantities, but pipeline infrastructure has yet to be extended to this area. There has been no mineral leasing activity within the compartment within the past eight years. Oil & gas developmental potential here is considered moderate. There is no known metallic mineral potential in this part of the state. (comments from Peter Rose, DNR Geologist)

Vehicle Access:

There are many gravel and seasonal county roads throughout the compartment within this area offering good 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 access.

Survey Needs:

There are no known survey needs in this compartment at this time.

Recreational Facilities and Opportunities:

The Platte River State Snowmobile trail runs through the middle of the compartment. Also, the Betsie Valley Trail pathway crosses the compartment on an old railroad grade. This pathway offers hiking, biking, cross-country skiing and snowmobiling. Hunting, fishing, ORV riding, trapping, berry and mushroom picking, and dispersed camping are other popular recreational activities enjoyed within this compartment.

Fire Protection:

Wildfire protection is accomplished through coordination of local volunteer fire departments along with DNR fire staff. The majority of this compartment and surrounding areas are forested in mesic hardwood deciduous types so the opportunity for large scale wildfires are minimal.

Additional Compartment Information:

The following reports from the Inventory are attached:

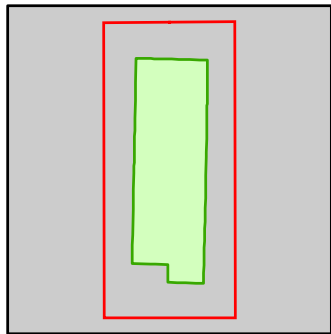
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

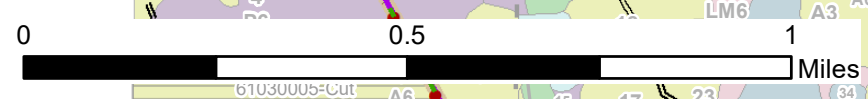
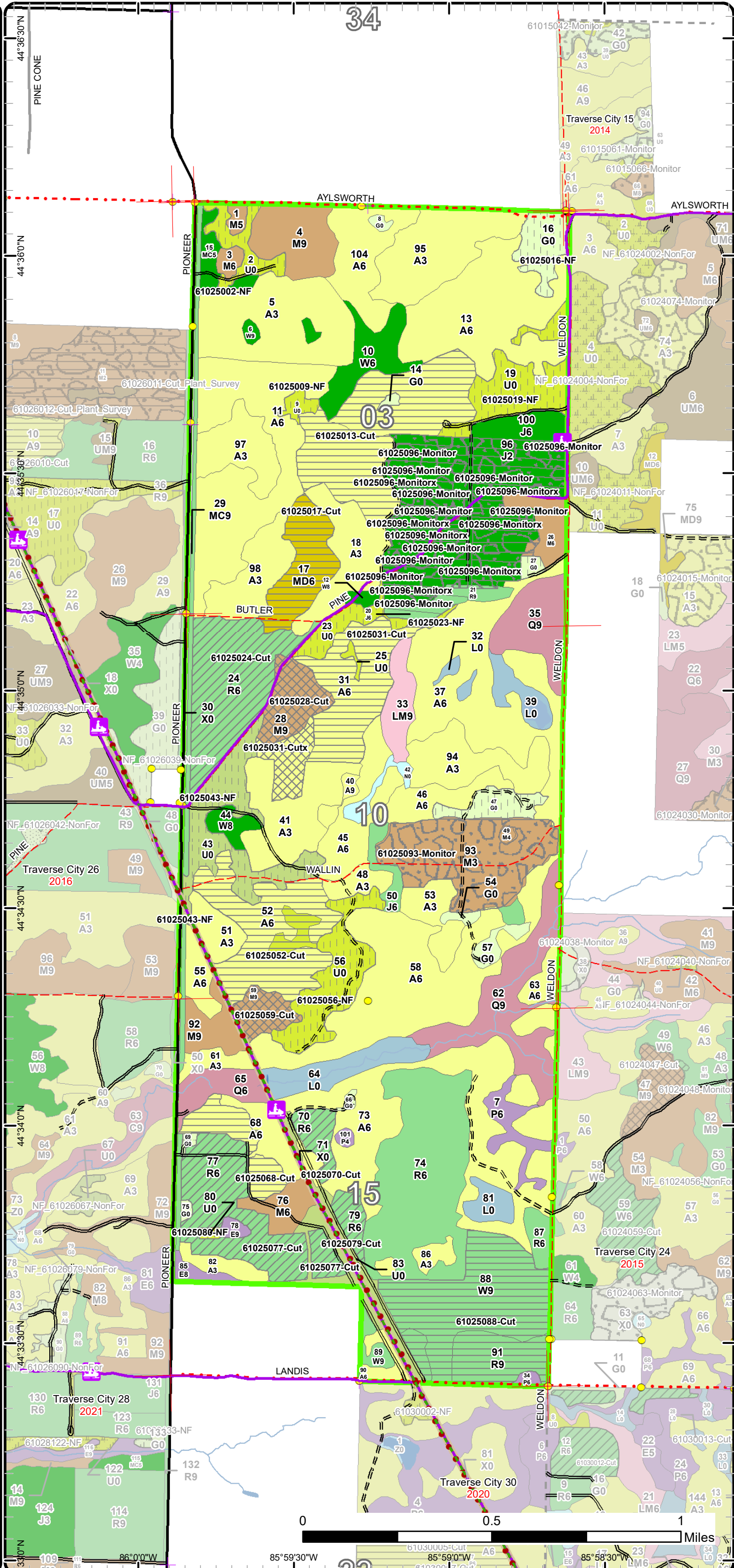
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 25
 T25N, R14W, Sec. 3, 10, 15
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Benzie Outwash
 YOE: 2021
 Acres: 1,913 GIS Calculated
 Examiner: Craig Allen
 Map Revised: 11/4/2019
 Map Phase: Post Review



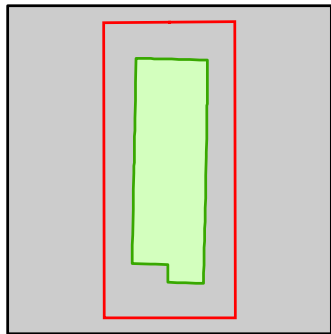
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
-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



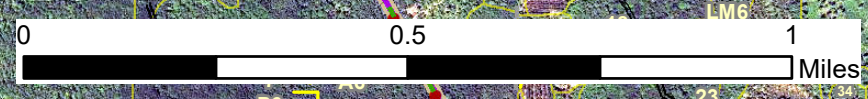
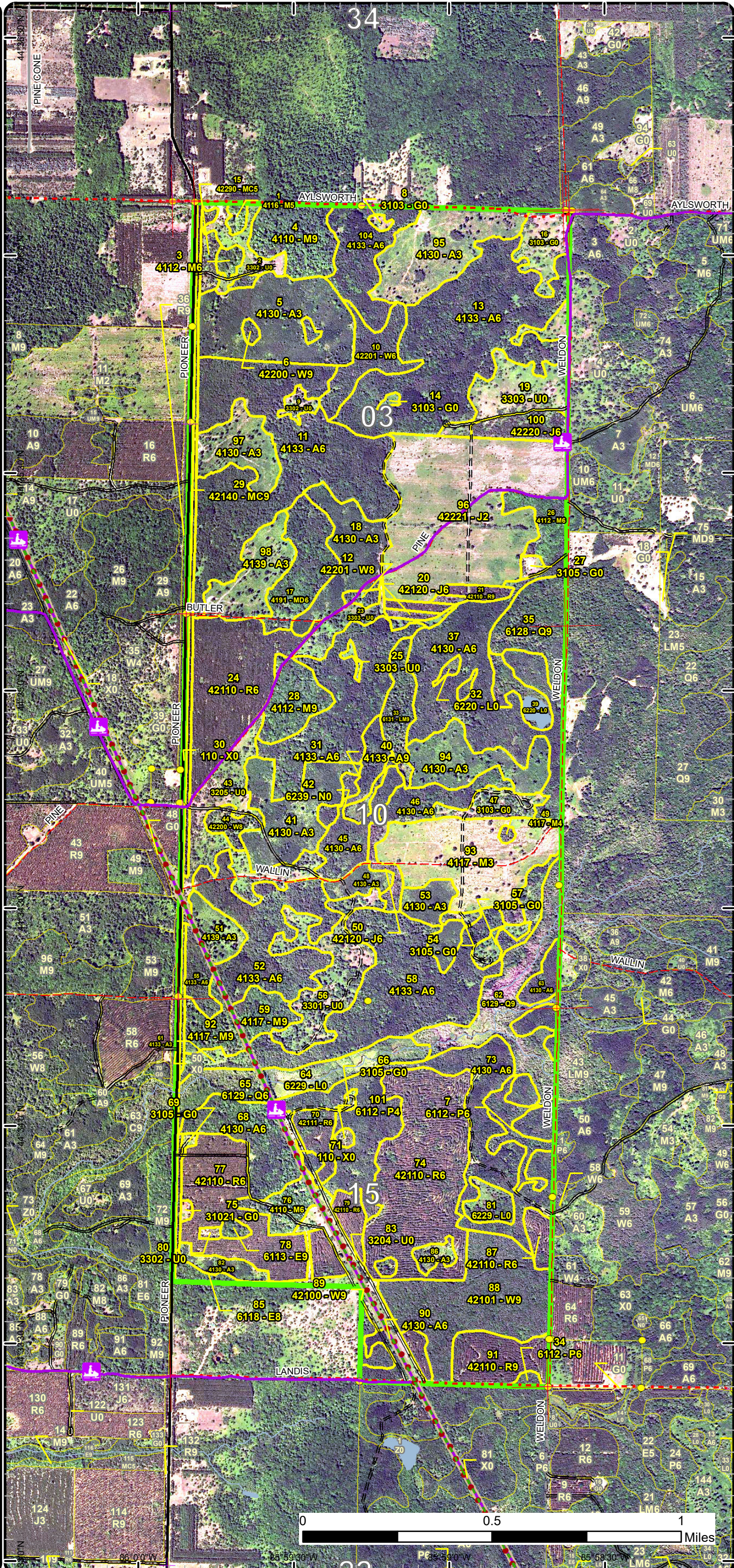
85°59'30"W 85°59'0"W 85°58'30"W

Stand Boundary Map

Compartment: 25
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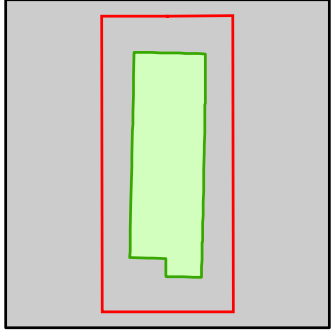


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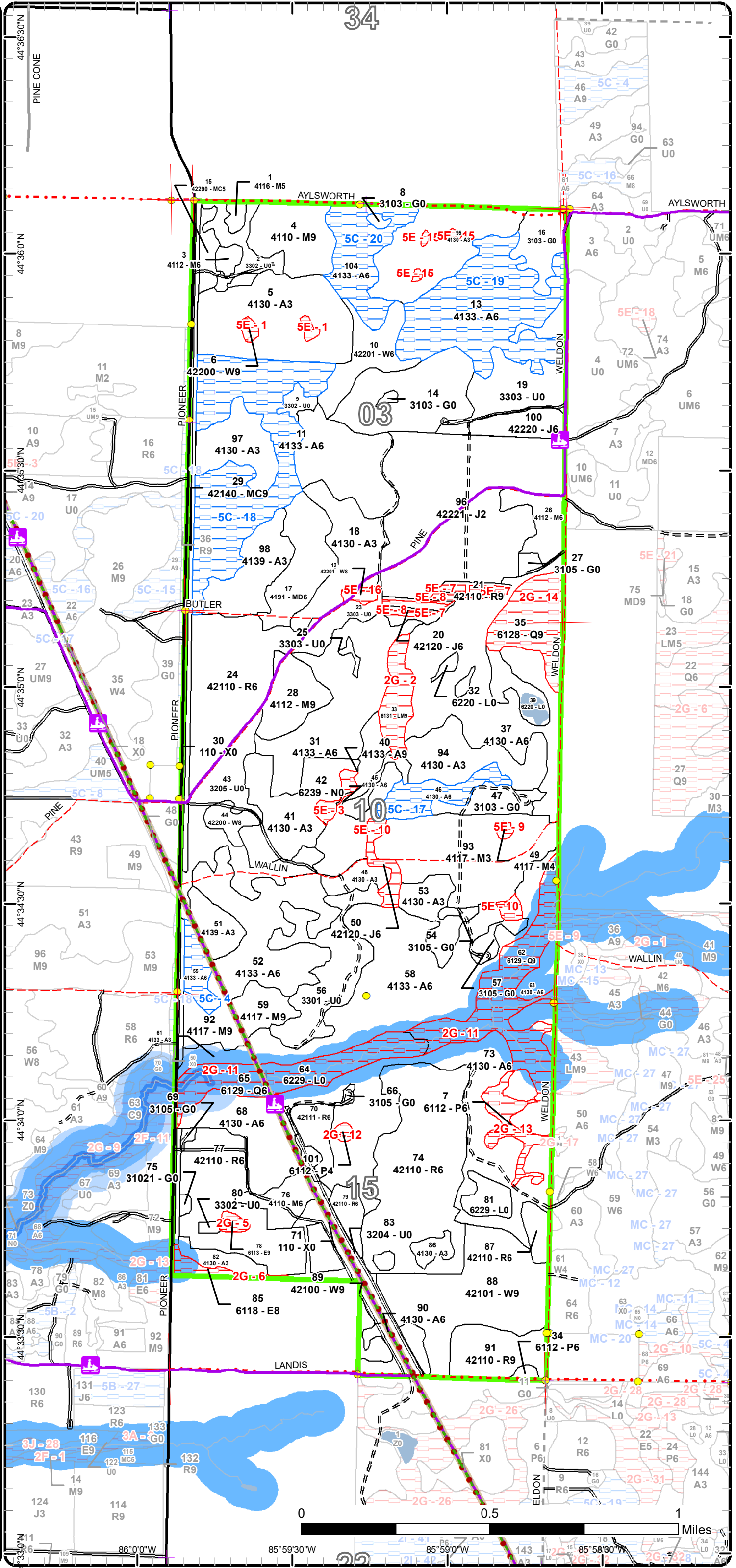


Special Conservation Areas & Site Conditions Map

Compartment: 25
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- Snowmobile Trails
- Designated Hiking Trails
- - Designated Bicycle Trails
- Designated Equestrian Trails
- Designated Snowmobile Trails
- Designated Rail Trail
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Culvert
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- 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	127	137	0	274	33	350	3	0	0	0	0	0	0	0	0	0	0	924
Herbaceous Openland	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Jack Pine	0	104	11	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	126
Low-Density Trees	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
Lowland Aspen/Balsam Poplar	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Conifers	0	0	0	0	0	0	0	0	24	0	55	0	0	0	0	0	0	0	79
Lowland Deciduous	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	12
Lowland Shrub	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Marsh	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	24
Natural Mixed Pines	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Northern Hardwood	0	53	0	0	10	0	4	0	22	19	35	0	0	0	0	0	0	0	143
Planted Mixed Pines	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	17
Red Pine	0	0	0	50	0	0	169	7	0	0	0	0	0	0	0	0	0	0	226
Upland Shrub	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Urban	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
White Pine	0	0	0	0	0	0	63	0	21	2	6	0	0	0	0	0	0	0	92
Total	241	284	148	50	304	33	586	38	45	48	43	90	0	0	0	0	0	0	1910



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 25
Total Compartment Acres: 1,913

Commercial Harvest - 436
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	176	11	0	0	0	0	0	0	0	187
Mixed Upland Deciduous	24	0	0	0	0	0	0	0	0	24
Northern Hardwood	0	27	0	0	0	0	0	0	0	27
Red Pine	0	0	0	0	0	114	0	0	0	114
White Pine	82	0	0	0	0	0	0	0	0	82
Total	283	38	0	0	0	114	0	0	0	436

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	436	0	0	0	0	0	152	0	144	731
Next Step	0	82	82	0	0	82	239	0	0	486
Total	436	82	82	0	0	82	391	0	144	1217



Stand Name	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:

2	61025002-NF	10.8	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Prune remnant apple trees. Replace some of the dead apple trees with apple, crabapple, or other native fruiting shrub spp. Selectively remove woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover.</p> <p><u>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 /2020</p>											
8	61025008-NF	1.1	3103 - Rubus-Fern	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Selectively remove woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover.</p> <p><u>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 /2020</p>											
9	61025009-NF	3.3	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> This opening is dominated by bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate perennial pasture mix (i.e. clover/alfalfa) or native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.</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 /2020</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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13	61025013-Cut	68.3	4133 - Aspen, Mixed Pine	Poletimber Well	55	Unspec ified	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Harvest all hardwoods and Pine to regenerate and expand aspen type. Leave various retention islands and possibly leave some scattered Individual trees of variable species. Some retention islands can include areas of advanced sugar maple regen and areas with mature sugar maple within. Avoid damage to groups of hawthorn trees if any found in under story. Add grouse drumming log spec to sale.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, maple, pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 3 /4 /2019

16	61025016-NF	13.5	3103 - Rubus-Fern	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
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Prescription This opening is dominated by bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate perennial pasture mix (i.e. clover/alfalfa) or native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.

Next Step

Treatments:

Acceptable

Regen:

Other This is a continuation of the previous prescription. Treatment began in 2018.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

17	61025017-Cut	24.3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	76	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Harvest all hardwoods and Pine to regenerate and expand aspen type, but goal is to have a mixed species stand (aspen, sugar maple, pine). Leave various retention islands and possibly leave some scattered Individual white pine and maple trees. Try to work around some of the pockets of advanced sugar maple regeneration. Add grouse drumming log spec to sale.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, maple, pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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
19 61025019-NF	27.1	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> This opening is dominated by bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate perennial pasture mix (i.e. clover/alfalfa) or native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.</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> This is a continuation of previous prescription. Treatment began in 2018.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2020</p>										
23 61025023-NF	11.0	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Selectively remove 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. Could also 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></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2020</p>										
24 61025024-Cut	50.2	42110 - Planted Red Pine	Poletimber Well	29	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand by harvesting every 3rd row (first thinning).</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2020</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
27 61025027-NF	2.0	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> May want to add this stand if planting herbaceous species in other nearby stands for wildlife forage needs, since there is a well used deer yard adjacent here. Consider an appropriate native species, but don't rule out pasture mix (i.e. alfalfa/clover). 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></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>Proposed Start Date: 10/1 /2020</p>										
28 61025028-Cut	17.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	95	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Lightly thin stand by selection. Cut all beech due to beech bark disease. Leave Residual BA between 70-90 overall, but can have some regeneration holes with lower BA's.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> maple, basswood, ash, cherry,</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2020</p>										
31 61025031-Cut	38.8	4133 - Aspen, Mixed Pine	Poletimber Well	54	Unspecified	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> Harvest all hardwoods and most white pine to regen and expand aspen. Include stand (opening #25) in the harvest area. Mark various retention islands particularly the pine area in NE portion of the stand...(has some super canopy old white pine to keep) Could possibly also leave some scattered unique individual trees of various species for retention as well. Avoid damage to groups of hawthorn trees if any found in under story. Add grouse drumming log spec to sale.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, maple, pine, cherry</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2020</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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31	61025031-Cutx	11.1	4133 - Aspen, Mixed Pine	Poletimber Well	54	Unspec ified	Harvest	Group Selection	4136 - Aspen, Mixed Conifer	Even-Aged	No
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Prescription Harvest all hardwoods (could green mark to leave any unique ones). Leave most or all pine. Could mark a few pine to cut due to health issues or poor shape. Leave south half of the south appendage of the stand as an uncut retention block. Add grouse drumming log spec to the sale.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: aspen, maple, pine, cherry

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

43	61025043-NF	34.0	3205 - Mixed Upland Shrub	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Could also 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.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

47	61025047-NF	10.1	3103 - Rubus-Fern	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Could also 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.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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52	61025052-Cut	53.2	4133 - Aspen, Mixed Pine	Poletimber Well	54	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest all hardwoods and Pine to regenerate and expand aspen type. Leave various retention islands and possibly leave some scattered
Specs: Individual white pine and maple trees. Try to work around any pockets of advanced sugar maple regen to leave undamaged. Also, avoid damage to groups of hawthorn trees in understory. Add grouse drumming log spec to sale.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, maple, pine, cherry.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

56	61025056-NF	28.6	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
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Prescription Selectively remove woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs
Specs: and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Could also 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.

Next Step

Treatments:

Acceptable

Regen:

Other Maintain overall acreage of stand while protecting pockets of sugar maple regen.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

59	61025059-Cut	10.2	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	89	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
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Prescription Select mark stand to thin it and create small opening for possible regeneration. Leave approximately 70-90 BA residual on average.

Specs: Retain variety of species for diversity. Can remove white pine as needed in effort to expand sugar maple regen...especially along east side of stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, basswood, cherry, aspen, ash,

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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
68 61025068-Cut	16.0	4130 - Aspen	Poletimber Well	40	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all hardwoods to regenerate and expand aspen. <u>Specs:</u> Mark retention leave trees for long term seed source and aesthetic reasons of various sugar maple and any unique tree. Also, leave any conifer species. Work around any patches of advanced sugar maple saplings. Leave some retention along edge bordering BVT trail. Add grouse drumming log spec to sale. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, maple, cherry, <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										
69 61025069-NF	1.0	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	NonForestMgt	Pruning	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Prune remnant apple trees. Replace some of the dead apple trees with apple, crabapple, or other native fruiting shrub spp. Selectively <u>Specs:</u> hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										
70 61025070-Cut	8.7	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	58	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Could row thin and mark additional trees as needed for access rows as needed. Will need to mark rows due to irregular planting. Try to <u>Specs:</u> mark approximately 1/3 volume to harvest. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</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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77 61025077-Cut	48.7	42110 - Planted Red Pine	Poletimber Well	59	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin stand by select marking individual trees to harvest approximately 1/3 of trees. Primarily focus on marking poor form, suppressed, defect trees then mark others allowing for approximately 1/3 of volume removal with even spacing throughout plantation as much as possible

Specs:
Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

79 61025079-Cut	6.6	42110 - Planted Red Pine	Poletimber Well	58	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin stand by select marking individual trees to harvest approximately 1/3 of trees. Primarily focus on marking poor form, suppressed, defect trees then mark others allowing for approximately 1/3 of volume removal with even spacing throughout plantation as much as possible

Specs:
Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

80 61025080-NF	1.0	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	NonForestMgt	Pruning	3105 - Mixed Upland Herbaceous		No
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Prescription Prune remnant apple trees. Replace some of the dead apple trees with apple, crabapple, or other native fruiting shrub spp. 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.

Specs:
Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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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88	61025088-Cut	82.3	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	59	111- 140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Harvest all trees to replant area to red pine. Will need herbicide and trench. Could leave a couple retention pockets on outside edge along west side and in far SE corner next to stand 34 and possibly along east edge. No interior retention. Harvest will have chipping requirement or similar spec to prepare area for planting.

Next Step SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant
Treatments:

Acceptable Red pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

93	61025093-Monitor	51.4	4117 - Mixed N. Hardwood - Pine	Sapling Well	5	Immature	Monitoring	Natural Regen (Re-Inventory)	42110 - Planted Red Pine	Even-Aged	No
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Prescription resurvey to determine if red pine will be free to grow
Specs:

Next Step
Treatments:

Acceptable red pine
Regen:

Other Percent to Treat = 100%
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

96	61025096-Monitor	49.6	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	5	Immature	Monitoring	Artificial Regen(1yr)	42110 - Planted Red Pine	Even-Aged	No
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Prescription planted red in 2014...In fall of 2018 herbicide was applied to kill jack volunteers and hardwood competition. Monitor success and also monitor survival of red pine...needs for any re-planting??

Next Step
Treatments:

Acceptable red pine
Regen:

Other Percent to Treat = 100%
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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
96 61025096-Monitorx	51.1	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	5	Immature	Monitoring	Artificial Regen(1yr)	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> planted red pine 2014?...then herbicide was applied fall of 2018 to kill jack pine volunteers and hardwood competition. Monitor success and</p> <p><u>Specs:</u> survival of red pine seedlings...any need for re-planting??</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment 731.1
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit
Craig Allen : Examiner

Compartment: 25
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2G	5E
		With Condition	Not Available				
925	736	184	5	Aspen	184	0	5
37	37	0	0	Herbaceous Openland			0
126	115	0	11	Jack Pine			11
88	88	0	0	Low-Density Trees		0	
13	2	0	12	Lowland Aspen/Balsam Poplar		12	
79	0	0	79	Lowland Conifers		79	
7	0	0	7	Lowland Deciduous		7	
12	0	0	12	Lowland Mixed Forest		12	
37	19	0	19	Lowland Shrub		19	
4	4	0	0	Marsh			
24	24	0	0	Mixed Upland Deciduous			
7	7	0	0	Natural Mixed Pines			
143	142	0	1	Northern Hardwood			1
17	17	0	0	Planted Mixed Pines		0	
226	221	0	5	Red Pine		0	5
54	54	0	0	Upland Shrub			
21	21	0	0	Urban		0	
92	87	0	5	White Pine			5
1,913	1,574	184	155	Total Forested Acres	184	128	27
	82%	10%	8%	Relative Percent			

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 25

Year of Entry: 2021

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wait another 10 years before harvest to stagger aspen age class in the area.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
 Craig Allen : Examiner

Compartment: 25
 Year of Entry: 2021

8	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	74	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Dair Creek and river bottom lands.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 25

Year of Entry: 2021

14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay harvest for 10 more years to further stagger aspen age class with adjacent stand that was cut only 10 years ago.							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	71	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	64	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 25

Year of Entry: 2021

20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
1	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	2.4	90	51-80	N/A																																					
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>60</td> <td>Log/Pole</td> <td>14</td> <td>90</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>40</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	60	Log/Pole	14	90	Bigtooth Aspen	40	Log/Pole	10		<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>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Medium	Variable	Sapling	Red Maple	Medium	Variable	Sapling	Beech	Low	Variable	Sapling	White Pine	Low	Variable	Sapling					
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2	3302 - Low Density Conifer Trees	Nonstocked	10.8		Unspecified	No	Photo # 1176-77. Wormwood, trace of lbs, poverty, sedges, SJW, cladonia, and mounds, juneberry, trout lily, honeysuckle, clumps of lilac, old apple trees.																																				
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3	4112 - Maple, Beech, Cherry Association	Poletimber Well	2.9	55	51-80	N/A	Also contains some scattered large sawlog maple too.																																				
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4	4110 - Sugar Maple Association	Sawtimber Well	23.3	100	81-110	N/A																																					
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5	4130 - Aspen	Sapling Well	50.7	17	Unspecified	N/A	some Scattered mature SM and w pine Leave trees. Two retention islands within stand area.																																				
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6	42200 - Natural White Pine	Sawtimber Well	2.6	75	81-110	N/A	Small islands surrounded by young aspen stand.																																																		
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7	6112 - Lowland Aspen	Poletimber Well	10.4	36	Unspecified	N/A	seasonal wet drainage...some portions have springs and flow																																																		
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9	3302 - Low Density Conifer Trees	Nonstocked	3.3		Unspecified	No	sedges, CSG, SJW, juneberry, Autumn olive, honeysuckle, ant mounds, strawberry, some WSG, cladonia, mullin. rough leafed rice grass.																																																		
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10	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	18.0	76	51-80	N/A	healthy stand.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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11	4133 - Aspen, Mixed Pine	Poletimber Well	103.0	55	Unspecified	N/A	Portion of the original stand was cut to regen aspen (created stand 97) in 2014. To start staggering of aspen age classes in this area.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log/Pole	10		Sugar Maple	Medium	Variable	Sapling
Quaking Aspen	25	Pole	8		Red Maple	High	Variable	Sapling
Bigtooth Aspen	25	Pole	8	55	Beech	Low	< 5 feet	Sapling
White Pine	30	Log/Pole	11	55	White Pine	Low	Variable	Sapling
Black Cherry	10	Pole/Log	9					

12	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	2.2	80	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	70	Log/Pole	12	80	Red Maple	Medium	Variable	Sapling
Red Maple	30	Log/Pole	12		White Pine	Medium	Variable	Sapling

13	4133 - Aspen, Mixed Pine	Poletimber Well	100.8	55	Unspecified	N/A	some areas contain sugar maple regen and poles. also, some scattered ash. scattered serviceberry..
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	30	Pole/Log	8		Sugar Maple	Low	Variable	Sapling
Bigtooth Aspen	35	Pole/Log	8	55	Sugar Maple	Low	Variable	Pole
White Pine	20	Log/Pole	10		Red Maple	Medium	Variable	Sapling
					Beech	Low	Variable	Sapling
					Ironwood	High	Variable	Sapling
					Witch Hazel	Medium	5 - 10 feet	Tall Shrub

14	3103 - Rubus-Fern	Nonstocked	0.9		Unspecified	No	
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Sub-Canopy Species	Density	Avg. Height	Size
Bracken Fern	High		Non-Wood
Mixed Grasses	Low		Non-Wood
Unlisted - See Comments	Medium		
White Pine	Low		Sapling
Sedges	Low		Non-Wood
Black Cherry	Low		Sapling

15	42290 - Natural Mixed Pine	Poletimber Medium	7.0	30	Immature	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	30	Pole	8		White Pine	Medium	Variable	Sapling
Jack Pine	35	Pole/Sapling	6	30	Jack Pine	Medium	Variable	Sapling
White Pine	20	Pole/Sap/Log	6		Beech	Low	< 5 feet	Sapling
Sugar Maple	15	Log/Pole/Sap	12		Sugar Maple	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	3103 - Rubus-Fern	Nonstocked	13.5		Unspecified	Managed Opening				
							Sub-Canopy Species	Density	Avg. Height	Size
							White Pine	Low		Sapling
							Black Cherry	Medium		Log
							Bracken Fern	High		Non-Wood
							Autumn Olive	Low		Tall Shrub
							Mixed Grasses	Low		Non-Wood
							Cladonia (Reindeer moss)	Low		Non-Wood
							Poverty Grass	Medium		Non-Wood

17	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	24.3	76	81-110	N/A	Contains some pockets of nice sugar maple regen					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	35	Log/Pole	13	76
								Bigtooth Aspen	30	Log/Pole	11	
								White Pine	20	Log/Pole	10	
Sub-Canopy Species	Density	Avg. Height	Size									
Sugar Maple	Low	Variable	Sapling									
Red Maple	Medium	Variable	Sapling									
Beech	Low	< 5 feet	Sapling									
White Pine	High	Variable	Sapling									

18	4130 - Aspen	Sapling Well	26.6	17	Unspecified	N/A					
							Canopy Species	% Cover	Size Class	DBH	Age
							Quaking Aspen	45	Sapling	3	17
Bigtooth Aspen	50	Sapling	3	17							

19	3303 - Mixed Low Density Trees	Nonstocked	27.1		Unspecified	Managed Opening	See Pre-inventory stand # 16 comments. Considerable amount of jack pine seeding in from plantation to the south. Should brush hog south of 2 track a little. More lycopodium here, less trout lily, some witch hazel. Photo #1188				
								Sub-Canopy Species	Density	Avg. Height	Size
								Bracken Fern	High		Non-Wood
								Serviceberry (Juneberry)	Low		
								Jack Pine	Medium		Sapling
								White Pine	Low		Sapling
								Mixed Grasses	Low		Non-Wood
								Black Cherry	Medium		Sapling
								Cladonia (Reindeer moss)	Low		Non-Wood
								Autumn Olive	Low		Tall Shrub
Poverty Grass	Medium		Non-Wood								

20	42120 - Planted Jack Pine	Poletimber Well	3.1	68	1-50	N/A					
							Canopy Species	% Cover	Size Class	DBH	Age
							Jack Pine	100	Pole	7	68
							Sub-Canopy Species	Density	Avg. Height	Size	
							Beech	Medium	Variable	Sapling	
Red Maple	Medium	Variable	Sapling								
White Pine	Low	< 5 feet	Sapling								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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21 42110 - Planted Red Pine Sawtimber Well 6.8 68 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Log/Pole	11	68

23 3303 - Mixed Low Density Trees Nonstocked 11.0 Unspecified No

WLD- 2019 Brush hog to set back woody encroachment. Cultivate and seed to enhance herbaceous cover. Treat with stands 23, 43, 47, 56, and 57.

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Grasses	Medium		Non-Wood
White Pine	Medium		Pole
Bracken Fern	High		Non-Wood
Cladonia (Reindeer moss)	Low		Non-Wood
Black Cherry	Low		Pole
Quaking Aspen	Low		Sapling
Unlisted - See Comments	Medium		

24 42110 - Planted Red Pine Poletimber Well 50.2 29 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Pole/Sapling	5	29

25 3303 - Mixed Low Density Trees Nonstocked 1.1 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Grasses	Trace		Non-Wood
Black Cherry	Low		Pole
Red Maple	Trace		Sapling
White Pine	Medium		Sapling
Bigtooth Aspen	Low		Pole
Bracken Fern	Full		Non-Wood
Witch Hazel	Trace		Tall Shrub
Unlisted - See Comments	Medium		

26 4112 - Maple, Beech, Cherry Association Poletimber Well 12.0 106 81-110 N/A low to mid-grade hardwoods.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	55	Log/Pole	10	106
Red Maple	20	Log/Pole	10	
White Pine	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
Sugar Maple	Medium	Variable	Pole
White Pine	Low	Variable	Sapling
Ironwood	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27 3105 - Mixed Upland Herbaceous Nonstocked 2.0 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Spotted Knapweed	Medium	Unspecified	Non-Wood
Black Cherry	Low		Pole
Red Pine	Low		Sapling
Bracken Fern	Low		Non-Wood
Jack Pine	Low		Sapling
Mixed Grasses	Medium		Non-Wood

28 4112 - Maple, Beech, Cherry Association Sawtimber Well 17.1 95 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	45	Log/Pole	13	95
Red Maple	42	Log/Pole	13	
Beech	8	Log/Pole	12	

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

29 42140 - Planted Mixed Pine Sawtimber Well 17.2 68 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	35	Log/Pole	11	
Red Pine	40	Log/Pole	12	68
Jack Pine	25	Pole/Log	8	

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

Old plantation pine that was planted along roads for soil erosion protection purposes . Will keep for aesthetic purposes along Pioneer road. Jack pine starting to die out.

30 110 - Low Intensity Urban Nonstocked 15.6 Unspecified Managed Opening

CA 04/20/2009 - This is Pioneer road.

31 4133 - Aspen, Mixed Pine Poletimber Well 49.8 54 Unspecified N/A

some scattered sugar maple.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Log/Pole	12	
Bigtooth Aspen	55	Log/Pole	11	54
White Pine	20	Log/Pole/XLog	13	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Ironwood	High	Variable	Sapling
White Pine	Low	Variable	Sapling
Beech	Low	Variable	Sapling

32 6220 - Alder/willow Nonstocked 2.4 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Alder	High		Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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33 6131 - Hemlock, White Pine, Maple, Birch Sawtimber Well 12.4 95 81-110 N/A Deer yard area

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Log/Pole	14	95	Red Maple	Low	Variable	Sapling
Yellow Birch	15	Log/Pole	11		Yellow Birch	Low	Variable	Sapling
Northern White Cedar	15	Pole/Log	9	95	Hemlock	High	Variable	Pole
Hemlock	30	Pole/Log	9	95	Slippery Elm	Low	Variable	Sapling
					Beech	Medium	Variable	Sapling

34 6112 - Lowland Aspen Poletimber Well 1.5 36 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	95	Pole	6	36	Red Maple	Low	Variable	Sapling
					White Pine	Low	Variable	Sapling

35 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 23.8 89 81-110 N/A Deer use stand in winter for cover lots of blowdowns.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Log/Pole	12		Red Maple	Medium	Variable	Pole
Northern White Cedar	45	Log/Pole	12	89	Beech	Low	Variable	Sapling
Hemlock	25	Log/Pole	12		Balsam Fir	Medium	Variable	Sapling
					Northern White Cedar	Medium	Variable	Pole

37 4130 - Aspen Poletimber Well 71.0 35 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	6		Sugar Maple	Low	Variable	Sapling
Quaking Aspen	30	Pole	6	35	Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	40	Pole	6	35	Black Cherry	Low	Variable	Sapling
Black Cherry	10	Pole	6		Ironwood	Medium	Variable	Sapling

39 6220 - Alder/willow Nonstocked 9.3 Unspecified No Photo # 1224. Iris.

Sub-Canopy Species	Density	Avg. Height	Size
Red Osier Dogwood	Low		Tall Shrub
Mixes Sedges/Grasses	Low		Non-Wood
Blackberry/Raspberry	Trace		Tall Shrub
Willow spp.	High		
Tag Alder	Low		Tall Shrub
Viburnum	Low		Tall Shrub
Red Maple	Trace		Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
40	4133 - Aspen, Mixed Pine	Sawtimber Well	3.2	60	Unspecified	N/A	these areas were left for retention purposes. to have small inclusions of mature timber in aspen regen areas.																																								
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41	4130 - Aspen	Sapling Well	32.7	17	Unspecified	N/A	nice regenislands of white pine where Left and scattered individual retention trees.																																								
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42	6239 - Mixed Emergent Wetland	Nonstocked	4.3		Unspecified	No																																									
43	3205 - Mixed Upland Shrub	Nonstocked	34.0		Unspecified	No	Photo #1218. juniper, ant mounds, choke cherry?, SKW, SJW, hawkweed, brome, CSG, WSG, hair grass, golden rod, trout lily, witch hazel, sheep sorrel.																																								
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44	42200 - Natural White Pine	Sawtimber Medium	5.9	90	1-50	N/A																																									
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47	3103 - Rubus-Fern	Nonstocked	10.1		Unspecified	No	Photo # 1225. Choke cherry? Juniper, witch hazel, rubus, strawberry, brome, SJW, hawkweed, dandelion, hawthorn, goldenrod, cladonia, sheep sorrel, sedges, trout lily.																																								
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48	4130 - Aspen	Sapling Well	6.7	16	Unspecified	N/A																																									
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49	4117 - Mixed N. Hardwood - Pine	Poletimber Poor	1.0	50	51-80	N/A	provides good wildlife uses.																																								
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50	42120 - Planted Jack Pine	Poletimber Well	7.9	68	81-110	N/A	Jack pine -- very Poor quality/condition...really falling apart now, break-offs																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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51 4139 - Aspen, Mixed Deciduous Sapling Well 10.1 7 Unspecified N/A keep sugar maple component and go for mix regen of sugar and aspen.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	15	Log	15	89
Red Maple	25	Sapling	1	7
Bigtooth Aspen	45	Sapling	1	7
White Pine	15	Sapling	2	7

52 4133 - Aspen, Mixed Pine Poletimber Well 47.8 54 Unspecified N/A good quality aspen. some areas of much sugar regen and poles.some thornapplesome cherry

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Log	9		Sugar Maple	Medium	Variable	Sapling
Bigtooth Aspen	50	Pole/Log	9	54	White Pine	High	Variable	Sapling
White Pine	35	Pole/Log	8	54	White Pine	High	Variable	Pole

53 4130 - Aspen Sapling Well 13.3 16 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	45	Sapling	2	16
Bigtooth Aspen	45	Sapling	2	16

54 3105 - Mixed Upland Herbaceous Nonstocked 1.7 Unspecified No Cladonia, witch hazel, hawthorn, sheep sorrel, rubus.

Sub-Canopy Species	Density	Avg. Height	Size
Spotted Knapweed	Medium		Non-Wood
Mixed Grasses	Low		Non-Wood
Serviceberry (Juneberry)	Low		
Poverty Grass	Medium		Non-Wood
Red Maple	Low		Pole
Cladonia (Reindeer moss)	Low		Non-Wood
Black Cherry	Low		Log
Bracken Fern	Low		Non-Wood
St. Johns Wort	Low		Non-Wood
Jack Pine	Low		Sapling

55 4133 - Aspen, Mixed Pine Poletimber Well 8.3 54 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	65	Pole/Log	9	54	Sugar Maple	Medium	Variable	Sapling
White Pine	20	Log/Pole	10	54	Beech	Low	Variable	Sapling
					White Pine	High	Variable	Sapling
					White Pine	High	Variable	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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56	3301 - Low Density Deciduous Trees	Nonstocked	34.0		Unspecified	No	Nice regeneration of sugar maple saps around some of the tree islands and along edges of this opening. Do not cut or damage this regen.--(C. Allen, 2018). Photo # 1247. ironwood, rubus, leafy spurge, SJW, hawthorn, ash, cladonia, strawberry, golden rod, honeysuckle, sedges, warm season grasses, dens, deer blind, wild bergemont?, choke cherry?				
								Sub-Canopy Species	Density	Avg. Height	Size
								Quaking Aspen	Low		Pole
								Red Maple	Low		Log
								Bracken Fern	Medium		Non-Wood
								Bigtooth Aspen	Trace		Pole
								Poverty Grass	Medium		Non-Wood
								Black Cherry	Medium		Pole
								Witch Hazel	Medium		Tall Shrub
								Spotted Knapweed	Medium		Non-Wood
								Serviceberry (Juneberry)	Low		
								White Pine	Medium		Pole
								Sugar Maple	Medium	Variable	Sapling
Sugar Maple	Low	>20 feet	Log								
White Pine	Medium	>20 feet	Log								

57	3105 - Mixed Upland Herbaceous	Nonstocked	4.5		Unspecified	No	SJW, hawkweed, honeysuckle, dandelion. Deer camp.				
								Sub-Canopy Species	Density	Avg. Height	Size
								Sedges	Low		Non-Wood
								Red Maple	Low		Pole
								Bracken Fern	Medium		Non-Wood
								Serviceberry (Juneberry)	Trace		
								White Pine	Low		Pole
								Poverty Grass	Medium		Non-Wood
								Black Cherry	Low		Pole
								Witch Hazel	Low		Tall Shrub

58	4133 - Aspen, Mixed Pine	Poletimber Well	81.4	34	Immature	N/A	Good sugar maple regen along west edge of stand and in adjacent opening there.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	10	Pole/Sapling	5	
								Red Maple	10	Pole/Sapling	5	34
								Bigtooth Aspen	40	Pole	7	34
								White Pine	35	Log/Pole	11	34
								Sub-Canopy Species	Density	Avg. Height	Size	
								Sugar Maple	Medium	Variable	Sapling	
								Red Maple	Medium	Variable	Sapling	
								Black Cherry	Medium	< 5 feet	Sapling	

59	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	10.2	89	111-140	N/A	Some good quality Sugar maple Some old fire scarred white pine Some old maple too					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	40	Log/Pole	12	89
								Red Maple	20	Log/Pole	12	
								Basswood	10	Log/Pole	12	
								White Pine	25	Pole/Log/XLog	9	89
								Sub-Canopy Species	Density	Avg. Height	Size	
								Sugar Maple	Medium	>20 feet	Sapling	
								Ironwood	Medium	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
61	4133 - Aspen, Mixed Pine	Sapling Well	5.9	7	Immature	N/A	Area was harvested in December of 2012																																															
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White Pine	20	Pole/Log	8	65																																																		
62	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	42.5	105	Unspecified	N/A	Dair Creek lowland corridor.																																															
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63	4130 - Aspen	Poletimber Well	11.8	37	Unspecified	N/A																																																
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64	6229 - Mixed lowland shrub	Nonstocked	18.5		Unspecified	No	contains some old beaver dam flooding																																															
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65	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	12.5	105	81-110	N/A	Dair creek flood plain.																																															
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66	3105 - Mixed Upland Herbaceous	Nonstocked	1.0		Unspecified	No	This is an old logging landing from when the surrounding stand was harvested. This will be needed for a landing when it is cut in future and when adjacent red pine stand is thinned this cycle. Trout lily, juniper, sedges, SJW, choke cherry?, honeysuckle.																																															
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68	4130 - Aspen	Poletimber Well	26.7	40	Unspecified	N/A	Some good pockets of advanced sugar maple regen in understory.																																							
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70	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	8.7	58	171-200	N/A	rows twist & turn																																							
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71	110 - Low Intensity Urban	Nonstocked	5.8		Unspecified	Managed Opening	This is Betsie Vally Trail. gravel and maintained.																																							
73	4130 - Aspen	Poletimber Well	87.1	36	Unspecified	N/A	Contains many inclusions of lowland drainages or seasonal wet areas (some with cedar). Also has occasional white pine large log-sized trees.																																							
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74	42110 - Planted Red Pine	Poletimber Well	75.7	58	141-170	N/A	Rows have irregular spacing twists and turns. First thinned in 2014. rows thinned but also had to individually mark additional trees to facilitate logging equipment access.																																							
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76	4110 - Sugar Maple Association	Poletimber Well	9.9	34	51-80	N/A																																										
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78	6113 - Lowland Maple	Sawtimber Well	2.1	95	Unspecified	N/A	Contains wetland that is about 1/3 size of stand. Also contains a few sugar maple, cherry, yellow birch, cedar.																																									
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79	42110 - Planted Red Pine	Poletimber Well	6.6	58	171-200	N/A	Has Been row- thinned Good quality Minor wildfire in stand around 2012																																									
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80	3302 - Low Density Conifer Trees	Nonstocked	1.0		Unspecified	No	Hawkweed, SJW, Cladonia. lycopodia.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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81	6229 - Mixed lowland shrub	Nonstocked	7.1		Unspecified	No	may be a seasonal wet area...but seems to contain water to some extent whenever viewed.
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82	4130 - Aspen	Sapling Well	6.6	17	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	44	Sapling	3	
Bigtooth Aspen	46	Sapling	3	17

83	3204 - Mast Producing Shrub	Nonstocked	19.9		Unspecified	No	trout lily, SKW, SJW, Brome, honeysuckle.
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Sub-Canopy Species	Density	Avg. Height	Size
Bracken Fern	Medium		Non-Wood
Serviceberry (Juneberry)	Medium		
Mixed Grasses	Medium		Non-Wood
Poverty Grass	Medium		Non-Wood
Black Cherry	Medium		Pole
Red Maple	Trace		Pole

85	6118 - Lowland Deciduous with Cedar	Sawtimber Medium	4.4	90	Unspecified	N/A	a lot of blow-downs. Wetland with cattails in middle of stand. standing dead ash.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	50	Log/Pole	12	90
Yellow Birch	20	Pole/Log	9	
Northern White Cedar	20	Pole/Log	9	
Hemlock	10	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
American Elm	Medium	Variable	Pole
Yellow Birch	Low	Variable	Sapling
Hemlock	Medium	>20 feet	Pole
Beech	Low	< 5 feet	Sapling

86	4130 - Aspen	Sapling Well	5.7	7	Immature	N/A	aspen stand that was cut in 2014 to regenerate
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	15	Sapling	1	
Bigtooth Aspen	80	Sapling	1	7

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Medium	5 - 10 feet	Tall Shrub

87	42110 - Planted Red Pine	Poletimber Well	5.9	58	81-110	N/A	Thinned in 2014, (first time thinned?)
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Log/Pole	10	58

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

88	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	58.5	59	111-140	N/A	Lots of weevil damage
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log/Pole	13	
White Pine	75	Log/Pole	11	59
Black Cherry	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Witch Hazel	Medium	Variable	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
89	42100 - Planted White Pine	Sawtimber Well	4.3	59	81-110	N/A																																										
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90	4130 - Aspen	Poletimber Well	6.0	47	Unspecified	N/A																																										
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91	42110 - Planted Red Pine	Sawtimber Well	23.7	58	141-170	N/A	was row thinned Last time.																																									
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92	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	11.4	89	81-110	N/A	Some good quality Sugar maple Some old fire scarred white pine Some old maple too																																									
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93	4117 - Mixed N. Hardwood - Pine	Sapling Well	52.9	5	Immature	N/A	Was a very poor quality jack pine stand that was clearcut to replant to red pine. Trenched and planted red pine.FTP # C-61-586Planted 2014This stand has been updated from a field evaluation (2018) for a project on free to grow red pine.																																									
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94	4130 - Aspen	Sapling Well	25.8	7	Unspecified	N/A																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
96	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	103.7	5	Immature	N/A	This stand has been updated from a field evaluation for a project on free to grow red pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		60	Sapling	1	5	Red Pine	
Black Cherry		40	Sapling	2		Red Maple	
						Density	Avg. Height
						High	5 - 10 feet
						Low	< 5 feet
							Size
							Sapling
							Sapling
97	4130 - Aspen	Sapling Well	20.1	5	Immature	N/A	Regeneration harvest done in june of 2014 to expand aspen. Leave trees left within.
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		45	Sapling	1	5		
Quaking Aspen		30	Sapling	1	5		
White Pine		10	XLog/Log	20			
98	4139 - Aspen, Mixed Deciduous	Sapling Well	21.8	5	Immature	N/A	This stand was final harvested in june of 2014 to regen aspen and help stagger age class of aspen in the area.
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		45	Sapling	1	5		
Red Maple		29	Sapling	1	5		
Sugar Maple		10	Sapling	1			
Black Cherry		10	Sapling	1			
100	42220 - Natural Jack Pine	Poletimber Well	10.9	17	Immature	N/A	natural stand
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		95	Sapling	3	17	Jack Pine	
						Density	Avg. Height
						Medium	Variable
							Size
							Sapling
101	6112 - Lowland Aspen	Poletimber Poor	1.2	36	Unspecified	N/A	seasonal wet area...sparse tree density compared to surrounding stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		95	Pole	7	36	Tag Alder	
						Density	Avg. Height
						Medium	5 - 10 feet
							Size
							Tall Shrub
						White Pine	
						Low	Variable
							Sapling
104	4133 - Aspen, Mixed Pine	Poletimber Well	26.8	55	Unspecified	N/A	some areas contain sugar maple regen and poles. also, some scattered ash. scattered serviceberry.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		35	Pole/Log	8	55	Ironwood	
Quaking Aspen		30	Pole/Log	8		Red Maple	
White Pine		20	Log/Pole	10		Sugar Maple	
						Density	Avg. Height
						High	Variable
						Medium	Variable
						Low	Variable
							Size
							Sapling
							Sapling
							Sapling