



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61057

Entry Year 2026

Acreage: 3,369

County Grand Traverse

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Joe Ventimiglia

Legal Description:

T25N-R09W-Sections 27, 28, 29, 32, 33 & 34

Identified Planning Goals:

This compartment is designated as mixed use in the Regional State Forest Management Plan and more specifically the Manistee River Valley Management Area guidance. This designation places equal importance on the production of wood fiber, wildlife habitat, recreation and scenic and aesthetic values.

Soil and topography:

Rubicon and Grayling sands make up the majority of soils in this region. Lowland areas within the compartment consist of a combination of mucks and peats. Topography within compartment is flat to gently rolling with isolated slopes that are somewhat steep.

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

Scattered private parcels exist along the US131 and M113 corridor. There is a mixture of state and private ownership adjacent to this compartment - private consists mostly of residential. Very light residential development is occurring adjacent to state ownership within this compartment and adjacent to surrounding state owned lands. Pugsley Correctional Facility is located just north of compartment, north of Walton rd and west of M113.

Unique Natural Features:

Treed bogs and small pothole lakes are present within compartment and are identified on compartment map if they meet MIFI mapping standards.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

Numerous recreational trails traverse this compartment including the North Country Trail, the MCCCT cycle trail and the South Spur of the Boardman Valley Snowmobile Trail. Management activities should take into consideration aesthetic values along these trail corridors and protection should be addressed using VMS specs during timber sale operations.

Watershed and Fisheries Considerations:

Jennie Lake is a small kettle lake located in the western portion of the compartment. The surrounding stand has been site conditioned to protect the integrity of the lake and avoid erosion issues from increased access and timber sale operations. Walton Creek and Walton Marsh are located in the south central portion of the compartment. Walton Creek contains self sustaining populations of brook and brown trout - management activities in this vicinity should be done in such a way that the integrity of the stream is not compromised.

Wildlife Habitat Considerations:

This compartment falls entirely on a flat, excessively well drained outwash plain (LTA 5111), which was historically prone to frequent burning and harbored mixed pine forests, barrens, and some components of oak, aspen, and hardwoods. This landscape should continue to be managed for a variety of successional stages of pine-oak-aspen forest and grass-shrub openings, with some mid to late successional forest in places. Several stands could be allowed to gradually succeed to mixed pine forest, while others should be set back through timber harvesting. Such harvesting should incorporate residual live trees (including mast producing species), snags, and some down logs to replicate within-stand habitat structure left after wildfires. Oak is a very important component of forests here and should be maintained or regenerated as much as possible. Pine plantations should incorporate tree species and structural diversity as much as possible.

Aspen communities are an important component of this fire prone early successional landscape. Currently, aspen stands are of limited representation within compartment 57. However, aspen can be found as a component of the mixed pine-deciduous stands here. Opportunities to maintain and expand the presence of aspen communities should be included in future management plans. These plans should take into account age class diversity in conjunction with location of aspen stands. One such treatment is scheduled for this entry period.

Prescribed burning will be used as a tool to restore and maintain some grasslands/savanna habitat in one area of this compartment. Other opening maintenance projects include planting of herbaceous vegetation and selective hand felling of encroachment.

Species associated with pine, oak and aspen mixed upland forests and openland habitats, such as badger, deer, wild turkey, scarlet tanager, hog-nosed snake, ruffed grouse, Cooper's hawk, red-backed salamander, and gray squirrel will benefit from management here.

Mineral Resource and Development Concerns and/or Restrictions

There is no known metallic mineral potential in this part of the state. The closest active sand/gravel pit is three miles east. Potential for development of sand & gravel within the compartment does not appear to be significant. The compartment is outside the productive zones of both the Antrim Shale and Silurian reef hydrocarbon plays. Potential for oil & gas from other known producing formations beneath the compartment is considered low at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

No new access needed. Road closure process can be used to excess roads if needed at any time. Landings and skid trails from any timber sale operations should be closed appropriately on a case by case basis.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The South Spout of the Boardman Valley Snowmobile Trail runs north/south through the compartment, closely following the railroad north of Walton Pond. The north Country Trail also runs north/south through the compartment using a combination of fire lane roads, 2-track trails and single track trails for its course. The ORV/MCCCT trail runs through the compartment using a combination of two tracks and single track trails for its course. Appropriate trail protection specifications should be added to the timber sale to reduce potential impacts to these recreation facilities. Small game hunting, deer hunting, bird watching and berry picking make up the majority of other recreational uses within the compartment. (T.M.N. 4/14/14)

Fire Protection:

The majority of this compartment is within Zone 6 dispatch. Initial attack is Grand Traverse County Rural Fire Department Battalion 6-Fife Lake. Because of the distance from the Traverse City Field Office, the Manton DNR office handles initial attack for DNR suppression. Traverse City units will take over operations if/when they arrive on scene.

Additional Compartment Information:

The following reports from the Inventory are attached:

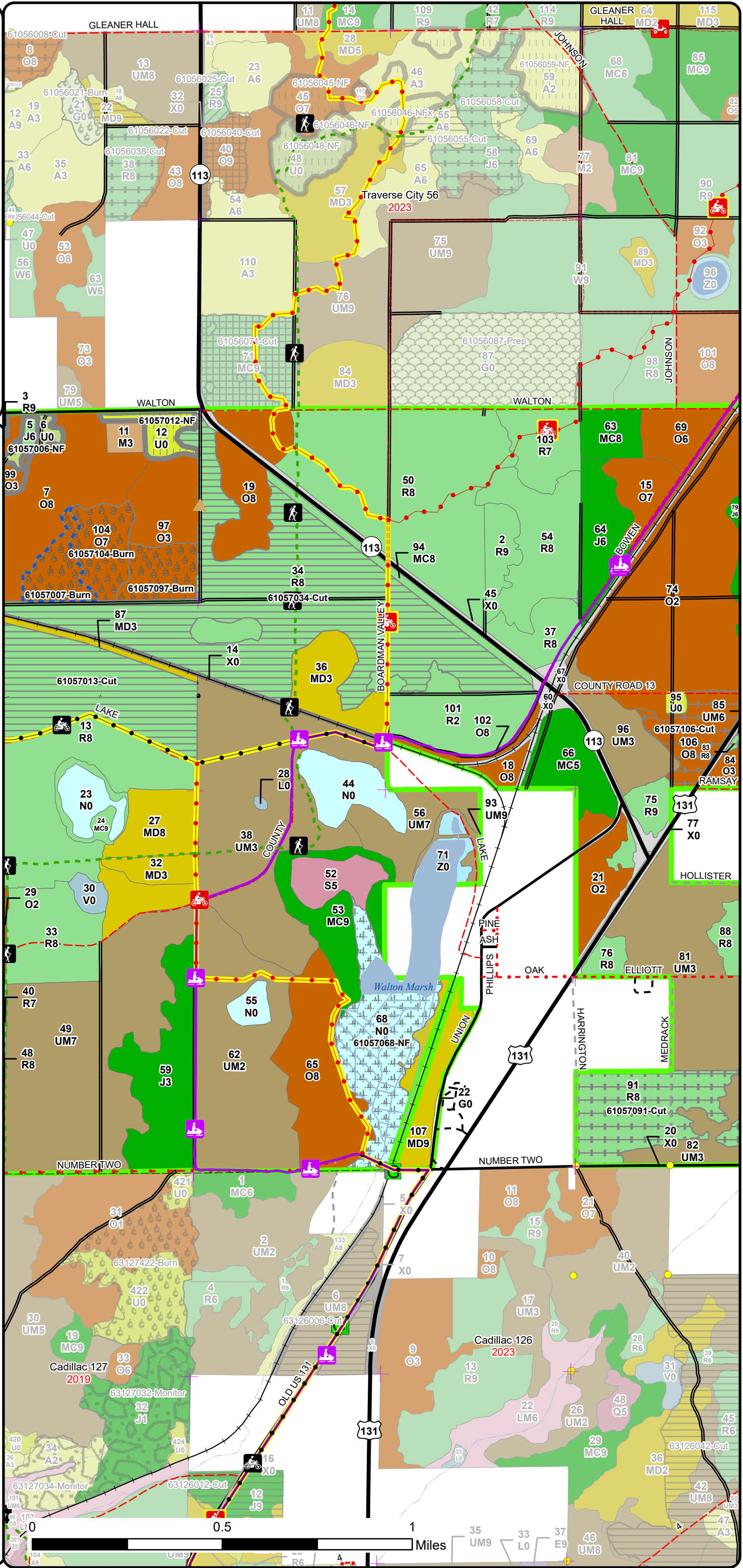
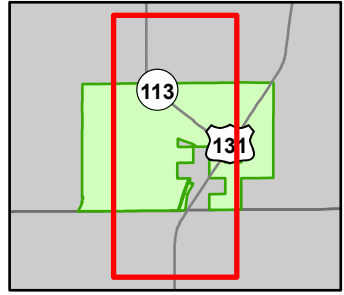
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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: 61057
 T25N, R09W, Sec: 27-29, 32-34
 County: Grand Traverse
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy Moraines
 YOE: 2026
 Acres: 3369.1 GIS Calculated
 Examiner: Joe Ventimiglia
 Map Revised: 07/08/2024
 Map Phase: Web-Post

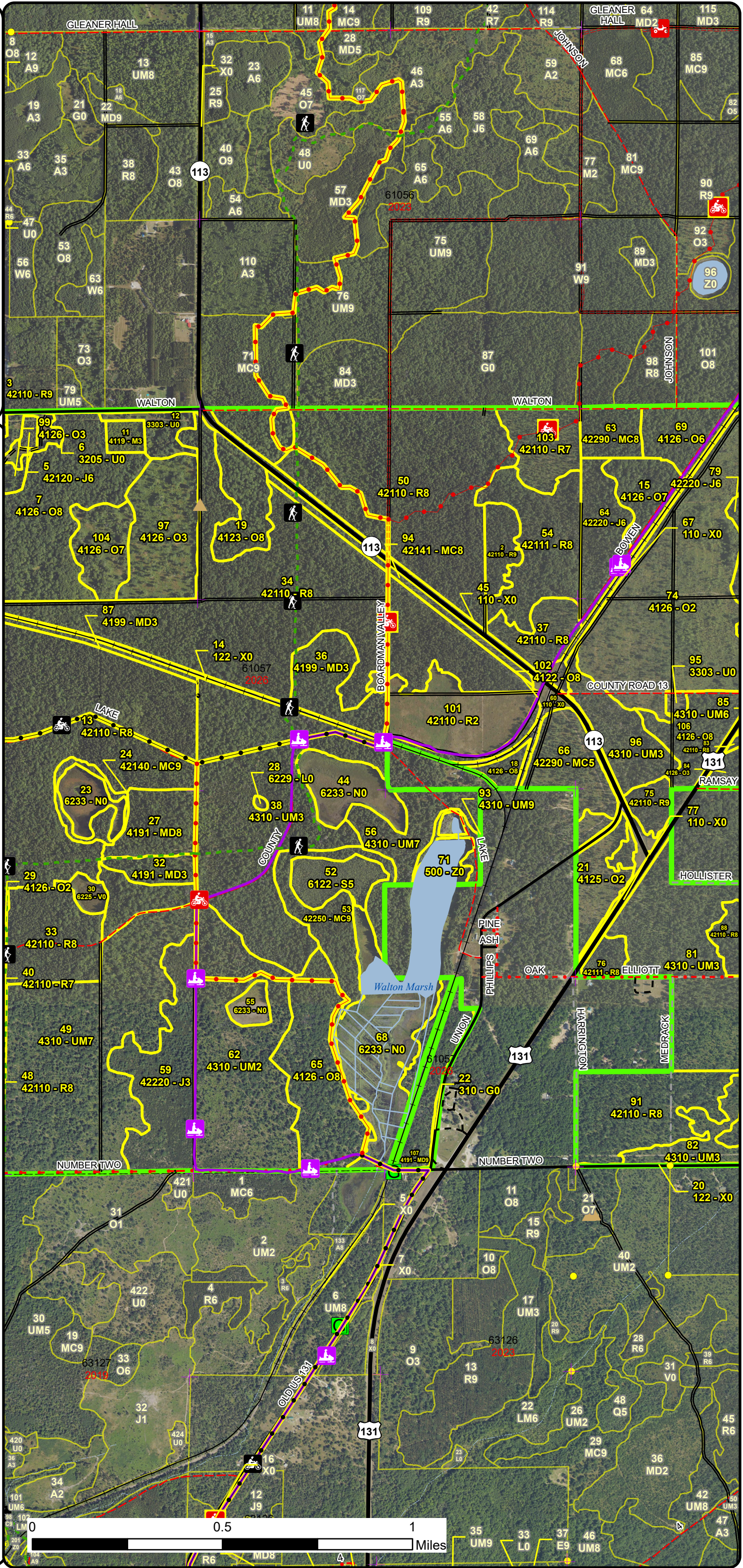
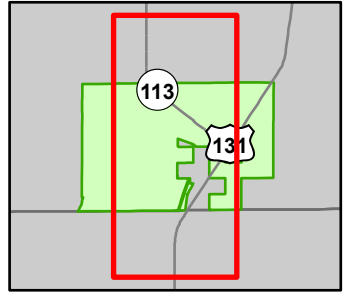


- Hiking Trails
- Motorcycle Trails (SOS License)
- Motorcycle Trails (DNR License)
- MCCCT Trails
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
- ORV License
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Remonumented Section Corners
- Survey Grade Corners
- Berms
- Gate
- Culvert
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Lakes and Rivers
- Intermittent Stream
- Lake/Pond
- Perennial River
- Counties
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- 411 - Northern Hardwood
- 412 - Oak Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

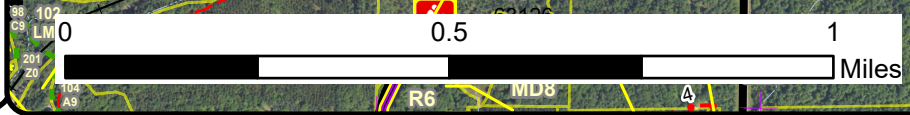


Stand Boundary Map

Compartment: 61057
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 Unit: Traverse City
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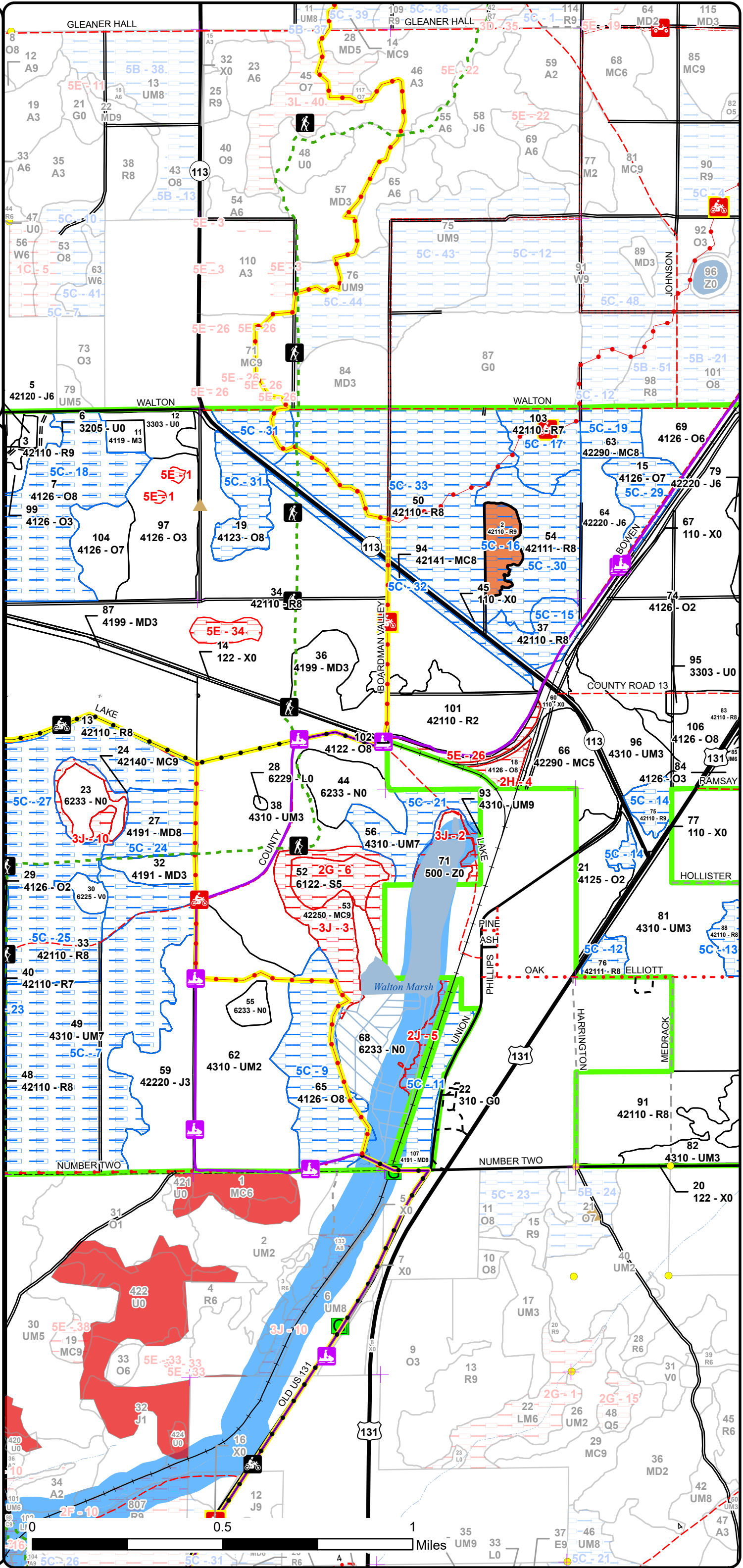
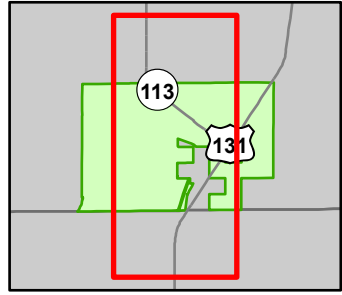


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- State Forests



Special Conservation Areas & Site Conditions Map

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 County: Grand Traverse
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy
 Moraines
 YOE: 2026
 Acres: 3369.1 GIS Calculated
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- Lakes and Rivers
- Intermittent Stream
- Lake/Pond
- Perennial River
- Counties
- Compartment Boundary
- SCA
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Ecological Reference Areas
- High Priority Trout Stream Buffer
- Other Habitat Area

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Herbaceous Openland	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Jack Pine	0	0	0	64	26	118	0	0	0	0	0	0	0	0	0	0	0	0	208
Low-Density Trees	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Spruce/Fir	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	16
Marsh	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99
Mixed Upland Deciduous	0	35	10	33	0	0	0	0	0	0	37	24	0	0	0	0	0	0	139
Natural Mixed Pines	0	0	0	0	0	0	0	26	0	0	0	44	0	0	0	0	0	0	70
Northern Hardwood	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Oak	0	342	0	0	43	20	0	0	0	0	75	72	365	5	0	0	0	0	922
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	19
Red Pine	0	40	0	0	0	0	0	0	0	21	827	69	0	0	0	0	0	0	957
Upland Mixed Forest	0	87	235	157	62	41	0	0	0	25	0	11	143	0	0	0	0	0	760
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Urban	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Water	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	255	504	250	254	150	179	16	26	0	46	958	220	508	5	0	0	0	0	3370



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 57
Total Compartment Acres: 3,369

Commercial Harvest - 567
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
Oak	77	0	0	0	0	24	0	0		102
Red Pine	313	0	0	0	21	131	0	0		465
Total	390	0	0	0	21	156	0	0		567

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	567	0	0	0	89	0	0	97		753
Next Step	0	313	313	0	0	313	703	89		1732
Total	567	313	313	0	89	313	703	186		2485



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

1	61057001-Burn	36.4	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	Burn	Opening	3303 - Mixed Low Density Trees	No
<p><u>Prescription Specs:</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.</p> <p><u>Next Step Treatments:</u> NonForestMgt, Other - Specify</p> <p><u>Acceptable Regen:</u> Pine barrens community</p> <p><u>Other Comment:</u> This is an MNFI delineated Pine Barrens. Periodic mowing should be utilized to reduce bracken component.</p> <p><u>Site Condition:</u> Conservation Values</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
3	61057003-Cut	20.8	42110 - Planted Red Pine	Sawtimber Well	83	111-140	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged No
<p><u>Prescription Specs:</u> Perform low thinning. Take out poor form and suppressed first then mark for spacing. As well cut all trees within and around dieback pocket. (Cut out at least half chain from last stressed tree)</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> This stand will not be planted back to red pine due to small size and location near pine barrens ERA. Eventually convert to oak.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
6	61057006-NF	5.2	3205 - Mixed Upland Shrub	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub	No
<p><u>Prescription Specs:</u> Selectively hand fell woody vegetation back to allow ample sunlight to reach the ground for grasses and forbs. This stand is within an area that has the potential to support Hill's thistle. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Warm season grasses and forbs. Scattered mature trees or clumps of trees. Scattered shrubs.</p> <p><u>Other Comment:</u> Very close to Pine Barrens ecosystem.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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
7 61057007-Burn	14.9	4126 - White, Black, N. Pin Oak	Sawtimber Medium	110	51-80	Burn	Opening	3303 - Mixed Low Density Trees		No
<p><u>Prescription Specs:</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.</p> <p><u>Next Step Treatments:</u> NonForestMgt, Brush Cutting</p> <p><u>Acceptable Regen:</u> Warm season grasses and forbs. Scattered mature trees or clumps of trees with variable canopy closure from 5 to 60% . Scattered shrubs.</p> <p><u>Other Comment:</u> This area would be managed with a denser canopy closure. Oak barrens (which historically occurred further south in MI) and more local oak-pine barrens would have varied canopy closure ranging from 5% to 60%. Maintain as needed with minimal selective tree removal, mowing, seeding of native grasses and forbs, burning, or removal of woody encroachment.</p> <p><u>Site Condition</u> Age-Class or Site Quality</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
9 61057009-NF	0.5	4126 - White, Black, N. Pin Oak	Sawtimber Medium	111	51-80	NonForestMgt	Brush Cutting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription Specs:</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Treat in conjunction with stand 10.</p> <p><u>Site Condition</u> Age-Class or Site Quality</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
10 61057010-NF	8.9	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription Specs:</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Combination of native grasses, forbs, shrubs, and some trees like oak and cherry species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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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12	61057012-NF	10.3	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	NonForestMgt	Brush Cutting	3302 - Low Density Conifer Trees	No
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Prescription Remove some trees, around select leave trees and/or leave patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize and mulch saplings and protect with wire cages or tubex. Establish native herbaceous/forbs ground cover for wildlife food source. Eventually maintain with controlled burning.

Specs:
Next Step
Treatments:

Acceptable
Regen:

Other Could leave tree density higher along the edge of the stand for a screen effect for the interior.
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

13	61057013-Cut	117.7	42110 - Planted Red Pine	Sawtimber Medium	96	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest all trees over 1 inch in diameter. Require chipping and low stumps to facilitate planting operation following.

Specs: Leave retention 3 percent of sale acreage and leave retention along edge as not to interfere with planting operation following.

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

Acceptable Red Pine free to grow. A few oak and maple are expected as well but not enough to compete with planted red pine.
Regen:

Other Chipping and cutting all regeneration key to success of post-sale planting operations. Use oak wilt spec with exceptions.
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

34	61057034-Cut	195.3	42110 - Planted Red Pine	Sawtimber Medium	99	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest leaving retention island 3 to 6 percent of total acreage. (Rough location shown in site condition layer) Forester at time of set up
Specs: has discretion to place retention where it makes most sense.

Outside of retention island all trees over 1 inch in diameter should be cut and require chipping.

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

Acceptable Free to grow planted red pine. A little oak and maple accepted but overall free to grow red pine.
Regen:

Other Require low stumps and chipping to prepare site for planting. Make sure Fife Lake loop of NCT protected. No buffer should be left along it
Comment: but do make sure base of trail is not disturbed or skidded down. Retention should be placed in such a way as to not disturb subsequent cultivation activities.

Site Condition

Proposed Start Date: 10/1 /2025



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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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47	61057047-NF	1.7	4122 - Oak, Pine	Sawtimber Medium	97	1-50	NonForestMgt	Brush Cutting	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. As needed, treat site to remove exotics. Then seed to site appropriate native grasses and forbs.</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> Age-Class or Site Quality</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

48	61057048-Cut	58.7	42110 - Planted Red Pine	Sawtimber Medium	97	51-80	Harvest	Overstory Removal	412 - Oak Types Even-Aged	No
<p><u>Prescription</u> Cut all trees over 4 inches in diameter. Except leave all white oak and white pine. Leave retention island as well 3 percent of total acreage. (Map in MIFI)</p> <p><u>Specs:</u></p> <p>Protect advanced oak regeneration as much as possible.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Oak with some white pine, jack pine and red maple as well. But mostly oak. <u>Regen:</u></p> <p><u>Other</u> Oak wilt spec no exceptions. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

68	61057068-NF	57.5	6233 - Wet Meadow	Nonstocked			Unspec ified	NonForestMgt	Other - Specify	6239 - Mixed Emergent Wetland	No
<p><u>Prescription</u> Water level manipulation would benefit this area but it would likely be difficult to conduct due to antiquated water control structure and extensive diking from past cranberry farming operation. Remove invasive species, introduce native aquatic vegetation, waterfowl nesting structures.</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 /2025</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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83 61057083-Cut	13.5	42110 - Planted Red Pine	Sawtimber Medium	95	51-80	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
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Prescription Perform overstory removal cutting all trees over 5 inches in diameter. Leave all white oak regardless of size. No retention due to small size.
Specs:

Next Step
Treatments:

Acceptable Mix of oak and white/jack pine. Primarily oak.
Regen:

Other Protect oak and pine understory as much as possible. Lump in with stand 89 due to proximity.
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

89 61057089-Cut	77.2	4126 - White, Black, N. Pin Oak	Sawtimber Well	115	51-80	Harvest	Clearcut with Retention	4122 - Oak, Pine	Even-Aged	No
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Prescription Final Harvest stand leaving all red and white pine. As well leave retention island 3 to 5 percent of stand in island or islands.
Specs:

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

Acceptable Mix of oak along with some jack pine and white pine expected.
Regen:

Other Protect oak understory as possible during operations. Use oak Wilt Spec no exceptions.
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

91 61057091-Cut	59.1	42110 - Planted Red Pine	Sawtimber Medium	99	51-80	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
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Prescription Perform overstory removal. Cut all trees over 4 inches in diameter. Expect leave all white oak and white pine.
Specs:

Next Step
Treatments:

Acceptable Mixed oak with some jack pine and white pine expected. Few Red pine expected as well.
Regen:

Other Protect understory as much as possible during operations. Use oak wilt spec no exceptions. Power line runs along southwest edge of stand.
Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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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
97 61057097-Burn	17.4	4126 - White, Black, N. Pin Oak	Sapling Well	7	1-50	Burn	Opening	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription Specs:</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.</p> <p><u>Next Step Treatments:</u> NonForestMgt, Other - Specify</p> <p><u>Acceptable Regen:</u> Warm season grasses and forbs. Scattered mature trees or clumps of trees. Scattered shrubs.</p> <p><u>Other Comment:</u> This burn unit is being managed with a goal of maintaining a barrens type community in conjunction with stand 1, which is a pine barrens. Could leave a little more of the oak regen along the N, E, and S burn lines were the fire will be briefer and cooler to promote survival of oak regen along the edges, or leave some residual within the drip edge of mature oaks so that both mature oak and regen within the drip edge can be easily protected if needed during controlled burns.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>										
99 61057099-NF	12.9	4126 - White, Black, N. Pin Oak	Sapling Well	7	1-50	NonForestMgt	Brush Cutting	3303 - Mixed Low Density Trees		No
<p><u>Prescription Specs:</u> Selectively hand fell woody vegetation back to allow ample sunlight to reach the ground for grasses and forbs. This stand is within an area that has the potential to support Hill's thistle. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Warm season grasses and forbs. Scattered mature trees or clumps of trees. Scattered shrubs.</p> <p><u>Other Comment:</u> Adjacent to Pine Barrens ecosystem.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>										
104 61057104-Burn	20.7	4126 - White, Black, N. Pin Oak	Sawtimber Poor	110	1-50	Burn	Opening	3303 - Mixed Low Density Trees		No
<p><u>Prescription Specs:</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.</p> <p><u>Next Step Treatments:</u> NonForestMgt, Other - Specify</p> <p><u>Acceptable Regen:</u> Warm season grasses and forbs. Scattered mature trees or clumps of trees. Scattered shrubs.</p> <p><u>Other Comment:</u> This burn unit is being managed with a goal of maintaining a barrens type community in conjunction with stand 1, which is a pine barrens.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</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
106 61057106-Cut	24.3	4126 - White, Black, N. Pin Oak	Sawtimber Medium	99	1-50	Harvest	Overstory Removal	4129 - Mixed Oak	Even-Aged	No
<p><u>Prescription</u> Perform overstory removal cutting all trees over 6 inches in diameter. As well leave all red pine and Green mark a handful of white oak as retention.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed oak with minor component of mixed pine excepted as well.</p> <p><u>Regen:</u></p> <p><u>Other</u> Protect advanced oak understory as much as possible. Power line and old RR grade should be protected as well. Old well pad will provide easy access and landing. Use Oak Wilt Spec no exceptions.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Total Treatment 753
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 57
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		5C	2G	2H	2J	3A	3J	5E	
19	18	0	1	Aspen					1			
5	5	0	0	Bog								
39	2	0	36	Herbaceous Openland					36			
208	208	0	0	Jack Pine								
21	21	0	0	Low-Density Trees								
1	1	0	0	Lowland Shrub								
16	0	0	16	Lowland Spruce/Fir		16						
99	99	0	0	Marsh						0		
139	78	56	6	Mixed Upland Deciduous	56			6		0		
70	26	14	30	Natural Mixed Pines	14					30		
5	5	0	0	Northern Hardwood								
922	526	384	12	Oak	384		5					7
19	0	11	8	Planted Mixed Pines	11					8		
957	507	442	7	Red Pine	442					0		7
760	587	168	5	Upland Mixed Forest	168					5		
5	5	0	0	Upland Shrub								
73	73	0	0	Urban								0
11	11	0	0	Water								
3,369	2,173	1,075	121	Total Forested Acres	1,075	16	5	6	37	43		14
	64%	32%	4%	Relative Percent								

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

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3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: With all active management in this area, good idea to leave this stand to manage itself naturally. Also acts as nice buffer to lowland surrounding.							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Landlocked by rail road tracks. Too small to worry about crossing tracks for. Leave as wildlife stand .							
5	Unavailable	2J: Blocked by Railroad	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Landlocked by railroad, also not worth effort to cross railroad for such small acreage. Also left as buffer to water feature to west.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	143	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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 Joe Ventimiglia : Examiner

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 Year of Entry: 2026

15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	133	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 57
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20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	74	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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Traverse City Mgt. Unit

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Joe Ventimiglia : Examiner

Year of Entry: 2026

25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand, while part of the adjacent red pine plantation is more of a mixture of pine species and oak. Good candidate for long term retention adjacent to snow trail and PVT property to the south.							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	125	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	3A: Conservation Values incompatible with harvest at this time	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments: McManus Corner Pine Barrens ERA Eo_ID 1527							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
 Joe Ventimiglia : Examiner

Compartment: 57
 Year of Entry: 2026

31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	133	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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
113 corridor red pine SCA	Habitat Area	Habitat Corridor	SCA	12
Comments Stand provides habitat niche created by old age red pine in combination with younger age red pine. Stand contains excellent structural diversity with large cavity trees present along with a great deal of coarse woody debris.				



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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
1	3105 - Mixed Upland Herbaceous	Nonstocked	36.4		Unspecified	Managed Opening	Some ORV damage in the E. end, old cycle trail. Burn would need a good N wind to carry fire across areas of sparse fuels. Several old tires. Species also present are: Hawkweed/ rubus/ sheep sorrel/ Blueberry in pockets/cladonia/ st johns wort/ pussy toes/ 2 clumps of jack pine/ pockets of sedge/ spotted knap weed a @ West edge Forbs/ some quaking aspen encroachment in the SE. E end is a bowl depression. 11/5/19 - Burned first time in spring of 2010. Second burn in spring of 2019.																																												
<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>Sweet Fern</td> <td>Medium</td> <td></td> <td>Tall Shrub</td> </tr> <tr> <td>Poverty Grass</td> <td>Medium</td> <td></td> <td>Non-Wood</td> </tr> <tr> <td>Little Bluestem</td> <td>Medium</td> <td></td> <td>Non-Wood</td> </tr> <tr> <td>Bracken Fern</td> <td>Medium</td> <td></td> <td>Non-Wood</td> </tr> <tr> <td>Cladonia (Reindeer moss)</td> <td>Low</td> <td></td> <td>Non-Wood</td> </tr> <tr> <td>Red Oak</td> <td>Trace</td> <td></td> <td>Log</td> </tr> <tr> <td>Mixed Grasses</td> <td>Medium</td> <td></td> <td>Non-Wood</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td></td> <td>Pole</td> </tr> <tr> <td>Blackberry/Raspberry</td> <td>Low</td> <td></td> <td>Tall Shrub</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td></td> <td>Pole</td> </tr> </tbody> </table>								Sub-Canopy Species	Density	Avg. Height	Size	Sweet Fern	Medium		Tall Shrub	Poverty Grass	Medium		Non-Wood	Little Bluestem	Medium		Non-Wood	Bracken Fern	Medium		Non-Wood	Cladonia (Reindeer moss)	Low		Non-Wood	Red Oak	Trace		Log	Mixed Grasses	Medium		Non-Wood	Jack Pine	Low		Pole	Blackberry/Raspberry	Low		Tall Shrub	Black Cherry	Low		Pole
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Black Cherry	Low		Pole																																																
2	42110 - Planted Red Pine	Sawtimber Well	12.0	99	111-140	N/A	Stand was planted in 1925 to mix of red pine and jack pine. Stand was thinned in 1999, with red pine and white oak worked around all jack pine was cut at that time.																																												
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>8</td> <td>Log/XLog</td> <td>17</td> <td></td> <td>White Oak</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>5</td> <td>XLog/Log</td> <td>18</td> <td></td> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>80</td> <td>XLog/Log</td> <td>18</td> <td>99</td> <td>Red Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Northern Pin Oak</td> <td>7</td> <td>XLog/Log</td> <td>18</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	White Pine	8	Log/XLog	17		White Oak	Medium	Variable	Sapling	White Oak	5	XLog/Log	18		White Pine	Medium	Variable	Sapling	Red Pine	80	XLog/Log	18	99	Red Maple	Medium	10 - 20 feet	Sapling	Northern Pin Oak	7	XLog/Log	18				
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																											
White Pine	8	Log/XLog	17		White Oak	Medium	Variable	Sapling																																											
White Oak	5	XLog/Log	18		White Pine	Medium	Variable	Sapling																																											
Red Pine	80	XLog/Log	18	99	Red Maple	Medium	10 - 20 feet	Sapling																																											
Northern Pin Oak	7	XLog/Log	18																																																
3	42110 - Planted Red Pine	Sawtimber Well	20.8	83	111-140	N/A	Nice block of red pine along road to north, power line runs though stand. Stand was second thinned in 1998 with every third tree being cut. Stand was thinned again in 2009(Marked thinning).																																												
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																											
Bigtooth Aspen	2	Log	13		White Oak	Medium	5 - 10 feet	Sapling																																											
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Red Pine	95	Log	13	83	Red Pine	Low	< 5 feet	Sapling																																											
4	4130 - Aspen	Poletimber Well	14.3	34	Immature	N/A	Stand was final harvested in 1989. Came back well to aspen.																																												
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Bigtooth Aspen	90	Pole/Sapling	6	34																																															
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5	42120 - Planted Jack Pine	Poletimber Well	2.3	46	51-80	N/A	Jack pine planted in 1978. Jack pine mostly held together but has thinned itself out in a few spots.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	3205 - Mixed Upland Shrub	Nonstocked	5.2		Unspecified	No	Low density trees. Consider closing road as this leads to RDR.
		Sub-Canopy Species		Density	Avg. Height	Size	
		Poverty Grass		Medium		Non-Wood	
		Sedges		Medium		Non-Wood	
		Sweet Fern		Medium		Tall Shrub	
		Bigtooth Aspen		Trace		Pole	
		Blueberry/Bilberry/Cranberry		Medium		Tall Shrub	
		Black Cherry		Low		Pole	
		Red Oak		Low		Log	
		Black Cherry		Low		Sapling	
		Little Bluestem		Low		Non-Wood	
		Bracken Fern		Medium		Non-Wood	

7	4126 - White, Black, N. Pin Oak	Sawtimber Medium	133.1	110	51-80	N/A	Stand was last cut in 1999. At that time oak was thinned with all aspen and red maple cut by spec. White Pine mixed in stand concentrated in spots.
		Canopy Species		% Cover	Size Class	DBH	Age
		White Oak		60	Log/XLog	15	110
		White Pine		9	Log/Pole/XLog	10	
		Red Pine		1	Log	13	
		Northern Pin Oak		5	Log/XLog	15	
		Black Oak		25	XLog/Log	18	110
		Sub-Canopy Species		Density	Avg. Height	Size	
		Quaking Aspen		Low	Variable	Sapling	
		Northern Pin Oak		Medium	Variable	Sapling	
		White Pine		Medium	Variable	Sapling	This cut created a two aged stand with mature oak over a mix of a new age class of oak and red maple saplings.
		Red Maple		High	Variable	Sapling	
		White Oak		High	Variable	Sapling	
		Black Cherry		Low	5 - 10 feet	Sapling	

8	4130 - Aspen	Poletimber Well	4.5	34	51-80	N/A	Stand was final harvested in 1989. Came back well to aspen some oak and red maple mixed in.
		Canopy Species		% Cover	Size Class	DBH	Age
		Red Oak		5	Sapling/Pole	4	
		Bigtooth Aspen		90	Pole/Sapling	6	34
		Red Maple		5	Sapling/Pole	4	

9	4126 - White, Black, N. Pin Oak	Sawtimber Medium	73.5	111	51-80	N/A	Stand was cut in 1999, with oak thinned and all red maple and aspen cut by spec.
		Canopy Species		% Cover	Size Class	DBH	Age
		White Oak		55	Log	15	111
		Red Oak		33	Log/XLog	16	111
		White Pine		7	Log/Pole	15	
		Red Pine		5	Log	16	
		Sub-Canopy Species		Density	Avg. Height	Size	
		Bigtooth Aspen		Low	>20 feet	Sapling	Average quality oak with some pine scattered. Good mixed maple and oak regeneration from last harvest in 1999. Overstory stocking variable with some pockets of 80 plus basal areas to others more open with limited stocking.
		White Pine		Low	10 - 20 feet	Sapling	
		White Oak		High	Variable	Sapling	
		Red Maple		Medium	Variable	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10 330 - Low-Density Trees Nonstocked 8.9 Unspecified No Opening in shallow ravine. Could be an old frost pocket. Filling in with oak and maple along edges.

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low		Pole
Red Maple	Low		Sapling
Sweet Fern	Low		Tall Shrub
Black Cherry	Low		Sapling
Cladonia (Reindeer moss)	Trace		Non-Wood
Bracken Fern	Low		Non-Wood
Oak (spp.)	Low		
Canada Blueberry	Low		Tall Shrub
Poverty Grass	Medium		Non-Wood

11 4119 - Mixed Northern Hardwoods Sapling Well 5.4 14 Immature N/A Stand was final harvested in 2009. Was a jack pine stand. Seems like it may have been trenched. Came back well to red maple with some oak and jack pine.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	18	Sapling	2	
Jack Pine	12	Sapling	3	
White Pine	5	Sapling	4	
Red Maple	65	Sapling	3	14

12 3303 - Mixed Low Density Trees Nonstocked 10.3 Unspecified No Islands of white pine/ black cherry/ oak w/ sap- logs. makes nice cover islands esecially from Walton Rd. Other species: golden rod/ rubus/ seedlings/ forb/ hawthorn/ moss/ witch hazel/ yarrow/ harebell/ horsemint/ goatsbeard/ st johns wort.

Sub-Canopy Species	Density	Avg. Height	Size
Spotted Knapweed	Low		Non-Wood
White Pine	Medium		Pole
Jack Pine	Low		Pole
Bracken Fern	Medium		Non-Wood
Red Oak	Medium		Log
Black Cherry	Low		Pole
Little Bluestem	Medium		Non-Wood
Poverty Grass	Medium		Non-Wood
Sweet Fern	Low		Tall Shrub

13 42110 - Planted Red Pine Sawtimber Medium 245.2 96 51-80 N/A Stand planted to red and jack pine in 1927/1928

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	Log/XLog	13	
Red Pine	88	Log/XLog	17	96
White Oak	5	Log/XLog	13	
Red Oak	5	Log/XLog	15	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	>20 feet	Sapling
White Oak	High	>20 feet	Sapling
Jack Pine	Low	Variable	Sapling
Northern Pin Oak	Medium	Variable	Sapling

Majority of stand was thinned from 1999 though 2001. with red pine and white oak being left. Jack pine/red maple and mix oak were spec cut from stand.

Variable density stand dominated by red pine with scattered oak present as well as white pine. Regeneration is dense in places with oak, white pine, red maple and occasional pockets of jack pine present. Canopy closure is variable but overall seems to fall in the upper end of 50-75% stocked, sometimes higher.

One of largest contiguous blocks of red pine in the area. NCT runs along old RR grade in south end.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
14	122 - Road/Parking Lot	Nonstocked	9.2		Unspecified	No	RR Tracks, active at times.																																																		
15	4126 - White, Black, N. Pin Oak	Sawtimber Poor	17.8	103	1-50	N/A	Stand was cut last in 1991. All oak and white/red pine was left at that time. (It was a jack pine stand at time of harvest.) Created two aged stand of mixed mature oak and pine over mixed oak and pine understory.																																																		
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16	4126 - White, Black, N. Pin Oak	Sawtimber Medium	24.9	111	1-50	N/A	Majority of stand was thinned in 1999 with red pine and white oak being left. Jack pine/red maple and mix oak were spec cut from stand.																																																		
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17	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	13.8	29	Immature	N/A	Stand was final harvested in 1993. Stand was planted/seeded to jack pine in 1995. Some volunteers as well as planted stock it appears. Stand in small valley just approaching pole size.																																																		
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18	4126 - White, Black, N. Pin Oak	Sawtimber Medium	5.2	121	1-50	N/A	Landlocked little section of oak and pine. Most of red/pine oak has died or dying off white oak still hanging on well.																																																		
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19	4123 - Red Oak	Sawtimber Medium	34.9	115	51-80	N/A	Stand was planted in 1924 to red and jack pine. Oak is dominate with planted red pine more scattered.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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20 122 - Road/Parking Lot Nonstocked 1.7 0 Unspecified No County Line road and shoulder.

21 4125 - Black, N. Pin Oak Sapling Medium 21.7 5 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	5	Sapling	1	
Northern Pin Oak	58	Sapling	1	5
Red Pine	1	Sapling	1	
White Pine	15	Sapling/Pole	1	
Red Pine	6	Log/XLog	17	
White Oak	10	Sapling	1	
White Oak	5	Log	16	

Stand was thinned in 2010.
Stand was final harvested (overstory removal in 2019 with all red and white pine left along with some white oak.

After 2019 harvest came back patchy to oak and cherry. Should fill in with time to mix of oak/ cherry and white and red pine.

22 310 - Herbaceous Openland Nonstocked 2.3 0 Unspecified No Sholder and portion of county road.

23 6233 - Wet Meadow Nonstocked 12.8 Unspecified No Lake in the middle surrounded by leatherleaf bog. Jennie Lake

Sub-Canopy Species	Density	Avg. Height	Size
Sedges	Medium		Non-Wood
Leatherleaf	Medium		Tall Shrub

24 42140 - Planted Mixed Pine Sawtimber Well 7.9 97 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	5	Pole	8		Red Pine	Low	>20 feet	Pole
Black Oak	5	XLog/Log	20		Jack Pine	Low	Variable	Sapling
White Pine	45	XLog/Log	18	97	Red Maple	Medium	Variable	Sapling
Red Pine	40	Log/XLog	17	97	White Pine	Low	10 - 20 feet	Sapling
White Oak	5	XLog/Log	18					

Stand surrounding Jennie Lake - mostly on slope. Red pine was planted and not clear whether white pine was planted or natural. Either way stand is on side slope and providing buffer and shade for intermittent lake.

25 4199 - Other Mixed Upland Deciduous Sapling Medium 35.0 5 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	15	Log	15	110
White Pine	2	Log	16	
Red Oak	5	XLog/Log	19	
White Pine	10	Sapling	2	
White Oak	40	Sapling	1	5
Red Pine	2	Log	15	
Red Maple	25	Sapling	1	
Red Pine	1	Sapling	1	

Stand was final harvested in 2019 with scattered green marked oak and pine left. Small one acre block left untouched in south end.

White oak left although a few red oaks left as well. Stand regenerating well to oak and red maple with some white pine. Although most of the oak not passed browse height.

RR grade transects stand E/W.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27 4191 - Mixed Upland Deciduous with Conifer Sawtimber Medium 37.2 99 1-50 N/A

Stand was harvested last in 1991. At that time all oak and red/white pine was left. This created two aged stand. Was jack pine predominate stand at that time. As well a portion of stand was for some reason not cut during 1991 along trail.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	25	Log	13	99	Northern Pin Oak	Medium	Variable	Sapling
Quaking Aspen	5	Log	13		Jack Pine	Medium	>20 feet	Pole
Red Maple	2	Log/Pole	10		Red Maple	Medium	Variable	Sapling
White Pine	10	Log/Pole	11		White Oak	High	Variable	Sapling
Northern Pin Oak	20	XLog/Log	18		White Pine	Low	Variable	Sapling

Stand was planted to red and jack pine in 1925.

Today left with mixed oak/ pine overstory over mixed oak/ red maple and jack pine understory.

28 6229 - Mixed lowland shrub Nonstocked 0.7 0 Unspecified No

29 4126 - White, Black, N. Pin Oak Sapling Medium 40.3 5 1-50 N/A

Stand was seed tree harvested in 2019 with scattered green marked oak and pine left.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	Log/Pole	12	
White Oak	50	Sapling	1	5
White Pine	3	Log	13	
White Pine	2	Sapling	1	
Northern Pin Oak	20	Sapling	1	
Red Maple	10	Sapling	1	
White Oak	10	Log	15	

Oak came back well from this harvest. Overstory not enough to consider as primary canopy .With be mixed oak/ red maple and some pine.

30 6225 - Bog Nonstocked 4.8 Unspecified No

Jack pine snags along edges.

Sub-Canopy Species	Density	Avg. Height	Size
Leatherleaf	High		Tall Shrub
Mixed Grasses	Low		Non-Wood
Sedges	Medium		Non-Wood
Rushes	Low		Non-Wood

32 4191 - Mixed Upland Deciduous with Conifer Sapling Well 9.9 14 Immature N/A

Stand was final harvested in 2009 except red and white pine were left back along with few green marked oak.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	3	Log	14	
Northern Pin Oak	5	XLog/Log	18	
White Oak	31	Sapling	1	14
Red Maple	20	Sapling	1	14
Red Pine	1	Sapling	1	
Red Pine	8	Log	14	
Northern Pin Oak	15	Sapling	1	
White Oak	6	XLog/Log	18	
White Pine	1	Sapling	1	

Came back well to mix of oak, jack pine and red maple. Widely scattered red/white pine and oak in overstory.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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33 42110 - Planted Red Pine Sawtimber Medium 37.6 96 51-80 N/A

Stand was planted to red and jack pine in 1928.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	5	XLog/Log	18	
Red Pine	85	Log	13	96
White Pine	5	Log/XLog	17	
White Oak	5	Log	15	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
White Pine	Full	10 - 20 feet	Sapling
Northern Pin Oak	Medium	10 - 20 feet	Sapling

Stand was thinned in 1999. At that time all aspen/red maple/jack pine and black and white oak were cut. NE corner of stand slopes down to VO stand and is where the handful of white pine are mixed in.
Oak and maple came back thick in understory from 1999 harvest.

34 42110 - Planted Red Pine Sawtimber Medium 201.9 99 51-80 N/A

Stand was planted to mix of jack pine and red pine in 1925.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	8	Log/XLog	15	
Red Pine	81	Log/XLog	16	99
White Oak	8	XLog/Log	18	
Northern Pin Oak	3	XLog/Log	18	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	10 - 20 feet	Sapling
Jack Pine	Medium	10 - 20 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Northern Pin Oak	High	10 - 20 feet	Sapling
Beech	Low	5 - 10 feet	Sapling
White Oak	High	10 - 20 feet	Sapling

In 2001 red and white oak were marked to thin with all remaining species cut by spec. (This was mostly jack pine and mixed oak)
This 2001 harvest created a two aged variable stand of mostly red pine along with some mixed oak over a mixed understory of red maple/oak and jack pine. Red maple and oak are dominate in understory.
Red pine canopy widely variable from pockets of low BA to pockets of dense BA. Overall BA around 50 to 60.

Red pine stand with quite dense understory regen of oak and red maple. Scattered white pine, white oak and red oak present as well. Scattered jack pine concentrated in NW corner of stand. White pine regen present in descent numbers as well. Stands delineated out of larger area consist of seed tree areas where red pine and overstory oak are present in low numbers. Stand density/canopy closure is in the lower range of the 75-100% and has areas that are quite variable ranging from R7 to R9 with BA ranging from 30 to 120 with the average in the 70-90 range.

36 4199 - Other Mixed Upland Deciduous Sapling Well 25.4 24 1-50 N/A

Stand was cut in 2001. Today left with widely scattered oak, white pine and a few red pine over good mix of oak/ red maple and some natural pine regen. RR track was buffered from harvest.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	Sapling	3	
Quaking Aspen	3	Sapling	3	
Red Maple	10	Sapling	2	
White Pine	8	Log/XLog	17	
White Oak	15	Log/XLog	15	104
Northern Pin Oak	25	Sapling	2	
Red Pine	3	Log	14	
White Oak	30	Sapling	3	24
Northern Pin Oak	3	XLog/Log	18	
Jack Pine	1	Sapling	3	

Decided to feature understory as canopy although is a close call with amount of oak and white pine left.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
37	42110 - Planted Red Pine	Sawtimber Medium	17.3	99	51-80	N/A	Stand was planted to mix of red and jack pine in 1925.
		Canopy Species	% Cover	Size Class	DBH	Age	Stand thinned in 1999, all jack pine and red maple cut out. Stand was then shelterwood harvested (Green marked) in 2017. Shelterwood cut created two aged stand of nice red pine over mixed oak and white pine regeneration.
		White Oak	5	Log	15		
		White Pine	3	XLog/Log	18		
		Red Pine	92	Log	16	99	
		Sub-Canopy Species	Density	Avg. Height	Size		
		White Pine	Medium	Variable	Sapling		
		Northern Pin Oak	High	10 - 20 feet	Sapling		
		White Oak	Medium	10 - 20 feet	Sapling		
38	4310 - Pine, Oak Mix	Sapling Well	129.8	25	1-50	N/A	Stand was spec cut in 1999, with all jack pine and aspen cut by spec.
		Canopy Species	% Cover	Size Class	DBH	Age	Large mixed stand of oak, white pine and red pine over mixed oak, jack pine and red maple regeneration. Some legacy red and white pine in stand. Overall, a low-quality stand. Mixed stand of oak and pine - featured regen but some oak overstory exists along with scattered overstory white pine. Portions of stand could be typed as 07/8 but since this stand consisted of a single treatment decided to lump it together and as mentioned, featured regen in the sap/pole class.
		Black Cherry	5	Sapling	4		
		White Pine	4	Log/XLog	14		
		Northern Pin Oak	15	Sapling	3		
		Jack Pine	20	Sapling	4	25	
		Red Pine	4	Log/XLog	16		
		White Pine	5	Sapling	3		
		Northern Pin Oak	10	XLog/Log	20	102	
		White Oak	32	Sapling	4	25	
		Red Maple	5	Sapling	4		
39	4310 - Pine, Oak Mix	Sapling Well	62.1	30	1-50	N/A	Stand was final harvested in 1993 with all oak and red pine left scattered, was a jack pine stand previously. Scattered residual red pine and mixed oak over excellent oak and jack pine saplings. Stand nearly pole size but not quite there. Will push into pole size soon.
		Canopy Species	% Cover	Size Class	DBH	Age	Stand was originally planted to red and jack pine in 1926. Red pine left are from that original planting.
		Jack Pine	40	Sapling/Pole	4	30	
		Red Maple	5	Sapling	4		
		White Oak	5	Log	15		
		White Oak	7	Sapling	3	30	
		Northern Pin Oak	10	Log	15	100	
		Red Pine	10	Log/XLog	17		
		Northern Pin Oak	20	Sapling	3	30	
		White Pine	3	Sapling	3		
40	42110 - Planted Red Pine	Sawtimber Poor	7.4	97	1-50	N/A	Stand was planted in 1927.
		Canopy Species	% Cover	Size Class	DBH	Age	Stand was cut in 1999 with all red and white pine left at that time. All oak/jack pine/ aspen and red maple was cut by spec in 1999 harvest.
		White Pine	1	Log	14		
		Red Pine	99	Log	15	97	
		Sub-Canopy Species	Density	Avg. Height	Size		
		White Oak	High	5 - 10 feet	Sapling		
		Northern Pin Oak	Medium	5 - 10 feet	Sapling		
		White Pine	Low	10 - 20 feet	Sapling		
		Stand was then seed tree/shelterwood harvested in 2019. Creating two aged stand.					
		Stand harvested/thinned under tsale contract 063-16 in spring of 2019.					
		Following seed tree advanced oak regeneration has established in understory. Overstory red in good shape					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
44	6233 - Wet Meadow	Nonstocked	22.6		Unspecified	No	Wet meadow with significant component of woody veg. Scattered standing dead timber. Other species: Dogwood/ ferns/ iris/ hawkweed/ forbs/ bergamont.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Quaking Aspen	Trace		Sapling					
								Willow spp.	Trace							
								Tamarack	Low		Pole					
								Leatherleaf	Low		Tall Shrub					
								Sedges	High		Non-Wood					
Tag Alder	Low		Tall Shrub													
45	110 - Low Intensity Urban	Nonstocked	28.5		Unspecified	No	M-113									
47	4122 - Oak, Pine	Sawtimber Medium	45.1	97	1-50	N/A	Stand was last cut in 1999, oak and white/red pine just thinned at that time with all other trees cut by spec. This created two aged stand of mixed oak/red and white pine over mixed oak/red maple understory. Overstory not very uniform. Oak and red maple dominate in understory.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								White Oak	35	Log	14	97	Northern Pin Oak	Medium	Variable	Sapling
								White Pine	20	Log/Pole	13		Red Maple	Medium	Variable	Sapling
								Red Pine	15	Log	17		White Pine	Low	5 - 10 feet	Sapling
								Northern Pin Oak	30	Log	14		Jack Pine	Low	Variable	Sapling
													White Oak	High	Variable	Sapling
					Red Pine	Trace	< 5 feet	Sapling								
48	42110 - Planted Red Pine	Sawtimber Medium	58.7	97	51-80	N/A	Stand was planted in 1927 to red pine and jack pine. Stand was cut in 1999 with all red and white pine left at that time. All oak/jack pine/ aspen and red maple was cut by spec in 1999 harvest. This created a two aged stand of mature planted red pine over heavy oak understory, Red overstory well stocked north of two track while south of two track it is more sparse.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Pine	95	Log	14	97	Jack Pine	Low	10 - 20 feet	Sapling
								White Pine	2	Log	15		Red Maple	Low	10 - 20 feet	Sapling
								Northern Pin Oak	1	Log	14		White Oak	Full	10 - 20 feet	Sapling
White Oak	2	Log	16													
49	4310 - Pine, Oak Mix	Sawtimber Poor	143.1	113	1-50	N/A	Stand was seed tree/ shelterwood harvested in 2019 with all red pine, white pine and white oak left by spec. 2019 cut created two aged stand of white oak/ white pine along with some red pine over mixed oak/ red maple and some white pine in understory.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Red Pine	8	Log	16		White Pine	Low	5 - 10 feet	Sapling
								White Pine	34	Log/Pole/XLog	13		Northern Pin Oak	Medium	5 - 10 feet	Sapling
								White Oak	58	Log/Pole/XLog	13	113	Quaking Aspen	Low	5 - 10 feet	Sapling
													White Oak	High	5 - 10 feet	Sapling
					Red Maple	Medium	Variable	Sapling								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
50	42110 - Planted Red Pine	Sawtimber Medium	133.0	99	51-80	N/A	Stand was planted in 1924/1925 to mix of jack pine and red pine. Stand was thinned in 1999, with red pine and oak left along with some white pine. Jack pine was cut out at that time. Dirt Bike trail runs through stand.																																															
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51	4319 - Mixed Upland Forest	Sawtimber Well	5.3	102	81-110	N/A	Small side slope of mixed oak, white pine, red pine, aspen and red maple. Upland stand was avoided for some reason in harvest in stand 47. True mixed stand not one dominate species.																																															
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52	6122 - Black Spruce	Poletimber Medium	16.1	56	1-50	N/A	Mixed tamarack and black spruce bog. Not suitable for management.																																															
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53	42250 - Pine, Oak	Sawtimber Well	30.3	100	81-110	N/A	Stand was planted to red pine and jack pine in 1924. All jack pine had fallen out, now left with mature red and white pine stand with oak scattered in as well. Acts as nice buffer to lowland feature. Some Legacy white pine in stand.																																															
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54	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	44.6	100	1-50	N/A	Stand was planted to red and jack pine in 1924. Stand was thinned in 1999. With all jack pine/black oak and mixed hardwood cut at that time.																																															
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55	6233 - Wet Meadow	Nonstocked	6.1		Unspecified	No	Dead standing timber along edges. Rushes & forbs. 12/08/23 WLD: nice emergent wetland. rush spp, sedge (tussock?), leatherleaf.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
56	4310 - Pine, Oak Mix	Sawtimber Poor	25.0	85	1-50	N/A	Stand was cut in 2012. Oak was marked to cut while all jack pine was cut by spec. Heavy dieback in mature oak since harvest. With overstory oak falling out naturally since harvest, white pine seems to be taking over site. White pine has seeded in well particularly in the west side of stand. Some legacy pine along stand 44.																																																			
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59	42220 - Natural Jack Pine	Sapling Well	50.6	24	Immature	N/A	Stand was final harvested in 2000 with all white oak and white pine left and worked around. Came back well to jack pine and oak. Mature white pine left in pockets too small to map.																																																			
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60	110 - Low Intensity Urban	Nonstocked	7.3		Unspecified	No	RR Grade and highway including shoulder.																																																			
62	4310 - Pine, Oak Mix	Sapling Medium	91.8	14	1-50	N/A	Stand was more or less final harvested in 2010. Oak and red/white pine was left this is mostly concentrated in north end/ Buffer was left along motorcycle trail. Considered splitting off north end into different stand but decided to hold off for now.																																																			
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63	42290 - Natural Mixed Pine	Sawtimber Medium	13.9	103	51-80	N/A	Stand was last thinned in 2012. Mixed white pine/ red pine and oak. No planting records which would make this one of the few natural pine stands in this area. Core of stand is where nice log pine is concentrated the west edge of stand the pine begins to fall out.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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64	42220 - Natural Jack Pine	Poletimber Well	25.8	32	Immature	N/A	Stand was cut last in 1991. All oak and red pine was left at that time. (It was a jack pine stand at time of harvest.) Came back well to mix of oak and jack pine. Scattered red pine and Mature oak widely scattered.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	5	Sapling/Pole	3	
Red Pine	5	XLog	18	
Jack Pine	63	Pole/Sapling	5	32
Red Pine	10	Sapling	4	
White Pine	5	Pole	6	
White Oak	10	Sapling	3	
White Oak	2	XLog	18	

65	4126 - White, Black, N. Pin Oak	Sawtimber Medium	54.3	108	1-50	N/A	Stand was cut in 2010. All jack pine and aspen was spec cut from stand at that time. Left with poor quality mixed oak over variable oak /white pine understory. Some mortality in oak overstory, stand more put together on north end. Open in spots, stand borders old cranberry bog. Advanced oak in understory as well as oak resulting from 2010 harvest.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	Log	13	
White Oak	38	Log	14	108
White Pine	5	Log	16	
Jack Pine	2	Log	10	
Northern Pin Oak	50	Log/XLog	16	108

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	10 - 20 feet	Sapling
Northern Pin Oak	Medium	Variable	Sapling
White Pine	Medium	Variable	Sapling
White Oak	Medium	Variable	Sapling

66	42290 - Natural Mixed Pine	Poletimber Medium	25.9	61	1-50	N/A	Stand was thinned in 2010. Stand was final harvested (overstory removal in 2019 with all red and white pine left along with some white oak.) This 2019 harvest created two aged stand of variable white/red pine and white oak overstory over mixed oak and white pine regeneration. White pine overstory variable from Log to small pole size. This white pine will become dominate overstory species with time.
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Canopy Species	% Cover	Size Class	DBH	Age
White Oak	25	Log	16	
White Pine	59	Pole/Log	9	61
Red Pine	15	Log	15	
Red Oak	1	XLog/Log	18	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	< 5 feet	Pole
Northern Pin Oak	High	5 - 10 feet	Sapling
Black Cherry	Medium	5 - 10 feet	Sapling
White Oak	Low	5 - 10 feet	Sapling
Jack Pine	Low	< 5 feet	Sapling

67	110 - Low Intensity Urban	Nonstocked	8.5		Unspecified	No	RR Grade
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68	6233 - Wet Meadow	Nonstocked	57.5		Unspecified	No	Series of old dikes from cranberry farm. Waterfowl management opportunities, wild rice, nesting mounds/ boxes, potholes? Water level varies based on season.
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Sub-Canopy Species	Density	Avg. Height	Size
Swamp Laurel	Low		Tall Shrub
Cattail spp.	Low		Non-Wood
Waterlillies	Medium		Non-Wood
Willow spp.	Trace		
Sedges	High		Non-Wood



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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69	4126 - White, Black, N. Pin Oak	Poletimber Well	19.6	41	51-80	N/A	Variable stand, no evidence of recent management appears stand is example of when jack pine is allowed to fall out naturally. pockets of stand are log size but overall still many pole size oak. A few legacy red pine noted.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	Log/XLog	15	94
Jack Pine	5	Log	14	
Red Maple	5	Pole/Log	8	
Quaking Aspen	5	Pole/Log	9	
Northern Pin Oak	5	XLog/Log	19	
Northern Pin Oak	20	Pole	8	
White Oak	8	XLog	18	
Black Cherry	3	Pole	8	
White Pine	4	Log/Pole	13	
White Oak	40	Pole	8	41

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

71	500 - Water	Nonstocked	11.5		Unspecified	No	Walton Pond
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74	4126 - White, Black, N. Pin Oak	Sapling Medium	225.3	4	1-50	N/A	Overstory removal final harvest performed in 2020. Oak understory was worked around as much as possible with some scattered mature oak green marked as retention. Good mixed oak regeneration from harvest but still not passed browse height. Stand age based on regen from cut in 2020 but there is another age of advanced oak regen that was left from last harvest. Some jack pine coming in as well but will be oak stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	30	Sapling	1	
White Oak	40	Sapling	1	4
Black Cherry	5	Sapling	1	
White Oak	5	Log	15	
Red Maple	13	Sapling	1	
Jack Pine	5	Sapling	1	
Red Pine	2	Sapling/Pole/Log	1	

75	42110 - Planted Red Pine	Sawtimber Well	11.2	97	51-80	N/A	Stand was planted in 1927. Stand was thinned in 2009. (Orange marked) Solid little block of planted pine that is again not very impressive size for age, may be due to soils or being stunted at early age? Included planted red pine on south side of highway too small to keep on its own. Scattered overmature black/pin oak in stand some of which has already died.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	90	Log	13	97
Northern Pin Oak	10	Log	15	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	< 5 feet	Sapling
Northern Pin Oak	Low	< 5 feet	Sapling
White Oak	Medium	Variable	Sapling

76	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Medium	6.4	98	51-80	N/A	Stand was planted to red and jack pine in 1926. Most of jack pine fell out naturally, looks like some trees may have been cut when highway was widened. Small stand that had been avoided over the years for some reason. Similar to stand 88 some nice XL red pine in stand.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	15	Log/Pole/XLog	12	
White Oak	5	Log/XLog	14	
Red Pine	60	XLog/Log	18	98
Jack Pine	2	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
White Pine	Medium	10 - 20 feet	Sapling
Red Pine	Low	Variable	Sapling
Northern Pin Oak	High	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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77 110 - Low Intensity Urban Nonstocked 17.5 Unspecified No US-131

79 42220 - Natural Jack Pine Poletimber Well 84.8 45 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	3	Log/Pole	13	
Black Cherry	5	Pole	7	
White Oak	10	Log/Pole/XLog	15	
Northern Pin Oak	12	Log/XLog	17	
Jack Pine	68	Pole	8	45
Red Pine	2	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	5 - 10 feet	Sapling
Jack Pine	Low	Variable	Sapling
White Oak	Medium	Variable	Sapling
Northern Pin Oak	Low	Variable	Sapling

Stand was last cut in 1979 with all jack pine cut at that time with oak and red pine worked around. Came back well to jack pine naturally with oak coming in as well.

Overall jack pine holding together. Stand currently breaks up large oak final harvest from last entry.

81 4310 - Pine, Oak Mix Sapling Well 86.7 7 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	1	Sapling	1	
Northern Pin Oak	13	Sapling	1	
White Pine	10	Log	11	
Red Pine	5	Log/XLog	16	
White Pine	15	Sapling	2	
Black Cherry	5	Sapling	1	
White Oak	38	Sapling	1	7
White Oak	12	Log	12	102
Red Pine	1	Sapling	1	

Stand was harvested in spring of 2017 with scattered white oak, red pine and white pine left. Created two aged stand. Small triangle in NW corner of stand was left out of sale but too small to map on its own. (Similar stand not worth typing on its own)

Oak and white pine seeded in well from 2017 harvest. Scattered oak and pine left from 2017 harvest widely scattered and not worth going after at this time.

This is a difficult stand to type, decision to feature sapling layer as stand age although oak and pine left is significant in spots.

82 4310 - Pine, Oak Mix Sapling Well 19.2 12 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	30	Sapling	1	12
White Oak	1	Log	15	114
Red Pine	2	Log	15	
Jack Pine	55	Sapling	2	12
Northern Pin Oak	12	Log	13	

Low quality stand was more or less final harvested in 2012 with scattered oak and a few red pine left. Jack pine and oak came in well following harvest. Oak in overstory not enough to be considered for primary stand age. Power line runs through stand.

83 42110 - Planted Red Pine Sawtimber Medium 13.5 95 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	5	XLog/Log	18	
Red Pine	92	Log/XLog	16	95
White Oak	3	Log/XLog	17	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Medium	10 - 20 feet	Sapling
White Pine	Low	Variable	Sapling
White Oak	Medium	Variable	Sapling

Stand was thinned in 1999 with all jack pine cut by spec and red pine marked. Old RR grade runs down middle of stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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84	4126 - White, Black, N. Pin Oak	Sapling Well	43.0	32	Immature	N/A	Stand was spec harvested in 1991 was previously labeled a jack pine stand. All red pine and white oak left. West of two track was not included in sale but lumped in with this stand due to small size. Created two aged stand, close to featuring log trees left from 1991 cut as overstory but sided with featuring sapling as overstory. Red/pin oak of such poor quality better having it die out naturally.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine	5	Log	12				
Red Pine	5	Log/XLog	16				
White Oak	5	Log/XLog	15				
White Oak	30	Sapling	4	32			
Northern Pin Oak	5	Log/XLog	16				
Black Cherry	4	Sapling/Pole	4	32			
Jack Pine	10	Sapling/Pole	4	32			
White Pine	3	Sapling	3	32			
Northern Pin Oak	30	Sapling	3	32			
Red Maple	3	Sapling/Pole	3				

85	4310 - Pine, Oak Mix	Poletimber Well	41.3	45	1-50	N/A	Stand was cut in 1979 with all oak left at that time. Came back well to mix of oak and jack pine. Mixed stand consisting of dense oak and jack pine regeneration throughout, more oak concentrated in eastern position of stand. Majority of overstory which is low density where present is located along southern and eastern edge of stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine	5	Log/XLog	14				
White Oak	20	Pole	5	45			
Red Pine	2	Sapling	4				
Red Maple	3	Pole/Sapling	5				
Jack Pine	30	Pole/Sapling	6	45			
Northern Pin Oak	20	Pole	5				
White Pine	5	Pole/Sap/Log	5				
Northern Pin Oak	5	XLog	20				
White Oak	10	XLog	18				

86	42220 - Natural Jack Pine	Poletimber Well	30.7	45	51-80	N/A	Stand was last cut in 1979 with all jack pine cut at that time with oak and red pine worked around. Came back well to jack pine naturally. Solid stocked jack pine stand in good shape. Not showing signs of falling apart yet.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine	1	XLog/Log	18				
White Oak	5	Log/Pole	12				
Jack Pine	88	Pole	8	45			
Red Pine	1	Log/Pole	12				
Black Cherry	4	Pole	7				
Northern Pin Oak	1	Log	14				
Sub-Canopy Species		Density	Avg. Height	Size			
Jack Pine	Low	5 - 10 feet	Sapling				
White Pine	Low	< 5 feet	Sapling				
Northern Pin Oak	Low	5 - 10 feet	Sapling				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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87	4199 - Other Mixed Upland Deciduous	Sapling Well	7.7	24	Immature	N/A	Appears this strip along RR tracks was final harvested in 1999 when large stand to south was thinned. Came back to mix of aspen, oak and red maple. Stand approaching pole size in spots.
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Canopy Species	% Cover	Size Class	DBH	Age
White Oak	30	Sapling	3	24
White Pine	2	Pole	6	
Red Pine	5	Pole/Sap/Log	8	
Jack Pine	5	Sapling/Pole	4	
Quaking Aspen	20	Sapling/Pole	4	24
Red Oak	7	Sapling	3	
Northern Pin Oak	1	Log	16	
Red Maple	30	Sapling/Pole	4	24

88	42110 - Planted Red Pine	Sawtimber Medium	24.5	98	51-80	N/A	Majority of stand was thinned in 2000 with all jack pine spec cut as well as marked trees. Stand was thinned again in 2011. Overstory red pine variable stocking with some nice, oversized XL red pine. No records of planted red pine only jack pine in 1926.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	13	Log	13	
White Pine	12	Log/Pole	13	
Red Pine	70	XLog/Log	18	98
White Oak	5	Log/XLog	15	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Jack Pine	Low	Variable	Sapling
Red Pine	Low	10 - 20 feet	Sapling
Northern Pin Oak	Medium	Variable	Sapling
White Oak	Medium	Variable	Sapling
White Pine	Medium	Variable	Sapling

89	4126 - White, Black, N. Pin Oak	Sawtimber Well	77.2	115	51-80	N/A	West portion of stand was thinned cut in 1999. Any red pine, white oak and white pine was left at that time. East half of stand has not been thinned but is very similar in cover type so it was lumped together. Some jack pine still holding on but most had fallen out.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	5	Log	14	
Jack Pine	5	Log/Pole	10	
White Oak	76	Log/Pole/XLog	15	115
Quaking Aspen	2	Log	13	
White Pine	5	Log/Pole/XLog	12	
Red Pine	7	Log/XLog	17	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	5 - 10 feet	Sapling
Red Pine	Low	5 - 10 feet	Sapling
White Oak	High	5 - 10 feet	Sapling
White Pine	Medium	Variable	Sapling

91	42110 - Planted Red Pine	Sawtimber Medium	59.1	99	51-80	N/A	Planted to red pine and jack pine in 1925. Stand cut in 2012 mostly jack pine was cut along with some oak and pine. Red pine worked left for most part. Poor soils, red pine not very impressive for age. Oak overstory concentrated in west border. Understory variable with pockets of heavy oak and jack pine regeneration and others being relatively open.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	3	Log/Pole	13	
Northern Pin Oak	5	Log	14	
Red Pine	87	Log	15	99
White Oak	5	Log/Pole	14	

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Medium	5 - 10 feet	Sapling
White Pine	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling
Black Cherry	Low	< 5 feet	Sapling
Jack Pine	Low	< 5 feet	Sapling
White Oak	Low	5 - 10 feet	Sapling
Red Pine	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
92	4310 - Pine, Oak Mix	Sapling Well	123.9	14	1-50	N/A	Stand was cut in 2009. All jack pine was cut leaving scattered oak. Created two aged stand. Came back well to mixed jack pine and oak. Scattered overstory primarily white oak, not enough to be considered as primary stand.																																																																								
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White Pine	2	Log	12																																																																												
Jack Pine	32	Sapling	2	14																																																																											
93	4310 - Pine, Oak Mix	Sawtimber Well	5.2	102	81-110	N/A	Mixed stand along flooding edge. Some lowland character along edge but mostly upland buffer to water feature. Old RR grade crosses lowland feature. Beaver activity in stand. Some legacy pine present.																																																																								
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94	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Medium	11.0	97	1-50	N/A	Old buffer strip that was harvested in 2017 all red pine and white was left along with most of the white oak. Borders powerline and highway. Stand was originally planted to Red pine planted in 1927. 2017 harvest created two aged stand of mature white oak and scattered red pine over mixed oak and red maple.																																																																								
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					Red Maple	Low	5 - 10 feet	Sapling																																																																							
95	3303 - Mixed Low Density Trees	Nonstocked	2.1		Unspecified		Old well site.																																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
96	4310 - Pine, Oak Mix	Sapling Well	26.8	24	1-50	N/A	Stand was cut in 2000... All trees were cut except most of the mature oak was left at that time. This created two aged stand with mature oak left scattered in overstory. Stand came back well to mixed oak and jack pine. Overstory oak has declined and even fallen out in spots. Will form good future snags.																																													
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97	4126 - White, Black, N. Pin Oak	Sapling Well	42.4	7	1-50	N/A	Stand was seed tree cut in 2017 leaving scattered white oak with retention islands left as well in north end. Stand was potentially burned but no records were found. Following harvest oak sprouted well with scattered oak left not enough to be considered primary overstory.																																													
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Canopy Species	% Cover	Size Class	DBH	Age																																																
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Red Maple	5	Sapling	1																																																	
Black Cherry	2	Sapling	1																																																	
White Pine	3	Pole	8																																																	
Northern Pin Oak	50	Sapling	1	7																																																
99	4126 - White, Black, N. Pin Oak	Sapling Well	12.9	7	1-50	N/A	Stand was cut in 2016 with scattered white pine and white oak left. Was oak wilt area of concern. Came back well to oak and red maple. Oak left not worth going back after at this time.																																													
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Red Maple	18	Sapling	1																																																	
White Pine	1	Sapling	1																																																	
Northern Pin Oak	40	Sapling	1	7																																																
101	42110 - Planted Red Pine	Sapling Medium	39.8	4	Immature	N/A	Stand was final harvested in 2018. Trenched in 2019 and then planted to red pine in 2020. 11/9/2021 - Year 1 regeneration survey completed. Stand has approximately 913 trees per acre. Stand is free to grow at this time no herbicide treatment is currently recommended. Three year regen check attached above, came back successful. Stand was planted on 4/29/2021. Next step of 1 year regen check applied on 6/15/2021. Red pine stand, final harvested in spring of 2018. FTP - C61-718																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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102	4122 - Oak, Pine	Sawtimber Medium	5.7	99	1-50	N/A	Mixed oak and pine stand utilized as long term retention for stand 101 to north. Red pine/oak retention area, attached to adjacent stand 101 along snowmobile trail corridor.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	50	Log/XLog	15	99	White Pine	Medium	Variable	Sapling
Red Pine	8	Log	15		Northern Pin Oak	High	Variable	Sapling
Jack Pine	5	Pole/Log	8		Jack Pine	Low	Variable	Sapling
White Oak	12	Log	14					
White Pine	25	Log/Pole	11					

103	42110 - Planted Red Pine	Sawtimber Poor	23.6	100	1-50	N/A	Stand was planted to mix of red and jack pine in 1924. Stand was thinned in 1999 with all white pine, black oak, jack pine, red maple cut by spec. Stand was then seed tree harvested in 2017. SEED TREE created two aged stand of scattered planted red pine over mixed oak regeneration. Oak came in well for most part a little open in south end.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	3	Log/XLog	16		White Oak	Medium	10 - 20 feet	Sapling
Red Pine	91	Log	15	100	Northern Pin Oak	High	10 - 20 feet	Sapling
White Pine	1	Log	12		Red Maple	Low	10 - 20 feet	Sapling
White Oak	5	Log/Pole	16		Black Cherry	Low	5 - 10 feet	Sapling
					White Pine	Medium	Variable	Pole

104	4126 - White, Black, N. Pin Oak	Sawtimber Poor	20.7	110	1-50	N/A	Open stand with limited understory. Very poor soil and in sort of frost pocket. This stand comprises the "open grown" portion of the parent stand 97. This series of open grassy habitat with scattered shrubs and trees was burned as part of a barrens management burn in 2008. Variability in terms of stocking throughout stand, some open areas along with some more dense oak pockets. Pine component within stand exists mainly in north central portion of stand as well as along western edge and near RR ROW. East 1/2 of stand a bit more open grown.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	20	Log	15	110	White Oak	Low	Variable	Sapling
Red Pine	5	Log	12		Quaking Aspen	Low	Variable	Pole
Black Cherry	5	Log/Pole	12		White Pine	Low	5 - 10 feet	Sapling
White Pine	5	Pole/Log/Sap	8		Red Maple	Low	5 - 10 feet	Sapling
Red Maple	10	Pole	7					
Northern Pin Oak	55	Log/Pole	13	110				

106	4126 - White, Black, N. Pin Oak	Sawtimber Medium	24.3	99	1-50	N/A	Stand was cut in 2000. All oak and red pine was left scattered. This created two aged stand. Overstory is comprised of mostly pin oak/white oak with some red pine in south end. Old RR grade and power line cross bottom portion of stand. Full advanced oak understory has developed from 2000 harvest with overstory oak declining particularly the pin oak.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	8	Log/Pole	13		Jack Pine	Low	10 - 20 feet	Sapling
Northern Pin Oak	54	XLog/Log	18	99	White Oak	Medium	10 - 20 feet	Sapling
White Oak	38	Log/XLog	14	99	Northern Pin Oak	High	10 - 20 feet	Sapling
					White Pine	Low	Variable	Sapling
					Black Cherry	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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107 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 24.1 103 81-110 N/A

Mixed stand of oak, pine, aspen, jack pine and some red maple. Some legacy red and white pine scattered in stand. No history of recent management. RR track splits stand. Oak mortality in south end of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	20	Log/XLog	15	103
Jack Pine	5	Log	10	
Quaking Aspen	15	Log	12	
Red Maple	10	Log/Pole	12	
White Oak	20	XLog/Log	18	
White Pine	15	Log/XLog	15	
Red Pine	15	Log/Pole/XLog	13	

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