

Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61041

Entry Year: 2027

Acreage: 3,222

County: Grand Traverse

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Joe Ventimiglia

Legal Description:

T27N - R09W - Sec. 7, 8, 9, 10, 15, 16, 17, 18

Identified Planning Goals:

This compartment is within the Kalkaska Sandy Moraines. Vegetation management in this (MA) will provide various forest products; maintain or enhance wildlife habitat; protect areas of unique character and threatened, endangered and special concern species; and provide for forest-based recreational uses. Three main management objectives identified for this management area for this 10-year planning period include: (1)improving the age-class structure of aspen. , (2) regenerating oak, (3) the continuation of management through selection or restarting harvests of red pine and upland hardwood communities. This compartment falls within land-type associations 1111 and 1122 of sub-subsection VII.5.1. LTA 1111, which occurs in the southwestern two-thirds of the compartment, is characterized by steep broken moraine ridges, few kettle lakes, and excessively drained sandy soil. The circa 1800 vegetation of LTA 1111 was American beech/sugar maple and white pine/beech/red maple forests. MIRIS current land cover maps show LTA 1111 to be dominated by aspen/birch, hardwood, and conifer woodlands. LTA 1122, which occurs in the northeastern portion of the compartment, is characterized by steep broken moraine ridges and well drained loamy sand and sandy loam. Circa 1800, LTA 1122 was characterized by American beech/sugar maple forests. LTA 1122 is presently characterized by cropland and Northern hardwood forests. Several management concerns were identified in this re-inventory process. Several mature jack pine stands remain that have shown poor growth and form on these soils. In addition, they have moderate storm damage and mortality. Most of this acreage will be prescribed for final harvest and re-planting to red pine. In addition some previously harvested jack pine stands have robust jack pine regeneration, but due to this specie's poor performance on these soils it is recommended that these stands be chopped and re-planted to red pine. Hardwood stands in this compartment have been thinned in the past with little success at recruiting new age classes of desirable species in the understory. This is likely due to selective deer browsing on desirable species, (oak and northern hardwoods), which was noted in inventory. Most stands have moderate to heavy ironwood and beech understory at this time. A number of possible oak wilt infection centers have been identified in this compartment. They will be evaluated and a determination of treatment options will be made. If necessary, red oak salvage harvests will be prescribed in these stands. Red oak found in this compartment is of high quality but the ability to regenerate oak by sprouting or seeding seem to be very limited due to browsing concerns and the beech and ironwood seed bank. Several red pine stands were also identified that have moderate beech and ironwood understory and poor northern hardwood seedling recruitment. It is recommended that these stands are harvested and re-planted to red pine to build the soil potential on these sites. Many of these pine stands were originally planted on agricultural fields with depleted soils. Some remnant Christmas Tree fields and Scotch Pine stands were found in Section 7. An effort should be made to eliminate this Scotch Pine seed source as it is very invasive on these soils. Wildlife habitat management objectives include increasing the structural complexity of upland hardwood communities for forest interior species; perpetuating early-successional communities for young-forest-dependent species, hunting and other wildlife-related recreation opportunities; maintaining soft and hard mast sources including oak. Expected trends within this 10-year planning period are: increased recreational pressure, especially on established trails; increased oil and gas development; issues with introduced pests and diseases, especially beech bark disease oak wilt and emerald ash borer; an increased need to regenerate oak and red pin

Soil and topography:

Rubicon sands. Compartment is slightly rolling to rolling.

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

Scattered State – Private ownership within and around the comp. Heavy residential development occurring around comp. This area receives heavy recreational use throughout the year from skiers, bikers, hikers and hunters.

Unique Natural Features:

Bogs in Sec. 8

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Visual and BMP considerations along all lakes, bogs, marshes, streams and recreational trails.

Watershed and Fisheries Considerations:

This compartment contains both Acme Creek and Follet Creek, which is a tributary to Williamsburg Creek. Follet Creek supports a naturally reproducing brook trout population. Acme Creek is a designated trout stream that supports naturally reproducing brown trout, rainbow trout, brook trout, coho salmon and Chinook salmon. Reasonable buffers (as outlined in Water Quality Management Practices on Forest Land) should be adhered to around all streams in this compartment. Existing buffers appear to be appropriate for the proposed treatments.

Wildlife Habitat Considerations:

The SW half of the compartment lies on a steep moraine ridge (LTA 1111). Soils are sandy and excessively drained. Within this compartment, aspen stands, northern hardwoods, red pine plantations, and forested openings are located on this LTA type. The NE portion of Compartment 41 consists of a moraine ridge with well drained loamy sands (LTA 1122). Habitat types are similar to those of LTA 1111. The State Threatened Northern Goshawk (*Accipiter atricapillus*) is known to frequent this portion of State Forest. All timber sales should include specs in case goshawks and/or stick nests are found. Ruffed grouse use different aged aspen throughout their life cycle. Younger stands provide cover while older stands provide catkins (food source) for the winter months. Within each compartment, clear cutting helps facilitate different sized aspen trees by mimicking the necessary disturbance vital for regeneration. The inclusion of coarse woody debris (CWD) for drumming logs and maintaining berry-producing shrubs is also desirable. Wildlife considerations for northern hardwood stands involve maintaining tree species diversification, the inclusion of den/nesting trees & snags, CWD, and maintaining a scattering of mast-producing trees/shrubs. This will insure use by many species of wildlife. Examples of species include scarlet tanager, raccoon, broad-winged hawk, wild turkey, and white-tailed deer. Many wildlife species rely on small forest openings. These openings provide grassy nest sites, plentiful seeds and insects, and cover. Examples of species include northern flicker, eastern chipmunk, and blue racer. Hand felling with chainsaws may be needed to maintain this forest edge habitat.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of coarse-textured till. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift are the Late Devonian Antrim Shale and Ellsworth Shale and the Mississippian Sunbury Shale and Coldwater Shale. Some of these units are quarried for cement products. A gravel pit is located just west of the compartment, in the NE¼ of Section 12, and there should be potential within the compartment. This area is located along the north edge of the prolific Niagaran reef trend and has had minor previous production from Niagaran reefs and the Antrim Shale. Most of the compartment is leased for oil and gas exploration and development. Additional reefs could be found in the compartment or the Antrim Shale may be developed in this area.

Vehicle Access:

See roads layer for details on road network.

Survey Needs:

Recreational Facilities and Opportunities:

A section of the Vasa non-motorized pathway is located in the SW corner of this compartment, and a short section of Snowmobile Trail #55 (Boardman Valley Snowmobile Trail) is located in the SE corner of this compartment. Trail protection specifications should be included in any timber sale impacting these recreational facilities. Specifically, measures identified in DNR Policy & Procedures "32.22XX Best Management Practices for Forest and Wildlife Management Adjacent to Recreational Trails" should be adhered to. Fishing and hunting are also popular within this compartment (T.M.N. 12/9/14).

Fire Protection:

: This area is protected by Grand Traverse Fire Dept. Battalion # 3, and DNR protection is from the Traverse City Field Office. Access is acceptable. There is not a lot of recent wildfire in this compartment. Fires that have occurred have been fairly small. It is mostly hardwood, with some scattered pine. There is quite a bit of residential activity occurring around this compartment, so Urban Interface issues could be a problem in the future.

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: 61041
T27N R09W 07-10, 15-18
County: Grand Traverse
Unit: Traverse City
Mgmt. Area: Kalkaska Sandy Moraines
YOE: 2027
Acres: 3,222 GIS Calculated
Examiner: Joe Ventimiglia
Date Exported: 7/1/2025
Map Phase: Web Post



0 0.5 1 Miles

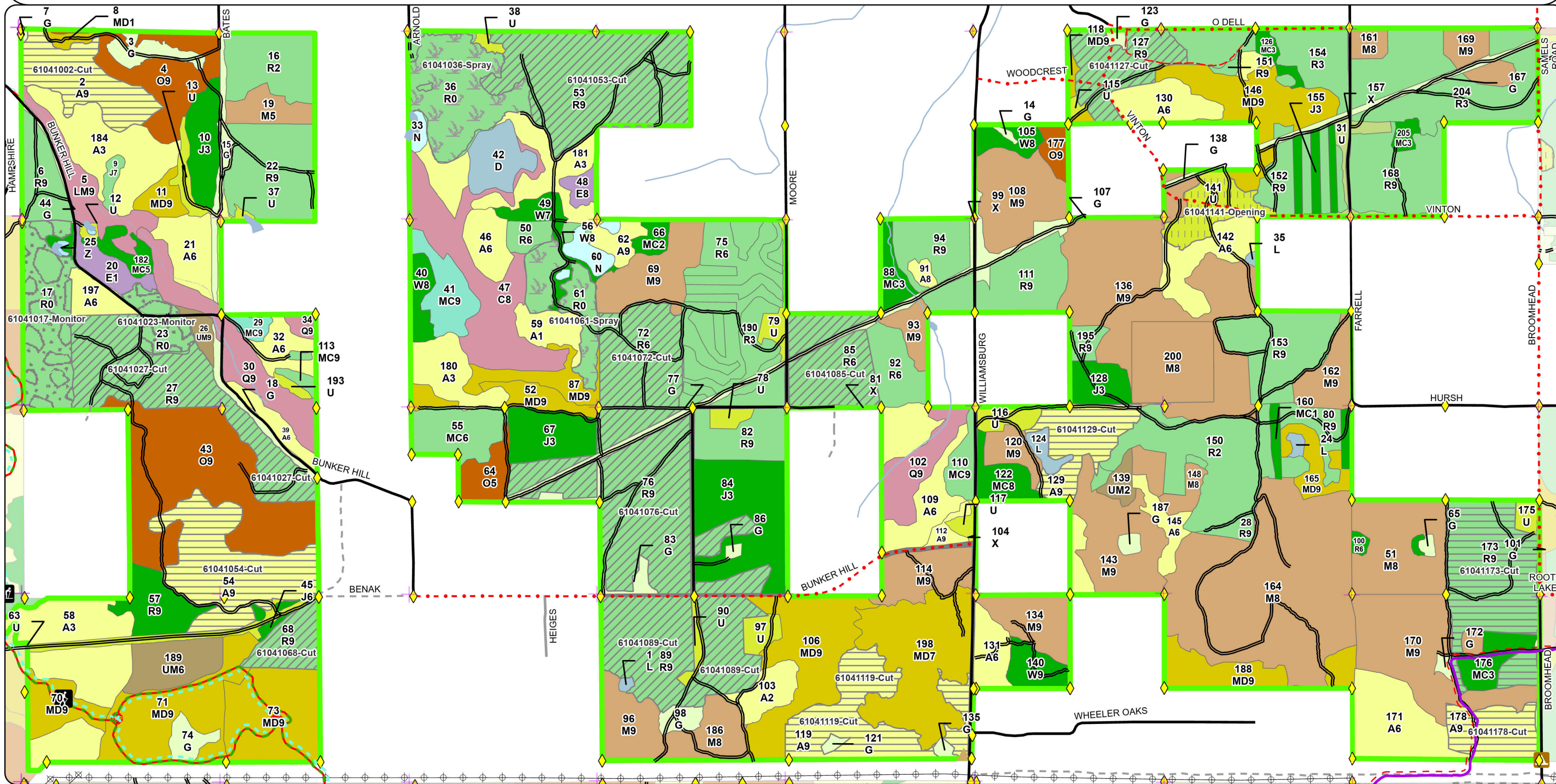
- Remonumented Section Corners
- Survey Grade Corners
- Berms
- Campground
- Sign
- Designated Bicycle Trails
- Designated ORV Routes
- DNR - Secondary Forest Road








- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers

- Counties
- Powerline
- Compartment Boundary
- Clearcut
- Thinning
- Pesticide
- Openings Mgmt.
- Monitoring - Regeneration
- 411 - Northern Hardwood






- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest

- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Herbaceous Openland



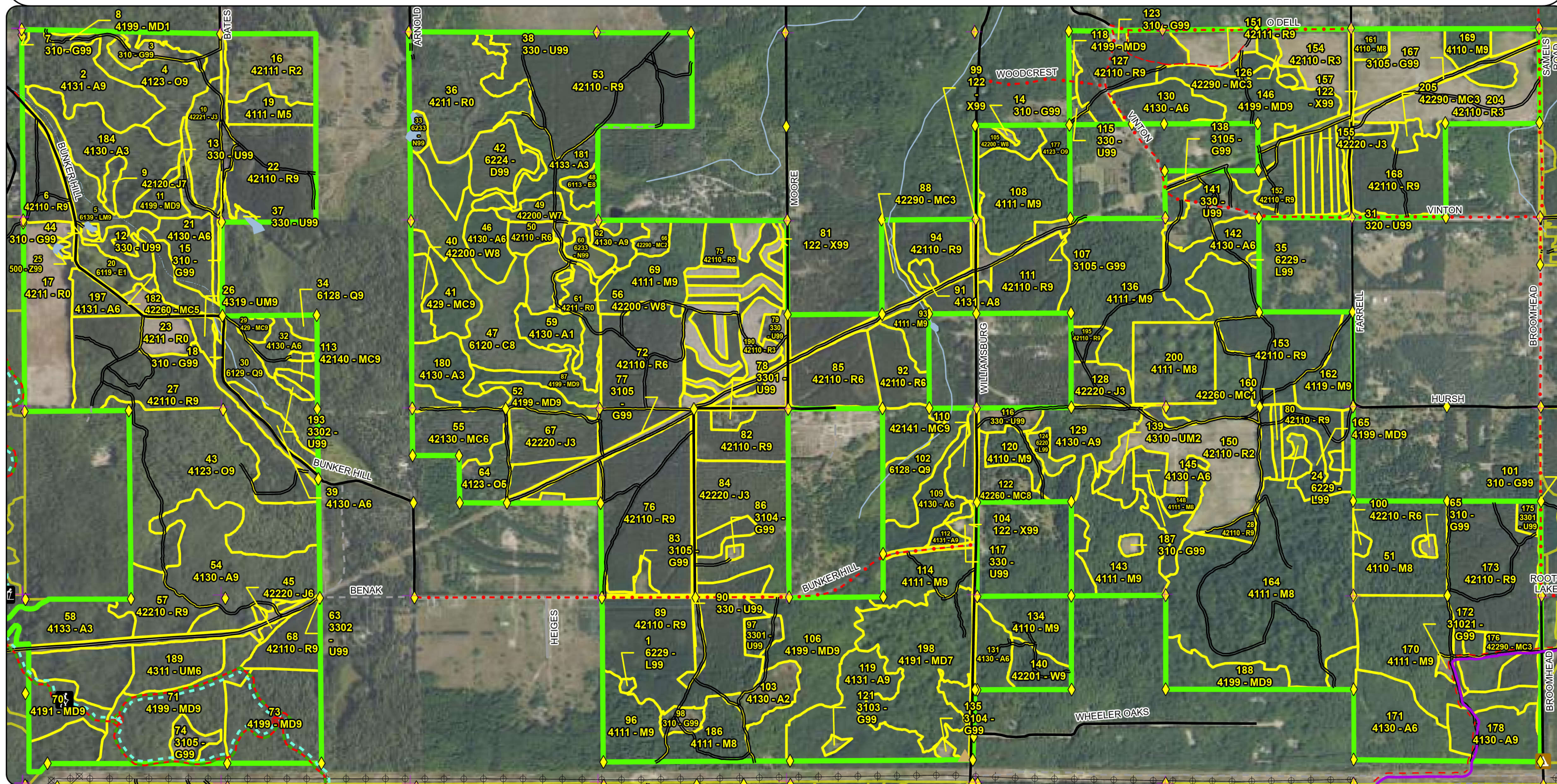
-  Remonumented Section Corners
-  Survey Grade Corners
-  Berms
-  Campground
-  Sign
-  Designated Bicycle Trails
-  Designated ORV Routes

-  DNR - Secondary Forest Road
 DNR - Forest Access Route
 Federal / State / County - Paved Road
 County - Gravel Road
 County - Dirt Road (Seasonal)
 Private - Paved Road
 Private - Dirt / Gravel Road
 Intermittent Stream







-  Perennial River
 Lakes and Rivers
 Counties
 Powerline
 Compartment Boundary
 411 - Northern Hardwood
 412 - Oak Types
 413 - Aspen

- 419 - Mixed Upland Deciduous
421 - Planted Pines
422 - Natural Pines
429 - Mixed Upland Conifers
430 - Upland Mixed Forest
500 - Water
611 - Lowland Deciduous Forest
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- 613 - Lowland Mixed Forest
122 - Road/Parking Lot
310 - Herbaceous Openland
320 - Upland Shrub
330 - Low Density Trees
622 - Lowland Shrub
623 - Emergent Wetland
Herbaceous Openland








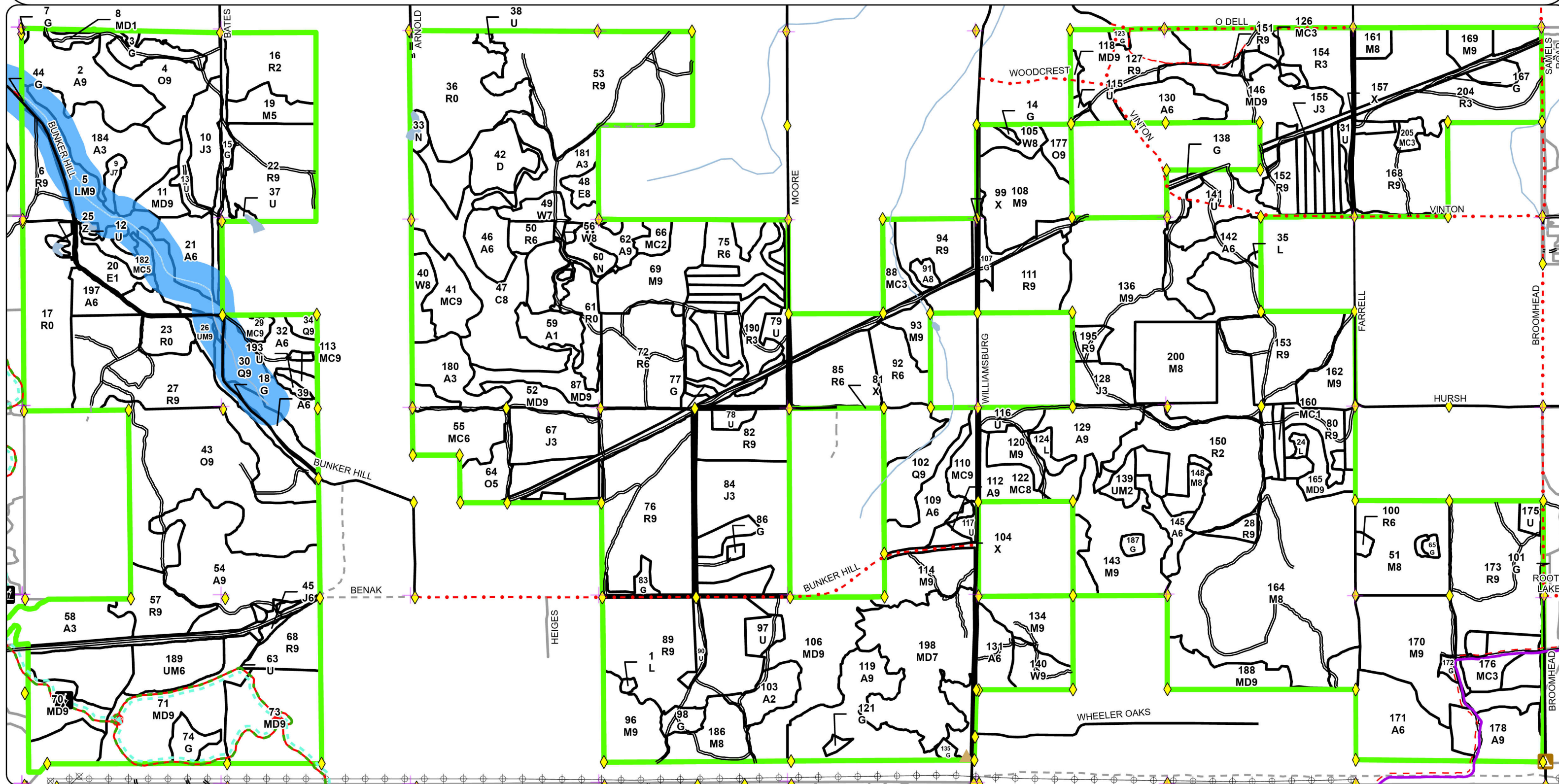
A horizontal scale bar with a black border. It is divided into four segments by three vertical lines. The first segment is black, the second is white, the third is black, and the fourth is white. Above the bar, the numbers 0, 0.5, and 1 are positioned at the first, second, and third vertical lines respectively. To the right of the bar, the word "Miles" is written.

-  Remonumented Section Corners
-  Survey Grade Corners
-  Berms
-  Campground
-  Sign
-  Designated Bicycle Trails

- ==** Designated ORV Routes
- ===** DNR - Secondary Forest Road
- ====** DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - -** County - Gravel Road
- - - -** County - Dirt Road (Seasonal)

- Private - Paved Road
- - - Private - Dirt / Gravel Road
- · - · - Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties

-  Powerline
-  Compartment Boundary
-  Stand Boundaries
-  Cold Water Streams
-  High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class

	Age Class																		Total
	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+	Unseen-Aged	
Aspen	0	21	124	30	99	43	88	98	4	10	0	0	0	0	0	0	0	0	516
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	48
Herbaceous Openland	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87
Jack Pine	0	0	89	12	0	0	0	3	0	0	0	0	0	0	0	0	0	0	104
Low-Density Trees	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	32	18	0	0	0	0	0	50
Lowland Deciduous	0	0	9	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	13
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	18
Lowland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Marsh	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	0	0	0	3	0	0	0	0	0	50	86	40	66	53	0	0	0	0	298
Natural Mixed Pines	0	0	30	16	0	0	0	0	0	0	10	0	0	0	0	0	0	0	54
Northern Hardwood	0	0	0	0	0	0	0	0	5	11	0	305	242	0	0	0	0	0	563
Oak	0	0	0	0	0	0	0	11	0	0	0	30	88	0	0	0	0	0	129
Planted Mixed Pines	0	0	0	0	0	20	3	0	0	0	7	0	0	0	0	0	0	0	30
Red Pine	119	196	0	53	0	0	0	496	218	17	0	0	0	0	0	0	0	0	1098
Treed Bog	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Upland Conifers	0	0	0	0	0	0	4	0	0	0	0	16	0	0	0	0	0	0	20
Upland Mixed Forest	0	0	0	5	0	18	0	4	0	0	0	0	0	0	0	0	0	0	27
Upland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Urban	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	0	0	0	18	18	0	0	0	0	0	0	0	0	0	35
Total	336	217	252	119	99	81	95	630	245	110	103	423	462	53	0	0	0	0	3220

Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 41
Total Compartment Acres: 3,222

Commercial Harvest - 801
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	Oversory Removal	Salvage	Other	Total Acres
Aspen	174	0	0	0	0	0	0	0	0	174
Red Pine	58	0	0	0	0	413	0	0	0	471
Total	232	0	0	0	0	413	0	0	0	646

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	646	0	0	0	0	63	53	0	0	779
Next Step	0	0	63	0	0	0	279	0	0	342
Total	646	0	63	0	0	63	332	0	0	1121

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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:

76 61041076-Cut	93.0	42110 - Planted Red Pine	9	66	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Perform marked low thinning. Take roughly a third of the volume focusing on suppressed and poorest form first then mark for spacing. Any dieback pockets should be cleaned up by marking all the trees within pocket as well as stressed trees on edges of pockets. Target BA of 90 to 100.

Next Step
Treatments:

Acceptable
Regen:

Other If forest health advises use HRD spec. At this time not a concern.
Comment:

Site Condition:

Proposed Start Date: 10/01/2026

27 61041027-Cut	63.3	42110 - Planted Red Pine	9	73	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Perform low thinning taking roughly a third of volume. Focus on spacing and taking out suppressed and poorer quality trees first. Only take poorer form oak needed for access. Target BA 80 to 90.

Next Step
Treatments:

Acceptable
Regen:

Other Use oak wilt spec. One small area is too steep and be avoided using red line. Close any illegal two tracks with sale. This should be last thinning in this stand. This stand could be replanted or pushed to mixed maple and oak down the road.
Comment:

Site Condition:

Proposed Start Date: 10/01/2026

53 61041053-Cut	80.7	42110 - Planted Red Pine	9	70	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Perform marked low thinning taking roughly a third of volume. Focus on spacing and taking out poorest form and suppressed first. Target BA 80 to 100.

Next Step
Treatments:

Acceptable
Regen:

Other This will be third thinning on stand. Last thinning was not marked and instead was every third tree. Access is best through private but access through State is possible with some road work. HRD if needed.
Comment:

Site Condition:

Proposed Start Date: 10/01/2026

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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
54 61041054-Cut	54.1	4130 - Aspen	9	66	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest. Leave all red and white pine. As well leave retention island 3 to 5 percent of acreage. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen primary mixed pine and oak accepted as well. <u>Regen:</u> <u>Other</u> Protect MSU oak research project which is taking place in stand 43. (Should not be issue just take care when doing red line) Road work will <u>Comment:</u> be needed off bunker hill road. Use oak wilt spec with exceptions. Add grouse spec. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
2 61041002-Cut	30.2	4131 - Aspen, Oak	9	58	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
<u>Prescription</u> Final harvest leaving all red and white pine. As well leave retention pocket at foresters discretion. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen primary with oak, maple and white pine accepted as well. <u>Regen:</u> <u>Other</u> Use oak wilt spec. Logger will either need to improve road to get log trucks up hill or skid to landing in opening to east. Add grouse spec. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
72 61041072-Cut	36.8	42110 - Planted Red Pine	6	67	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Perform marked low thinning. Take roughly a third of the volume focusing on suppressed and poorest form first then mark for spacing. Any <u>Specs:</u> dieback pockets should cleaned up by marking all the trees within pocket as well as stressed trees on edges of pockets. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Look at HRD viewer at time of set up to see if HRD spec is needed. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
178 61041178-Cut	20.7	4130 - Aspen	9	56	51-80	Harvest	Clearcut	4136 - Aspen, Mixed Conifer	Planting Record	No
<u>Prescription</u> Final harvest. Leave all white pine and red pine over 12 inches in diameter. As well leave retention island 3 percent of total acreage. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Aspen primary with mix of white pine, oak and red maple. <u>Regen:</u> <u>Other</u> Protect snow trail. Cut stumps flush along trail. Corners in. Add grouse spec. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
85 61041085-Cut	33.0	42110 - Planted Red Pine	6	67	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Perform marked low thinning. Take roughly a third of the volume focusing on suppressed and poorest form first then mark for spacing. Any <u>Specs:</u> dieback pockets should be cleaned up by marking all the trees within pocket as well as stressed trees on edges of pockets. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> If warranted use HRD spec. Be mindful of slopes. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
89 61041089-Cut	63.0	42110 - Planted Red Pine	9	66	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Perform marked low thinning. Take roughly a third of the volume focusing on suppressed and poorest form first then mark for spacing. Any <u>Specs:</u> dieback pockets should be cleaned up by marking all the trees within pocket as well as stressed trees on edges of pockets. Target BA of 90 to 100. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Use HRD spec if requested by forest health specialist. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
119 61041119-Cut	43.7	4131 - Aspen, Oak	9	61	81-110	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	No
<u>Prescription</u> Final harvest stand. Leave retention pocket or edge 3 to 5 percent of total acreage. As well leave all white oak and all red and white pine <u>Specs:</u> over 12 inches in diameter. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen primary with mix of pine and oak as accepted as well. <u>Regen:</u> <u>Other</u> Use caution on steep slopes and include in retention if needed. Map retention in MIFI. Access from east off old well pad. Add grouse spec. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
127 61041127-Cut	28.7	42110 - Planted Red Pine	9	66	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Perform low thinning. Take a third of volume marking poor form and suppressed first then mark for spacing. Target BA of 90 to 100. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> HRD spec if needed add. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
129 61041129-Cut	25.6	4130 - Aspen	9	51	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest stand. Leave all white pine along with small retention buffer along LO stands. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen primary with mix of other species as well. <u>Regen:</u> <u>Other</u> Map retention in MIFI. Protect any low areas or steep terrain as needed. Add Grouse Spec. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
141 61041141-Opening	18.1	330 - Low-Density Trees	99			Openings Mgmt.	Openings Mgmt.	3303 - Mixed Low Density Trees	Previous Inventory	No
<u>Prescription</u> Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
173 61041173-Cut	57.8	42110 - Planted Red Pine	9	67	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Final Harvest all trees over 1 inch in diameter. Use strip along snow trail as retention. Otherwise no trees should be left to facilitate subsequent planting. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Planted Red Pine. <u>Regen:</u> <u>Other</u> Require chipping and low stumps. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
68 61041068-Cut	14.9	42110 - Planted Red Pine	9	67	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Perform low thinning. Take roughly a third of the volume marking poor form and suppressed first then look at spacing. Target BA of 80. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Access from north, include with aspen stand to north due to same access needed. Use sale as good time to beef up recent RDR attempts as well. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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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Approved Treatments:

17	61041017-Monitor	39.6	4211 - Planted Red Pine	0	1	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine	Planting Record	No
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Prescription Check red pine for mortality and free to grow. Follow red pine guidelines.Specs:Next StepTreatments:Acceptable red pineRegen:Other Percent to Treat = 100%Comment:Site Condition:Proposed Start Date: 10/01/2025

23	61041023-Monitor	12.9	4211 - Planted Red Pine	0	1	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine	Planting Record	No
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Prescription Check red pine for mortality and free to grow. Follow red pine guidelines.Specs:Next StepTreatments:Acceptable Fully Stocked Stand of Red PineRegen:Other Percent to Treat = 100%Comment:Site Condition:Proposed Start Date: 10/01/2025

36	61041036-Spray	41.7	4211 - Planted Red Pine	0	0	Immature	Pesticide	Pesticide	42110 - Planted Red Pine	Planting Record	No
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Prescription trench and plant red pine after harvestSpecs:Next Step Planting, Unfurrowed; Monitoring, Artificial Regen; Monitoring, Artificial Regen (3yr)Treatments:Acceptable red pine, jack pine, white pineRegen:Other Percent to Treat = 100%Comment:Site Condition:Proposed Start Date: 10/01/2024

61	61041061-Spray	21.0	4211 - Planted Red Pine	0	0	Immature	Pesticide	Pesticide	4211 - Planted Red Pine	Planting Record	No
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Prescription Spray stand to Flat Plant Red PineSpecs:Next Step Planting, Unfurrowed; Monitoring, Artificial Regen; Monitoring, Artificial Regen (3yr)Treatments:Acceptable red pine, jack pine, maple, oakRegen:Other Percent to Treat = 100%Comment:Site Condition:Proposed Start Date: 10/01/2024

S t a n d	Traverse City Mgt. Unit			Report 3 -- Treatments					Compartment: 41			
	Year of Entry: 2027											
	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut	
	<hr/>											
	Total Treatment Acreage Proposed:		778.8									

Report 4 – Site Conditions

Compartment: 41
Year of Entry: 2027



Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions						
Acres	Available	With Condition	Not Available		5G	2F	2G	3A	3J	5E
509	506	0	4	Aspen		4				
48	0	0	48	Cedar			48			
87	87	0	0	Herbaceous Openland						
104	104	0	0	Jack Pine						
68	68	0	0	Low-Density Trees						
50	0	0	50	Lowland Conifers			50			
13	9	0	4	Lowland Deciduous			4			
18	0	0	18	Lowland Mixed Forest					18	
7	7	0	0	Lowland Shrub						
10	10	0	0	Marsh						
242	218	0	23	Mixed Upland Deciduous		17				6
56	56	0	0	Natural Mixed Pines						
551	507	30	14	Northern Hardwood	30	14				
66	47	20	0	Oak	20					
30	31	0	0	Planted Mixed Pines						
1056	1043	0	13	Red Pine						13
15	15	0	0	Treed Bog						
19	4	0	16	Upland Conifers				16		
27	27	0	0	Upland Mixed Forest						
7	7	0	0	Upland Shrub						
22	22	0	0	Urban						
1	1	0	0	Water						
35	32	0	3	White Pine					3	
3,042	2,799	49	194	Total Forested Acres	49	35	103	16	21	19
	92%	2%	6%	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
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	48	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5G: Research Study	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hardwood research study plot. Monitoring done by MSU.							
5	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2F: Too steep	12	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Too steep and BMP concerns at bottom of slope.							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: LTR for stand 154							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: LTR for stand 154							
9	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: LTR for stand 150							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia: Examiner

Compartment: 41
Year of Entry: 2027



10	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2F: Too steep	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: BMP concerns along creek.							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2F: Too steep	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia: Examiner

Compartment: 41
Year of Entry: 2027



17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small stand which acts as buffer to adjacent wetlands. Best to stay out of.							
19	Unavailable	3A: Conservation values incompatible with harvest at this time	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Unique stand due to amount of mature hemlock. Stand best to be left to continue to succeed naturally.							
21	Available	5G: Research Study	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: MSU Oak wilt research project.							
33	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
49	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
52	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



55	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:

Mgt. Unit

Compartment: #Type!

Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
1	6229 - Mixed Lowland Shrub	Unspecifed	0.8			No	Lowland feature.																																																									
2	4131 - Aspen, Oak	Poletimber Well	30.2	58	81-110	N/A	All aspen cut in 1967. Mixed mature oak and aspen stand. Aspen variable but carries thought majority of stand. Oak component is in rough shape with many already dead. Stand appears to have suffered from oak wilt and storm damage that has blown down many trees especially in west end. Variable density and quality.																																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Beech</td><td>1</td><td></td><td>11</td><td></td></tr><tr><td>Red Oak</td><td>30</td><td></td><td>15</td><td>108</td></tr><tr><td>White Pine</td><td>4</td><td></td><td>12</td><td></td></tr><tr><td>Sugar Maple</td><td>4</td><td></td><td>12</td><td></td></tr><tr><td>Red Maple</td><td>4</td><td></td><td>12</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>55</td><td></td><td>13</td><td>58</td></tr><tr><td>Basswood</td><td>2</td><td></td><td>13</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Beech	1		11		Red Oak	30		15	108	White Pine	4		12		Sugar Maple	4		12		Red Maple	4		12		Bigtooth Aspen	55		13	58	Basswood	2		13		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Beech</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Red Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Ironwood</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Variable	Beech	Low	< 5 feet	< 5 feet	Red Maple	Low	5 - 10 feet	5 - 10 feet	Ironwood	Low	10 - 20 feet	10 - 20 feet
Canopy Species	% Cover	Size Class	DBH	Age																																																												
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Ironwood	Low	10 - 20 feet	10 - 20 feet																																																													
3	310 - Herbaceous Openland	Unspecifed	8.1			No	Mostly degraded with spotted knapweed. Evidence of a very old timber landing. Includes a lobe with bracken fern. I don't know what WLD can do here.																																																									
<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Common Or Ground Juniper</td><td>Trace</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Staghorn Sumac</td><td>Trace</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Bracken Fern</td><td>Low</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Spotted Knapweed</td><td>High</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Mixed Grasses</td><td>Medium</td><td>Not Applicable</td><td>Not Applicable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Common Or Ground Juniper		Trace	5 - 10 feet	5 - 10 feet	Staghorn Sumac	Trace	5 - 10 feet	5 - 10 feet	Bracken Fern	Low	Not Applicable	Not Applicable	Spotted Knapweed	High	Not Applicable	Not Applicable	Mixed Grasses	Medium	Not Applicable	Not Applicable																																						
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Spotted Knapweed	High	Not Applicable	Not Applicable																																																													
Mixed Grasses	Medium	Not Applicable	Not Applicable																																																													
4	4123 - Red Oak	Sawtimber Well	29.7	108	81-110	N/A	For most part lower to moderate quality mature oak ridge with some maple component scattered. Old blowdown event about acre in size from 2015 storm in stand.																																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Basswood</td><td>5</td><td></td><td>14</td><td></td></tr><tr><td>White Pine</td><td>3</td><td></td><td>15</td><td></td></tr><tr><td>Beech</td><td>5</td><td></td><td>13</td><td></td></tr><tr><td>Red Oak</td><td>70</td><td></td><td>16</td><td>108</td></tr><tr><td>Sugar Maple</td><td>7</td><td></td><td>13</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td></td><td>11</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>5</td><td></td><td>10</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Basswood	5		14		White Pine	3		15		Beech	5		13		Red Oak	70		16	108	Sugar Maple	7		13		Red Maple	5		11		Bigtooth Aspen	5		10		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	10 - 20 feet	10 - 20 feet												
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Red Maple	Medium	10 - 20 feet	10 - 20 feet																																																													

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
5	6139 - Mixed Lowland Forest	Sawtimber Well	17.8	88	81-110	N/A	Riparian buffer area of acme creek. Hemlock and cedar along creek edge while upland aspen/oak and white pine along upper banks. Lowland along creek bottom and upland on edges of stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Yellow Birch		2		11		White Pine		Low	Variable	Variable
Red Pine		2		13		Red Maple		Medium	Variable	Variable
White Pine		10		13						
Scotch Pine		2		10						
Basswood		2		15						
Sugar Maple		5		13						
Red Maple		10		11						
Bigtooth Aspen		35		14	88					
Red Oak		2		14						
Northern White Cedar		10		11						
Hemlock		20		12						
6	42110 - Planted Red Pine	Poletimber Well	16.7	66	81-110	N/A		Stand was planted in 1959. Stand was third row thinned in 1997.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Black Cherry		1		13		Beech	Low	< 5 feet	< 5 feet	
Red Oak		4		18		White Pine	Low	< 5 feet	< 5 feet	
Red Pine		92		11	66	Black Cherry	Low	5 - 10 feet	5 - 10 feet	
Red Maple		1		14						
Bigtooth Aspen		2		15						
7	310 - Herbaceous Openland	Poletimber Well	0.4			No	ROW for power line. Illegal two track potentially?			
8	4199 - Other Mixed Upland Deciduous	Poletimber Well	2.7	20	1-50	N/A	Appears to be old opening filling in with aspen/oak and hardwood. Juniper all over in open areas.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Cherry		20	Log	2		Juniper		Medium	5 - 10 feet	5 - 10 feet
Ironwood		20	Log	2						
Bigtooth Aspen		35	Log	2	20					
Beech		10	Log	1						
Red Oak		15	Pole	4						
9	42120 - Planted Jack Pine	Poletimber Well	3.0	66	1-50	N/A	Stand was planted to jack pine in 1959.2024 most of jack pine has fallen out and stand over time will blend in more with stand 184. Aspen and red maple came in following harvest of 184. 2015: Heavy storm damage and mortality. Mature aspen on NE corner. Aspen sprouting along edges of this stand from that harvest as well. Not much volume left but harvest if the opportunity comes up with a nearby treatment. Otherwise leave for bedding cover and travel corridor.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		5		13		White Pine		Low	Variable	Variable
White Pine		5		12		Red Maple		High	Variable	Variable
Jack Pine		90		10	66	Bigtooth Aspen		Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
10	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	15.6	17	1-50	N/A	Planted jack pine that was row thinned in 2007. (take two leave two) Since 2007 most of the remaining jack pine in the overstory has fallen out. A handful the the original jack pine do remain.																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>2</td><td></td><td>14</td><td></td></tr><tr><td>Red Oak</td><td>10</td><td>Log</td><td>2</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td>Log</td><td>2</td><td></td></tr><tr><td>White Pine</td><td>2</td><td>Log</td><td>2</td><td></td></tr><tr><td>Jack Pine</td><td>6</td><td></td><td>10</td><td>67</td></tr><tr><td>Jack Pine</td><td>60</td><td>Log</td><td>2</td><td>17</td></tr><tr><td>Black Cherry</td><td>10</td><td>Log</td><td>1</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	2		14		Red Oak	10	Log	2		Red Maple	10	Log	2		White Pine	2	Log	2		Jack Pine	6		10	67	Jack Pine	60	Log	2	17	Black Cherry	10	Log	1																								
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Black Cherry	10	Log	1																																																																			
11	4199 - Other Mixed Upland Deciduous	Sawtimber Well	6.7	96	51-80	N/A	Lower quality oak, red maple and aspen. Significant oak decline/oak wilt in stand.																																																															
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12	330 - Low-Density Trees	Unspecifed	1.0			No	Old opening around pond.																																																															
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Mixed Grasses	Medium	Not Applicable	Not Applicable																																																																			
13	330 - Low-Density Trees	Unspecifed	5.1			No	2024- Low density trees, old road needs to be closed. 2005 Raccoon damage to juneberry. Nice opening. Bracken fern dominated (pink on imagery). Plenty of poverty grass in-between (blue). One juneberry and one paper birch. A few pine saplings along edge.																																																															
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14	310 - Herbaceous Openland	Poletimber Medium	0.7			No	Grass opening.																																																															
15	310 - Herbaceous Openland	Unspecifed	8.3			No	Cleared powerline ROW.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
16	42111 - Planted Red Pine, Mixed Deciduous	Unspecifed	25.5	7	1-50	N/A	Jack Pine stand was final harvested in 2007, with scattered oak left. Stand was left for a while and then Roller Chopped and Trenched in 2017. Then planted to red pine in 2018. 10/2018. Regen Survey 29.5% mortality and 75% FTG. 2024 Notes- Red pine free to grow for most part but will be a mix of hardwood, oak and some jack pine.																																																			
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Black Cherry	10	Log	1																																																							
17	4211 - Planted Red Pine	Sawtimber Well	39.5	1	Immature		Stand was formally private and was mixed open grown stand and even had some old orchards at home point. Rolling terrain. Final harvested in 2020 and planted to red pine. 9/19/2023 - Year 1 Regen Survey Completed 9/19/2023. Stand currently has 883 Trees Per Acre and is sitting at 92% Free to grow with oak and jack pine being the main competition at this time. 2023 - Stand was planted to red pine 928 TPAStand was Site Prep Sprayed 6/10/2022 with contract SkidderTrenched 2021Final Harvested 12/2020.																																																			
18	310 - Herbaceous Openland	Unspecifed	6.2			No	ROW opened up by county. Mostly grass.																																																			
19	4111 - S.Maple, Hard Mast Association	Poletimber Well	10.7	106	81-110	N/A	Variable quality mixed pole hardwood stand with some oak and pine mixed in. Portions of east end on steep side slope. West end more open grown with some red pine and white pine.																																																			
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20	6119 - Mixed Lowland Deciduous Forest	Sawtimber Poor	8.8	10	1-50	N/A	Salvage sale occurred in 2015 after large wind event. Stand was wet but dried up briefly in late summer to allow salvage. Not regenerating well in wet areas. Overall stand did not regenerate in about 60 percent of stand back back to cattails. Other upland portions of stand came back to mix of aspen/white pine and oak. Scattered oak and red maple left in 2015 salvage.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
21	4130 - Aspen	Poletimber Well	17.4	43	81-110	N/A	Nice little block of pole aspen with mix of oak, white pine and some hardwood. Includes strip along east end of powerline. South end is on steep slope.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	8	Seedling	8	43	Red Maple	Medium		Variable	Variable
Ironwood	4	Sapling	6						
White Pine	6		12						
Black Cherry	4	Seedling	8	43					
Red Maple	8	Seedling	8	43					
Bigtooth Aspen	70	Seedling	8	43					
22	42110 - Planted Red Pine	Poletimber Well	36.7	70	81-110	N/A	Stand was planted in 1955.Third row thinned in 1987.Marked second thinned in 1997. Stand was third thinned in 2007. (Marked)Stand holding well one dieback pocket near road seems to have not progressed recently.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	1		17		White Pine	Medium		< 5 feet	< 5 feet
Red Pine	96		13	70	Black Cherry	Low		Variable	Variable
White Pine	1		14	70					
Red Oak	1		14						
Hemlock	1		16						
23	4211 - Planted Red Pine	Unspecifed	12.8	1	Immature		9/19/2023 - Year 1 Regeneration Check was completed 9/19/2023. Stand currently has 890 Trees Per Acre and is 100% Free to Grow at this time. 2023 - Stand was planted to red pine 903 TPA Stand Site Prep Sprayed 6/7/2022 with Skidder Trenched 2021. HARVESTED 12/2020. Trench 2021. Plant red pine after site prep. May need herbicide to control scotch pine. Evaluate before planting.		
24	6229 - Mixed Lowland Shrub	Sawtimber Well	1.4			No	Small low bowl. Assumes it hold water at times.		
25	500 - Water	Unspecified	0.9			No	Pond and border.		
26	4319 - Mixed Upland Forest	Poletimber Well	4.2	65	111-140	N/A	Small mixed stand. Location of old frost cabin still present as of 2025.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
White Pine	35		13	65	White Pine	Medium	5 - 10 feet	5 - 10 feet	
Red Pine	5		10	65	Red Maple	Medium	10 - 20 feet	10 - 20 feet	
Red Maple	30		13						
Bigtooth Aspen	10		9	42					
Red Oak	5		14						
Hemlock	15		13						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
27	42110 - Planted Red Pine	Poletimber Well	63.3	73	111-140	N/A	Stand was formally private and appears to be planted in the early 1950s. Nice block of red pine with rolling terrain. Scattered oak and red maple throughout. Even a few pockets of planted white/Norway spruce. A few ridges too steep but 95 percent of stand available. Considerable variability in stocking some areas well over 200 BA and other only around 80. Appears stand has been row thinned only once in the early 2000s.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		4		14		Red Maple		Low	10 - 20 feet	10 - 20 feet
White Pine		5		15		White Pine		Medium	Variable	Variable
Red Pine		76		12	73	Black Cherry		Low	5 - 10 feet	5 - 10 feet
White Oak		1		13						
Red Oak		13		16						
White Spruce		1		12						
28	42110 - Planted Red Pine	Sapling Well	8.0	67	111-140	N/A	Stand was planted in 1959. LTR retention from 150. Red Pine planation that has been row thinned and second thinned. Cannot be managed until parent stand is able to be harvested again.			
Canopy Species		% Cover	Size Class	DBH	Age					
White Pine		5		13						
Red Pine		95		12	67					
29	429 - Mixed Upland Conifers	Poletimber Well	3.5	53	111-140	N/A	Formally private. This is mixed planted spruce and scotch pine. Holding together for most part, portion on steep slope.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		2	Seedling	8		White Pine		Low	Variable	Variable
Scotch Pine		52		10	53					
Red Oak		5		12						
White Spruce		41		10	53					
30	6129 - Mixed Coniferous Lowland Forest		28.9	102	141-170	N/A	Mixed lowland conifer swamp buffering acme creek. Nice mix of hemlock and cedar.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		44		10	102	Red Maple		Low	10 - 20 feet	10 - 20 feet
Hemlock		37		11		Hemlock		Low	10 - 20 feet	10 - 20 feet
White Pine		2		16						
Yellow Birch		5		12						
Quaking Aspen		10		12						
Red Maple		2		10						
31	320 - Upland Shrub	Sapling Well	7.1			No	Opening complex many areas around road ROW.			
32	4130 - Aspen	Sapling Well	10.3	41	Unspecified	N/A	Formally private. This is a small block of aspen on hilly terrain, with mix of white pine, oak and red maple.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		7		10		White Pine		Low	Variable	Variable
Balsam Fir		1	Seedling	7		Red Maple		Low	10 - 20 feet	10 - 20 feet
Red Maple		15		9	41					
Paper Birch		1	Seedling	8						
Bigtooth Aspen		66	Seedling	8	41					
White Pine		10		9						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
33	6233 - Wet Meadow	Unspecified	3.0			No	Center is bulrushes and grasses - wet meadow. Probably seasonally wet. Perimeter is all willow with a few dogwood. Some spotted knapweed around perimeter also. Found dead trees (snags) along east side.
34	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	2.8	102	141-170	N/A	Corner of conifer swamp.
35	6229 - Mixed Lowland Shrub	Sapling Well	0.7			No	Small lowland, most of wetland on private.
36	4211 - Planted Red Pine	Unspecified	45.2	0	Immature		Stand final harvested. 10/2023. Clearcut and chipped tops. Some scattered white pine and retention pockets left. Retention left along private. Plant red pine after site prep. Plans to be sprayed in 2024.
37	330 - Low-Density Trees	Unspecified	1.0			No	Small meadow opening which holds water in certain times of year near private.
38	330 - Low-Density Trees	Unspecified	1.6			No	Possibly an old homestead site. A couple apple trees on their last leg. One large walnut with several pole walnut or ash trees. Mixed grasses with spotted knapweed. Cut out pine encroachment. Grasses are mixture of warm and cool summer varieties. Some spots of cladonia.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
39	4130 - Aspen	Poletimber Well	7.0	41	Unspecified	N/A	Small strip of aspen approaching log size. Some lowland character in spots but overall upland.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		10		13		Red Maple	Medium	10 - 20 feet	10 - 20 feet
Black Cherry		2	Seedling	9		White Pine	Low	Variable	Variable
Red Maple		12		9					
Red Oak		2		15					
Quaking Aspen		74		9	41				
40	42200 - Natural White Pine	Sawtimber Poor	7.9	75	51-80	N/A	Open mixed stand that is filling in well over the decades.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		8		10		White Pine	Medium	10 - 20 feet	10 - 20 feet
Red Pine		7		12					
Red Oak		5		15					
Hemlock		2		14					
White Pine		60		10	75				
Jack Pine		8		12					
Black Cherry		10		11					
41	429 - Mixed Upland Conifers	Sawtimber Well	15.8	101	51-80	N/A	Unique stand due to amount of hemlock. Mixed stand with limited understory overall. Lowland shrub stand in the middle of the stand. Some legacy pine and even a few oaks in this stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		18		14		Red Maple	Low	>20 feet	>20 feet
Black Cherry		5		10		Hemlock	Low	5 - 10 feet	5 - 10 feet
Yellow Birch		5		15					
Quaking Aspen		2		10					
Red Maple		15		16					
Red Oak		5		18					
Hemlock		50		14	101				
42	6224 - Treed Bog	Unspecified	14.9			No	Awesome treed bog. Leatherleaf, michigan holly, and blueberry, with tamarack and white pine. A few viburnum sp. along perimeter.Filling in with white pine but still treed non forested bog.		
Sub-Canopy Species		Density	Avg. Height	Size					
Sphagnum Moss		Medium	Not Applicable	Not Applicable					
Tamarack		Trace	Variable	Variable					
Viburnum		Trace	5 - 10 feet	5 - 10 feet					
Leatherleaf		Full	5 - 10 feet	5 - 10 feet					
White Pine		Low	Variable	Variable					
Blueberry/Bilberry/Cranberry		Medium	5 - 10 feet	5 - 10 feet					
Michigan Holly		Low	5 - 10 feet	5 - 10 feet					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
43	4123 - Red Oak	Sawtimber Well	82.0	110	81-110	N/A	Stand was formally private and appears to have been thinned last in the 1990s. Primarily log oak ridge on rolling terrain with mix of red maple, beech and white pine. Quality and stocking variable. Illegal two tracks present.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	8		13		Red Maple	Low		5 - 10 feet	5 - 10 feet
Red Pine	2		13		White Pine	Medium		Variable	Variable
Beech	10		12						
Red Oak	60		14	110					
Sugar Maple	3		12						
Red Maple	15		12						
Bigtooth Aspen	2		12						
44	310 - Herbaceous Openland	Sawtimber Poor	4.5			No	ROW of maintained county road. (Bunker Hill)		
45	42220 - Natural Jack Pine		2.5	27		N/A	Stand was final harvested in 1997. Jack pine reseeded in.		
Canopy Species	% Cover	Size Class	DBH	Age					
Jack Pine	100	Sapling	5	27					
46	4130 - Aspen	Sapling Well	20.2	35	Unspecified	N/A	Stand was final harvested in 1990. Any Oak was left along with a few white pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	1		15		Red Maple	Medium		10 - 20 feet	10 - 20 feet
Black Cherry	5	Seedling	5	35	Balsam Fir	Medium		Variable	Variable
Red Maple	5	Sapling	5	35					
Bigtooth Aspen	88	Seedling	6	35					
Red Oak	1		14						
47	6120 - Lowland Cedar	Poletimber Well	48.2	116	51-80	N/A	Larger lowland conifer stand. Lots of blowdown in stand. Variability in structure with some open canopy filling in to others with more dense overstory. Perimeter of stand in spots in large side slope of white pine. Stand is in a bowl.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	15		12		Black Ash	Medium		10 - 20 feet	10 - 20 feet
White Pine	4		14		Northern White Cedar	Low		Variable	Variable
Quaking Aspen	5		14		Hemlock	Low		Variable	Variable
Northern White Cedar	56		10	116	Balsam Fir	Medium		Variable	Variable
Hemlock	20		10	116	Red Maple	Low		Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
48	6113 - Lowland Maple	Sawtimber Well	4.4	86	51-80	N/A	Mixed lowland hardwood with hemlock component. Some upland on edges but overall lowland character that has been avoided with recent harvests.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		5		12		Red Maple		Medium	10 - 20 feet	10 - 20 feet
Black Cherry		3		8		White Pine		Low	10 - 20 feet	10 - 20 feet
Sugar Maple		5		12	86					
Red Maple		63		13	86					
Paper Birch		1	Seedling	8						
Yellow Birch		3		15						
Quaking Aspen		7		13	86					
Northern White Cedar		3		8						
Hemlock		10		8						
49	42200 - Natural White Pine	Unspecified	6.8	68	1-50	N/A	Old what was once a open stand filling in with white. red and jack pine. Scattered log oak and white pine open grown with white pine filling in understory.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		80		14	68	Red Pine		Medium	Variable	Variable
Red Oak		20		14		White Pine		High	Variable	Variable
						Jack Pine		Low	Variable	Variable
50	42110 - Planted Red Pine	Poletimber Well	7.2	67	81-110	N/A	Stand was planted in 1958. Stand was third row thinned in 2010.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Stand thinned again in 2023 to 120 BA'Die back pocket in SW
Red Pine		100		9	67	Balsam Fir	Low	< 5 feet	< 5 feet	
						White Pine	Low	< 5 feet	< 5 feet	
51	4110 - Sugar Maple Association		36.3	102	51-80	N/A	Gifted to state in 2023 was formally CF forest land own privately.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Stand has been recently thinned, sugar maple dominate with maple stems in small small log, large pulp size. Beech and ironwood primary in understory.
Sugar Maple		70		13	102	Black Cherry	Low	5 - 10 feet	5 - 10 feet	
Beech		6		13		Ironwood	High	5 - 10 feet	5 - 10 feet	
Red Oak		10		14		Beech	High	5 - 10 feet	5 - 10 feet	
White Pine		1		12						
Basswood		13		15						
52	4199 - Other Mixed Upland Deciduous	Sawtimber Well	12.1	86	81-110	N/A	Mixed sugar maple and oak. Not very many quality stems on ridge with no evidence of recent management. Good mast producing stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
White Pine		4		14		White Pine	Low	Variable	Variable	
Beech		7		14		Red Maple	Low	10 - 20 feet	10 - 20 feet	
Red Oak		53		13	86	Beech	Low	Variable	Variable	
Sugar Maple		28		16		Ironwood	Medium	Variable	Variable	
Red Maple		5		12						
Bigtooth Aspen		2		15						
Basswood		1		14						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
53	42110 - Planted Red Pine	Poletimber Well	80.8	70	141-170	N/A	Stand was planted in 1955. Stand was third row thinned in 1997.		
							Stand was thinned again 2010(every third tree cut)		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	1		14		Beech	Trace		< 5 feet	< 5 feet
Bigtooth Aspen	1		15		White Pine	Low		< 5 feet	< 5 feet
Red Pine	98		10	70					
54	4130 - Aspen		54.1	66	111-140	N/A	Nice large block of aspen on rolling terrain. Mix of oak, maple and pine in stand but overall aspen dominate.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	2		14		Red Oak	Low		10 - 20 feet	10 - 20 feet
Black Cherry	1		10		Red Maple	Low		10 - 20 feet	10 - 20 feet
Sugar Maple	1		12		White Pine	Medium		5 - 10 feet	5 - 10 feet
Red Maple	5		12						
Bigtooth Aspen	65		12	66					
Beech	5		13						
Red Oak	19		14						
Red Pine	2		13						
55	42130 - Planted Scotch Pine	Poletimber Well	19.9	49	1-50	N/A	Old opening of scotch pine with mixed oak, aspen, white pine and even some Austrian pine. Formally private land part of old acquisition. Stand provides good thermal cover for game.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	12		11		White Pine	Medium		10 - 20 feet	10 - 20 feet
White Pine	3		8		Juniper	Medium		5 - 10 feet	5 - 10 feet
Black Cherry	1	Seedling	8		Beech	Low		Variable	Variable
Scotch Pine	70	Seedling	8	49					
Bigtooth Aspen	8	Seedling	8						
Austrian Pine	6		10						
56	42200 - Natural White Pine	Unspecified	3.4	67	1-50	N/A	Small buffer area left from recent harvests. Primary white pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10		11		White Pine	Medium		Variable	Variable
Northern White Cedar	5		8		Beech	Medium		Variable	Variable
Hemlock	5		8		Red Maple	Low		Variable	Variable
White Pine	75		15	67					
Black Cherry	5		12						
57	42210 - Natural Red Pine	Sawtimber Well	17.2	84	141-170	N/A	Rolling to steep terrain. Unclear whether pine is natural lor planted. Formally private so no planting records available. Mostly red pine but mixed of white pine, oak, aspen and maple. Illegal two tracks off powerline.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	10		14	84	White Pine	Low		10 - 20 feet	10 - 20 feet
Red Maple	10		11		Red Oak	Low		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	15		13		Red Maple	Low		5 - 10 feet	5 - 10 feet
Red Oak	5		12						
Red Pine	60		13	84					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
58	4133 - Aspen, Mixed Pine	Sawtimber Poor	52.4	13	81-110	N/A	Stand was final harvested cut in 2012 with all conifer and paper birch left along with scattered green marked oak. Large buffer was left along VASA this has become new stand. As well small patch along powerline was left too small to map. 2012 harvest created a two aged stand with white pine/red pine and some oak left over a mixed of good aspen/maple and pine regenerating.																																																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>5</td><td></td><td>13</td><td></td></tr><tr><td>Red Oak</td><td>4</td><td></td><td>14</td><td>101</td></tr><tr><td>White Oak</td><td>1</td><td></td><td>13</td><td></td></tr><tr><td>Red Maple</td><td>4</td><td>Log</td><td>2</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>63</td><td>Log</td><td>2</td><td>13</td></tr><tr><td>White Pine</td><td>18</td><td></td><td>13</td><td>101</td></tr><tr><td>White Pine</td><td>5</td><td>Log</td><td>1</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	5		13		Red Oak	4		14	101	White Oak	1		13		Red Maple	4	Log	2		Bigtooth Aspen	63	Log	2	13	White Pine	18		13	101	White Pine	5	Log	1														
Canopy Species	% Cover	Size Class	DBH	Age																																																								
Red Pine	5		13																																																									
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Bigtooth Aspen	63	Log	2	13																																																								
White Pine	18		13	101																																																								
White Pine	5	Log	1																																																									
59	4130 - Aspen	Sawtimber Poor	10.3	2	1-50	N/A	Stand final harvested 2023 with scattered retention. Cut to 2" and chipped tops. Expect aspen clones to regenerate along with mixed hardwood and white pine. Aspen primary regen as of 2025. Heavy deer browse.																																																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>5</td><td></td><td>13</td><td></td></tr><tr><td>White Pine</td><td>2</td><td></td><td>15</td><td></td></tr><tr><td>White Pine</td><td>10</td><td>Log</td><td>1</td><td>2</td></tr><tr><td>Red Maple</td><td>10</td><td>Log</td><td>1</td><td>2</td></tr><tr><td>Bigtooth Aspen</td><td>73</td><td>Log</td><td>1</td><td>2</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	5		13		White Pine	2		15		White Pine	10	Log	1	2	Red Maple	10	Log	1	2	Bigtooth Aspen	73	Log	1	2																							
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Red Maple	10	Log	1	2																																																								
Bigtooth Aspen	73	Log	1	2																																																								
60	6233 - Wet Meadow	Unspecifed	6.7			No	Seasonally wet. Tag alders and willow along perimeter. A few small will scattered throughout. Grasses, mixed forbs, a few bull thistle. An unknown plant found throughout.																																																					
<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tag Alder</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Bulrush</td><td>Trace</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Mixed Grasses</td><td>High</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Sedges</td><td>Low</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Blackberry/Raspberry</td><td>Trace</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Willow spp.</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>								Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	5 - 10 feet	5 - 10 feet	Bulrush	Trace	Not Applicable	Not Applicable	Mixed Grasses	High	Not Applicable	Not Applicable	Sedges	Low	Not Applicable	Not Applicable	Blackberry/Raspberry	Trace	5 - 10 feet	5 - 10 feet	Willow spp.	Medium	Variable	Variable																									
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61	4211 - Planted Red Pine	Unspecified	21.3	0	Immature		Stand harvested 2023. Plant red pine after site prep. Plan is to free plant red pine. Site set to be sprayed in 2025.																																																					
62	4130 - Aspen	Sawtimber Well	7.0	85	81-110	N/A	Small stand of mature ageing aspen with some mix of hardwoods and oak. Includes buffer area around non forested stand.																																																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>4</td><td></td><td>9</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td></td><td>12</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>68</td><td></td><td>15</td><td>85</td></tr><tr><td>Beech</td><td>2</td><td></td><td>12</td><td></td></tr><tr><td>Red Oak</td><td>12</td><td></td><td>13</td><td>85</td></tr><tr><td>Hemlock</td><td>2</td><td></td><td>8</td><td></td></tr><tr><td>White Pine</td><td>2</td><td></td><td>12</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	4		9		Red Maple	10		12		Bigtooth Aspen	68		15	85	Beech	2		12		Red Oak	12		13	85	Hemlock	2		8		White Pine	2		12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	10 - 20 feet	10 - 20 feet	White Pine	Low	Variable	Variable
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Stand	Level 4 Cover Type	Size	Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
63	3302 - Low Density Conifer Trees			10.1			No	The main part of the opening has a fair amount of regenerating jack pine. A pine stand with a few small opening. The rest of the opening is powerline right-of-way.					
		Sub-Canopy Species		Density	Avg. Height		Size						
		St. Johns Wort		Trace	Not Applicable		Not Applicable						
		Bracken Fern		Medium	Not Applicable		Not Applicable						
		Mixed Grasses		Medium	Not Applicable		Not Applicable						
		Jack Pine		High	>20 feet		>20 feet						
		Black Cherry		Trace	Variable		Variable						
64	4123 - Red Oak	Poletimber	Medium	11.0	60	1-50	N/A	Open stand that is filling in with oak some aspen in SW corner of stand. Appears old oak wilt pocket in NE end. (Seems to have died out)					
		Canopy Species		% Cover	Size Class	DBH	Age		Sub-Canopy Species		Density	Avg. Height	Size
		Bigtooth Aspen		10	Seedling	8			White Pine		Medium	Variable	Variable
		White Oak		1	Seedling	8			Red Oak		Low	5 - 10 feet	5 - 10 feet
		Red Oak		78		9	60						
		White Pine		5		12							
		Black Cherry		5	Seedling	8							
		Scotch Pine		1	Seedling	7							
		65	310 - Herbaceous Openland			1.3					Gifted to state in 2023 was formally CF forest land own privately. Old well site.		
66	42290 - Natural Mixed Pine	Poletimber	Well	4.5	15	1-50	N/A	Stand was planted in 1958 to JP. All but a handful of planted jack pine left. Heavy blowdown throughout stand has created good cover. Stand in slowly naturally regenerating to primarily beech, jack pine and white pine.					
		Canopy Species		% Cover	Size Class	DBH	Age						
		Beech		20	Log	1							
		Red Oak		5		14							
		White Pine		20	Log	1							
		Jack Pine		6		10	67						
		Jack Pine		49	Log	1	15						
67	42220 - Natural Jack Pine	Sapling	Medium	19.0	16	Immature	N/A	Stand was third row thinned in 1997. Jack pine was final harvested from stand in 2009 with a few scattered hardwood left. Some jack pine origin from 1997 cut and some from 2009, but overall age from 2009 harvest. Some scattered oak and maple left.					
		Canopy Species		% Cover	Size Class	DBH	Age						
		Sugar Maple		1		14							
		White Pine		7	Log	2							
		Jack Pine		79	Log	2	16						
		Black Cherry		5	Log	2	16						
		Scotch Pine		1	Log	3							
		Beech		5	Log	1							
		Red Oak		1		13							
		Red Pine		1	Log	2							

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
68	42110 - Planted Red Pine	Poletimber Well	14.9	67	111-140	N/A	Stand was planted in 1958. Stand was third row thinned in 1987.Stand was second thinned in 1997.(Marked)Stand was third thinned in 2008. (Marked)			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		100		12	67	Beech		Medium	5 - 10 feet	5 - 10 feet
						White Pine		Medium	Variable	Variable
						Black Cherry		Medium	10 - 20 feet	10 - 20 feet
69	4111 - S.Maple, Hard Mast Association	Sawtimber Well	25.1	100	51-80	N/A	Stand was thinned in 2011 , with all aspen cut by spec. Overall limited desirable regeneration from harvest, heavy deer browse even if some was created. Variable stand of hardwood with some oak. Rolling hills with some steep spots. Medium quality site. Beech still holding on some scale.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Basswood		2		15		Ironwood		Low	Variable	Variable
Sugar Maple		70		12	100	White Pine		Low	< 5 feet	< 5 feet
Red Maple		4		12		Beech		Medium	< 5 feet	< 5 feet
Beech		6		13		Sugar Maple		Low	>20 feet	>20 feet
Red Oak		18		16						
70	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	14.5	121	141-170	N/A	Buffer area along VASA trail. Mixed valley of log aspen, oak and pine.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		20		18	101	Red Maple		Low	10 - 20 feet	10 - 20 feet
Red Pine		7		14	101	White Pine		High	Variable	Variable
Red Oak		45		17	121					
White Oak		1		14						
Red Maple		2		14						
Bigtooth Aspen		25		14						
71	4199 - Other Mixed Upland Deciduous	Poletimber Well	40.2	109	81-110	N/A	Variable stand that was part of old Frost property. Oak is primary species although pockets of hardwood and pine occur in stand. Rolling to steep terrain with VASA trail in valleys. ORV damage and long standing RDR , work has occurred in hill climbs in stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		5		14		Ironwood		Low	5 - 10 feet	5 - 10 feet
Basswood		4		10		Sugar Maple		Low	10 - 20 feet	10 - 20 feet
Beech		4		11		Red Maple		Medium	Variable	Variable
Red Oak		59		13	109	White Pine		Medium	5 - 10 feet	5 - 10 feet
Hemlock		1		12						
Sugar Maple		12		14						
Red Maple		10		12						
Bigtooth Aspen		5		14						
72	42110 - Planted Red Pine	Poletimber Well	36.8	67	111-140	N/A	Stand was planted in 1958. Stand was third row thinned in 1997.			
Canopy Species		% Cover	Size Class	DBH	Age	Stand was second thinned in 2010. (every 4th tree cut)				
Red Pine		100	Seedling	7	67					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																					
73	4199 - Other Mixed Upland Deciduous	Sawtimber Well	38.6	121	81-110	N/A	Stand was thinned in 1997. Very nice log/XL stand of maple and red oak, some very nice veneer quality stems present. West side has a few mature aspen clones. Rolling topo with VASA trail running through all of stand. Limited understory , although a sugar maple small pole class is present that is working way into overstory.																					
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size																		
White Pine		1		14		White Pine		Low	10 - 20 feet	10 - 20 feet																		
Basswood		10		15		Sugar Maple		Medium	>20 feet	>20 feet																		
Beech		6		13		Beech		Low	10 - 20 feet	10 - 20 feet																		
Red Oak		32		20	121	Hemlock		Trace	Variable	Variable																		
White Oak		1		13		Ironwood		Low	Variable	Variable																		
Sugar Maple		40		16	121																							
Red Maple		2		15																								
Bigtooth Aspen		8		17																								
74	3105 - Mixed Upland Herbaceous	Unspecified	6.0			No	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Spotted Knapweed</td><td>High</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Mixed Grasses</td><td>High</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>St. Johns Wort</td><td>Medium</td><td>Not Applicable</td><td>Not Applicable</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Variable	Spotted Knapweed	High	Not Applicable	Not Applicable	Mixed Grasses	High	Not Applicable	Not Applicable	St. Johns Wort	Medium	Not Applicable	Not Applicable	Opening with Illegal ORV damage and access occurring off powerline. Degraded in some spots. Rolling terrain. Unlisted 1 is hoary alysum. Unlisted 2 is mullein.
Sub-Canopy Species	Density	Avg. Height	Size																									
White Pine	Low	Variable	Variable																									
Spotted Knapweed	High	Not Applicable	Not Applicable																									
Mixed Grasses	High	Not Applicable	Not Applicable																									
St. Johns Wort	Medium	Not Applicable	Not Applicable																									
Canopy Species		% Cover	Size Class	DBH	Age																							
Bigtooth Aspen		1	Sapling	5	26																							
Red Pine		85	Sapling	5	26																							
Jack Pine		12	Sapling	5	26																							
Black Cherry		2	Pole	4																								
75	42110 - Planted Red Pine	Sapling Well	34.5	26	Immature	N/A	Old jack pine that was final harvested in 1997 and then planted to red pine. Stand was planted in 1999. Some competition from jack pine but overall red pine doing well. Just into pole size many 4 inch stems as well but placed it as pole size.																					
Canopy Species		% Cover	Size Class	DBH	Age																							
Bigtooth Aspen		1	Sapling	5	26																							
Red Pine		85	Sapling	5	26																							
Jack Pine		12	Sapling	5	26																							
Black Cherry		2	Pole	4																								
76	42110 - Planted Red Pine	Sawtimber Well	93.0	66	111-140	N/A	Stand was planted in 1959. Stand was third row thinned in 1997. 2009 stand was second thinned with ever 4th tree cut. (not marked)On edge of log size overall. Nice block of red pine. Holding together well with a few small dieback pockets.																					
Canopy Species		% Cover	Size Class	DBH	Age																							
White Pine		1		15																								
Black Cherry		1		10																								
Red Pine		98		10	66																							
Sub-Canopy Species		Density	Avg. Height	Size																								
Red Pine		Low	< 5 feet	< 5 feet																								
White Pine		Low	< 5 feet	< 5 feet																								
Beech		Low	< 5 feet	< 5 feet																								
77	3105 - Mixed Upland Herbaceous	Unspecified	16.6			No	Powerline. Area north of private and south of pine stand has autumn olive, spotted knapweed, poverty grass, and cladonia. This area is degraded, but is adjacent to private land. Rest is powerline right-of-way. Mixed upland herbaceous and a two-track.																					
78	3301 - Low Density Deciduous Trees	Unspecified	3.2			No	Old opening filling in with red pine and other scattered trees.																					
Sub-Canopy Species		Density	Avg. Height	Size																								
Spotted Knapweed		Medium	Not Applicable	Not Applicable																								
Mixed Grasses		Medium	Not Applicable	Not Applicable																								
St. Johns Wort		Low	Not Applicable	Not Applicable																								
Cladonia (Reindeer moss)		Medium	Not Applicable	Not Applicable																								
Bracken Fern		Trace	Not Applicable	Not Applicable																								

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
79	330 - Low-Density Trees	Unspecified	4.6			No	Within big clump, aspen and cottonwood with maple. Some autumn olive underneath. Rest is old apple orchard.
80	42110 - Planted Red Pine	Sawtimber Well	15.9	66	111-140	N/A	Stand was planted in 1959. Stand was third row thinned in 1997. Stand was second thinned in 2008. (Every 4th tree taken)
81	122 - Road/Parking Lot	Unspecified	9.3			No	
82	42110 - Planted Red Pine	Sawtimber Well	18.0	73	81-110	N/A	Stand was planted in 1952. Stand was third row thinned in 1987. Stand was second thinned in 1997. Stand was third thinned in 2010(Every 4th thin) Dieback pocket in SW corner.
83	3105 - Mixed Upland Herbaceous	Unspecified	3.2			No	Scattered trees potentially old homestead.
84	42220 - Natural Jack Pine	Sapling Well	43.7	16	Immature	N/A	Stand was third row thinned in 1997. Stand was final harvested in 2009. (All jack pine cut)Came back well to jack pine, SE corner is red maple. Primary age from last harvest in 2009 although some jack pine age came from 1997 harvest.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
85	42110 - Planted Red Pine	Poletimber Well	33.0	67	111-140	N/A	Stand was planted in 1958. Stand was third row thinned in 1997.																																																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>100</td><td></td><td>9</td><td>67</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100		9	67	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Beech</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	< 5 feet	< 5 feet	Beech	Low	< 5 feet	< 5 feet	Stand was thinned again in 2010. (Every 4th tree cut spec) South of powerline has some very steep areas.																																																			
Canopy Species	% Cover	Size Class	DBH	Age																																																																											
Red Pine	100		9	67																																																																											
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White Pine	Low	< 5 feet	< 5 feet																																																																												
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86	3104 - Degraded	Unspecified	1.0				Well plugged 3/2000. Opening which appears to be used as camping spot at times, some firewood noted.																																																																								
			<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Spotted Knapweed</td><td>Medium</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Mixed Grasses</td><td>Low</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Blackberry/Raspberry</td><td>Trace</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>St. Johns Wort</td><td>High</td><td>Not Applicable</td><td>Not Applicable</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Spotted Knapweed	Medium	Not Applicable	Not Applicable	Mixed Grasses	Low	Not Applicable	Not Applicable	Blackberry/Raspberry	Trace	5 - 10 feet	5 - 10 feet	St. Johns Wort	High	Not Applicable	Not Applicable																																																						
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St. Johns Wort	High	Not Applicable	Not Applicable																																																																												
87	4199 - Other Mixed Upland Deciduous	Sawtimber Well	12.3	95	81-110	N/A	Very steep portion of stand to south. Mixed hardwood and oak. Some aspen hanging on.																																																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Beech</td><td>8</td><td></td><td>15</td><td></td></tr><tr><td>Red Oak</td><td>35</td><td></td><td>13</td><td>95</td></tr><tr><td>Hemlock</td><td>2</td><td></td><td>15</td><td></td></tr><tr><td>Sugar Maple</td><td>16</td><td></td><td>16</td><td></td></tr><tr><td>Red Maple</td><td>15</td><td></td><td>14</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>15</td><td></td><td>14</td><td></td></tr><tr><td>White Pine</td><td>5</td><td></td><td>14</td><td></td></tr><tr><td>Jack Pine</td><td>2</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Black Cherry</td><td>2</td><td></td><td>13</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Beech	8		15		Red Oak	35		13	95	Hemlock	2		15		Sugar Maple	16		16		Red Maple	15		14		Bigtooth Aspen	15		14		White Pine	5		14		Jack Pine	2	Seedling	8		Black Cherry	2		13		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Variable	Red Maple	Low	10 - 20 feet	10 - 20 feet												
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88	42290 - Natural Mixed Pine	Sapling Medium	7.9	27	Immature	N/A	Jack pine final harvested in 1997. Some trees along creek were left, along with scattered hardwoods and white pine. Came back to a heavy mix of jack pine, oak, sugar maple, white pine and aspen.																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
89	42110 - Planted Red Pine	Poletimber Well	63.0	66	141-170	N/A	Stand was planted in 1959. Stand was third row thinned in 1997.																																																												
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Ironwood	Low	5 - 10 feet	5 - 10 feet																																																																
90	330 - Low-Density Trees	Unspecifed	3.6			No	Old opening slowly filling in.																																																												
91	4131 - Aspen, Oak	Poletimber Well	2.5	80	51-80	N/A	Small ravine of mixed aspen, oak and sugar maple. Some XL trees.																																																												
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92	42110 - Planted Red Pine	Sapling Well	15.7	27	Immature	N/A	Old jack pine stand that was final harvested in 1997. Stand was planted to red pine in 1999. Just coming into pole size many saplings still present. Some jack pine competition but overall red pine appears to be winning out.																																																												
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>4</td><td>Pole</td><td>4</td><td></td></tr><tr><td>Red Oak</td><td>1</td><td></td><td>14</td><td></td></tr><tr><td>Red Pine</td><td>75</td><td>Sapling</td><td>5</td><td>27</td></tr><tr><td>Jack Pine</td><td>15</td><td>Sapling</td><td>5</td><td>27</td></tr><tr><td>Black Cherry</td><td>5</td><td>Log</td><td>1</td><td>27</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	4	Pole	4		Red Oak	1		14		Red Pine	75	Sapling	5	27	Jack Pine	15	Sapling	5	27	Black Cherry	5	Log	1	27																																			
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Red Pine	75	Sapling	5	27																																																															
Jack Pine	15	Sapling	5	27																																																															
Black Cherry	5	Log	1	27																																																															
93	4111 - S.Maple, Hard Mast Association	Sawtimber Well	7.9	106	111-140	N/A	Steep slope of decent quality sugar maple and oak. Includes small lowland near creek with a few aspen and white pine.																																																												
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>2</td><td></td><td>10</td><td></td></tr><tr><td>White Pine</td><td>2</td><td></td><td>15</td><td></td></tr><tr><td>Black Cherry</td><td>5</td><td></td><td>12</td><td></td></tr><tr><td>Sugar Maple</td><td>60</td><td></td><td>16</td><td>106</td></tr><tr><td>Basswood</td><td>10</td><td></td><td>14</td><td>106</td></tr><tr><td>Beech</td><td>8</td><td></td><td>13</td><td></td></tr><tr><td>Red Oak</td><td>12</td><td></td><td>18</td><td>106</td></tr><tr><td>Hemlock</td><td>1</td><td></td><td>8</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	2		10		White Pine	2		15		Black Cherry	5		12		Sugar Maple	60		16	106	Basswood	10		14	106	Beech	8		13		Red Oak	12		18	106	Hemlock	1		8		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Beech</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Ironwood</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Sugar Maple</td><td>Medium</td><td>>20 feet</td><td>>20 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Beech	Low	Variable	Variable	Ironwood	Medium	10 - 20 feet	10 - 20 feet	Sugar Maple	Medium	>20 feet	>20 feet	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																						
94	42110 - Planted Red Pine	Poletimber Well	24.7	67	81-110	N/A	Stand was planted in 1958. Stand third row thinned in 1987.Stand was second thinned in 1997.Stand third thinned in 2009 with ever 4th tree specked to cut (not marked)Stand has some access difficulties and slopes on west side.																						
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size																			
White Pine		1		15		White Pine		Low	< 5 feet	< 5 feet																			
Black Cherry		1		14																									
Red Pine		90		11	67																								
Sugar Maple		6		14																									
Red Oak		2		16																									
96	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	18.7	112	51-80	N/A	Stand was thinned in 1997. Stand thinned again in 2019. All ash and beech were cut as well along with dead oak. Very nice sugar maple stems, and some sugar maple regen from 1997 harvest. Most recent harvest doesn't seem to have created any desirable regen.																						
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size																			
Beech		2		15		Ironwood		Medium	5 - 10 feet	5 - 10 feet																			
Red Oak		24		19	112	Sugar Maple		Medium	>20 feet	>20 feet																			
Sugar Maple		70		16	112	White Ash		Low	5 - 10 feet	5 - 10 feet																			
Red Maple		1		12		Black Cherry		Low	Variable	Variable																			
White Oak		1		12		Beech		Medium	10 - 20 feet	10 - 20 feet																			
Basswood		2		14																									
97	3301 - Low Density Deciduous Trees	Unspecified	5.5			No	Old opening filling in with pine and oak.																						
98	310 - Herbaceous Openland	Unspecified	4.5			No	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Spotted Knapweed</td><td>High</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Mixed Grasses</td><td>High</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Autumn Olive</td><td>Trace</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Blackberry/Raspberry</td><td>Trace</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Spotted Knapweed	High	Not Applicable	Not Applicable	Mixed Grasses	High	Not Applicable	Not Applicable	Autumn Olive	Trace	5 - 10 feet	5 - 10 feet	Blackberry/Raspberry	Trace	5 - 10 feet	5 - 10 feet	Allot of spotted knapweed with warm season grasses mixed in. Two large maples within this opening. Potential lightly used party spot.	
Sub-Canopy Species	Density	Avg. Height	Size																										
Spotted Knapweed	High	Not Applicable	Not Applicable																										
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Autumn Olive	Trace	5 - 10 feet	5 - 10 feet																										
Blackberry/Raspberry	Trace	5 - 10 feet	5 - 10 feet																										
99	122 - Road/Parking Lot	Unspecified	2.3			No																							
100	42210 - Natural Red Pine		2.3	25	81-110	N/A	Gifted to state in 2023 was formally CF forest land own privately. Small openings planted to red pine around 2000 it appears.																						
Canopy Species		% Cover	Size Class	DBH	Age																								
Red Pine		100	Sapling	5	25																								
101	310 - Herbaceous Openland	Poletimber Well	2.7			No	ROW Road maintained ditch.																						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																									
102	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	18.4	112	81-110	N/A	Small creek begins in stand. Some blow-down areas along creek. Southern portion is more of E type with lots of blowdown while north is more lowland conifer swamp.																																																																									
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Red Maple	Low	10 - 20 feet	10 - 20 feet																																																																													
103	4130 - Aspen	Unspecifed	11.0	6		N/A	Final harvested in harvested 2019. A few hemlock and scattered oak and sugar maple left. Came back to mostly aspen, some deer brose but overall came back well.																																																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>1</td><td></td><td>14</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td>Log</td><td>1</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>75</td><td>Log</td><td>1</td><td>6</td></tr><tr><td>White Pine</td><td>2</td><td>Log</td><td>1</td><td></td></tr><tr><td>Black Cherry</td><td>10</td><td>Log</td><td>1</td><td></td></tr><tr><td>Beech</td><td>5</td><td>Log</td><td>1</td><td></td></tr><tr><td>Red Oak</td><td>1</td><td></td><td>15</td><td></td></tr><tr><td>Hemlock</td><td>1</td><td></td><td>7</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	1		14		Red Maple	5	Log	1		Bigtooth Aspen	75	Log	1	6	White Pine	2	Log	1		Black Cherry	10	Log	1		Beech	5	Log	1		Red Oak	1		15		Hemlock	1		7																																		
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Red Maple	5	Log	1																																																																													
Bigtooth Aspen	75	Log	1	6																																																																												
White Pine	2	Log	1																																																																													
Black Cherry	10	Log	1																																																																													
Beech	5	Log	1																																																																													
Red Oak	1		15																																																																													
Hemlock	1		7																																																																													
104	122 - Road/Parking Lot	Unspecifed	7.2			No																																																																										
105	42200 - Natural White Pine	Poletimber Medium	7.1	65	1-50	N/A	Open stand that has filled in with white pine over the decades. Significant variability in white pine diameter and ages.																																																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>10</td><td></td><td>14</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td></td><td>13</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>5</td><td></td><td>14</td><td>65</td></tr><tr><td>White Pine</td><td>75</td><td></td><td>15</td><td>65</td></tr><tr><td>Black Cherry</td><td>5</td><td></td><td>10</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	10		14		Red Maple	5		13		Bigtooth Aspen	5		14	65	White Pine	75		15	65	Black Cherry	5		10		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Scotch Pine</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Variable	Scotch Pine	Low	10 - 20 feet	10 - 20 feet																																
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106	4199 - Other Mixed Upland Deciduous	Sawtimber Well	43.6	112	81-110	N/A	Stand was thinned in 1991. Very nice quality red oak stand with hardwood mixed in on rolling terrain, some steep areas in northern portion of stand. Heavy beech component in north end with heavy scale. NW corner is old homestead with black locust grove. (Foundation present)																																																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Basswood</td><td>5</td><td></td><td>14</td><td></td></tr><tr><td>Red Pine</td><td>1</td><td></td><td>12</td><td></td></tr><tr><td>Black Locust</td><td>1</td><td></td><td>13</td><td></td></tr><tr><td>White Oak</td><td>2</td><td></td><td>15</td><td></td></tr><tr><td>Sugar Maple</td><td>18</td><td></td><td>13</td><td>112</td></tr><tr><td>Red Maple</td><td>5</td><td></td><td>13</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>10</td><td></td><td>14</td><td></td></tr><tr><td>Beech</td><td>8</td><td></td><td>12</td><td></td></tr><tr><td>Red Oak</td><td>50</td><td></td><td>20</td><td>112</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Basswood	5		14		Red Pine	1		12		Black Locust	1		13		White Oak	2		15		Sugar Maple	18		13	112	Red Maple	5		13		Bigtooth Aspen	10		14		Beech	8		12		Red Oak	50		20	112	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Ironwood</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Beech</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Sugar Maple</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Red Maple</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Medium	5 - 10 feet	5 - 10 feet	White Pine	Low	< 5 feet	< 5 feet	Beech	Low	5 - 10 feet	5 - 10 feet	Sugar Maple	Low	10 - 20 feet	10 - 20 feet	Red Maple	Low	< 5 feet	< 5 feet
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
107	3105 - Mixed Upland Herbaceous	Unspecified	7.5			No	South portion degraded with spotted knapweed. Scattered white pine.																																																			
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108	4111 - S.Maple, Hard Mast Association	Sawtimber Well	31.3	110	111-140	N/A	Stand was thinned in 2000. (marked)																																																			
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109	4130 - Aspen	Sapling Well	26.5	35	Unspecified	N/A	Stand was final harvested in 1989. Scattered oak and cedar left. Came back well to aspen.																																																			
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110	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	7.4	93	51-80	N/A	Stand was planted to mix of RP/JP and WP in 1932. All but a handful of JP has fallen out with stand converted to a mix of oak, red maple, white pine and aspen. Only a strip of planted white pine remains along road. New age based on regen that came in after jack pine fell apart.																																																			
		<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>15</td><td></td><td>14</td><td></td></tr><tr><td>White Pine</td><td>25</td><td></td><td>8</td><td>93</td></tr><tr><td>Jack Pine</td><td>30</td><td></td><td>12</td><td>93</td></tr><tr><td>Black Cherry</td><td>5</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Red Oak</td><td>5</td><td></td><td>8</td><td></td></tr><tr><td>Sugar Maple</td><td>5</td><td>Sapling</td><td>6</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>White Pine</td><td>Medium</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>Red Oak</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>						Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	15		14		White Pine	25		8	93	Jack Pine	30		12	93	Black Cherry	5	Seedling	8		Red Oak	5		8		Sugar Maple	5	Sapling	6		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	>20 feet	>20 feet	White Pine	Medium	>20 feet	>20 feet	Red Oak	Low	10 - 20 feet	10 - 20 feet
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111	42110 - Planted Red Pine		23.5	66	111-140	N/A	Stand was planted in 1959. Third row thinned in 1987. Stand was thinned in 2009 every 4th tree harvested. Included small white pine stand in SW as it is too small on its own.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
112	4131 - Aspen, Oak	Sawtimber Well	3.7	79	81-110	N/A	Stand final harvested in 1946. Mature aspen with mix of oak and maple.																																																				
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113	42140 - Planted Mixed Pine	Poletimber Well	3.2	54	141-170	N/A	Formally private this block was planted to red, white pine and white spruce. Even a few Norway spruce.																																																				
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114	4111 - S.Maple, Hard Mast Association	Poletimber Well	19.1	108	81-110	N/A	Stand was thinned in 2000. Slight to moderate rolling terrain. Hold until stand 106 is cut again. Likely merge these stands and manage together in future.																																																				
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Beech	Medium	10 - 20 feet	10 - 20 feet																																																								
115	330 - Low-Density Trees	Unspecified	1.2			No	Power line on side slope .																																																				
				<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Common Or Ground Juniper</td><td>Trace</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Staghorn Sumac</td><td>Trace</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Cladonia (Reindeer moss)</td><td>Medium</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Bracken Fern</td><td>Low</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Spotted Knapweed</td><td>High</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Mixed Grasses</td><td>Medium</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Little Bluestem</td><td>Low</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Autumn Olive</td><td>Trace</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species		Density	Avg. Height	Size	Common Or Ground Juniper	Trace	5 - 10 feet	5 - 10 feet	Staghorn Sumac	Trace	5 - 10 feet	5 - 10 feet	Cladonia (Reindeer moss)	Medium	Not Applicable	Not Applicable	Bracken Fern	Low	Not Applicable	Not Applicable	Spotted Knapweed	High	Not Applicable	Not Applicable	Mixed Grasses	Medium	Not Applicable	Not Applicable	Little Bluestem	Low	Not Applicable	Not Applicable	Autumn Olive	Trace	5 - 10 feet	5 - 10 feet																	
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116	330 - Low-Density Trees	Unspecified	6.2			No	Opening slowly filling in with mixed pine and hardwood. Light rolling terrain.																																																				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
117	330 - Low-Density Trees	Unspecified	2.2			No	Barren spot (all sand) 100ft by 100ft in center. Little bluestem and spotted knapweed surrounding. Might be a good place to plant something (pine, sand cherry, etc.) Mixture of little bluestem and a few trees in north part makes this a medium-priority degraded site.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								St. Johns Wort	Low	Not Applicable	Not Applicable	
								Little Bluestem	Low	Not Applicable	Not Applicable	
								Cladonia (Reindeer moss)	Medium	Not Applicable	Not Applicable	
								Spotted Knapweed	Medium	Not Applicable	Not Applicable	
								Mixed Grasses	Low	Not Applicable	Not Applicable	
								Common Or Ground Juniper	Trace	5 - 10 feet	5 - 10 feet	
118	4199 - Other Mixed Upland Deciduous	Poletimber Well	2.8	85	51-80	N/A	Small sliver stand of oak and hardwoods.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Basswood	5		12	
								Red Oak	55		11	85
								White Pine	5		12	
								Sugar Maple	15		10	85
								Red Maple	5	Seedling	8	
								Bigtooth Aspen	15		10	
119	4131 - Aspen, Oak	Poletimber Well	43.7	61	81-110	N/A	Mixed aspen red maple stand resulting from final harvest in 1965. Scattered larger red oak as well as white and red pine in SE portion of stand. Rolling to steep terrain throughout stand. Red and white pine planted in 1934. Harvest in 1965 cutting aspen with oak and some white pine/red pine left at that time.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Medium	5 - 10 feet	5 - 10 feet	
								Ironwood	Low	10 - 20 feet	10 - 20 feet	
								Red Maple	Low	10 - 20 feet	10 - 20 feet	
								Beech	Low	5 - 10 feet	5 - 10 feet	
								Red Oak	Low	10 - 20 feet	10 - 20 feet	
								120	4110 - Sugar Maple Association	Sawtimber Well	8.5	101
Canopy Species	% Cover	Size Class	DBH	Age								
Basswood	15		12	101								
Sugar Maple	70		10	101								
Red Oak	15		18									
Sub-Canopy Species	Density	Avg. Height	Size									
Ironwood	Low	< 5 feet	< 5 feet									
Sugar Maple	Low	10 - 20 feet	10 - 20 feet									
Black Cherry	Medium	Variable	Variable									
Beech	Low	Variable	Variable									
Mixed quality hardwood with red oak component. Just into log size overall.												

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
121	3103 - Rubus-Fern	Unspecified	1.2			No	Walk-in. Mostly bracken fern with poverty grass/cladonia in center. A little bit of aspen encroachment south side, but deer are browsing these down.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Poverty Grass	Medium	Not Applicable	Not Applicable	
								Mixed Grasses	Trace	Not Applicable	Not Applicable	
								St. Johns Wort	Trace	Not Applicable	Not Applicable	
								Cladonia (Reindeer moss)	Low	Not Applicable	Not Applicable	
								Bracken Fern	High	Not Applicable	Not Applicable	
122	42260 - Natural Pine, Mixed Deciduous	Sawtimber Poor	10.4	90	1-50	N/A	Old more open stand that has filled in over decades. Mixed diameter white pine. Includes grove of oak in center. Trespass of old vehicles and junk on south line.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	24		14	90
								Sugar Maple	5		12	
								White Pine	55		12	90
								Jack Pine	10	Seedling	8	30
								Black Cherry	2		10	
								Basswood	2		14	
								White Oak	2		10	90
								Sub-Canopy Species	Density	Avg. Height	Size	
								Ironwood	Low	< 5 feet	< 5 feet	
								White Pine	Medium	Variable	Variable	
Jack Pine	Medium	Variable	Variable									
Black Cherry	Low	Variable	Variable									
123	310 - Herbaceous Openland	Unspecified	1.4			No	Potentially old homestead.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Spotted Knapweed	Low	Not Applicable	Not Applicable	
								Mixed Grasses	Full	Not Applicable	Not Applicable	
124	6220 - Alder/Willow	Unspecified	3.8			No	Lowland with willow. Raspberry/rubus heavy around perimeter. One of the few lowlands within this compartment.					
126	42290 - Natural Mixed Pine	Sapling Medium	4.0	17	Immature	N/A	Mixed jack pine and white pine regenerating from final harvest in 2009.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Ironwood	5	Log	2	
								Red Maple	10	Log	3	17
								Red Pine	5		12	
								Red Pine	5	Log	2	17
								White Pine	35	Log	3	17
								Jack Pine	30	Log	2	17
								Black Cherry	10	Log	3	17
127	42110 - Planted Red Pine	Sawtimber Well	28.7	66	111-140	N/A	Stand was planted in 1959. Stand was third row thinned in 1987.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Oak	2		12	
								Red Pine	98		11	66
								Sub-Canopy Species	Density	Avg. Height	Size	
								Beech	Medium	5 - 10 feet	5 - 10 feet	
								Ironwood	Low	Variable	Variable	
White Pine	Medium	5 - 10 feet	5 - 10 feet									
							Stand was second thinned in 2009. Every 4th tree taken by spec.					
							Hilly terrain with variable understory from thick in some spots to non existent in others.					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
128	42220 - Natural Jack Pine	Sapling Well	11.1	16	Immature	N/A	Stand was final harvested in 2009. All jack pine was cut. Scattered oak left. Came back well to jack pine.				
Canopy Species		% Cover	Size Class	DBH	Age						
Red Maple		5	Log	3							
Beech		5	Log	2	16						
Red Oak		5	Log	2	16						
Jack Pine		80	Log	3	16						
Black Cherry		5	Log	2	16						
129	4130 - Aspen	Poletimber Well	25.6	51	51-80	N/A	Rolling terrain aspen dominate but hardwood and oak mixed. North end of stand small openings mixed in.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		5		11		Beech		Low	Variable	Variable	
Black Cherry		3		12		White Pine		Low	Variable	Variable	
Basswood		6		14		Sugar Maple		Low	10 - 20 feet	10 - 20 feet	
Beech		1		12							
Red Oak		7		12							
Sugar Maple		12		14							
Red Maple		6		11							
Bigtooth Aspen		60		10	51						
130	4130 - Aspen	Sapling Well	19.1	36	51-80	N/A		Stand was final harvested in 1988, scattered ok left at that time.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
White Pine		4		12		Ironwood			High	10 - 20 feet	10 - 20 feet
Black Cherry		5	Seedling	6	36						
Red Oak		10		18							
Red Oak		1	Seedling	6	36						
Red Maple		10	Seedling	6	36						
Bigtooth Aspen		70	Seedling	8	36						
131	4130 - Aspen	Poletimber Well	11.4	51	81-110	N/A	Pole aspen with mature oak and aspen left in SW corner on hillside.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Red Maple		8	Seedling	8	51	Red Maple			Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen		83	Seedling	8	51	White Pine			Medium	10 - 20 feet	10 - 20 feet
White Pine		2		12		Beech		Low	< 5 feet	< 5 feet	
Red Oak		7		8	51						
134	4110 - Sugar Maple Association	Sawtimber Well	18.6	106	51-80	N/A		Stand was thinned in 1998.Decent quality sugar maple stems. Rolling to steep terrain on east side. Some areas too steep for management.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size	
White Oak		1		15		Beech	Medium		5 - 10 feet	5 - 10 feet	
Sugar Maple		70		13	106	Sugar Maple	Low		5 - 10 feet	5 - 10 feet	
Basswood		10		15	106	White Ash	Low		5 - 10 feet	5 - 10 feet	
Beech		2		13		Ironwood	Medium		10 - 20 feet	10 - 20 feet	
Red Oak		17		18	106	Black Cherry	Medium		Variable	Variable	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
135	3104 - Degraded	Unspecified	1.5				Old oil well pad. A little bit of pine and aspen encroachment in SE finger - good thing. Main part of opening is DEGRADED. Would like to do something with this spot. Unlisted species are mullein and hoary alysum.					
				Sub-Canopy Species	Density	Avg. Height		Size				
				Spotted Knapweed	Full	Not Applicable		Not Applicable				
				St. Johns Wort	High	Not Applicable		Not Applicable				
136	4111 - S.Maple, Hard Mast Association	Sapling Well	90.6	100	81-110	N/A	Stand was thinned last in 1999. Decent quality sugar maple and red oak on hilly terrain. Little to no desirable regen from last harvest. 30 acres cut out (now stand 200) for Research area. MWR hardwood regen study area					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Cherry	2		12	
								Basswood	10		14	100
								Beech	2		13	
								Red Oak	20		18	
								Sugar Maple	65		14	100
								Bigtooth Aspen	1		14	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Sugar Maple	Low	Variable	Variable	
Ironwood	High	10 - 20 feet	10 - 20 feet									
Beech	Medium	5 - 10 feet	5 - 10 feet									
Hemlock	Trace	Variable	Variable									
138	3105 - Mixed Upland Herbaceous	Unspecified	1.2				Powerline. At this portion, multiple clumps of bracken fern. other spots with grasses and spotted knapweed.					
				Sub-Canopy Species	Density	Avg. Height		Size				
				Common Or Ground Juniper	Trace	5 - 10 feet		5 - 10 feet				
				Spotted Knapweed	Medium	Not Applicable		Not Applicable				
				Mixed Grasses	Medium	Not Applicable		Not Applicable				
				Bracken Fern	High	Not Applicable		Not Applicable				
139	4310 - Pine, Oak Mix	Sapling Medium	4.9	27	Immature	N/A	Stand was final harvested in 1998.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	10	Log	3	
								Jack Pine	45	Log	3	27
								Ironwood	10	Log	1	
								Bigtooth Aspen	5	Log	2	27
								Beech	10	Log	2	
								Red Oak	20	Log	1	27
140	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	10.1	75	81-110	N/A	Mixed stand of white pine, along with poor quality oak and hardwood. White pine open grown and of variable quality.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Basswood	2		14	
								White Pine	65		15	75
								Red Pine	1		12	
								Red Oak	15		13	
								Sugar Maple	5		12	
								Red Maple	5		12	
								Bigtooth Aspen	7		12	
								Sub-Canopy Species	Density	Avg. Height	Size	
White Pine	Medium	5 - 10 feet	5 - 10 feet									
Beech	Low	5 - 10 feet	5 - 10 feet									
Red Oak	Low	10 - 20 feet	10 - 20 feet									
Sugar Maple	Low	< 5 feet	< 5 feet									
Red Maple	Low	< 5 feet	< 5 feet									

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																	
141	330 - Low-Density Trees	Sawtimber Poor	18.1			No	Scattered trees filling in old open area. Appears to have RDR and dumping potential issues. Close to calling forested but too scattered at this time.																																																																																	
142	4130 - Aspen	Poletimber Well	19.5	36	81-110	N/A	Stand was final harvested in 1988. Portion of old Twp dump along NE side of stand																																																																																	
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143	4111 - S.Maple, Hard Mast Association	Sawtimber Well	38.6	106	51-80	N/A	Stand was thinned in 2000. Average quality maple and red oak stand. Beech still hanging on with no evidence of heavy scale. Rolling terrain with limited to no sugar maple in understory.																																																																																	
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145	4130 - Aspen	Poletimber Well	14.0	35	Unspecified	N/A	Stand was final harvested in 1989. Came back well to aspen.																																																																																	
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146	4199 - Other Mixed Upland Deciduous	Sawtimber Well	35.0	89	81-110	N/A	Lower quality mixed hardwood and oak then most of the other hardwood stand in this compartment. Hilly to steep terrain in spots with white pine component in middle of stand. Pocket of sugar maple just into small log size.																																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
148	4111 - S.Maple, Hard Mast Association	Sawtimber Poor	5.3	106	1-50	N/A	Stand was thinned in 2009 and all aspen cut. Scattered lower quality oak and hardwood with variable second age class for 2009 harvest. Overstory stocking variable. Stand on side slope in spots.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Basswood		33		14	106	White Pine		Medium	< 5 feet	< 5 feet
Sugar Maple		35		12	106	Red Pine		Low	< 5 feet	< 5 feet
Red Oak		20		12		Ironwood		Low	10 - 20 feet	10 - 20 feet
Red Pine		2		12		Beech		Low	10 - 20 feet	10 - 20 feet
White Pine		10		13		Bigtooth Aspen		Medium	10 - 20 feet	10 - 20 feet
150	42110 - Planted Red Pine	Sapling Well	43.3	5	Immature	N/A	Stand final harvested in 2018. Stand planted to red pine in 2021.			
Canopy Species		% Cover	Size Class	DBH	Age	9/23/2023 - Year 3 regeneration survey completed. Stand is currently sitting at around 714 Trees per acre and is 95% Free to Grow at this time. 11/9/2021 - Year 1 regeneration survey completed. Stand has approximately 883 trees per acre. Stand is free to grow at this time no herbicide treatment is currently recommended. Check stand for year 3 regeneration survey is also recommended.2021. stand planted with container seedling. 2020: Herbicide Aerial application. Harvested Fall 2018. Full harvest with no in stand retention. Retention areas left outside of treatment area. Cut to 1" dbh. Stand had heavy ironwood and beech understory in places as well as some maple around edges. Stand should be sprayed to eliminate wood sprouting after stand has full sprouted. (Summer 2020?) After that stand should be trenched and planted with red pine.				
Red Pine		100	Log	1	5					
151	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	2.2	66	81-110	N/A	Stand was planted in 1959. Stand was third row thinned in 1987.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Long term retention area for sale in stand 127
White Oak		10		12	87	Red Maple	Low	5 - 10 feet	5 - 10 feet	
Red Pine		70		12	66	White Pine	Low	5 - 10 feet	5 - 10 feet	
White Pine		10		13						
Red Oak		10		12	87					
152	42110 - Planted Red Pine	Sawtimber Well	18.9	70	81-110	N/A	Stand was planted in 1955.Stand was thinned in 1999 with every 4th tree taken by spec. Stand was thinned again in 2008(marked).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	West strip is sides slope of planted jack pine that is falling apart and was avoided in the past i assume due to slope.
White Pine		1		14		Autumn Olive	Low	5 - 10 feet	5 - 10 feet	
Jack Pine		5		9		Black Cherry	Low	5 - 10 feet	5 - 10 feet	
Black Cherry		2		13						
Red Oak		1		12						
Red Pine		89		14	70					
Red Maple		2		11						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
153	42110 - Planted Red Pine	Sawtimber Well	33.0	66	81-110	N/A	Stand was third row thinned in 1987. Stand was marked thinned in 1997. Stand thinned again in 2009. (Ever 4th tree)Nice block of red pine at ideal spacing.																																												
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>1</td><td></td><td>13</td><td></td></tr><tr><td>Red Pine</td><td>98</td><td></td><td>13</td><td>66</td></tr><tr><td>Black Cherry</td><td>1</td><td></td><td>12</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Oak	1		13		Red Pine	98		13	66	Black Cherry	1		12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Beech</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Pine</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Ironwood</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	< 5 feet	< 5 feet	Beech	Medium	5 - 10 feet	5 - 10 feet	Red Pine	Low	< 5 feet	< 5 feet	Ironwood	Low	5 - 10 feet	5 - 10 feet							
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154	42110 - Planted Red Pine	Sapling Well	29.3	5	Immature	N/A	Stand was final harvested in 2018. (trees left along private and county road. 2020 aerial herbicide spay to control competition. Planted to red pine containerized in 2021. 9/20/2023 - Stands year 3 Regen Survey was completed 9/20/2023. Stand has currently 637 Trees Per Acre and is 99% Free to Grow at this time. 11/9/2021 - Year 1 regeneration survey completed. Stand has approximately 852 trees per acre. Stand is free to grow at this time no herbicide treatment is currently recommended. Check stand for year 3 regeneration survey is also recommended. 2021; planted with containerized red pine. 2020: Aerial herbicide application. 2019: Harvested 2018. . Removed remaining red pine. Trenched fall 2018 Jack pine strips were chopped 2017. Site prep spray 2020 and plant red pine 2021.																																												
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>100</td><td>Log</td><td>1</td><td>5</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	100	Log	1	5																																							
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Red Pine	100	Log	1	5																																															
155	42220 - Natural Jack Pine	Sapling Well	9.1	25	Immature	N/A	Stand was final harvested in 1999. Came back well to jack pine. Still sapling overall but will be pole size soon.																																												
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>4</td><td>Pole</td><td>4</td><td>25</td></tr><tr><td>White Pine</td><td>3</td><td>Pole</td><td>4</td><td>25</td></tr><tr><td>Jack Pine</td><td>75</td><td>Pole</td><td>4</td><td>25</td></tr><tr><td>Black Cherry</td><td>18</td><td>Pole</td><td>4</td><td>25</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	4	Pole	4	25	White Pine	3	Pole	4	25	Jack Pine	75	Pole	4	25	Black Cherry	18	Pole	4	25																								
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Jack Pine	75	Pole	4	25																																															
Black Cherry	18	Pole	4	25																																															
157	122 - Road/Parking Lot	Unspecifed	2.9			No																																													
160	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	6.0	17	Immature	N/A	Stand was final harvested in 2008. Scattered oak/ hardwood left. Was formally jack pine, the east strip came back more to pine while the west one came back more to beech and hardwood.																																												
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Oak</td><td>2</td><td>Log</td><td>2</td><td></td></tr><tr><td>White Pine</td><td>23</td><td>Log</td><td>2</td><td>17</td></tr><tr><td>Jack Pine</td><td>30</td><td>Log</td><td>2</td><td>17</td></tr><tr><td>Black Cherry</td><td>10</td><td>Log</td><td>2</td><td>17</td></tr><tr><td>Red Pine</td><td>10</td><td>Log</td><td>2</td><td>17</td></tr><tr><td>Sugar Maple</td><td>5</td><td>Log</td><td>2</td><td>17</td></tr><tr><td>Beech</td><td>10</td><td>Log</td><td>2</td><td>17</td></tr><tr><td>Red Oak</td><td>10</td><td></td><td>12</td><td>70</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		White Oak	2	Log	2		White Pine	23	Log	2	17	Jack Pine	30	Log	2	17	Black Cherry	10	Log	2	17	Red Pine	10	Log	2	17	Sugar Maple	5	Log	2	17	Beech	10	Log	2	17	Red Oak	10		12	70				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
161	4110 - Sugar Maple Association	Sawtimber Poor	4.9	70	1-50	N/A	Open grown sugar maple that has filled in with pine in understory. Small opening on west side.																																																															
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162	4119 - Mixed Northern Hardwoods	Sawtimber Well	15.0	101	81-110	N/A	Has been thinned in prior entry. Some old orange marked still in stand. Stocking is fine. Let grow in.																																																															
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164	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	125.6	115	1-50	N/A	Heavily managed stand see notes below. Today left with broken canopy of maple and red oak. Little to no desirable regen. Slight rolling terrain. Stand was thinned in 1999. Salvage after severe storm damage occurred in 2014. In 2012 a salvage harvest was done due to EAD and BBD. Remove only ash and beech. A few dead red oak also removed-dead from decline/stress after last harvest/drought /forest tent caterpillar.																																																															
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165	4199 - Other Mixed Upland Deciduous	Sawtimber Well	10.8	92	81-110	N/A	Small stand of mixed oak/aspen and hardwood along small bowl. Much of stand on side slope. Some dead oak.																																																															
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167	3105 - Mixed Upland Herbaceous	Unspecified	7.6			No	Powerline with two-track. Grass with spotted knapweed. NE portion has pole upland deciduous. A little bit of wood/slash.																																																															
<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Spotted Knapweed</td><td>High</td><td>Not Applicable</td><td>Not Applicable</td></tr><tr><td>Mixed Grasses</td><td>High</td><td>Not Applicable</td><td>Not Applicable</td></tr></table>						Sub-Canopy Species		Density	Avg. Height	Size	Spotted Knapweed	High	Not Applicable	Not Applicable	Mixed Grasses	High	Not Applicable	Not Applicable																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
168	42110 - Planted Red Pine	Sawtimber Well	32.6	67	81-110	N/A	Stand was planted in 1958. Stand was third row thinned in 1998.Second thinning performed in 2008. (marked)Portion of stand to north that was left from final harvest. Slight rolling terrain. Heavy regen along southern boundary, white pine taking hold in stand well.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		95		13	67	Ironwood		Low	5 - 10 feet	5 - 10 feet
Beech		1		11		Beech		Low	< 5 feet	< 5 feet
Red Oak		3		12		White Pine		Medium	Variable	Variable
Sugar Maple		1		12		Black Cherry		Low	5 - 10 feet	5 - 10 feet
						Red Pine		Low	Variable	Variable
169	4110 - Sugar Maple Association	Sawtimber Well	11.1	89	51-80	N/A	Stand was last thinned in 2009. Dieback on edge appears to have been overspray from adjacent red pine cultivation work. Hilly to steep terrain. Medium quality sugar maple stand with red oak component.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Basswood		5		14		Blackberry/Raspberry		High	5 - 10 feet	5 - 10 feet
Beech		1		12		Sugar Maple		Low	10 - 20 feet	10 - 20 feet
Red Oak		18		20		Ironwood		Medium	5 - 10 feet	5 - 10 feet
Sugar Maple		75		13	89					
Red Pine		1		13						
170	4111 - S.Maple, Hard Mast Association	Sawtimber Well	49.5	112	81-110	N/A	Stand was last thinned in 2000. Good quality mixed sugar maple and oak stand on hilly to steep terrain. West end is more maple while east is heavier to oak.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		60		15	112	Ironwood		High	10 - 20 feet	10 - 20 feet
Red Maple		5		13		Beech		Medium	10 - 20 feet	10 - 20 feet
White Pine		3		15		White Pine		Low	< 5 feet	< 5 feet
Basswood		10		14	112					
Beech		2		13						
Red Oak		20		18						
171	4130 - Aspen	Sapling Well	30.4	26	Immature	N/A	Stand final harvested in 1998 with all hemlock and red pine left. Came back to aspen and red maple. Semi open areas in stand. 2015: TS# 019-97. Cut to 2" but no hemlock or red pine. TCR 11/98. Scattered Red Pine retention L-XL. Regeneration is a bit patchy but has filled in pretty well. Some areas are heavier to rm sprouts. 2005:Stand received heavy deer browse in south central part - growth and stems /acre are less			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Pine		6		17						
Sugar Maple		2	Log	3						
Red Maple		17	Pole	4	26					
Bigtooth Aspen		60	Sapling	5	26					
Beech		1	Sapling	5						
Red Oak		5	Sapling	5	26					
White Pine		6	Pole	4						
Black Cherry		3	Sapling	5						
172	31021 - Cool Season Grass	Unspecified	1.5			Yes	A small hill. Both types of hawkweed present (unlisted species).			
Sub-Canopy Species		Density	Avg. Height	Size						
Spotted Knapweed		Trace	Not Applicable	Not Applicable						
Mixed Grasses		Full	Not Applicable	Not Applicable						
Sheep Sorrel		Trace	Not Applicable	Not Applicable						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
173	42110 - Planted Red Pine	Sawtimber Well	57.8	67	81-110	N/A	Stand was planted to red pine in 1958. Stand was thinned again in 2009. (Cut every 4th tree spec)Stand was marked thinned in 1999.																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>1</td><td></td><td>15</td><td></td></tr><tr><td>Red Pine</td><td>98</td><td></td><td>13</td><td>67</td></tr><tr><td>Red Oak</td><td>1</td><td></td><td>14</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	1		15		Red Pine	98		13	67	Red Oak	1		14		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Blackberry/Raspberry</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Sugar Maple</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Beech</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>White Pine</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Black Cherry</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Pine</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Blackberry/Raspberry	Medium	5 - 10 feet	5 - 10 feet	Sugar Maple	Low	Variable	Variable	Beech	High	10 - 20 feet	10 - 20 feet	White Pine	Medium	5 - 10 feet	5 - 10 feet	Black Cherry	Low	5 - 10 feet	5 - 10 feet	Red Pine	Low	< 5 feet	< 5 feet	Stand was third row thinned in 1987.	
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175	3301 - Low Density Deciduous Trees	Unspecifed	3.1			No	Old open area filling in with back locust and other mixed hardwood and pine.																																																
176	42290 - Natural Mixed Pine	Sapling Poor	11.4	15	Immature	N/A	Stand was final harvested in 2009, was a jack pine stand. A few white pine were left. Came back to mix of white pine and jack pine.																																																
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Red Pine	5	Log	1	15																																																			
177	4123 - Red Oak	Sawtimber Well	6.0	110	81-110	N/A	Stand was cut in 2000 with all oak and white pine left. Left with heavy oak and white pine overstory.																																																
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178	4130 - Aspen	Poletimber Well	20.7	56	51-80	N/A	Stand was final harvested in 1969. Came back to aspen with mix of red maple and red oak. Scattered white pine that appears may have been left in 1969. Without management stand would eventually convert to oak and red maple.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
180	4130 - Aspen	Sapling Poor	17.4	14	Immature	N/A	Stand was final harvested in 2011 with scattered oak, hemlock and white pine left. Came back well to aspen, cherry and red maple .
Canopy Species		% Cover	Size Class	DBH	Age		
Sugar Maple		1		16			
Red Maple		10	Log	2	14		
Bigtooth Aspen		70	Log	2	14		
Red Oak		2		16			
Hemlock		1		13			
White Pine		4		15			
White Pine		2	Log	2			
Black Cherry		10	Log	2	14		
181	4133 - Aspen, Mixed Pine	Sawtimber Poor	21.2	14	1-50	N/A	Stand was cut in 2010 with all conifer and scattered oak green marked to leave. Created two aged stand.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		25		12	80		
White Pine		6	Log	1			
Black Cherry		10	Log	2			
Red Oak		4		12	80		
Red Maple		10	Log	2			
Bigtooth Aspen		45	Log	2	14		
182	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	8.3	29	Immature	N/A	Stand was final harvested in late 1990s. Was formally private land. (Frost Property) Variable stand of mixed pine with aspen/cherry and oak component as well. Most of pine appears to be planted.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Oak		10	Sapling	6			
White Pine		25		7			
Black Cherry		10	Sapling	5			
Scotch Pine		35	Sapling	7	29		
Paper Birch		5	Sapling	7			
Quaking Aspen		15	Sapling	5			
184	4130 - Aspen	Sapling Well	32.7	14	Immature	N/A	Stand was final harvested in 2011 with all conifer and scattered green marked oak left. Came back well to aspen.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		5		12			
White Pine		2	Log	1			
Black Cherry		6	Log	2	14		
Red Oak		2		15			
Red Maple		15	Log	2	14		
Bigtooth Aspen		70	Log	2	14		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
186	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	16.6	112	51-80	N/A	Stand was thinned in 1991. Stand thinned again in 2019 with all ash and beech cut as well by spec. (Larger Oak was targeted).																																																													
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187	310 - Herbaceous Openland	Unspecifed	1.9				Old well pad.																																																													
188	4199 - Other Mixed Upland Deciduous	Sawtimber Well	22.1	115	81-110	N/A	Stand was thinned in 1999. Mixed oak/ maple stand with pocket of white pine in center of stand.																																																													
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189	4311 - Pine, Aspen Mix	Poletimber Well	18.2	40	51-80	N/A	Heavy even mix of aspen, oak, red and white pine. West heavier to pine while east in more aspen/oak. Slight rolling terrain.																																																													
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190	42110 - Planted Red Pine	Unspecified	39.5	4	Immature	N/A	2024 - Stand passed year 3 regeneration check on 9/19/2024. There are an estimated 768 TPA and stand is currently 98% free to grow at this time. 2022 Fall - 10/25/2022 Stand's First Year Regen Survey was completed; Stand has an estimated 700 trees per acre and is 100% free to grow at this time. 2022 Spring - Stand was Planted to Red Pine 5/9/2022 2021: site prep spray skidder. 2020 - Stand was trenched 2019 - Stand was final harvested under timber sale contract # 61-047-17.																																																													
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193	3302 - Low Density Conifer Trees	Unspecified	1.7			No	Steep hillside with few scattered white pine																																																													

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
195	42110 - Planted Red Pine		4.8	66	81-110	N/A	Stand was planted in 1959. Third row thinned in 1987. Every 4th tree cut in 2009.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	1		14		Black Cherry	Low		5 - 10 feet	5 - 10 feet
Red Pine	98		10	66	Ironwood	Low		5 - 10 feet	5 - 10 feet
Black Cherry	1		14		Autumn Olive	Low		5 - 10 feet	5 - 10 feet
					Beech	Medium		5 - 10 feet	5 - 10 feet
197	4131 - Aspen, Oak	Poletimber Well	8.4	46	51-80	N/A	Aspen stand with significant oak pockets. Half of stand is in slope down to road with one small area likely too steep for management.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	1		15		White Pine	Low		5 - 10 feet	5 - 10 feet
White Oak	1		11		Black Cherry	Medium		5 - 10 feet	5 - 10 feet
Sugar Maple	1		12		Ironwood	Low		Variable	Variable
Red Maple	10		12		Red Maple	Low		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	65	Seedling	9	46	Beech	Low		< 5 feet	< 5 feet
Red Oak	22		16						
198	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	55.5	92	1-50	N/A	Stand was cut in 2016 as part of storm salvage effort. All aspen along with marked hardwood and oak were left. As well large areas of retention were left in stand. Pine in this area was planted in 1932. This harvest created a two aged stand of scattered red oak/white pine and some maple over aspen/ white pine and some maple oak regeneration.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	30		12		White Pine	Medium		5 - 10 feet	5 - 10 feet
Red Oak	55		15	92	Red Maple	Medium		10 - 20 feet	10 - 20 feet
Sugar Maple	3		11		Bigtooth Aspen	High		10 - 20 feet	10 - 20 feet
Red Maple	5		13	61	Ironwood	Low		10 - 20 feet	10 - 20 feet
White Oak	3		14		Beech	Low		5 - 10 feet	5 - 10 feet
Basswood	1		12		Red Oak	Medium	10 - 20 feet	10 - 20 feet	
200	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	29.7	100	51-80	N/A	2025 notes- Gaps created came back to mix of ironwood, beech and black cherry. Little to no maple. Last cut in 2018 as part of research project. 20 circular patch cuts from 1/3-1 acre installed on this block. Total of 12.5 acres harvested. Cut to 2"dbh within harvest patches. Created new stand from stand 136 to track this and follow regeneration success. Part of Mile Walters research project on northern hardwoods regeneration. Stand was thinned in 1999 before this harvest.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Cherry	2		12		Beech	Medium		5 - 10 feet	5 - 10 feet
Basswood	15		14	100	White Pine	Trace		Variable	Variable
Beech	2		14		Black Cherry	Medium		5 - 10 feet	5 - 10 feet
Red Oak	25		16		Sugar Maple	Trace		5 - 10 feet	5 - 10 feet
Sugar Maple	55		13	100	Ironwood	High		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	1		14						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
204	42110 - Planted Red Pine	Sapling Well	58.5	5	Immature	N/A	Stand was final harvested in 2018. Trenched in 2019. Sprayed in 2020 and then planted 2021. 9/15/2023 - Stands Year 3 Regeneration Survey was Completed 9/15/2023. The is currently 766 Trees per acre and stand is 100% Free to Grow at this time. 11/9/2021 - Year 1 regeneration survey completed. Stand has approximately 852 trees per acre. Stand is free to grow at this time no herbicide treatment is currently recommended. Check stand for year 3 regeneration survey is also recommended.2021; SITE PLANTED WITH CONTAINERIZED RED PINE SEELINGS. 2020: Aerial herbicide application 2020. 2019: Stand trenched. Herbicide 2020 and plant rp 2021 if trees available. Harvested Fall/Winter 2018 Cut to 1" Stand had understory concerns with beech, ironwood, autumn olive, honeysuckle. Herbicide stand (2020?) to eliminate wood competition and then trench and plant red pine.																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>100</td><td>Log</td><td>1</td><td>5</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100	Log	1	5															
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Red Pine	100	Log	1	5																												
205	42290 - Natural Mixed Pine	Unspecifed	3.1	18	1-50	N/A	Stand was pocket of oak that had 100 % mortality from very virulent oak wilt attack. Filled in with bushy white pine and red pine.																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>50</td><td>Log</td><td>2</td><td>18</td></tr><tr><td>White Pine</td><td>45</td><td>Log</td><td>3</td><td>18</td></tr><tr><td>Black Cherry</td><td>3</td><td>Log</td><td>2</td><td></td></tr><tr><td>Sugar Maple</td><td>2</td><td>Log</td><td>3</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	50	Log	2	18	White Pine	45	Log	3	18	Black Cherry	3	Log	2		Sugar Maple	2	Log	3	
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