

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:

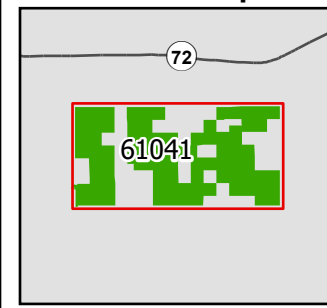
The following reports from the Inventory are attached:

- 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**

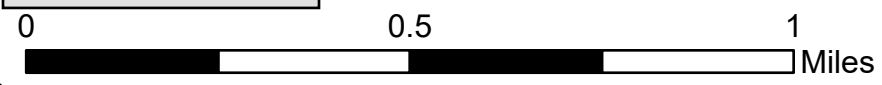
The following information is displayed, where pertinent, on the attached compartment maps:

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

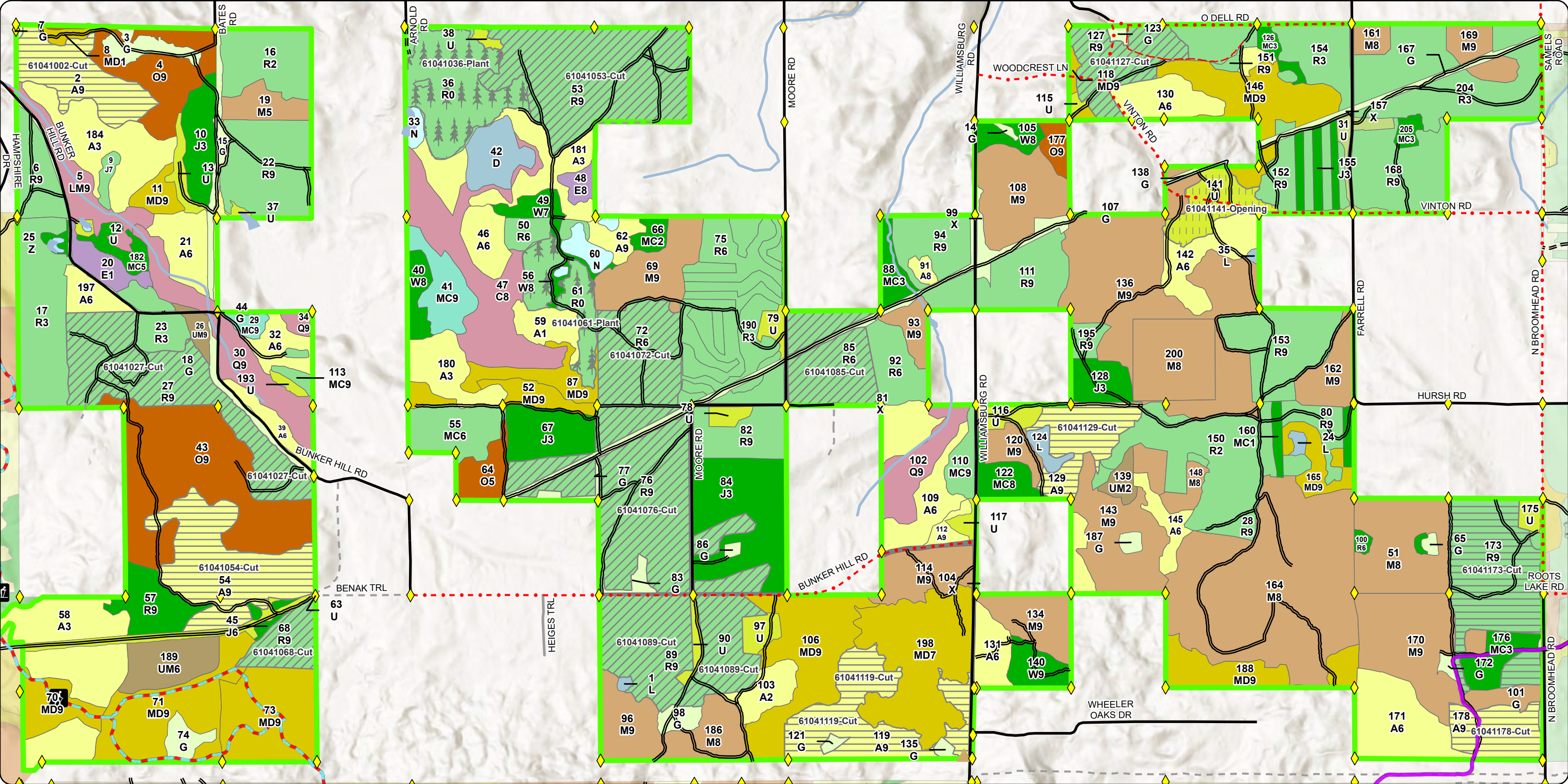
Cover Type & Treatments Map



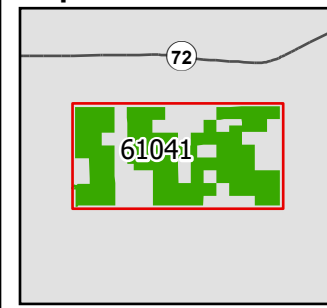
Compartment: 61041
 T27N R09W 07-10, 15-18
 County: Grand Traverse
 Unit: Traverse City
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 YOE: 2027
 Acres: 3,222 GIS Calculated
 Examiner: Joe Ventimiglia
 Date Exported: 1/9/2026
 Map Phase: Post Maps



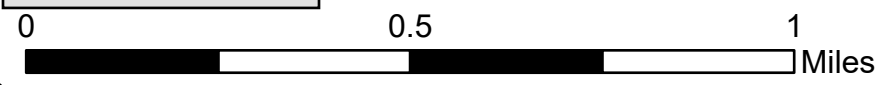
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|-------------------------------|---|---------------------------|-----------------------------------|------------------------------|
| ◆ Survey Grade Corners | == DNR - Forest Access Route | ▭ Clearcut | ■ 419 - Mixed Upland Deciduous | ■ 613 - Lowland Mixed Forest |
| ▲ Berm | — Federal / State / County - Paved Road | ▨ Thinning | ■ 421 - Planted Pines | ■ 122 - Road/Parking Lot |
| — Designated ORV Routes | - - - County - Gravel Road | ▭ Planting (tree species) | ■ 422 - Natural Pines | ■ 310 - Herbaceous Openland |
| — Designated Snowmobile | - - - County - Dirt Road (Seasonal) | ▭ Openings Mgmt. | ■ 429 - Mixed Upland Conifers | ■ 320 - Upland Shrub |
| — Designated Hiking Pathway | — Private - Paved Road | ■ 411 - Northern Hardwood | ■ 430 - Upland Mixed Forest | ■ 330 - Low Density Trees |
| — Designated Bicycle Trails | - - - Private - Dirt / Gravel Road | ■ 412 - Oak Types | ■ 500 - Water | ■ 622 - Lowland Shrub |
| — Designated Ski Trails | — Streams | ■ 413 - Aspen | ■ 611 - Lowland Deciduous Forest | ■ 623 - Emergent Wetland |
| — DNR - Secondary Forest Road | — Lakes and Rivers | | ■ 612 - Lowland Coniferous Forest | ■ Herbaceous Openland |



Stand Boundary Map

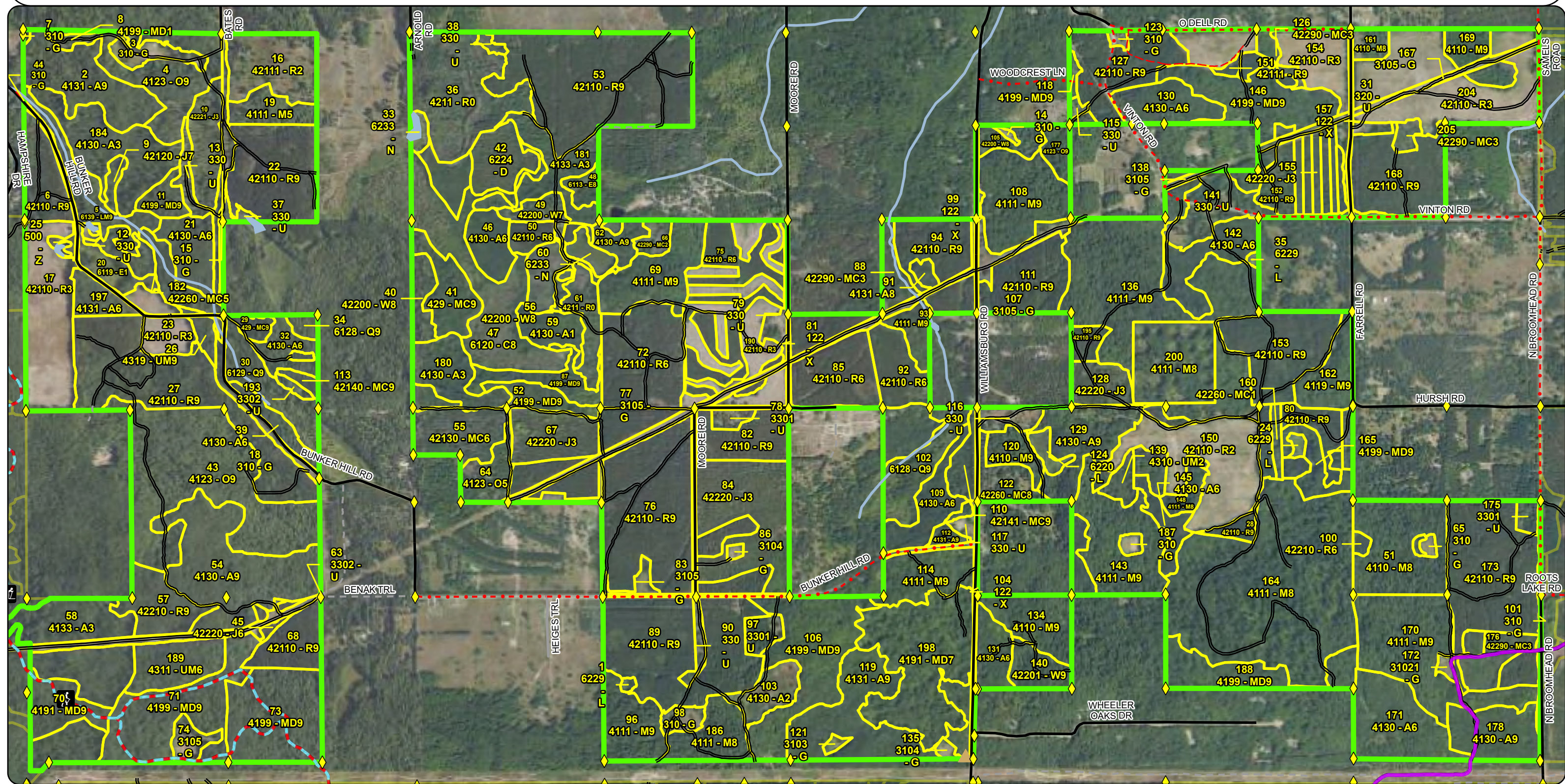


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- ◆ Survey Grade Corners
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- DNR - Secondary Forest Road
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- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- Private - Paved Road
- - - Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Compartment Boundary

- 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



Report 1 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit

Compartment 41

Year of Entry 2027

Joe Ventimiglia: Examiner

Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	21	124	30	99	43	88	98	0	14	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	15	121	0	106	53	0	0	0	0	298
Natural Mixed Pines	0	0	30	8	8	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	0	11	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	0	23	0	0	0	7	0	0	0	0	0	0	0	30
Red Pine	67	249	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	284	270	252	111	107	61	115	630	241	68	149	383	502	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 - 1163
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	174	0	0	0	0	0	0	0	0	174
Red Pine	57	0	0	0	413	0	0	0	0	471
Total	231	0	0	0	413	0	0	0	0	645

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	645	0	63	0	0	0	0	0	0	726
Next Step	0	114	57	0	0	57	414	0	0	642
Total	645	114	120	0	0	57	414	0	0	1368

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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:

2	61041002-Cut	30.2	4131 - Aspen, Oak	9	59	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
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Prescription Final harvest leaving all red and white pine. As well leave retention pocket at foresters discretion.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen primary with oak, maple and white pine accepted as well.

Regen:

Other 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.

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

27	61041027-Cut	63.3	42110 - Planted Red Pine	9	74	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

Specs: 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

Comment: thinning in this stand. This stand could be replanted or pushed to mixed maple and oak down the road.

Site Condition:

Proposed Start Date: 10/01/2026

36	61041036-Plant	41.7	4211 - Planted Red Pine	0	1	Immature	Planting	Planting (tree species)	42110 - Planted Red Pine		No
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Prescription Plant red pine unfurrowed after stand has been site prep sprayed.

Specs:

Next Step Monitoring, Artificial Regen; Monitoring, Artificial Regen (3yr)

Treatments:

Acceptable red pine, jack pine, white pine

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition:

Proposed Start Date: 10/01/2025

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
53 61041053-Cut	80.7	42110 - Planted Red Pine	9	71	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> 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.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> 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.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
54 61041054-Cut	54.1	4130 - Aspen	9	67	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Final harvest. Leave all red and white pine. As well leave retention island 3 to 5 percent of acreage.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen primary mixed pine and oak accepted as well.</p> <p><u>Other Comment:</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 be needed off bunker hill road. Use oak wilt spec with exceptions. Add grouse spec.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
61 61041061-Plant	21.0	4211 - Planted Red Pine	0	1	Immature	Planting	Planting (tree species)	4211 - Planted Red Pine		No
<p><u>Prescription</u> plant red pine</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen; Monitoring, Artificial Regen (3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red pine, jack pine, maple, oak</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2025</p>										
68 61041068-Cut	14.9	42110 - Planted Red Pine	9	68	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> 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.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
72	61041072-Cut	36.8	42110 - Planted Red Pine	6	68	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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 dieback pockets should be cleaned up by marking all the trees within pocket as well as stressed trees on edges of poc</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other</u> Look at HRD viewer at time of set up to see if HRD spec is needed.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
76	61041076-Cut	93.0	42110 - Planted Red Pine	9	67	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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 dieback pockets should be cleaned up by marking all the trees within pocket as well as stressed trees on edges of poc</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other</u> If forest health advises use HRD spec. At this time not a concern.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
85	61041085-Cut	33.0	42110 - Planted Red Pine	6	68	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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 dieback pockets should be cleaned up by marking all the trees within pocket as well as stressed trees on edges of poc</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other</u> If warranted use HRD spec. Be mindful of slopes.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
89	61041089-Cut	63.0	42110 - Planted Red Pine	9	67	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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 dieback pockets should be cleaned up by marking all the trees within pocket as well as stressed trees on edges of poc</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other</u> Use HRD spec if requested by forest health specialist.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
119 61041119-Cut	43.7	4131 - Aspen, Oak	9	62	81-110	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	No
<p><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.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen primary with mix of pine and oak as accepted as well. <u>Regen:</u></p> <p><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></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
127 61041127-Cut	28.7	42110 - Planted Red Pine	9	67	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><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></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> HRD spec if needed add. <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
129 61041129-Cut	25.6	4130 - Aspen	9	52	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No
<p><u>Prescription</u> Final harvest stand. Leave all white pine along with small retention buffer along LO stands. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen primary with mix of other species as well. <u>Regen:</u></p> <p><u>Other</u> Map retention in MIFI. Protect any low areas or steep terrain as needed. Add Grouse Spec. <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
141 61041141-Opening	18.1	330 - Low-Density Trees	99			Openings Mgmt.	Openings Mgmt.	3303 - Mixed Low Density Trees	Previous Inventory	No
<p><u>Prescription</u> Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs <u>Specs:</u> and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wil</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
173 61041173-Cut	57.1	42110 - Planted Red Pine	9	68	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<p><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.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; SitePrep, Roller Chopping; Planting, Initial Plant; Pesticide, Aerial - Site Prep; Monitoring, Artificial Regen;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen (3yr)</p> <p><u>Acceptable Regen:</u> Planted Red Pine.</p> <p><u>Other Comment:</u> Require chipping and low stumps. Protect homestead site stand 175.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										
178 61041178-Cut	20.7	4130 - Aspen	9	57	51-80	Harvest	Clearcut	4136 - Aspen, Mixed Conifer	Planting Record	No
<p><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.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen primary with mix of white pine, oak and red maple.</p> <p><u>Other Comment:</u> Protect snow trail. Cut stumps flush along trail. Corners in. Add grouse spec.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										

Total Treatment Acreage Proposed: 725.6

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia: Examiner

Compartment: 41
Year of Entry: 2027

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		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

Traverse City Mgt. Unit
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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

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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

Traverse City Mgt. Unit
Joe Ventimiglia: Examiner

Compartment: 41
Year of Entry: 2027

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

Mgt. Unit

Compartment: #Type!

Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	6229 - Mixed Lowland Shrub	None	0.8			No	Lowland feature.
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2	4131 - Aspen, Oak	Sawtimber Well	30.2	59	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.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	4	Log	12	
Red Maple	4	Log/Pole	12	
Basswood	2	Log	13	
Beech	1	Log/Pole	11	
Red Oak	30	Log	15	109
Bigtooth Aspen	55	Log/Pole	13	59
White Pine	4	Log/Pole/XLog	12	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	5 - 10 feet
Beech	Low	< 5 feet	< 5 feet
White Pine	Low	Variable	Variable
Ironwood	Low	10 - 20 feet	10 - 20 feet

3	310 - Herbaceous Openland	None	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.
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Sub-Canopy Species	Density	Avg. Height	Size
Staghorn Sumac	Trace	5 - 10 feet	5 - 10 feet
Bracken Fern	Low	Not Applicable	Not Applicable
Common Or Ground Juniper	Trace	5 - 10 feet	5 - 10 feet
Spotted Knapweed	High	Not Applicable	Not Applicable
Mixed Grasses	Medium	Not Applicable	Not Applicable

4	4123 - Red Oak	Sawtimber Well	29.7	109	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.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	7	Log	13	
Red Maple	5	Log/Pole	11	
Basswood	5	Log	14	
Beech	5	Log	13	
Red Oak	70	Log/XLog	16	109
Bigtooth Aspen	5	Log/Pole	10	
White Pine	3	Log/Pole/XLog	15	

Sub-Canopy Species	Density	Avg. Height	Size
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	89	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.																																																																				
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6	42110 - Planted Red Pine	Sawtimber Well	16.7	67	81-110	N/A	Stand was planted in 1959. Stand was third row thinned in 1997. Stand was second thinned in 2008.																																																																				
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7	310 - Herbaceous Openland	None	0.4			No	ROW for power line. Illegal two track potentially?																																																																				
8	4199 - Other Mixed Upland Deciduous	Sapling Poor	2.7	21	1-50	N/A	Appears to be old opening filling in with aspen/oak and hardwood. Juniper all over in open areas.																																																																				
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9	42120 - Planted Jack Pine	Sawtimber Poor	3.0	67	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.																																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10 42221 - Natural Jack Pine, Mixed Deciduous Sapling Well 15.6 18 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.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	2	
Red Oak	2	Log	14	
Red Oak	10	Sapling	2	
White Pine	2	Sapling	2	
Jack Pine	60	Sapling	2	18
Jack Pine	6	Log/Pole	10	68
Black Cherry	10	Sapling	1	

11 4199 - Other Mixed Upland Deciduous Sawtimber Well 6.7 97 51-80 N/A Lower quality oak, red maple and aspen. Significant oak decline/oak wilt in stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	18	Log	12		Red Oak	Low	10 - 20 feet	10 - 20 feet
Beech	5	Log	13		Red Maple	Medium	10 - 20 feet	10 - 20 feet
Red Oak	54	Log/Pole	15	97	White Pine	Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen	20	Log	13					
White Pine	2	Log/Pole	15					
Red Pine	1	Log	15					

12 330 - Low-Density Trees None 1.0 No Old opening around pond.

Sub-Canopy Species	Density	Avg. Height	Size
Spotted Knapweed	Medium	Not Applicable	Not Applicable
Mixed Grasses	Medium	Not Applicable	Not Applicable

13 330 - Low-Density Trees None 5.1 No 2024- Low density trees, old road needs to be closed.

Sub-Canopy Species	Density	Avg. Height	Size
Poverty Grass	Medium	Not Applicable	Not Applicable
Common Or Ground Juniper	Low	5 - 10 feet	5 - 10 feet
Cladonia (Reindeer moss)	Low	Not Applicable	Not Applicable
Bracken Fern	High	Not Applicable	Not Applicable
St. Johns Wort	Trace	Not Applicable	Not Applicable
Little Bluestem	Trace	Not Applicable	Not Applicable

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.

14 310 - Herbaceous Openland None 0.7 No Grass opening.

15 310 - Herbaceous Openland None 8.3 No Cleared powerline ROW.

Sub-Canopy Species	Density	Avg. Height	Size
Cladonia (Reindeer moss)	Low	Not Applicable	Not Applicable
Bracken Fern	High	Not Applicable	Not Applicable
Common Or Ground Juniper	Trace	5 - 10 feet	5 - 10 feet
Poverty Grass	Low	Not Applicable	Not Applicable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16 42111 - Planted Red Pine, Mixed Deciduous Sapling Medium 25.5 8 1-50 N/A Jack Pine stand was final harvested in 2007, with scattered oak left.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	8	Sapling	1	
Red Oak	10	Sapling/Pole	2	
White Pine	2	Pole/Log	9	
Red Pine	60	Sapling	1	8
Jack Pine	10	Sapling	1	

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.

17 42110 - Planted Red Pine Sapling Well 39.5 4 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	14	Sapling	1	
Red Pine	86	Sapling	1	4

9/26/2025 - Stand had Year 3 Regen Survey Completed. Stand is currently sitting at 832 TPA and is 86% Free to grow at this time. Some tall patches of Autumn Olive Present in stand.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 None 6.2 No ROW opened up by county. Mostly grass.

19 4111 - S.Maple, Hard Mast Association Poletimber Medium 10.7 107 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Pole/Log	9	107
Red Maple	8	Pole/Log	9	
Basswood	5	Log	12	
Beech	10	Log/Pole	12	
Red Oak	12	Log/XLog	16	107
Red Pine	5	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Variable
Beech	Low	Variable	Variable
Ironwood	Low	10 - 20 feet	10 - 20 feet

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.

20 6119 - Mixed Lowland Deciduous Forest Sapling Poor 8.8 11 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	17	Pole	8	
Red Maple	10	Sapling	1	
Red Oak	12	Log/Pole	14	65
Bigtooth Aspen	30	Sapling	1	11
Bigtooth Aspen	3	Log	13	
Northern White Cedar	1	Log	11	
White Pine	1	Log	12	
White Pine	10	Sapling	1	
Black Cherry	16	Sapling	1	

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 cattaits. Other upland portions of stand came back to mix of aspen/white pine and oak. Scattered oak and red maple left in 2015 salvage.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
21	4130 - Aspen	Poletimber Well	17.4	44	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.																																														
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22	42110 - Planted Red Pine	Sawtimber Well	36.7	71	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.																																														
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23	42110 - Planted Red Pine	Sapling Well	12.8	4	Immature	N/A	09/26/2025 - Stand had Year 3 Regen Survey Completed. Stand is currently sitting at 844 TPA and is 97% Free to grow at this time. Some tall patches of Autumn Olive Present in stand. 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.																																														
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24	6229 - Mixed Lowland Shrub	None	1.4			No	Small low bowl. Assumes it hold water at times.																																														
25	500 - Water	None	0.9			No	Pond and border.																																														
26	4319 - Mixed Upland Forest	Sawtimber Well	4.2	66	111-140	N/A	Small mixed stand. Location of old frost cabin still present as of 2025.																																														
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27	42110 - Planted Red Pine	Sawtimber Well	63.3	74	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.																																																
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28	42110 - Planted Red Pine	Sawtimber Well	8.0	68	111-140	N/A	Stand was planted in 1959. LTR retention from 150. Red Pine plantation that has been row thinned and second thinned. Cannot be managed until parent stand is able to be harvested again.																																																
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29	429 - Mixed Upland Conifers	Sawtimber Well	3.5	54	111-140	N/A	Formally private. This is mixed planted spruce and scotch pine. Holding together for most part, portion on steep slope.																																																
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30	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	28.9	103	141-170	N/A	Mixed lowland conifer swamp buffering acme creek. Nice mix of hemlock and cedar.																																																
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31	320 - Upland Shrub	None	7.1			No	Opening complex many areas around road ROW.																																																
32	4130 - Aspen	Poletimber Well	10.3	42	Unspecified	N/A	Formally private. This is a small block of aspen on hilly terrain, with mix of white pine, oak and red maple.																																																
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33	6233 - Wet Meadow	None	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.																														
								Sub-Canopy Species	Density	Avg. Height	Size																										
								Bulrush	Low	Not Applicable	Not Applicable																										
								Spotted Knapweed	Low	Not Applicable	Not Applicable																										
								Mixed Grasses	Medium	Not Applicable	Not Applicable																										
								Dogwood (spp.)	Low	5 - 10 feet	5 - 10 feet																										
Willow spp.	Medium	10 - 20 feet	10 - 20 feet																																		
34	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	2.8	103	141-170	N/A	Corner of conifer swamp.																														
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White Pine	10	Log/XLog	16																																		
Hemlock	40	Log/Pole	11	103																																	
35	6229 - Mixed Lowland Shrub	None	0.7			No	Small lowland, most of wetland on private.																														
36	4211 - Planted Red Pine	Unspecified	45.2	1	Immature		7/18/2025 Stand was Site Prep Sprayed by Drone Contractor AgTakStand final harvested. 10/2023. Clearcut and chipped tops. Some scattered white pine and retention pockets left. Retention left along private.																														
37	330 - Low-Density Trees	None	1.0			No	Small meadow opening which holds water in certain times of year near private.																														
								Sub-Canopy Species	Density	Avg. Height	Size																										
								Poverty Grass	Low	Not Applicable	Not Applicable																										
								Serviceberry (Juneberry)	Low	Variable	Variable																										
								Cladonia (Reindeer moss)	Low	Not Applicable	Not Applicable																										
								Bracken Fern	High	Not Applicable	Not Applicable																										
								Common Or Ground Juniper	Trace	5 - 10 feet	5 - 10 feet																										
Black Cherry	Low	Variable	Variable																																		
38	330 - Low-Density Trees	None	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.																														
								Sub-Canopy Species	Density	Avg. Height	Size																										
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39	4130 - Aspen	Poletimber Well	7.0	42	Unspecified	N/A	Small strip of aspen approaching log size. Some lowland character in spots but overall upland.																																																
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40	42200 - Natural White Pine	Sawtimber Medium	7.9	76	51-80	N/A	Open mixed stand that is filling in well over the decades.																																																
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41	429 - Mixed Upland Conifers	Sawtimber Well	15.8	102	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.																																																
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42	6224 - Treed Bog	None	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.																																																
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43	4123 - Red Oak	Sawtimber Well	82.0	111	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		
Sugar Maple		3	Log/Pole	12		Red Maple		
Red Maple		15	Log	12		White Pine		
Beech		10	Log/Pole	12		Density		
Red Oak		60	Log	14	111	Avg. Height		
Bigtooth Aspen		2	Log	12		Size		
White Pine		8	Log/Pole	13				
Red Pine		2	Log	13				
44	310 - Herbaceous Openland	None	4.5			No	ROW of maintained county road. (Bunker Hill)	
45	42220 - Natural Jack Pine	Poletimber Well	2.5	28		N/A	Stand was final harvested in 1997. Jack pine reseeded in.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		100	Pole/Sapling	5	28			
46	4130 - Aspen	Poletimber Well	20.2	36	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		
Red Maple		5	Pole/Sapling	5	36	Balsam Fir		
Red Oak		1	Log	14		Red Maple		
Bigtooth Aspen		88	Pole	6	36	Density		
White Pine		1	Log	15		Avg. Height		
Black Cherry		5	Pole	5	36	Size		
47	6120 - Lowland Cedar	Sawtimber Medium	48.2	117	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		
Red Maple		15	Log	12		Balsam Fir		
Quaking Aspen		5	Log	14		Black Ash		
Northern White Cedar		56	Log/Pole	10	117	Red Maple		
White Pine		4	Log/XLog	14		Northern White Cedar		
Hemlock		20	Log/Pole	10	117	Hemlock		
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48	6113 - Lowland Maple	Sawtimber Medium	4.4	87	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.																																																										
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49	42200 - Natural White Pine	Sawtimber Poor	6.8	69	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.																																																										
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50	42110 - Planted Red Pine	Poletimber Well	7.2	68	81-110	N/A	Stand was planted in 1958. Stand was third row thinned in 2010. Stand thinned again in 2023 to 120 BA'Die back pocket in SW																																																										
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51	4110 - Sugar Maple Association	Sawtimber Medium	36.3	103	51-80	N/A	Gifted to state in 2023 was formally CF forest land own privately. Stand has been recently thinned, sugar maple dominate with maple stems in small small log, large pulp size. Beech and ironwood primary in understory.																																																										
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52	4199 - Other Mixed Upland Deciduous	Sawtimber Well	12.1	87	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.																																																										
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53	42110 - Planted Red Pine	Sawtimber Well	80.8	71	141-170	N/A	Stand was planted in 1955. Stand was third row thinned in 1997.																																																													
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54	4130 - Aspen	Sawtimber Well	54.1	67	111-140	N/A	Nice large block of aspen on rolling terrain. Mix of oak, maple and pine in stand but overall aspen dominate.																																																													
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55	42130 - Planted Scotch Pine	Poletimber Well	19.9	50	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.																																																													
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56	42200 - Natural White Pine	Sawtimber Medium	3.4	68	1-50	N/A	Small buffer area left from recent harvests. Primary white pine.																																																													
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57	42210 - Natural Red Pine	Sawtimber Well	17.2	85	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.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
58	4133 - Aspen, Mixed Pine	Sapling Well	52.4	14	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.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		4	Sapling	2				
Red Oak		4	Log	14	102			
White Oak		1	Log	13				
Bigtooth Aspen		63	Sapling	2	14			
White Pine		5	Sapling	1				
White Pine		18	Log/Pole/XLog	13	102			
Red Pine		5	Log	13				
59	4130 - Aspen	Sapling Poor	10.3	3	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.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		10	Sapling	1	3			
Red Oak		5	Log	13				
Bigtooth Aspen		73	Sapling	1	3			
White Pine		2	Log	15				
White Pine		10	Sapling	1	3			
60	6233 - Wet Meadow	None	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.	
Sub-Canopy Species		Density	Avg. Height	Size				
Mixed Grasses		High	Not Applicable	Not Applicable				
Tag Alder		Medium	5 - 10 feet	5 - 10 feet				
Sedges		Low	Not Applicable	Not Applicable				
Bulrush		Trace	Not Applicable	Not Applicable				
Blackberry/Raspberry		Trace	5 - 10 feet	5 - 10 feet				
Willow spp.		Medium	Variable	Variable				
61	4211 - Planted Red Pine	Unspecified	21.3	1	Immature		7/18/2025 Stand was Site Prep Sprayed by Drone Contractor AgTakStand 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	86	81-110	N/A	Small stand of mature ageing aspen with some mix of hardwoods and oak. Includes buffer area around non forested stand.	
Canopy Species		% Cover	Size Class	DBH	Age			
Sugar Maple		4	Pole/Log	9				
Red Maple		10	Log/Pole	12				
Beech		2	Log	12				
Red Oak		12	Log	13	86			
Bigtooth Aspen		68	Log/XLog	15	86			
White Pine		2	Log	12				
Hemlock		2	Pole/Log	8				
Sub-Canopy Species		Density	Avg. Height	Size				
White Pine		Low	Variable	Variable				
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					
63	3302 - Low Density Conifer Trees	None	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	
								Mixed Grasses	Medium	Not Applicable	Not Applicable	
								Bracken Fern	Medium	Not Applicable	Not Applicable	
								Jack Pine	High	>20 feet	>20 feet	
								Black Cherry	Trace	Variable	Variable	
St. Johns Wort	Trace	Not Applicable	Not Applicable									
64	4123 - Red Oak	Poletimber Medium	11.0	61	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
								Red Oak	78	Pole/Log	9	61
								White Oak	1	Pole	8	
								Bigtooth Aspen	10	Pole	8	
								White Pine	5	Log/Pole	12	
								Black Cherry	5	Pole	8	
Scotch Pine	1	Pole	7									
Sub-Canopy Species	Density	Avg. Height	Size									
Red Oak	Low	5 - 10 feet	5 - 10 feet									
White Pine	Medium	Variable	Variable									
65	310 - Herbaceous Openland	None	1.3				Gifted to state in 2023 was formally CF forest land own privately. Old well site.					
66	42290 - Natural Mixed Pine	Sapling Medium	4.5	16	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	Sapling	1	
								Red Oak	5	Log/Pole	14	
								White Pine	20	Sapling	1	
								Jack Pine	6	Log/Pole	10	68
Jack Pine	49	Sapling	1	16								
67	42220 - Natural Jack Pine	Sapling Well	19.0	17	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	Log	14	
								Beech	5	Sapling	1	
								Red Oak	1	Log/Pole	13	
								White Pine	7	Sapling	2	
								Red Pine	1	Sapling	2	
								Jack Pine	79	Sapling	2	17
								Black Cherry	5	Sapling	2	17
								Scotch Pine	1	Sapling	3	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
68	42110 - Planted Red Pine	Sawtimber Well	14.9	68	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)																																																														
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69	4111 - S.Maple, Hard Mast Association	Sawtimber Well	25.1	101	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.																																																														
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70	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	14.5	122	141-170	N/A	Buffer area along VASA trail. Mixed valley of log aspen, oak and pine.																																																														
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71	4199 - Other Mixed Upland Deciduous	Sawtimber Well	40.2	110	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.																																																														
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72	42110 - Planted Red Pine	Poletimber Well	36.8	68	111-140	N/A	Stand was planted in 1958. Stand was third row thinned in 1997. Stand was second thinned in 2010. (every 4th tree cut)																																																														
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73	4199 - Other Mixed Upland Deciduous	Sawtimber Well	38.6	122	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.																																																																	
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74	3105 - Mixed Upland Herbaceous	None	6.0			No	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.																																																																	
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75	42110 - Planted Red Pine	Poletimber Well	34.5	27	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.																																																																	
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76	42110 - Planted Red Pine	Sawtimber Well	93.0	67	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.																																																																	
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77	3105 - Mixed Upland Herbaceous	None	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	None	3.2			No	Old opening filling in with red pine and other scattered trees.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
79	330 - Low-Density Trees	None	4.6			No	Within big clump, aspen and cottonwood with maple. Some autumn olive underneath. Rest is old apple orchard.																																								
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80	42110 - Planted Red Pine	Sawtimber Well	15.9	67	111-140	N/A	Stand was planted in 1959. Stand was third row thinned in 1997.																																								
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81	122 - Road/Parking Lot	None	9.3			No																																									
82	42110 - Planted Red Pine	Sawtimber Well	18.0	74	81-110	N/A	Stand was planted in 1952. Stand was third row thinned in 1987.																																								
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83	3105 - Mixed Upland Herbaceous	None	3.2			No	Scattered trees potentially old homestead.																																								
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84	42220 - Natural Jack Pine	Sapling Well	43.7	17	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.																																								
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85	42110 - Planted Red Pine	Poletimber Well	33.0	68	111-140	N/A	Stand was planted in 1958. Stand was third row thinned in 1997.																																																																								
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86	3104 - Degraded	None	1.0				Well plugged 3/2000. Opening which appears to be used as camping spot at times, some firewood noted.																																																																								
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87	4199 - Other Mixed Upland Deciduous	Sawtimber Well	12.3	96	81-110	N/A	Very steep portion of stand to south. Mixed hardwood and oak. Some aspen hanging on.																																																																								
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88	42290 - Natural Mixed Pine	Sapling Well	7.9	28	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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89	42110 - Planted Red Pine	Sawtimber Well	63.0	67	141-170	N/A	Stand was planted in 1959. Stand was third row thinned in 1997.																																				
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90	330 - Low-Density Trees	None	3.6			No	Old opening slowly filling in.
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91	4131 - Aspen, Oak	Sawtimber Medium	2.5	81	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	Poletimber Well	15.7	28	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.																													
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Black Cherry	5	Sapling	1	28																																

93	4111 - S.Maple, Hard Mast Association	Sawtimber Well	7.9	107	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.																																																												
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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	Sawtimber Well	24.7	68	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.																																																								
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96	4111 - S.Maple, Hard Mast Association	Sawtimber Well	18.7	113	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.																																																								
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97	3301 - Low Density Deciduous Trees	None	5.5			No	Old opening filling in with pine and oak.																																																								
98	310 - Herbaceous Openland	None	4.5			No	Allot of spotted knapweed with warm season grasses mixed in. Two large maples within this opening. Potential lightly used party spot.																																																								
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99	122 - Road/Parking Lot	None	2.3			No																																																									
100	42210 - Natural Red Pine	Poletimber Well	2.3	26	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.																																																								
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101	310 - Herbaceous Openland	None	2.7			No	ROW Road maintained ditch.																																																								

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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102 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 18.4 113 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.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Log	14	
Yellow Birch	5	Log	12	
Quaking Aspen	5	Log	13	
Northern White Cedar	30	Log/Pole	11	113
White Pine	20	Log	14	
Hemlock	25	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	5 - 10 feet
Northern White Cedar	Low	< 5 feet	< 5 feet
Hemlock	Low	5 - 10 feet	5 - 10 feet
Red Maple	Low	10 - 20 feet	10 - 20 feet

103 4130 - Aspen Sapling Medium 11.0 7 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.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	1	Log	14	
Red Maple	5	Sapling	1	
Beech	5	Sapling	1	
Red Oak	1	Log/XLog	15	
Bigtooth Aspen	75	Sapling	1	7
White Pine	2	Sapling	1	
Hemlock	1	Pole/Log	7	
Black Cherry	10	Sapling	1	

104 122 - Road/Parking Lot None 7.2 No

105 42200 - Natural White Pine Sawtimber Medium 7.1 66 1-50 N/A Open stand that has filled in with white pine over the decades. Significant variability in white pine diameter and ages.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Log/Pole	13	
Red Oak	10	Log	14	
Bigtooth Aspen	5	Log	14	66
White Pine	75	Log/Pole/XLog	15	66
Black Cherry	5	Log/Pole	10	

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

106 4199 - Other Mixed Upland Deciduous Sawtimber Well 43.6 113 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)

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	18	Log	13	113
Red Maple	5	Log	13	
Basswood	5	Log	14	
Beech	8	Log	12	
Red Oak	50	XLog/Log	20	113
White Oak	2	Log	15	
Bigtooth Aspen	10	Log/XLog	14	
Red Pine	1	Log/Pole	12	
Black Locust	1	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	< 5 feet	< 5 feet
Ironwood	Medium	5 - 10 feet	5 - 10 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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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107 3105 - Mixed Upland Herbaceous None 7.5 No South portion degraded with spotted knapweed. Scattered white pine.

Sub-Canopy Species	Density	Avg. Height	Size
Little Bluestem	Low	Not Applicable	Not Applicable
Spotted Knapweed	Medium	Not Applicable	Not Applicable
Mixed Grasses	High	Not Applicable	Not Applicable
Common Or Ground Juniper	Trace	5 - 10 feet	5 - 10 feet

108 4111 - S.Maple, Hard Mast Association Sawtimber Well 31.3 111 111-140 N/A Stand was thinned in 2000. (marked)

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	40	Log	12	111	Ironwood	Medium	5 - 10 feet	5 - 10 feet
Basswood	20	Log	13		Maple (spp.)	Low	5 - 10 feet	5 - 10 feet
Red Oak	25	Log	16		Hemlock	Low	>20 feet	>20 feet
White Pine	8	Pole/Log	9					
Black Cherry	7	Pole/Log	9					

109 4130 - Aspen Poletimber Well 26.5 36 Unspecified N/A Stand was final harvested in 1989. Scattered oak and cedar left. Came back well to aspen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	7	Pole	8	36	Red Maple	Low	5 - 10 feet	5 - 10 feet
Red Oak	2	XLog/Log	20		White Pine	Low	< 5 feet	< 5 feet
Bigtooth Aspen	86	Pole	8	36	Black Cherry	Medium	5 - 10 feet	5 - 10 feet
Northern White Cedar	1	Log	13					
White Pine	2	Log	13					
Black Cherry	2	Pole	7	36				

110 42141 - Planted Mixed Pine, Mixed Deciduous Sawtimber Well 7.4 94 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.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Pole/Sapling	6		Red Maple	Low	>20 feet	>20 feet
Red Maple	15	Pole	6		White Pine	Medium	>20 feet	>20 feet
Red Oak	5	Pole/Log	8		Red Oak	Low	10 - 20 feet	10 - 20 feet
White Pine	25	Pole/Log	8	94				
Red Pine	15	Log	14					
Jack Pine	30	Log	12	94				

111 42110 - Planted Red Pine Sawtimber Well 23.5 67 111-140 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.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	2	Log/XLog	13		Beech	High	5 - 10 feet	5 - 10 feet
White Pine	4	Log	17		Ironwood	Medium	5 - 10 feet	5 - 10 feet
Red Pine	92	Log/Pole	10	67	Autumn Olive	Low	5 - 10 feet	5 - 10 feet
Black Cherry	2	Log/Pole	12		Black Cherry	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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112 4131 - Aspen, Oak Sawtimber Well 3.7 80 81-110 N/A Stand final harvested in 1946. Mature aspen with mix of oak and maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	25	Log	13	101	Beech	Low	5 - 10 feet	5 - 10 feet
Basswood	2	Log	14	101	Ironwood	Low	10 - 20 feet	10 - 20 feet
Beech	2	Log	11		White Pine	Low	Variable	Variable
Red Oak	20	XLog/Log	22		Black Cherry	Low	Variable	Variable
Bigtooth Aspen	49	Log	16	80				
White Pine	2	Log	13					

113 42140 - Planted Mixed Pine Sawtimber Well 3.2 55 141-170 N/A Formally private this block was planted to red, white pine and white spruce. Even a few Norway spruce.

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	20	Log/Pole	10	55
White Pine	54	Log/Pole	10	55
Red Pine	25	Log/Pole	10	55
Norway Spruce	1	Log/Pole	10	

114 4111 - S.Maple, Hard Mast Association Sawtimber Well 19.1 109 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.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	48	Log	13	109	Sugar Maple	Low	5 - 10 feet	5 - 10 feet
Red Maple	5	Log	14		Bigtooth Aspen	Low	5 - 10 feet	5 - 10 feet
Basswood	15	Log	14	109	Beech	Medium	10 - 20 feet	10 - 20 feet
Beech	10	Log	13		Ironwood	High	10 - 20 feet	10 - 20 feet
Red Oak	20	Log/XLog	16	109				
White Pine	2	Log/Pole	12					

115 330 - Low-Density Trees None 1.2 No Power line on side slope .

Sub-Canopy Species	Density	Avg. Height	Size
Autumn Olive	Trace	5 - 10 feet	5 - 10 feet
Little Bluestem	Low	Not Applicable	Not Applicable
Cladonia (Reindeer moss)	Medium	Not Applicable	Not Applicable
Bracken Fern	Low	Not Applicable	Not Applicable
Staghorn Sumac	Trace	5 - 10 feet	5 - 10 feet
Common Or Ground Juniper	Trace	5 - 10 feet	5 - 10 feet
Spotted Knapweed	High	Not Applicable	Not Applicable
Mixed Grasses	Medium	Not Applicable	Not Applicable

116 330 - Low-Density Trees None 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																																																																								
121	3103 - Rubus-Fern	None	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.																																																																								
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122	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	10.4	91	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.																																																																								
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123	310 - Herbaceous Openland	None	1.4			No	Potentially old homestead.																																																																								
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124	6220 - Alder/Willow	None	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 Well	4.0	18	Immature	N/A	Mixed jack pine and white pine regenerating from final harvest in 2009.																																																																								
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Jack Pine	30	Sapling	2	18																																																																											
Black Cherry	10	Sapling	3	18																																																																											
Ironwood	5	Sapling	2																																																																												
127	42110 - Planted Red Pine	Sawtimber Well	28.7	67	111-140	N/A	Stand was planted in 1959. Stand was third row thinned in 1987. 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.																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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128 42220 - Natural Jack Pine Sapling Well 11.1 17 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	Sapling	3	
Beech	5	Sapling	2	17
Red Oak	5	Sapling	2	17
Jack Pine	80	Sapling	3	17
Black Cherry	5	Sapling	2	17

129 4130 - Aspen Sawtimber Well 25.6 52 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
Sugar Maple	12	Log	14		Beech	Low	Variable	Variable
Red Maple	6	Log/Pole	11		Sugar Maple	Low	10 - 20 feet	10 - 20 feet
Basswood	6	Log	14		White Pine	Low	Variable	Variable
Beech	1	Log/Pole	12					
Red Oak	7	Log/Pole	12					
Bigtooth Aspen	60	Log/Pole	10	52				
White Pine	5	Log/Pole	11					
Black Cherry	3	Log	12					

130 4130 - Aspen Poletimber Well 19.1 37 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
Red Maple	10	Pole	6	37	Ironwood	High	10 - 20 feet	10 - 20 feet
Red Oak	1	Pole	6	37				
Red Oak	10	XLog/Log	18					
Bigtooth Aspen	70	Pole	8	37				
White Pine	4	Log/Pole	12					
Black Cherry	5	Pole	6	37				

131 4130 - Aspen Poletimber Well 11.4 52 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	Pole	8	52	White Pine	Medium	10 - 20 feet	10 - 20 feet
Red Oak	7	Pole/Log/XLog	8	52	Beech	Low	< 5 feet	< 5 feet
Bigtooth Aspen	83	Pole	8	52	Red Maple	Low	10 - 20 feet	10 - 20 feet
White Pine	2	Log	12					

134 4110 - Sugar Maple Association Sawtimber Well 18.6 107 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
Sugar Maple	70	Log/Pole	13	107	Black Cherry	Medium	Variable	Variable
Basswood	10	Log	15	107	Ironwood	Medium	10 - 20 feet	10 - 20 feet
Beech	2	Log	13		Beech	Medium	5 - 10 feet	5 - 10 feet
Red Oak	17	XLog/Log	18	107	Sugar Maple	Low	5 - 10 feet	5 - 10 feet
White Oak	1	Log	15		White Ash	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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135	3104 - Degraded	None	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
				St. Johns Wort	High	Not Applicable		Not Applicable
				Spotted Knapweed	Full	Not Applicable		Not Applicable

136	4111 - S.Maple, Hard Mast Association	Sawtimber Well	90.6	101	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
								Sugar Maple	65	Log/Pole	14	101
								Basswood	10	Log	14	101
								Beech	2	Log	13	
								Red Oak	20	XLog/Log	18	
								Bigtooth Aspen	1	Log	14	
								Black Cherry	2	Log	12	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Sugar Maple	Low	Variable	Variable	
Beech	Medium	5 - 10 feet	5 - 10 feet									
Hemlock	Trace	Variable	Variable									
Ironwood	High	10 - 20 feet	10 - 20 feet									

138	3105 - Mixed Upland Herbaceous	None	1.2			No	Powerline. At this portion, multiple clumps of bracken fern. other spots with grasses and spotted knapweed.		
				Sub-Canopy Species	Density			Avg. Height	Size
				Spotted Knapweed	Medium			Not Applicable	Not Applicable
				Mixed Grasses	Medium			Not Applicable	Not Applicable
				Common Or Ground Juniper	Trace			5 - 10 feet	5 - 10 feet
				Bracken Fern	High			Not Applicable	Not Applicable

139	4310 - Pine, Oak Mix	Sapling Medium	4.9	28	Immature	N/A	Stand was final harvested in 1998.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Beech	10	Sapling	2	
								Red Oak	20	Sapling	1	28
								Bigtooth Aspen	5	Sapling	2	28
								White Pine	10	Sapling	3	
								Jack Pine	45	Sapling	3	28
								Ironwood	10	Sapling	1	

140	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	10.1	76	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
								Sugar Maple	5	Log/Pole	12	
								Red Maple	5	Log/Pole	12	
								Basswood	2	Log	14	
								Red Oak	15	Log/Pole	13	
								Bigtooth Aspen	7	Log	12	
								White Pine	65	Log/Pole/XLog	15	76
								Red Pine	1	Log	12	
								Sub-Canopy Species	Density	Avg. Height	Size	
								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	
White Pine	Medium	5 - 10 feet	5 - 10 feet									

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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141	330 - Low-Density Trees	None	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.
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142	4130 - Aspen	Poletimber Well	19.5	37	81-110	N/A	Stand was final harvested in 1988. Portion of old Twp dump along NE side of stand
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	8	Pole	7	37
Bigtooth Aspen	85	Pole	8	37
Black Cherry	5	Pole	7	37
Ironwood	2	Sapling	4	

143	4111 - S.Maple, Hard Mast Association	Sawtimber Well	38.6	107	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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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Log/XLog	14	107
Red Maple	1	Log	14	
Basswood	10	Log	14	107
Beech	10	Log	13	
Red Oak	15	Log/XLog	16	107
Bigtooth Aspen	1	Log	13	
White Pine	2	Log	13	
Black Maple	1	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Medium	10 - 20 feet	10 - 20 feet
Sugar Maple	Trace	5 - 10 feet	5 - 10 feet
Black Cherry	Medium	Variable	Variable
Ironwood	High	10 - 20 feet	10 - 20 feet

145	4130 - Aspen	Poletimber Well	14.0	36	Unspecified	N/A	Stand was final harvested in 1989. Came back well to aspen.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	6	36
Bigtooth Aspen	90	Pole	7	36
Black Cherry	5	Pole	6	36

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	10 - 20 feet	10 - 20 feet
Ironwood	Medium	10 - 20 feet	10 - 20 feet

146	4199 - Other Mixed Upland Deciduous	Sawtimber Well	35.0	90	81-110	N/A	Lower quality mixed hardwood and oak than 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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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	29	Pole/Log	9	90
Red Maple	15	Log/Pole	12	
Basswood	10	Log	14	
Beech	3	Log	12	
Red Oak	25	XLog/Log	18	90
Bigtooth Aspen	10	Log	12	90
White Pine	6	Log	14	
Black Cherry	2	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	>20 feet
Beech	Low	Variable	Variable
White Pine	Low	< 5 feet	< 5 feet
Ironwood	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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148 4111 - S.Maple, Hard Mast Association Sawtimber Medium 5.3 107 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
Sugar Maple	35	Log/Pole	12	107	Red Pine	Low	< 5 feet	< 5 feet
Basswood	33	Log	14	107	Ironwood	Low	10 - 20 feet	10 - 20 feet
Red Oak	20	Log/Pole	12		Beech	Low	10 - 20 feet	10 - 20 feet
White Pine	10	Log/Pole	13		Bigtooth Aspen	Medium	10 - 20 feet	10 - 20 feet
Red Pine	2	Log/Pole	12		White Pine	Medium	< 5 feet	< 5 feet

150 42110 - Planted Red Pine Sapling Medium 43.3 6 Immature N/A

Stand final harvested in 2018. Stand planted to red pine in 2021.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Sapling	1	6

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.

151 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Well 2.2 67 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
Red Oak	10	Log/Pole	12	88	Red Maple	Low	5 - 10 feet	5 - 10 feet
White Oak	10	Log/Pole	12	88	White Pine	Low	5 - 10 feet	5 - 10 feet
White Pine	10	Log/Pole	13					
Red Pine	70	Log/Pole	12	67				

Long term retention area for sale in stand 127

152 42110 - Planted Red Pine Sawtimber Well 18.9 71 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
Red Maple	2	Log/Pole	11		Autumn Olive	Low	5 - 10 feet	5 - 10 feet
Red Oak	1	Log/Pole	12		Black Cherry	Low	5 - 10 feet	5 - 10 feet
White Pine	1	Log	14					
Red Pine	89	Log	14	71				
Jack Pine	5	Pole/Log	9					
Black Cherry	2	Log/Pole	13					

West strip is sides slope of planted jack pine that is falling apart and was avoided in the past i assume due to slope.

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	67	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.																																										
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154	42110 - Planted Red Pine	Sapling Well	29.3	6	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.																																										
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155	42220 - Natural Jack Pine	Sapling Well	9.1	26	Immature	N/A																																											
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Black Cherry	18	Sapling/Pole	4	26																																													
157	122 - Road/Parking Lot	None	2.9			No																																											
160	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	6.0	18	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.																																										
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Black Cherry	10	Sapling	2	18																																													

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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161 4110 - Sugar Maple Association Sawtimber Medium 4.9 71 1-50 N/A Open grown sugar maple that has filled in with pine in understory. Small opening on west side.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	80	Log/Pole	12	71	Red Pine	Low	5 - 10 feet	5 - 10 feet
White Pine	15	Log/Pole	10		White Pine	High	Variable	Variable
Red Pine	5	Log/Pole	10					

162 4119 - Mixed Northern Hardwoods Sawtimber Well 15.0 102 81-110 N/A Has been thinned in prior entry. Some old orange marked still in stand. Stocking is fine. Let grow in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	52	Log/Pole	11	102	Beech	Medium	5 - 10 feet	5 - 10 feet
Red Maple	5	Log/Pole	11		Sugar Maple	Low	10 - 20 feet	10 - 20 feet
Basswood	5	Log	13	102	Ironwood	High	10 - 20 feet	10 - 20 feet
Beech	5	Log	14		Black Cherry	Low	5 - 10 feet	5 - 10 feet
Red Oak	30	Log/XLog	17					
Bigtooth Aspen	2	Log/XLog	14					
White Pine	1	Log	13					

164 4111 - S.Maple, Hard Mast Association Sawtimber Medium 125.6 116 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. 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. Salvage after severe storm damage occurred in 2014.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log	14	116	Sugar Maple	Low	10 - 20 feet	10 - 20 feet
Basswood	16	Log	12		Ironwood	High	10 - 20 feet	10 - 20 feet
Beech	1	Log	14	116	Beech	High	10 - 20 feet	10 - 20 feet
Red Oak	20	XLog/Log	18	116	Black Cherry	Low	10 - 20 feet	10 - 20 feet
Black Cherry	3	Log	14					

165 4199 - Other Mixed Upland Deciduous Sawtimber Well 10.8 93 81-110 N/A Small stand of mixed oak/aspen and hardwood along small bowl. Much of stand on side slope. Some dead oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Log/Pole	10		Beech	Medium	5 - 10 feet	5 - 10 feet
Red Maple	5	Log/Pole	12		White Pine	Low	< 5 feet	< 5 feet
Beech	1	Log/Pole	12		Ironwood	Medium	5 - 10 feet	5 - 10 feet
Red Oak	42	Log/Pole/XLog	14	93	Autumn Olive	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	35	Log/Pole/XLog	14		Sugar Maple	Low	5 - 10 feet	5 - 10 feet
White Pine	5	Log/Pole	12					
Black Cherry	2	Log	12					

167 3105 - Mixed Upland Herbaceous None 7.6 No Powerline with two-track. Grass with spotted knapweed. NE portion has pole upland deciduous. A little bit of wood/slash.

Sub-Canopy Species	Density	Avg. Height	Size
Spotted Knapweed	High	Not Applicable	Not Applicable
Mixed Grasses	High	Not Applicable	Not Applicable

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	68	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.																																																	
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169	4110 - Sugar Maple Association	Sawtimber Well	11.1	90	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.																																																	
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170	4111 - S.Maple, Hard Mast Association	Sawtimber Well	49.5	113	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.																																																	
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171	4130 - Aspen	Poletimber Well	30.4	27	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.																																																	
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172	31021 - Cool Season Grass	None	1.5			Yes	A small hill. Both types of hawkweed present (unlisted species).																																																	
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173	42110 - Planted Red Pine	Sawtimber Well	57.8	68	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.																																													
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175	3301 - Low Density Deciduous Trees	None	3.1			No	Old open area filling in with back locust and other mixed hardwood and pine.																																													
176	42290 - Natural Mixed Pine	Sapling Well	11.4	16	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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177	4123 - Red Oak	Sawtimber Well	6.0	111	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	Sawtimber Well	20.7	57	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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180	4130 - Aspen	Sapling Well	17.4	15	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 .																																													
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181	4133 - Aspen, Mixed Pine	Sapling Well	21.2	15	1-50	N/A	Stand was cut in 2010 with all conifer and scattered oak green marked to leave. Created two aged stand.																																													
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182	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	8.3	30	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.																																													
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184	4130 - Aspen	Sapling Well	32.7	15	Immature	N/A	Stand was final harvested in 2011 with all conifer and scattered green marked oak left. Came back well to aspen.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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186 4111 - S.Maple, Hard Mast Association Sawtimber Medium 16.6 113 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).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	55	Log	13	113	Beech	Low	< 5 feet	< 5 feet
Red Maple	5	Log	13		Sugar Maple	Low	>20 feet	>20 feet
Basswood	10	Log	15		Black Cherry	Low	Variable	Variable
Beech	10	Log/Pole	12		Ironwood	Medium	Variable	Variable
Red Oak	18	Log/XLog	17	113				
White Oak	1	Log	13					
White Pine	1	Log	14					

187 310 - Herbaceous Openland None 1.9 Old well pad.

188 4199 - Other Mixed Upland Deciduous Sawtimber Well 22.1 116 81-110 N/A Stand was thinned in 1999. Mixed oak/ maple stand with pocket of white pine in center of stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	20	Log/Pole	14	116	Ironwood	High	5 - 10 feet	5 - 10 feet
Red Maple	5	Log/Pole	12		Beech	Medium	5 - 10 feet	5 - 10 feet
Basswood	5	Log	14	116	Hemlock	Trace	Variable	Variable
Beech	7	Log	14		Sugar Maple	Trace	Variable	Variable
Red Oak	54	Log/XLog	17	116	White Pine	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	2	Log/XLog	14					
White Pine	7	Log/XLog	14					

189 4311 - Pine, Aspen Mix Poletimber Well 18.2 41 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.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Log/Pole	10	
Red Oak	15	Log/Pole	12	
Bigtooth Aspen	35	Pole	8	41
White Pine	20	Log/Pole	12	
Red Pine	24	Log/Pole	12	
Hemlock	1	Log/Pole	13	

190 42110 - Planted Red Pine Sapling Well 39.5 5 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	98	Sapling	1	5
Jack Pine	2	Sapling	1	5

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.

193 3302 - Low Density Conifer Trees None 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
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195	42110 - Planted Red Pine	Sawtimber Well	4.8	67	81-110	N/A	Stand was planted in 1959. Third row thinned in 1987. Every 4th tree cut in 2009.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	1	Log	14		Ironwood	Low	5 - 10 feet	5 - 10 feet
Red Pine	98	Log/Pole	10	67	Autumn Olive	Low	5 - 10 feet	5 - 10 feet
Black Cherry	1	Log	14		Beech	Medium	5 - 10 feet	5 - 10 feet
					Black Cherry	Low	5 - 10 feet	5 - 10 feet

197	4131 - Aspen, Oak	Poletimber Well	8.4	47	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.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	1	Log	12		Ironwood	Low	Variable	Variable
Red Maple	10	Log/Pole	12		Beech	Low	< 5 feet	< 5 feet
Red Oak	22	Log/XLog	16		White Pine	Low	5 - 10 feet	5 - 10 feet
White Oak	1	Log/Pole	11		Black Cherry	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	65	Pole	9	47	Red Maple	Low	5 - 10 feet	5 - 10 feet
White Pine	1	Log	15					

198	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	55.5	93	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.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	3	Log/Pole	11		Red Maple	Medium	10 - 20 feet	10 - 20 feet
Red Maple	5	Log/Pole	13	62	Bigtooth Aspen	High	10 - 20 feet	10 - 20 feet
Basswood	1	Log	12		White Pine	Medium	5 - 10 feet	5 - 10 feet
Red Oak	55	Log/Pole	15	93	Ironwood	Low	10 - 20 feet	10 - 20 feet
White Oak	3	Log	14		Beech	Low	5 - 10 feet	5 - 10 feet
White Pine	30	Log	12		Red Oak	Medium	10 - 20 feet	10 - 20 feet

200	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	29.7	101	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.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	55	Log/Pole	13	101	Beech	Medium	5 - 10 feet	5 - 10 feet
Basswood	15	Log	14	101	Ironwood	High	5 - 10 feet	5 - 10 feet
Beech	2	Log	14		Sugar Maple	Trace	5 - 10 feet	5 - 10 feet
Red Oak	25	Log/XLog	16		White Pine	Trace	Variable	Variable
Bigtooth Aspen	1	Log	14		Black Cherry	Medium	5 - 10 feet	5 - 10 feet
Black Cherry	2	Log	12					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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204	42110 - Planted Red Pine	Sapling Well	58.5	6	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.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		100	Sapling	1	6		

205	42290 - Natural Mixed Pine	Sapling Well	3.1	19	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.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		2	Sapling	3		Autumn Olive		Low	5 - 10 feet	5 - 10 feet
White Pine		45	Sapling	3	19					
Red Pine		50	Sapling	2	19					
Black Cherry		3	Sapling	2						