



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61164

Entry Year 2028

Acreage: 1,809

County: Kalkaska

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Paul Roell

Legal Description:

T27N R7W Section 18; T27N R8W Sections 13, 14, and 15

Identified Planning Goals:

This compartment is part of the Kalkaska Sandy Moraines Management Area (MA). Management goals for this MA include balancing the age-class structure of aspen and red pine; increasing regeneration of oak; managing the northern hardwood resource for stand quality, age, and species diversity; enhancing wildlife values; and continued production of wood products. Wildlife habitat management objectives include perpetuating early successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Management challenges include increased recreational pressure, increased oil and gas development; increased urban-wildland interface; invasive plant control; control of forest diseases and pests including oak wilt; and conversion or poor oak sites to mixed pine/oak sites.

Soil and topography:

Almost all of the compartment sits on sand, especially Rubicon sand, with isolated areas of histosols or mucks around the water bodies. The compartment is generally flat with some moderate slopes around the water bodies.

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

The Village of Kalkaska is adjacent to the compartment on the east end. There is a fair amount of State land surrounding the compartment as well as some private parcels. Since the last inventory, the State acquired a small parcel in Section 18 to connect the State land in sections 13 and 18. Given the similar management goals and heavy recreational use, the state land in Section 18 was transferred from Compartment 163 to 164. There are several active wells and pipelines in the compartment as well as many abandoned sites, many of which have been reforested by volunteer efforts.

Unique Natural Features:

An historical EO for a state Special Concern species encompasses a large portion of the county including this compartment.

Archeological, Historical, and Cultural Features:

None identified.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

This compartment is within the Rapid River watershed. Smith Lake, Milk Lake, and some smaller ponds are located in this compartment; existing buffers appear to be appropriate for the proposed treatments. Reasonable buffers (as outlined in Water Quality Management Practices on Forest Land) should be adhered to around waterbodies in this compartment. Water levels in these lakes appear to fluctuate from year to year so buffers should protect higher levels.

Wildlife Habitat Considerations:

Most of compartment 164 is underlain by excessively drained, acidic sands. Consequently, wildfire was an important natural process on this landscape. Ice-block depressions can be found throughout most of this landscape and may contain poorly drained organic soils. These depressions often support lakes and other wetland communities.

Some depressions function as frost pockets or cold air drainages and support open or semi-open communities. Selective cutting and burning have been prescribed for management of the larger upland brush communities. Burning will stimulate native herbaceous vegetation, set back encroachment, recycle nutrients, and create a seedbed necessary for some plants to germinate. Grasshopper sparrows, sharp-shinned hawks, wild turkeys, deer, badgers, Eastern box turtles, and numerous species of plants and invertebrates make use of, or are dependent on these fire driven communities. Other opening maintenance projects include selective hand felling, mowing and fertilizing existing grasses, and establishing new patches of herbaceous cover.

Oak and pine make up a large percentage of the forested habitats here. Several northern hardwood stands can also be found here. Proposed oak treatments are intended to promote oak regeneration and create a diversity of oak age classes. This will ensure a continuous presence of mature mast producing trees on the landscape. Critical habitat components will be provided by the retention of mature mast producing trees, protection of snags and den trees, and creation of woody debris during or after harvest. Wild turkeys, broad-winged hawks, scarlet tanagers, deer, bear, American toads, and hog-nosed snakes are examples of the many species that will benefit from oak management.

Aspen communities are an important component of this fire prone early successional landscape. Timber harvests are typically used in lieu of stand replacing fires, which were once common. The incorporation of snags, live residual trees, and downed material in these cuts are used help to increase wildlife use and to replicate a wildfire-altered forest. Several proposed non-aspen dominated timber treatments will incorporate the regeneration and expansion of scattered aspen. Many early successional dependent wildlife species will benefit from aspen management, including, ruffed grouse, woodcock, deer, mourning warblers, yellow-billed cuckoos, and indigo buntings.

Mineral Resource and Development Concerns and/or Restrictions

There is no known potential for the occurrence of economic deposits of metallic minerals in this part of the state. The State-managed Smith Lake sand & gravel pit occurs within the compartment. The pit has not been leased for several years but was never reclaimed. The pit has not been recently evaluated for remaining aggregate reserves. There is likely potential for additional aggregate resources within the compartment on the uplands. The compartment is within the Silurian reef hydrocarbon play, and significant exploration and development have occurred in the compartment. There still may be some potential additional future drilling within the compartment, and all State-owned oil & gas rights within the compartment are currently under lease. Depleted reef reservoirs in the area have the potential for future underground gas storage or sequestration operations, and a large portion of the compartment is currently nominated for gas storage leasing. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

There is good vehicle access throughout the compartment. Smith Lake Road and Island Lake Road are year-round county roads. Brown Farm Road is a seasonal county road but oil/gas companies plow it in the winter. There is an old road through an abandoned well site (now Stand 405) that should be blocked since it is eroding a steep, sandy hillside and is not necessary for access.

Survey Needs:

None at this time

Recreational Facilities and Opportunities:

Snowmobile Trail #55 runs E/W through the compartment and the Michigan Cross Country Cycle Trail (MCCCT) utilizes state forest two-tracks, as well as Smith Lake Rd within this compartment. Trail protection specifications should be considered if either trail is potentially impacted by treatment methods. (T.N. 1/28/16) Due to its proximity to the Village of Kalkaska, this compartment is also popular with non-motorized trail users. The North Country Trail crosses the compartment on two-tracks or singletrack trail and there is a designated camping site on the south shore of Smith Lake. A recently approved singletrack mountain bike trail winds through Section 13 and part of 14. The rest of the mountain bike trail system is also in development. Other events including Kalkaska Winterfest (dogsled), Iceman Cometh (mountain bike) and Arbor Day Enduro (dirt bike) use trails and/or existing roads in this compartment.

Fire Protection:

There is a moderate risk of wildfire potential, mostly in the older jack pine stands in the western half. Heavier recreational use may mean fire is more likely to start but close proximity to the DNR office and Village fire departments will ensure rapid response.

Additional Compartment Information:

Oak wilt was found in (near Smith Lake) and adjacent to the compartment in 2015 and treated in 2016.

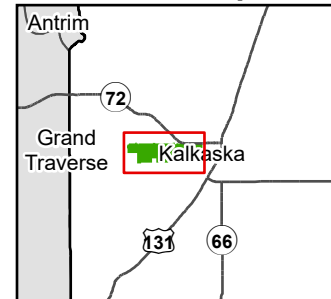
The following reports from the Inventory are attached:

- 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: 61164
T27N 07W Sec. 18
County: Kalkaska
Unit: Traverse City
Mgmt. Area: Kalkaska Sandy Moraines
YOE: 2028
Acres: 1,809 GIS Calculated
Examiner: Paul Roell
Date Exported: 06/29/2026
Map Phase: Web Post

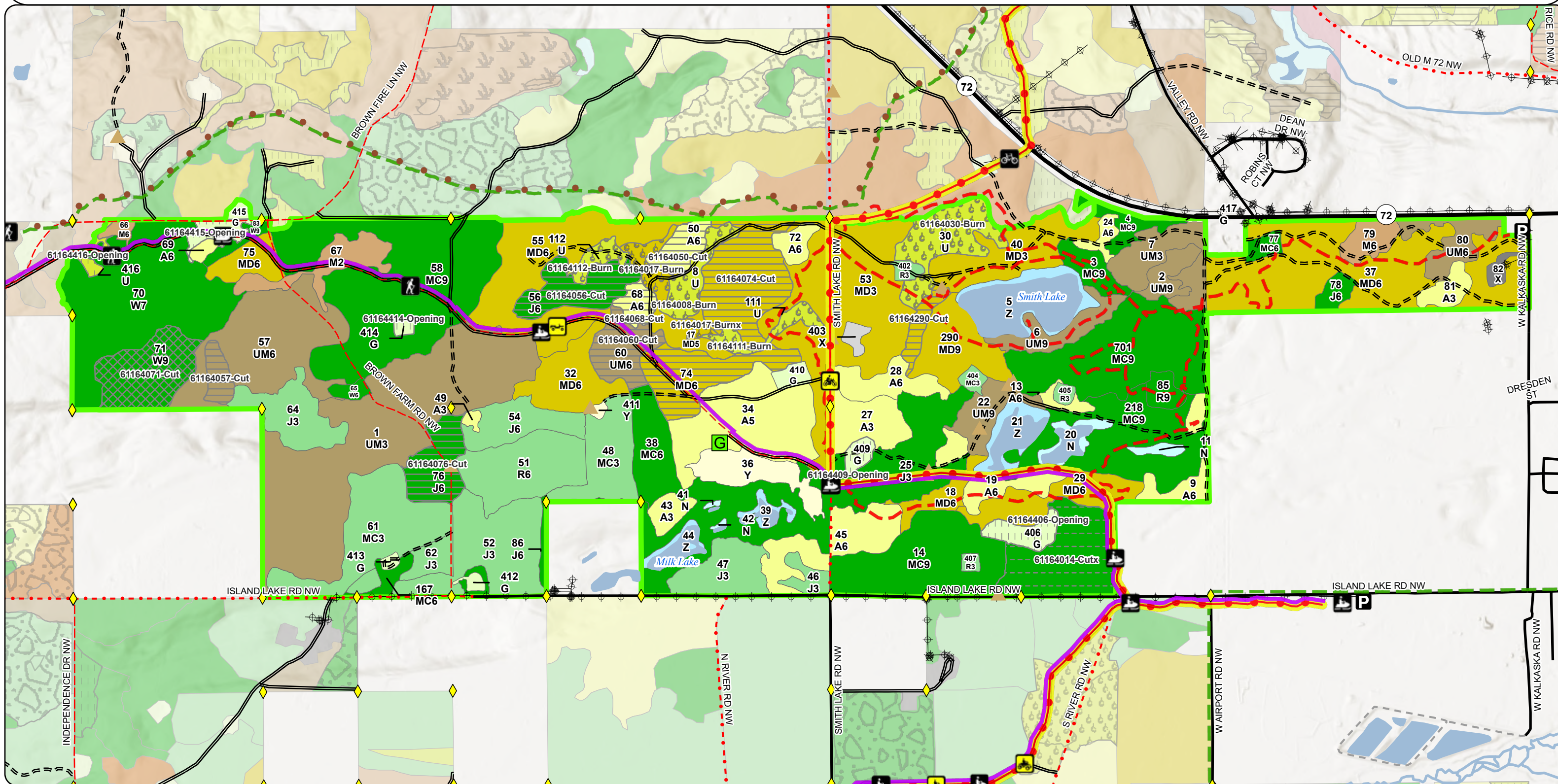
0 0.5 1 Miles

- Survey Grade Corners
- Parking Lot
- Berm
- Gate
- Designated Hiking Pathway
- Designated Bicycle Trails
- Designated Equestrian Trails
- Designated MCCCT Trails
- Designated ORV Routes
- Designated Motorcycle Trails

- Designated Snowmobile
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers

- Electric
- Compartment Boundary
- Clearcut
- Selection
- Overstory Removal
- Prescribed Burn
- Openings Mgmt.
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous

- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 500 - Water
- 110 - Low Intensity Urban
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 623 - Emergent Wetland
- 710 - Sand, Soil

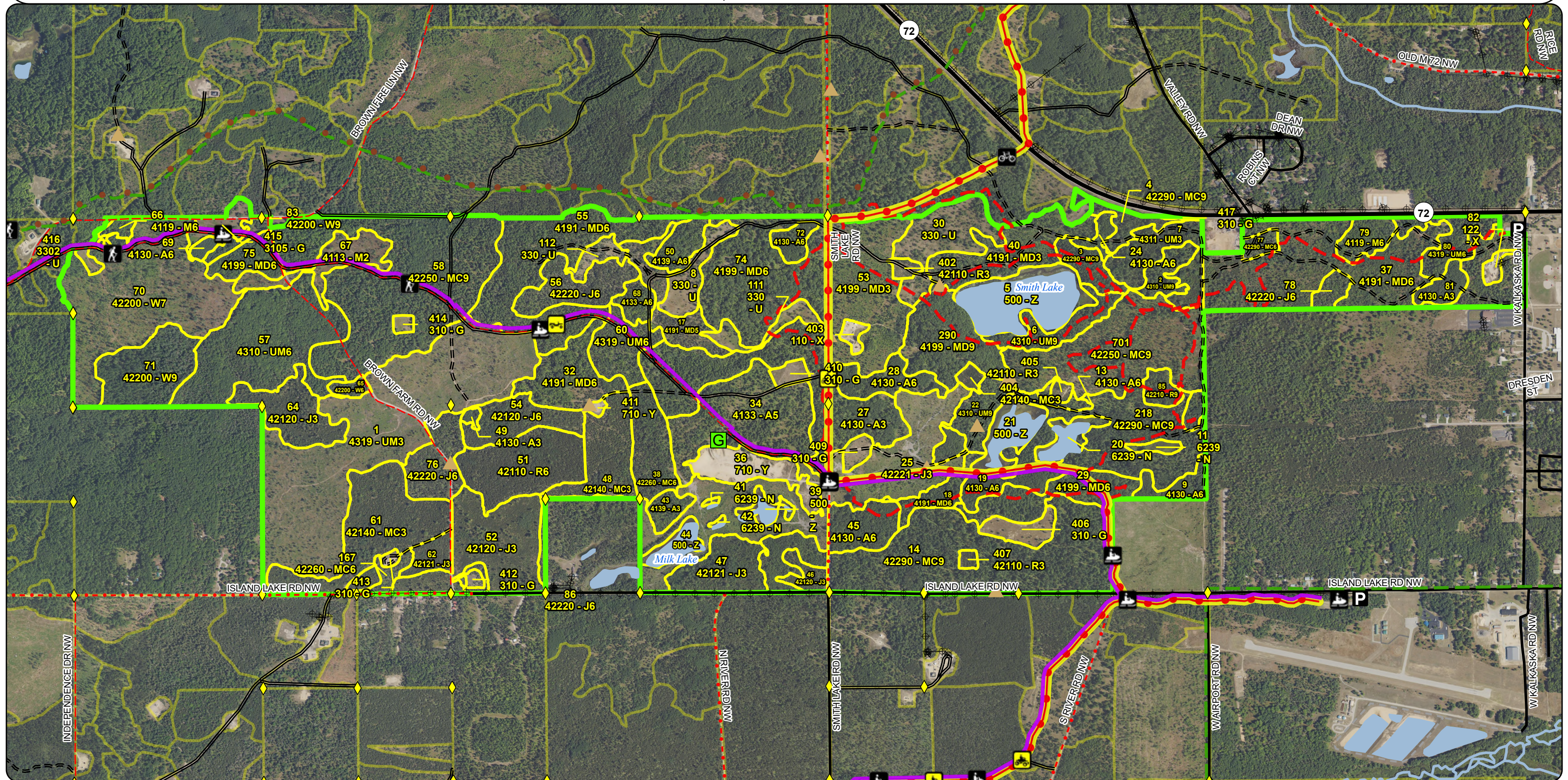




A horizontal scale bar with a black outline. It is divided into two equal segments by a vertical line. The number '0.5' is positioned above the left segment, and the number '1' is positioned above the right segment. To the right of the bar, the word 'Miles' is written.

- Legend:
- == : DNR - Forest Access Route
 - Federal / State Highway
 - Federal / State / County - Paved Road
 - - - County - Gravel Road
 - - - County - Dirt Road (Seasonal)
 - - - Private - Dirt / Gravel Road
 - Streams
 - Lakes and Rivers
 - ⊕ Electric
 - Compartment Boundary
 - Compartment Stand Yellow Outline (PD)
- 411 - Northern Hardwood 411 - Northern Hardwood

- | | |
|------------------------------|------------------------------|
| 413 - Aspen | 413 - Aspen |
| 419 - Mixed Upland Deciduous | 419 - Mixed Upland Deciduous |
| 421 - Planted Pines | 421 - Planted Pines |
| 422 - Natural Pines | 422 - Natural Pines |
| 430 - Upland Mixed Forest | 430 - Upland Mixed Forest |
| 500 - Water | 500 - Water |
| 110 - Low Intensity Urban | 110 - Low Intensity Urban |
| 122 - Road/Parking Lot | 122 - Road/Parking Lot |
| 310 - Herbaceous Openland | 310 - Herbaceous Openland |
| 330 - Low Density Trees | 330 - Low Density Trees |
| 623 - Emergent Wetland | 623 - Emergent Wetland |
| 710 - Sand, Soil | 710 - Sand, Soil |

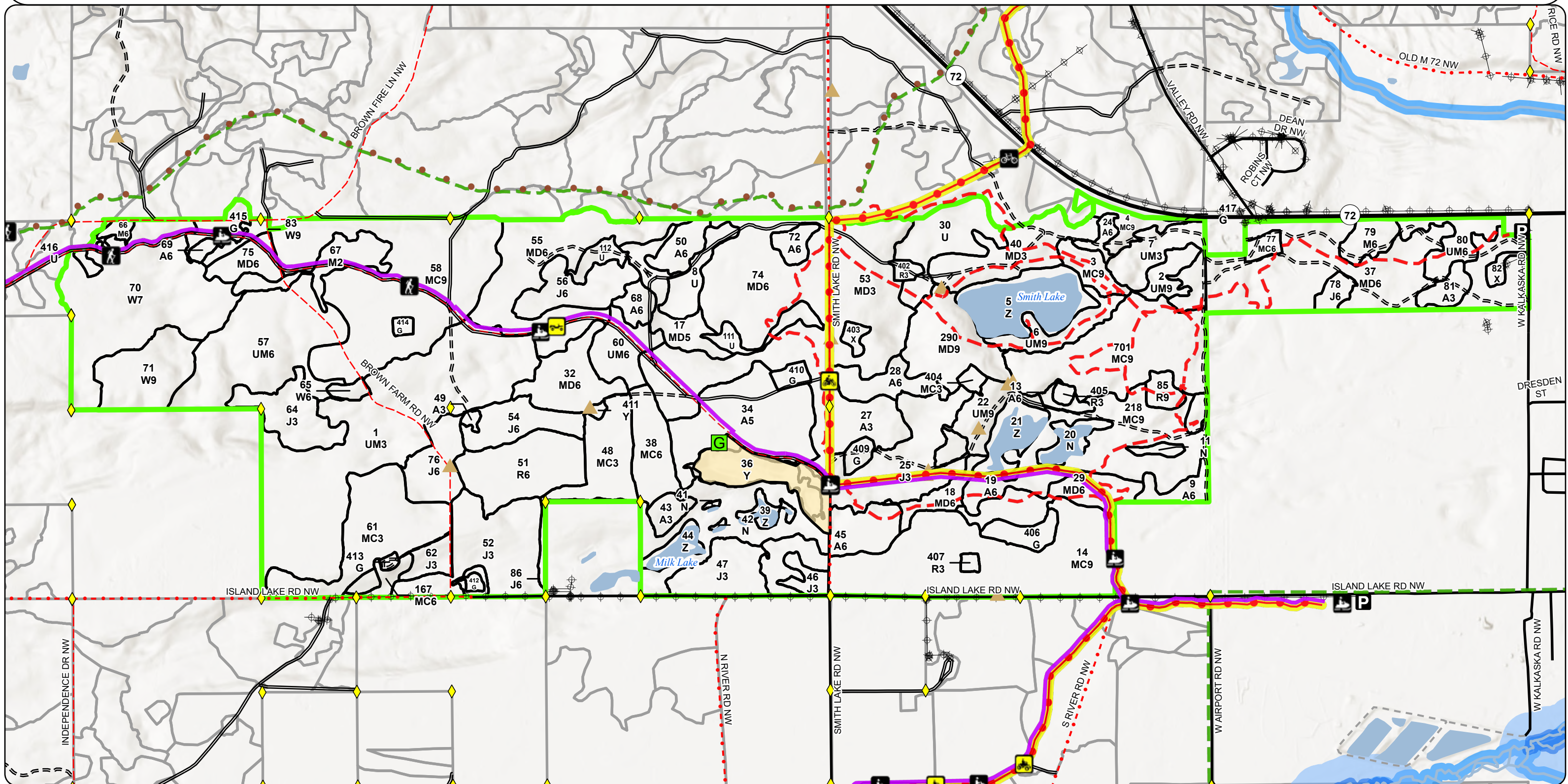


-  Survey Grade Corners
-  Parking Lot
-  Berm
-  Gate
-  Designated Hiking Pathway
-  Designated Bicycle Trails
-  Designated Equestrian Trails
-  Designated MCCCT Trails

- == Designated ORV Routes
- Designated Motorcycle Trails
- Designated Snowmobile
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road

- . . - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
-  Electric
- Compartment Boundary

- ### High Conservation Value Areas
- Natural Rivers Vegetative Buffer
 - Natural Rivers Zoning District
 - SCA
 - Cold Water Streams
 - High Priority Trout Stream Buffer
 - Sand or Gravel Pit



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	22	73	56	15	0	0	0	0	0	0	0	0	0	0	0	164
Herbaceous Openland	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Jack Pine	0	78	40	52	17	0	46	0	0	0	0	0	0	0	0	0	0	0	233
Low-Density Trees	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Marsh	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	0	46	28	85	52	24	22	94	0	22	29	0	0	0	0	0	0	10	412
Natural Mixed Pines	0	0	0	0	0	0	4	80	0	246	0	0	0	0	0	0	0	0	330
Northern Hardwood	0	15	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	2	25
Planted Mixed Pines	0	0	2	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Red Pine	0	0	5	0	32	0	0	0	0	0	0	5	0	0	0	0	0	0	42
Sand, Soil	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Upland Mixed Forest	0	123	0	21	0	0	0	29	8	0	13	13	0	0	0	0	0	59	265
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
White Pine	0	0	0	0	0	0	0	82	4	0	0	27	0	0	0	0	0	0	111
Total	160	262	75	244	174	80	87	293	12	268	42	45	0	0	0	0	0	71	1808



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 164
Total Compartment Acres: 1,809

Commercial Harvest - 370
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	Oversky Removal	Salvage	Other	Total Acres
Aspen	15	0	0	0	0	0	0	0	0	15
Jack Pine	36	0	0	0	0	0	0	0	0	36
Mixed Upland Deciduous	68	0	0	0	0	0	0	0	0	68
Natural Mixed Pines	0	0	0	0	0	36	0	0	0	36
Upland Mixed Forest	22	0	0	0	0	0	0	0	0	22
White Pine	0	27	0	0	0	0	0	0	0	27
Total	140	27	0	0	0	36	0	0	0	203

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	203	0	0	0	55	0	0	0	0	279
Next Step	0	0	0	0	0	0	167	0	24	222
Total	203	0	0	0	55	0	167	0	24	501



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

8	61164008-Burn	10.7	330 - Low-Density Trees	99			Burn	Prescribed Burn	3303 - Mixed Low Density Trees	Previous Inventory	No
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Prescription Specs: Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting

Next Step Treatments: Openings Mgmt., Other - Specify

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

14	61164014-Cutx	36.0	42290 - Natural Mixed Pine	9	86	81-110	Harvest	Overstory Removal	42290 - Natural Mixed Pine	Planting Record	No
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Prescription Specs: Cut all trees 6 inches and greater. Release established understory. Include oak wilt specs. Agreed to not follow natural pine guidance

Next Step Treatments:

Acceptable Regen:

Other Comment: This area is part of the 160 acres that was agreed to be sold to the township if they show progress on their recreational facility project.

Site Condition:

Proposed Start Date: 10/01/2027

17	61164017-Burn	7.1	4191 - Mixed Upland Deciduous with Conifer	5	40	1-50	Burn	Prescribed Burn	3303 - Mixed Low Density Trees	Previous Inventory	No
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Prescription Specs: Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting

Next Step Treatments: Openings Mgmt., Other - Specify

Acceptable Regen:

Other Comment: This is a small area of a larger forested stand of lower stocking that connects two upland shrub stands that have a controlled burn treatment proposal. Burning this portion of the parent stand will allow the connection of burn treatments. Most of this is

Site Condition:

Proposed Start Date: 10/01/2027



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
17	61164017-Burnx	1.8	4191 - Mixed Upland Deciduous with Conifer	5	40	1-50	Burn	Prescribed Burn	3303 - Mixed Low Density Trees	Previous Inventory	No
<u>Prescription</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting <u>Specs:</u> <u>Next Step</u> Openings Mgmt., Other - Specify <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> This is a small area of a larger forested stand of lower stocking that connects two upland shrub stands that have a controlled burn treatment <u>Comment:</u> proposal. Burning this portion of the parent stand will allow the connection of burn treatments. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
30	61164030-Burn	23.5	330 - Low-Density Trees	99			Burn	Prescribed Burn	3205 - Mixed Upland Shrub	Previous Inventory	No
<u>Prescription</u> Selectively remove woody encroachment via Hydro-axe or a small fire wood sale (?) to remove mainly red maple. May need to mechanically treat bracken fern. The main treatment of this stand will be to burn it at least once per entry period in order to se <u>Specs:</u> <u>Next Step</u> NonForestMgt, Brush Cutting <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
50	61164050-Cut	8.7	4139 - Aspen, Mixed Deciduous	6	55	111- 140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> cut all trees 2 inches and larger in diameter. Leave all white oak. Protect recreation trails and include oak wilt specs. Include grouse spec. No <u>Specs:</u> retention to maximize aspen regeneration <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> a mix of aspen, red maple, oak, cherry and pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
56	61164056-Cut	19.1	42220 - Natural Jack Pine	6	59	Unspec ified	Harvest	Clearcut	4222 - Natural Jack Pine	Planting Record	No
<u>Prescription</u> Cut all trees 2 inches and up. Require snow off whole tree operation for scarification <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> a mix of jack pine, oak, aspen and red maple <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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57	61164057-Cut	6.04310 - Pine, Oak Mix	6	70	111-140	Harvest	Clearcut	4131 - Aspen, Oak	Planting Record	No
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Prescription cut all trees 4 inches and larger in diameter. Leave all white pine and white oak. Include oak wilt specs. Include a grouse spec. Area retention has been mapped and to the south

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable a mix of aspen, oak, red maple and pine

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

60	61164060-Cut	15.5 4319 - Mixed Upland Forest	6	60	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
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Prescription cut all trees 2 inches and larger in diameter. Leave all white oak. Protect recreation trails and include oak wilt specs. Area retention is a portion of the stand along the recreation trail

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable a mix of aspen, red maple, oak and pine

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

68	61164068-Cut	5.8 4133 - Aspen, Mixed Pine	6	57	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
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Prescription cut all trees 2 inches and larger in diameter. Leave all white oak. Protect recreation trails and include oak wilt specs. Include grouse specs.

Specs: No retention to maximize aspen regeneration.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable a mix of aspen, oak, red maple, cherry and pine

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

71	61164071-Cut	26.5 42200 - Natural White Pine	9	105	111-140	Harvest	Selection	42201 - Natural White Pine, Mixed Deciduous	Current	No
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Prescription Mark stand to a residual BA of 80-100 square feet per acre. Open up areas around established regeneration to release it. Leave trees with characteristics of legacy trees.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable white pine, red pine, red maple and oak

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027



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

74 61164074-Cut 61.9 4199 - Other Mixed Upland Deciduous 6 67 51-80 Harvest Clearcut 4139 - Aspen, Mixed Deciduous Planting Record No

Prescription cut all trees 2 inches and larger in diameter. Leave all white pine and white oak. Include grouse specs, protect recreation trails and include oak wilt specs. Area retention should be placed along the rec trails.

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

Acceptable a mix of aspen, oak, red maple, cherry and pine
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

76 61164076-Cut 17.2 42220 - Natural Jack Pine 6 50 Unspecified Harvest Clearcut 42220 - Natural Jack Pine Planting Record No

Prescription Cut all trees 2 inches and up. Require snow off whole tree operation for scarification
Specs:

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

Acceptable a mix of jack pine, red maple, oak, aspen and
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

111 61164111-Burn 7.1 330 - Low-Density Trees 99 Burn Prescribed Burn 3303 - Mixed Low Density Trees Previous Inventory No

Prescription Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting

Next Step Openings Mgmt., Other - Specify
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

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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
112 61164112-Burn	5.0	330 - Low-Density Trees	99			Burn	Prescribed Burn	3303 - Mixed Low Density Trees	Previous Inventory	No
<u>Prescription</u> <u>Specs:</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting <u>Next Step</u> Openings Mgmt., Other - Specify <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
290 61164290-Cut	5.9	4199 - Other Mixed Upland Deciduous	9	90	81-110	Harvest	Clearcut	4131 - Aspen, Oak	Planting Record	No
<u>Prescription</u> Cut all trees 2 inches and larger in diameter. Leave all white pine and white oak. Protect recreation trails and include oak wilt specs. Winter <u>Specs:</u> harvest only to protect sensitive areas Area retention has been delineated out and is a portion of the stand <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, oak and red maple <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
406 61164406-Opening	7.5	310 - Herbaceous Openland	99			Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> This opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil <u>Specs:</u> will support it. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of wood <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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409	61164409-Opening	3.4	310 - Herbaceous Openland	99		Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
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Prescription There has been a nice cover of little bluestem here. Work to perpetuate this native herbaceous cover. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

414	61164414-Opening	1.5	310 - Herbaceous Openland	99		Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
------------	-------------------------	-----	---------------------------	----	--	----------------	----------------	---------------------------	--------------------	----

Prescription This opening would make a nice wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil will support it. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

415	61164415-Opening	5.7	3105 - Mixed Upland Herbaceous	99		Openings Mgmt.	Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
------------	-------------------------	-----	--------------------------------	----	--	----------------	----------------	---------------------------	--------------------	----

Prescription This opening was a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil will support it. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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416	61164416-Opening	2.8	3302 - Low Density Conifer Trees	99			Openings Mgmt. Openings Mgmt.	310 - Herbaceous Openland	Previous Inventory	No
<u>Prescription</u> This opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil <u>Specs:</u> will support it. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of wood <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										

Total Treatment 278.7
Acreage Proposed:



Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available		Dominant Site Conditions			
Acres	Available	With Condition	Not Available		5B	5C	3J	5E
165	165	0	0	Aspen				
26	26	0	0	Herbaceous Openland				
162	155	0	7	Jack Pine			7	
49	49	0	0	Low-Density Trees				
10	10	0	0	Marsh			0	
357	347	0	10	Mixed Upland Deciduous			9	1
295	275	7	14	Natural Mixed Pines		7	14	
26	26	0	0	Northern Hardwood				
66	67	0	0	Planted Mixed Pines				
42	42	0	0	Red Pine				
17	17	0	0	Sand, Soil				
262	239	9	15	Upland Mixed Forest	9		15	
5	5	0	0	Urban				
53	53	0	0	Water				
112	112	0	0	White Pine				
1,648	1,586	16	46	Total Forested Acres	9	7	44	1
	96%	1%	3%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
3	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
Buffer around ponds.								

Report 4 – Site Conditions



4	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Heavy recreational use in this area.							
8	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	0	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



MICHIGAN

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
1	4319 - Mixed Upland Forest	Sapling Well	123.2	6	Immature	N/A	2020: Cut fall 2019 - spring 2020. Park Forest Products. Baby Margaret Mix 61-136-18. Clearcut with 2" spec. East part has Breitburn natural gas and water pipelines.																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>10</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Red Oak</td><td>5</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Red Pine</td><td>10</td><td>Pole</td><td>8</td><td></td></tr><tr><td>White Pine</td><td>15</td><td>Pole/Sapling</td><td>6</td><td></td></tr><tr><td>Jack Pine</td><td>20</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Red Maple</td><td>40</td><td>Sapling</td><td>1</td><td>6</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	10	Sapling	1		Red Oak	5	Sapling	1		Red Pine	10	Pole	8		White Pine	15	Pole/Sapling	6		Jack Pine	20	Sapling	1		Red Maple	40	Sapling	1	6																												
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Jack Pine	20	Sapling	1																																																																			
Red Maple	40	Sapling	1	6																																																																		
2	4310 - Pine, Oak Mix	Sawtimber Well	7.7	70	51-80	N/A	Shelterwood cut winter 2012-13 as part of Comp 164 East Side Oak, 61-048-09-01. Removed all RM, aspen, JP, and marked oak and pine.																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>35</td><td>Log</td><td>10</td><td></td><td>Witch Hazel</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Pine</td><td>15</td><td>Log</td><td>12</td><td></td><td>Red Maple</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Oak</td><td>50</td><td>Log</td><td>10</td><td>70</td><td>White Pine</td><td>Medium</td><td>>20 feet</td><td>>20 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	White Pine	35	Log	10		Witch Hazel	Low	5 - 10 feet	5 - 10 feet	Red Pine	15	Log	12		Red Maple	Medium	5 - 10 feet	5 - 10 feet	Red Oak	50	Log	10	70	White Pine	Medium	>20 feet	>20 feet																											
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Red Oak	50	Log	10	70	White Pine	Medium	>20 feet	>20 feet																																																														
3	42290 - Natural Mixed Pine	Sawtimber Well	8.4	85	111-140	N/A	Variable BAs. Denser pine is mostly in the north end. Old grade and MTB trail run through stand. Slopes down towards Smith Lake. Aspen and jack pine is basically gone.																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Jack Pine</td><td>2</td><td>Pole</td><td>8</td><td></td><td>White Pine</td><td>High</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>5</td><td>Pole/Log</td><td>8</td><td></td><td>Red Maple</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Bigtooth Aspen</td><td>3</td><td>Log/Pole</td><td>10</td><td></td><td>Witch Hazel</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Oak</td><td>10</td><td>Log</td><td>14</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Red Pine</td><td>45</td><td>Log/Pole/XLog</td><td>12</td><td>85</td><td></td><td></td><td></td><td></td></tr><tr><td>White Pine</td><td>35</td><td>Log/Pole/XLog</td><td>10</td><td>85</td><td></td><td></td><td></td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	2	Pole	8		White Pine	High	Variable	Variable	Red Maple	5	Pole/Log	8		Red Maple	Low	10 - 20 feet	10 - 20 feet	Bigtooth Aspen	3	Log/Pole	10		Witch Hazel	Low	5 - 10 feet	5 - 10 feet	Red Oak	10	Log	14						Red Pine	45	Log/Pole/XLog	12	85					White Pine	35	Log/Pole/XLog	10	85				
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White Pine	35	Log/Pole/XLog	10	85																																																																		
4	42290 - Natural Mixed Pine	Sawtimber Well	7.7	80	81-110	N/A	Thinned to ~70 sf/acre winter 2012-13. Comp 164 East Side Oak, 61-048-09-01. Removed all RM, aspen, JP, and marked pine and oak. Good visual/noise buffer in area of heavy recreational use.																																																															
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Red Oak	20	Log/Pole	10																																																																			
5	500 - Water	None	29.6			No																																																																
6	4310 - Pine, Oak Mix	Sawtimber Well	12.6	91	111-140	N/A	Mostly healthy oak and pine with relatively dense white pine in the understory. Moderate slope down to lake.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
7	4311 - Pine, Aspen Mix	Sapling Well	20.6	23	Immature	N/A	Winterfest Jack Pine, sale 61-114-98-01, completed June 1999. Might be FTP C62-674, completed 5/2002. A few overstory oaks and pines. Red maple is taller than jack pine. Some pockets of jack pine are doing ok. Decent oak regen in spots (2-8" diameter).																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>40</td><td>Sapling</td><td>3</td><td>23</td></tr><tr><td>Red Maple</td><td>20</td><td>Sapling</td><td>3</td><td></td></tr><tr><td>Red Oak</td><td>10</td><td>Log</td><td>12</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>20</td><td>Sapling</td><td>4</td><td></td></tr><tr><td>White Pine</td><td>5</td><td>Pole/Log</td><td>8</td><td></td></tr><tr><td>Red Pine</td><td>5</td><td>Log</td><td>12</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	40	Sapling	3	23	Red Maple	20	Sapling	3		Red Oak	10	Log	12		Bigtooth Aspen	20	Sapling	4		White Pine	5	Pole/Log	8		Red Pine	5	Log	12																													
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Red Pine	5	Log	12																																																																			
8	330 - Low-Density Trees	None	10.7			No																																																																
9	4130 - Aspen	Poletimber Well	9.8	37	81-110	N/A	Airport Aspen, sale 61-052-87-01, completed June 1988.																																																															
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Bigtooth Aspen	85	Pole	6	37																																																																		
11	6239 - Mixed Emergent Wetland	None	2.3			No																																																																
13	4130 - Aspen	Poletimber Well	2.8	37	81-110	N/A	Hayfever sale, 61-053-87-01, completed June 1988.																																																															
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Bigtooth Aspen	75	Pole	6	37																																																																		
14	42290 - Natural Mixed Pine	Sawtimber Well	83.3	86	81-110	N/A	Island Lake Pine, 61-024-09-01. Cut November 2010 by Tree Doc. Removed RM, JP and aspen. Left RP, WP, and oak. Only cut ~5.4 cords/acre. Chipped. Originally prescribed to plant jack pine following sale but residual was too thick so Chapter 7 was approved to leave as is. Stand is variable with scattered open parts, pockets of dense uneven-aged red pine, and other areas that are dense white pine regen. Stand is almost three-aged now with older red pine, white pine and oak, middle-aged white pine, and new red maple in some of the canopy gaps.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
24	4130 - Aspen	Poletimber Well	3.6	37	51-80	N/A	Hayfever sale, 61-053-87-01, completed June 1988. Aspen just starting to reach pole size.																																														
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25	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	77.9	5	Immature	N/A	Cut summer 2020. Milk Shake Mix, 61-112-18. Flail chipped by Ted Flees. Left retention pocket of red pine around MTB trail in southwest part of stand.																																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>5</td><td>Sapling</td><td>4</td><td></td></tr><tr><td>White Pine</td><td>5</td><td>Sapling/Pole</td><td>4</td><td></td></tr><tr><td>Red Oak</td><td>5</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Red Maple</td><td>25</td><td>Sapling</td><td>1</td><td>5</td></tr><tr><td>Jack Pine</td><td>60</td><td>Sapling</td><td>1</td><td>5</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	5	Sapling	4		White Pine	5	Sapling/Pole	4		Red Oak	5	Sapling	1		Red Maple	25	Sapling	1	5	Jack Pine	60	Sapling	1	5																					
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27	4130 - Aspen	Sapling Well	16.5	27	Immature	N/A	Smith Lake Road Aspen, sale 61-113-98-01. Scattered oak appears to be suppressing aspen growth. A few pole-sized oaks.																																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>65</td><td>Sapling/Pole</td><td>3</td><td>27</td></tr><tr><td>White Pine</td><td>5</td><td>Sapling</td><td>3</td><td></td></tr><tr><td>Jack Pine</td><td>5</td><td>Sapling/Pole</td><td>4</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td>Sapling/Pole</td><td>4</td><td></td></tr><tr><td>Red Oak</td><td>15</td><td>Log/Pole</td><td>12</td><td>90</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	65	Sapling/Pole	3	27	White Pine	5	Sapling	3		Jack Pine	5	Sapling/Pole	4		Red Maple	10	Sapling/Pole	4		Red Oak	15	Log/Pole	12	90																					
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28	4130 - Aspen	Poletimber Well	16.5	37	51-80	N/A	Hayfever sale, 61-053-87-01, completed June 1988. Good regeneration with a few overstory oaks.																																														
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29	4199 - Other Mixed Upland Deciduous	Poletimber Well	21.5	57	81-110	N/A																																															
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30	330 - Low-Density Trees	None	23.5			No	Opening that is filling in with black cherry, jack pine and a few scrubby oaks.																																														



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
32	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	21.7	87	81-110	N/A																																																														
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34	4133 - Aspen, Mixed Pine	Poletimber Medium	45.8	45	81-110	N/A	Variable stand. Poorly stocked with scattered openings. Poor quality timber with scrappy aspen and red maple sprouts. Some jack pine is taller than aspen. Sizeable openings and sparser canopy in the southeast.																																																													
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36	710 - Sand, Soil	None	16.4			No	County sand pit on long term lease with DNR.																																																													
37	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	85.4	22	Immature	N/A	Stand was harvested in 2005. All red pine, white pine and oak were left as residual.																																																													
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38	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	18.2	66	81-110	N/A																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
39	500 - Water	None	4.1			No																																				
40	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	27.7	14	Immature	N/A	Shelterwood cut winter 2012-13 as Comp 164 East Side Oak, 61-048-09-01. Removed all RM, aspen, JP and marked oak and pine. Oak BA is higher in a few spots. Only a few oak stump sprouts. A little bit of aspen at edges. Eastern tip has a little more pine in canopy and much more white pine in understory. Oak wilt in south part of stand along lake shore. Plow line put in. Scattered blowdown from August 2015 storm. Contains new MTB trail, Iceman route, Winterfest dogsled trail, and old RR grade. RDR project in spring 2015 to block off old road that used to be at edge of lake and contain vehicle traffic on north side of lake. Removed more canopy as part of Trees and Trails, 61-139-17-01, March 2019. Cut everything except white oak, white pine, and scattered trees (mostly along recreational trails). More red pine in eastern tip of stand.																																			
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41	6239 - Mixed Emergent Wetland	None	0.4			No	Intermittently fills with water.																																			
42	6239 - Mixed Emergent Wetland	None	0.4			No	Intermittently fills with water.																																			
43	4139 - Aspen, Mixed Deciduous	Sapling Well	5.4	26	Immature	N/A	Milk Lake Jack/Aspen, 61-116-98-01, completed April 2000. Cut everything except red pine > 10" dbh and left all oak. Old grade runs along southeastern edge.																																			
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44	500 - Water	None	6.3			No	Milk Lake. Water level fluctuates from year to year. Includes a small island of jack pine.																																			
45	4130 - Aspen	Poletimber Well	25.0	37	51-80	N/A	Indian Summer Sale, 61-063-87-01, completed March 1988. Well-stocked with scattered overstory conifers.																																			
<table> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> <tr> <td>Bigtooth Aspen</td> <td>85</td> <td>Pole/Sapling</td> <td>5</td> <td>37</td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	85	Pole/Sapling	5	37	White Pine	5	Sapling/Pole	4		Red Maple	10	Sapling/Pole	3																
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MICHIGAN

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
46	42120 - Planted Jack Pine	Sapling Well	5.1	23	Immature	N/A	Milk Lake Jack/Aspen, sale 61-116-98-01, completed April 2000. FTP C62-671. Trenched in fall 2001 and planted May 2002. Jack pine is 6-12' tall.																																	
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47	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	18.6	23	Immature	N/A	Milk Lake Jack/Aspen, sale 61-116-98-01. FTP C62-671. Trenched in fall 2001 and planted May 2002. Jack pine is 6-12' tall.																																	
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48	42140 - Planted Mixed Pine	Sapling Well	22.6	23	Immature	N/A	Section 14 Jack Pine, sale 61-193-98-01. FTP C62-659. Trenched in summer 2000, planted red pine in September 2000 but not very successful. Supplemental planting in May 2002. Heavy competition from jack pine. Scattered overstory oak with a pocket of aspen on the south end of the stand.																																	
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49	4130 - Aspen	Sapling Well	1.2	37	81-110	N/A																																		
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50	4139 - Aspen, Mixed Deciduous	Poletimber Well	8.7	55	111-140	N/A																																		
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51	42110 - Planted Red Pine	Poletimber Well	31.7	36	81-110	N/A	Timber sale 61-004-88-01. FTP C62-408. Planted May 1989. Red pine just reaching pole size. Fair amount of competition. Some poorly stocked areas, especially along north edge.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
52	42120 - Planted Jack Pine	Sapling Well	39.9	15	Immature	N/A	Feet First Pine, 61-023-09-01, completed Oct-Nov 2009. Left all red pine, oak and cherry. FTP C62-801, trenched 2010 and planted May 2011. Scattered pockets of aspen. Decent amount of residual pine in southeast corner of stand. Left sliver along private boundary.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>88</td><td>Sapling</td><td>2</td><td>15</td></tr><tr><td>Red Oak</td><td>5</td><td>Pole/Log</td><td>8</td><td></td></tr><tr><td>Red Pine</td><td>5</td><td>Log</td><td>10</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>2</td><td>Sapling</td><td>2</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	88	Sapling	2	15	Red Oak	5	Pole/Log	8		Red Pine	5	Log	10		Bigtooth Aspen	2	Sapling	2											
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53	4199 - Other Mixed Upland Deciduous	Sapling Well	46.2	7	Immature	N/A	Shelterwood cut winter 2012-13. Comp 164 East Side Oak, 61-048-09-01. Removed all RM, aspen, JP and marked oak and pine. Removed more canopy in 2019. Cut everything >2" except white oak, white pine and scattered green trees (a few red oak & red maple mostly along recreational trails). Trees and Trails, 61-139-17-01, cut by AJD March 2019. NCT, Kalkaska MTB trail, Iceman, and Winterfest dogsled trail go through this stand.																																			
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54	42120 - Planted Jack Pine	Poletimber Well	16.9	37	81-110	N/A	FTP C62-409. Harvested in 1988. Planted May 1989. Trees are about 20' tall. Well stocked. Most of aspen appears to be in the west end. Some scattered residual oak.																																			
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55	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	52.0	35	51-80	N/A	Variable stand. Scattered residual red pine with red maple and aspen restarted in gaps. Red pine is clumpy. Large old pine stumps. Small openings with reindeer lichen. South part has more jack pine which is falling over.																																			
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56	42220 - Natural Jack Pine	Poletimber Well	19.1	59	Unspecified	N/A	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>>20 feet</td><td>>20 feet</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	>20 feet	>20 feet																											
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57	4310 - Pine, Oak Mix	Poletimber Well	58.5	70	111-140	N/A																																																								
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58	42250 - Pine, Oak	Sawtimber Well	99.5	89	111-140	N/A	Mid Winter Oak, 61-020-09-01. Completed Fall 2011. Removed all aspen, RM, beech and oak > 12" except green-painted trees. Extremely variable residual. Parts are still thick with white pine pole/saps and others have heavy red maple regen under scattered oak. Contains snowmobile and dogsled trails.																																																							
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60	4319 - Mixed Upland Forest	Poletimber Well	15.5	60	81-110	N/A	NCT.																																																							
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Sub-Canopy Species	Density	Avg. Height	Size																																																											
White Pine	Low	>20 feet	>20 feet																																																											
61	42140 - Planted Mixed Pine	Sapling Well	41.7	21	Immature	N/A	Feet First Pine, Sale 61-116-98-01. FTP C62-672.Trenched fall 2001, planted May 2002. Replanted in 2004 "to supplement the seedlings/acre numbers." Scattered overstory oaks and a few seedlings. Flat or south aspect.																																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>45</td><td>Sapling/Pole</td><td>3</td><td>25</td></tr><tr><td>Red Pine</td><td>45</td><td>Sapling</td><td>3</td><td>21</td></tr><tr><td>Red Oak</td><td>10</td><td>Pole/Sap/Log</td><td>6</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	45	Sapling/Pole	3	25	Red Pine	45	Sapling	3	21	Red Oak	10	Pole/Sap/Log	6																																										
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Red Oak	10	Pole/Sap/Log	6																																																											
62	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	8.7	24	Immature	N/A	Yard Chicken Jack Pine, sale 61-116-98-01. FTP C62-672.Trenched fall 2001, planted May 2002.																																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>80</td><td>Sapling</td><td>3</td><td>24</td></tr><tr><td>Bigtooth Aspen</td><td>20</td><td>Sapling</td><td>3</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	80	Sapling	3	24	Bigtooth Aspen	20	Sapling	3																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
64	42120 - Planted Jack Pine	Sapling Well	19.7	22	Immature	N/A	Yard Chicken Jack Pine, sale 62-021-98-01, completed April 2000, left all red pine an oak. Probably planted at the same time as 61, which was planted in 2002 and supplemented in 2004. Planted to mostly jack pine with some red pine. Red pine shown in subcanopy should really be in canopy (10%). Scattered overstory pine and oak.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Jack Pine	82	Sapling	3	22	Red Pine	Low		< 5 feet	< 5 feet
White Pine	2	Sapling	1						
Red Pine	10	Log/Pole	10	60					
Red Oak	3	Pole	6						
White Oak	3	Pole	6						
65	42200 - Natural White Pine	Poletimber Well	2.7	61	81-110	N/A			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	60	Pole/Log	8	61	White Pine	Low		5 - 10 feet	5 - 10 feet
Jack Pine	30	Pole	6						
Red Pine	5	Pole	6						
Red Oak	5	Pole/Log	8						
66	4119 - Mixed Northern Hardwoods	Poletimber Well	2.3	70	51-80	N/A	Small pocket of hardwoods. Manage with stand 85 in comp 167. Poor quality. Lots of ironwood in understory and some in canopy.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	2	Pole	8		Beech	Low		5 - 10 feet	5 - 10 feet
Ironwood	15	Pole/Sapling	5		White Pine	Low		10 - 20 feet	10 - 20 feet
White Pine	5	Log/Pole	12		Ironwood	High		5 - 10 feet	5 - 10 feet
Basswood	10	Log	12						
Red Oak	5	Log	14						
Black Cherry	5	Pole	6						
Red Maple	30	Pole/Log	8	70					
Sugar Maple	28	Pole/Log	8						
67	4113 - R.Maple, Conifer	Sapling Medium	15.1	7	Immature	N/A	2020: Cut fall 2019 - spring 2020. Park Forest Products. Baby Margaret Mix 61-136-18. 2016: Unusual natural pine stand with uncommonly large trees, but there is a fair amount of windthrow and some mortality. White pine understory is very thick and 5-10' tall in some places and still a carpet of seedlings in others. Fire scars on pine. Thinned as part of Lost Pine II, sale 61-037-01-01, completed July 2003.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Oak	10	Sapling/Pole/Log	1						
Red Pine	5	Pole/Sap/Log	8	83					
White Pine	20	Sapling/Pole/Log	2						
Bigtooth Aspen	5	Sapling	1	7					
Red Maple	60	Sapling	1	7					



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
68	4133 - Aspen, Mixed Pine	Poletimber Well	5.8	57	81-110	N/A																																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>50</td><td>Pole/Log</td><td>8</td><td>57</td></tr><tr><td>Jack Pine</td><td>10</td><td>Pole</td><td>8</td><td></td></tr><tr><td>Red Maple</td><td>20</td><td>Pole/Log</td><td>6</td><td></td></tr><tr><td>Red Pine</td><td>5</td><td>Pole/Log</td><td>8</td><td></td></tr><tr><td>Red Oak</td><td>10</td><td>Log/Pole</td><td>12</td><td></td></tr><tr><td>White Pine</td><td>5</td><td>Log/Pole</td><td>10</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	50	Pole/Log	8	57	Jack Pine	10	Pole	8		Red Maple	20	Pole/Log	6		Red Pine	5	Pole/Log	8		Red Oak	10	Log/Pole	12		White Pine	5	Log/Pole	10																													
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Red Oak	10	Log/Pole	12																																																																			
White Pine	5	Log/Pole	10																																																																			
69	4130 - Aspen	Poletimber Well	1.9	37	81-110	N/A																																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Bigtooth Aspen</td><td>95</td><td>Pole</td><td>6</td><td>37</td><td>White Pine</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>White Pine</td><td>5</td><td>Pole</td><td>6</td><td></td><td></td><td></td><td></td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Bigtooth Aspen	95	Pole	6	37	White Pine	Low	10 - 20 feet	10 - 20 feet	White Pine	5	Pole	6																																									
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White Pine	5	Pole	6																																																																			
70	42200 - Natural White Pine	Sawtimber Poor	78.5	66	1-50	N/A	2020: Cut fall 2019 - spring 2020. Park Forest Products. Baby Margaret Mix 61-136-18. Leave tree marked, leaving white pine, red pine, oak. Also left trees < 4" dbh.																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>60</td><td>Log/Pole/Sap</td><td>12</td><td>66</td><td>Ironwood</td><td>Trace</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Red Oak</td><td>10</td><td>Log</td><td>14</td><td></td><td>Beech</td><td>Trace</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Pine</td><td>25</td><td>Log/Pole</td><td>12</td><td></td><td>Quaking Aspen</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Sugar Maple</td><td>5</td><td>Log</td><td>12</td><td></td><td>Red Maple</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>Black Cherry</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>White Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	White Pine	60	Log/Pole/Sap	12	66	Ironwood	Trace	10 - 20 feet	10 - 20 feet	Red Oak	10	Log	14		Beech	Trace	5 - 10 feet	5 - 10 feet	Red Pine	25	Log/Pole	12		Quaking Aspen	Low	< 5 feet	< 5 feet	Sugar Maple	5	Log	12		Red Maple	Low	10 - 20 feet	10 - 20 feet						Black Cherry	High	5 - 10 feet	5 - 10 feet						White Pine	Low	Variable	Variable
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					Black Cherry	High	5 - 10 feet	5 - 10 feet																																																														
					White Pine	Low	Variable	Variable																																																														
71	42200 - Natural White Pine	Sawtimber Well	26.5	105	111-140	N/A	Lost Pine II, sale 61-037-01-01, completed July 2003.																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>60</td><td>Log/XLog/Pole</td><td>16</td><td>105</td><td>Red Maple</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Red Pine</td><td>40</td><td>Log/XLog/Pole</td><td>14</td><td></td><td>White Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>Red Oak</td><td>Low</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	White Pine	60	Log/XLog/Pole	16	105	Red Maple	High	10 - 20 feet	10 - 20 feet	Red Pine	40	Log/XLog/Pole	14		White Pine	Medium	Variable	Variable						Red Oak	Low	10 - 20 feet	10 - 20 feet																											
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					Red Oak	Low	10 - 20 feet	10 - 20 feet																																																														
72	4130 - Aspen	Poletimber Well	5.3	37	81-110	N/A	Indian Summer Sale, 61-063-87-01, completed March 1988.																																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>85</td><td>Pole/Sapling</td><td>5</td><td>37</td></tr><tr><td>White Oak</td><td>5</td><td>Sapling</td><td>3</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td>Sapling/Pole</td><td>4</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	85	Pole/Sapling	5	37	White Oak	5	Sapling	3		Red Maple	10	Sapling/Pole	4																																												
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Bigtooth Aspen	85	Pole/Sapling	5	37																																																																		
White Oak	5	Sapling	3																																																																			
Red Maple	10	Sapling/Pole	4																																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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74	4199 - Other Mixed Upland Deciduous	Poletimber Well	93.9	67	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	15	Pole/Log	8		Red Maple	Low	Variable	Variable
Bigtooth Aspen	35	Pole/Log	6		White Oak	Low	5 - 10 feet	5 - 10 feet
Red Maple	35	Pole/Log	6	67	White Pine	Medium	Variable	Variable
Red Oak	10	Log	14	80				
White Oak	5	Log/Pole	11					

75	4199 - Other Mixed Upland Deciduous	Poletimber Well	10.1	67	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Pole	8	67	Beech	Medium	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	5	Pole	6		Ironwood	High	5 - 10 feet	5 - 10 feet
White Pine	10	Pole/Log/XLog	8					
Red Oak	25	Log/Pole	12					
Red Pine	5	Log/Pole/XLog	14	70				
Beech	5	Pole	8					

76	42220 - Natural Jack Pine	Poletimber Well	17.2	50	Unspecified	N/A	Roller-chopped and scarified in 1975 (FTP C-225).
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	70	Pole	6	50
Red Maple	20	Sapling	3	
Red Pine	5	Log	10	
Red Oak	5	Log	16	

77	42290 - Natural Mixed Pine	Poletimber Well	3.5	60	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	6		Red Maple	Medium	5 - 10 feet	5 - 10 feet
Red Oak	2	Pole/Sap/Log	8					
Red Pine	38	Log/Pole	10					
Jack Pine	50	Pole/Log	8	60				

78	42220 - Natural Jack Pine	Poletimber Well	4.5	57	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	4	Pole/Sapling	6		Jack Pine	Low	5 - 10 feet	5 - 10 feet
Red Oak	2	Pole	6		Red Maple	High	5 - 10 feet	5 - 10 feet
Red Pine	2	Log/Pole	10					
Jack Pine	92	Pole	8	57				



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
86	42220 - Natural Jack Pine	Poletimber Well	4.9	51	Unspecified	N/A	Appears to have been left as a buffer/windbreak around oil well. Poor quality timber.																																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>75</td><td>Pole/Sapling</td><td>6</td><td>51</td></tr><tr><td>Red Pine</td><td>20</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>5</td><td>Pole</td><td>6</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	75	Pole/Sapling	6	51	Red Pine	20	Log/Pole	10		Bigtooth Aspen	5	Pole	6																																				
Canopy Species	% Cover	Size Class	DBH	Age																																																										
Jack Pine	75	Pole/Sapling	6	51																																																										
Red Pine	20	Log/Pole	10																																																											
Bigtooth Aspen	5	Pole	6																																																											
111	330 - Low-Density Trees	None	7.1			No	Scattered trees.																																																							
112	330 - Low-Density Trees	None	5.0			No																																																								
167	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	4.3	58	81-110	N/A	Hodgepodge stand, remnant from adjacent stands.																																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>45</td><td>Pole</td><td>6</td><td>58</td></tr><tr><td>Red Pine</td><td>20</td><td>Pole</td><td>6</td><td></td></tr><tr><td>Red Oak</td><td>20</td><td>Pole/Log</td><td>6</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>15</td><td>Pole</td><td>8</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	45	Pole	6	58	Red Pine	20	Pole	6		Red Oak	20	Pole/Log	6		Bigtooth Aspen	15	Pole	8																															
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Red Oak	20	Pole/Log	6																																																											
Bigtooth Aspen	15	Pole	8																																																											
218	42290 - Natural Mixed Pine	Sawtimber Well	46.4	85	81-110	N/A	Scattered legacy pine and monitoring Wells within stand																																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>35</td><td>Log</td><td>12</td><td>85</td></tr><tr><td>Red Maple</td><td>10</td><td>Pole/Sap/Log</td><td>6</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>10</td><td>Pole</td><td>8</td><td></td></tr><tr><td>Red Oak</td><td>5</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Jack Pine</td><td>10</td><td>Pole/Log</td><td>8</td><td></td></tr><tr><td>White Pine</td><td>30</td><td>Log/XLog</td><td>16</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Bigtooth Aspen</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Tag Alder</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	35	Log	12	85	Red Maple	10	Pole/Sap/Log	6		Bigtooth Aspen	10	Pole	8		Red Oak	5	Log/Pole	10		Jack Pine	10	Pole/Log	8		White Pine	30	Log/XLog	16		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Variable	Bigtooth Aspen	High	10 - 20 feet	10 - 20 feet	Tag Alder	Low	5 - 10 feet	5 - 10 feet	Red Maple	Medium	Variable	Variable
Canopy Species	% Cover	Size Class	DBH	Age																																																										
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Bigtooth Aspen	High	10 - 20 feet	10 - 20 feet																																																											
Tag Alder	Low	5 - 10 feet	5 - 10 feet																																																											
Red Maple	Medium	Variable	Variable																																																											
290	4199 - Other Mixed Upland Deciduous	Sawtimber Well	29.1	90	81-110	N/A	Variable stand. Tends to have more aspen in the north half and more oak in the south. Oak is fair to poor quality. Some mortality. Some red maple in understory is just reaching pole size. Scattered blowdown from August 2015 storm. Contains new MTB trail, NCT, Iceman route, and Winterfest trail. Oak wilt plow line may just barely come into this stand on north end.																																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>30</td><td>Pole</td><td>8</td><td>60</td></tr><tr><td>Red Maple</td><td>10</td><td>Pole</td><td>6</td><td></td></tr><tr><td>Red Oak</td><td>50</td><td>Log/Pole</td><td>10</td><td>90</td></tr><tr><td>White Pine</td><td>10</td><td>Pole</td><td>6</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>>20 feet</td><td>>20 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	30	Pole	8	60	Red Maple	10	Pole	6		Red Oak	50	Log/Pole	10	90	White Pine	10	Pole	6		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	>20 feet	>20 feet	White Pine	Low	>20 feet	>20 feet																		
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Red Maple	Medium	>20 feet	>20 feet																																																											
White Pine	Low	>20 feet	>20 feet																																																											
402	42110 - Planted Red Pine	Sapling Well	2.3	19	Immature	N/A	Abandoned well site and facility although there is still some infrastructure in the ground. Red pine planted in fall of 2006 or 2007.																																																							
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>90</td><td>Sapling</td><td>3</td><td>19</td></tr><tr><td>Black Cherry</td><td>10</td><td>Sapling</td><td>2</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	90	Sapling	3	19	Black Cherry	10	Sapling	2																																									
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Red Pine	90	Sapling	3	19																																																										
Black Cherry	10	Sapling	2																																																											
403	110 - Low Intensity Urban	None	2.5			No	Active oil and gas facility with significant amount of infrastructure.																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
404	42140 - Planted Mixed Pine	Sapling Well	2.2	19	Immature	N/A	Abandoned well site. Planted to mixture of red pine and jack pine as part of rehab.																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>45</td><td>Sapling</td><td>2</td><td></td></tr><tr><td>Jack Pine</td><td>45</td><td>Sapling</td><td>2</td><td>19</td></tr><tr><td>Black Cherry</td><td>5</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Red Oak</td><td>5</td><td>Sapling</td><td>1</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	45	Sapling	2		Jack Pine	45	Sapling	2	19	Black Cherry	5	Sapling	1		Red Oak	5	Sapling	1	
Canopy Species	% Cover	Size Class	DBH	Age																												
Red Pine	45	Sapling	2																													
Jack Pine	45	Sapling	2	19																												
Black Cherry	5	Sapling	1																													
Red Oak	5	Sapling	1																													
405	42110 - Planted Red Pine	Sapling Well	1.7	19	Immature	N/A																										
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>5</td><td>Sapling</td><td>3</td><td></td></tr><tr><td>Red Pine</td><td>95</td><td>Sapling</td><td>3</td><td>19</td></tr></table>							Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	5	Sapling	3		Red Pine	95	Sapling	3	19											
Canopy Species	% Cover	Size Class	DBH	Age																												
Jack Pine	5	Sapling	3																													
Red Pine	95	Sapling	3	19																												
406	310 - Herbaceous Openland	None	7.5			Yes																										
407	42110 - Planted Red Pine	Sapling Well	1.4	19	Immature	N/A	Abandoned well site. Planted as rehab project. Plugged 1986.																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>70</td><td>Sapling</td><td>2</td><td>19</td></tr><tr><td>Jack Pine</td><td>30</td><td>Sapling</td><td>2</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	70	Sapling	2	19	Jack Pine	30	Sapling	2											
Canopy Species	% Cover	Size Class	DBH	Age																												
Red Pine	70	Sapling	2	19																												
Jack Pine	30	Sapling	2																													
409	310 - Herbaceous Openland	None	3.4			No																										
410	310 - Herbaceous Openland	None	3.3			No	Abandoned well site. Plugged 2005. Updated stand data to not "managed oil/gas". CMS is no longer responsible for any surface restoration.																									
411	710 - Sand, Soil	None	0.9																													
412	310 - Herbaceous Openland	None	1.4				Oil or gas well. Appears inactive but there is still infrastructure in the ground. State Kalkaska 9-22A. "temporarily abandoned"																									
413	310 - Herbaceous Openland	None	1.1				Active well site. Breitburn temporarily abandoned. State Kalkaska 1-15A.																									
414	310 - Herbaceous Openland	None	1.5			No	Abandoned well site (plugged 1984). Scattered trees with reindeer lichen, bracken fern and grasses.																									
415	3105 - Mixed Upland Herbaceous	None	7.4			No	Pipeline on the edge																									
416	3302 - Low Density Conifer Trees	None	2.8			No	Scattered trees.																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
417	310 - Herbaceous Openland	None	0.5			No	M72 right-of-way.		
701	42250 - Pine, Oak	Sawtimber Well	58.3	67	51-80	N/A	Most of stand treated with Winterfest Oak, sale 61-168-98-01, completed September 1999. Cut marked oak, all aspen and red maple. Variable stand (BA ~30-150). Mostly oak and pine over red maple sprouts (2-8" diameter) and younger white pine. More white pine in canopy at stand edges. Some storm damage from August 2015. Cut March 2019 as part of Trees and Trails, 61-139-17. Left white pine and red pine < 10". Attempt to remove older oak in case it still has ability to sprout and to release white pine understory. Left a corridor of intact canopy along the Iceman Route. May eventually reroute the trail and cut the rest of the oak, or could leave it.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	45	Pole/Log	8	67	Witch Hazel	Low		5 - 10 feet	5 - 10 feet
Red Pine	25	Log/Pole	12		White Pine	Medium		Variable	Variable
Red Oak	30	Log/Pole	10		Red Oak	Low		5 - 10 feet	5 - 10 feet
					Red Maple	Medium		Variable	Variable