Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61118
Entry Year 2028
Acreage: 2,735
County: Kalkaska
Management Area: Kalkaska Sandy Moraines

Stand Examiner: Thomas Peterson III

Legal Description:

T27N R5W Sections 30 and 31; T27N R6W Sections 25, 26 and 36

Identified Planning Goals:

This compartment is part of the Kalkaska Sandy Moraines. Management goals for this MA include balancing the age classes of aspen on suitable sites, thinning northern hardwoods, balancing age classes of red pine and Jack pine, and regenerating the aging swamp hardwood and conifer resource. Management will strive to sustainably produce various timber products, enhance game and non-game wildlife habitat, protect areas of unique character, and provide for forest-based recreational uses. Management challenges include maintaining wildlife openings given the logistical and funding challenges that make prescribed burning increasingly hard to accomplish, regenerating certain species, especially in wet areas, in the context of elevated deer browse levels, increased recreational pressure, and introduced pests and diseases.

Soil and topography:

The compartment is mostly sandy soils including Kalkaska sand, Island Lake sand, Rubicon and Lindquist. There are lesser amounts of mucks or loany soils along the drainages. The central part of the compartment has some moderately hilly terrain.

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

Since the last inventory, the State acquired the Flowing Well property and 120 acres in Section 26 were added to this compartment. The east side of the compartment is adjacent to the Black River Conservation Association, a relatively large ownership which also practives active forest management. There are a couple of small inholdings including a 40-acre parcel with a township gravel pit and a small, seasonal subdivision on Johnson Lake. The rest of the compartment is bounded by a mix of private and state ownership. There is a large natural gas pipeline running along Sunset Trail.

Unique Natural Features:

MNFI has designated part of Section 26 adjacent to the Flowing Well acquisition as a Rich Conifer Swamp natural community.

Archeological, Historical, and Cultural Features:

Several old railroad grades traverse the compartment. Johnson Lake Road now follows part of an old route. There is a record of an archaeological site in Section 25.

Special Management Designations or Considerations:

See next section for comments about natural rivers.

Watershed and Fisheries Considerations:

The North Branch of the Manistee is a designated High Priority Trout Stream. The North Branch and other unnamed tributaries in Section 26 are protected as natural rivers under the Upper Manistee River Natural River Plan.

Wildlife Habitat Considerations:

Much of this compartment falls on a broad, flat outwash plain (LTA 5149) characterized by poorly drained peat and muck soils. Habitat types found on these wet soils include mixed lowland conifers, lowland hardwoods, and lowland brush. The North Branch of the Manistee River and unnamed tributaries to Morrison and Black creeks flow through the compartment and add important riparian components to the area. Part of the Flowing Well and Black Creek deer yards are found here. Care should be taken to maintain the integrity of this winter thermal cover.
Excessively drained sandy soils are found as part of large irregular ice contact ridges (LTA 3211) in the northeast and as part of a pitted outwash plain (LTA5211) in the northwest part of the compartment. The more varied topographic relief and sandy and sandy-loam soils support aspen, pine, and northern hardwood stands. This mix of upland habitat types adjacent to large swamp complexes provides benefits to wildlife by increasing the amount of edge between upland and lowland communities. Edge helps to increase species diversity by offering resources from differing habitat types in close proximity. Maintaining a diversity of age classes among aspen stands will add age and structural diversity while increasing habitat suitability for white-tailed deer, ruffed grouse, woodcock, and a variety of other game and non-game species. Some other wildlife species using this habitat mix include bobcat, black bear, coyote, snowshoe hare, raven, alder flycatcher, Eastern

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milk snake, and wood turtle.
Non-forested upland openings dominated by grasses, forbs, shrubs, and poorly stocked trees are distributed widely across the compartment. Management of these stands will include prescribed burning and mechanical control of bracken fern. The appropriate use of fire in grassland ecosystems kills encroaching hardwood species, prevents or slows the establishment of some invasive plants, and returns nutrients to the soil. Wildlife species benefiting from maintaining openings in this compartment include white-tailed deer, meadow vole, wild turkey, Eastern meadowlark, and garter snake.

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. No active sand/gravel operations are known to occur in the area. There appears to be potential for production of sand within the east half of the compartment on the uplands. The compartment is south and outside of the Silurian reef and Antrim Shale hydrocarbon plays. The operating unit for the Collingwood Excelsior Field, which consists of long horizontal wells transecting the compartment from south to north, covers a portion of the compartment, though the well surface hole falls outside the compartment. This development was completed in 2011-2012, as part of testing of the Collingwood Formation, and while these wells continue to produce some hydrocarbons (primarily natural gas), the formation has not proven to be an economical hydrocarbon play to date, and there has been minimal interest in further development of the Collingwood the past ten years. The mineral rights associated with this unit are held by production. All other State-owned mineral rights in the compartment and the surrounding area were leased in 2023 by Lambda Energy. Lambda's potential interest in the area is not known at this time. There has been no recent well permit activity in the area.

Vehicle Access:

The compartment has relatively good vehicle access. There are three county roads: Sunset Trail (open year-round), Flowing Well Road (open year-round) and Johnson Lake Road (seasonal but plowed to Johnson Lake by residents). In the northeast part of Section 36, there is a poor dirt road which follows an old grade through some very wet stands. This road was not properly constructed for this situation and should be closed until it is needed for timber management and can be properly rebuilt.

Survey Needs:

The northeast corner of the Excelsior Township forty might need to be placed.

Recreational Facilities and Opportunities:

The Kalkaska 50-inch ORV Trail, Kalkaska ORV Route, and Snowmobile Trail #76 run north/south through this compartment. Trail protection specifications should be considered if timber management treatments impact any of these trails. (T.N. 1/26/16)

Fire Protection:

Based on cover types in this compartment, there is little risk of a major wildfire.

Additional Compartment Information:

The following reports from the Inventory are attached:

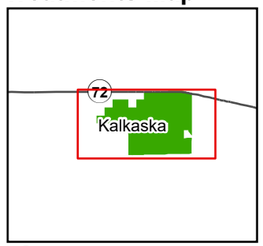
- **Total Acres by Cover Type and Age Class**
- **Cover Type by Harvest Method**
- **Proposed Treatments – No Limiting Factors**
- **Proposed Treatments – With Limiting Factors**
- **Stand Details (Forested and Nonforested)**
- **Dedicated and Proposed Special Conservation Areas**
- **Site Condition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

If you need assistance with this report, please email DNR-Forestry@michigan.gov or call 517-284-5900

Cover Type & Treatments Map



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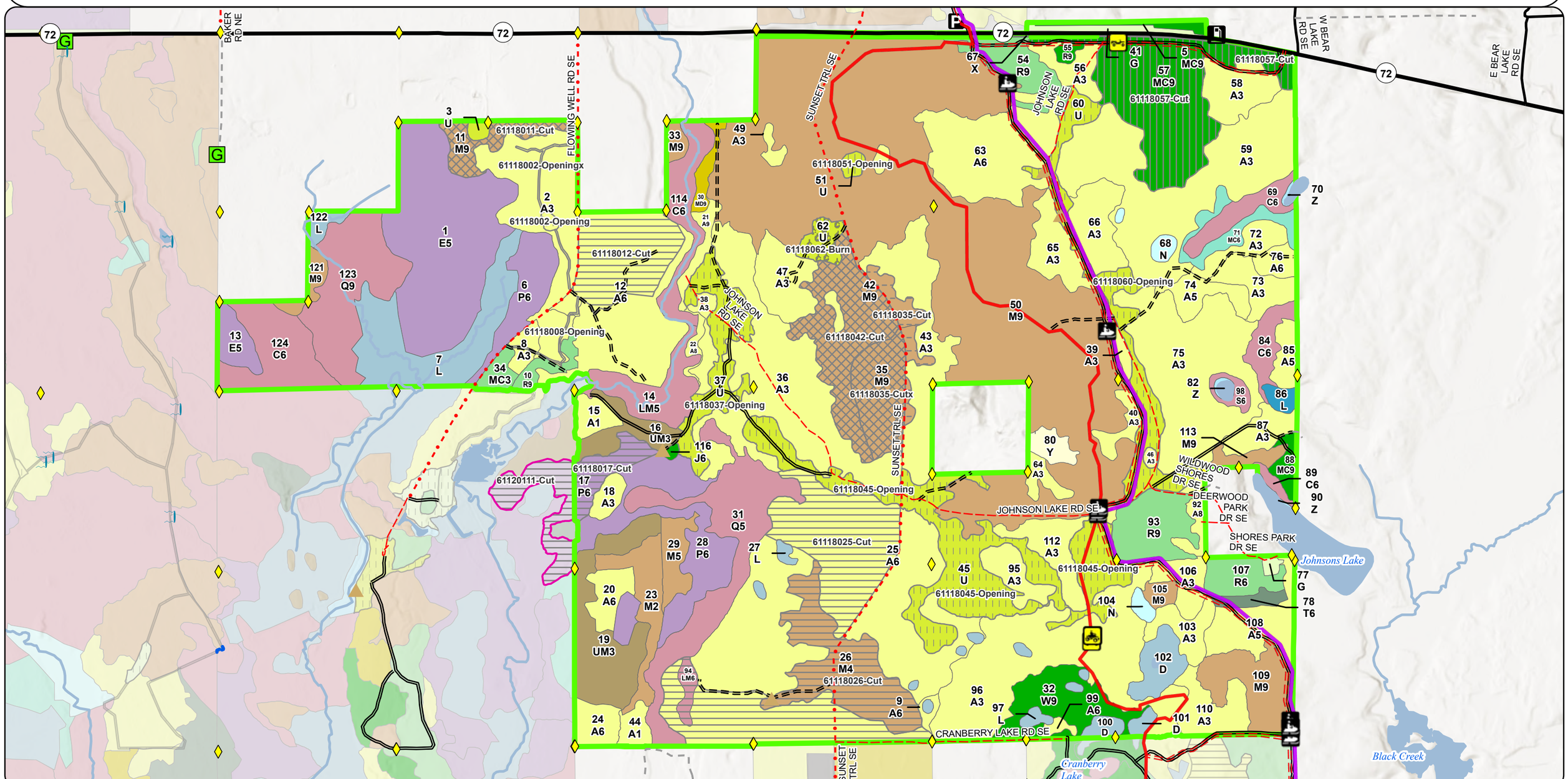
T27N R05W Sec. 30, 31
County: Kalkaska
Unit: Traverse City
Mgmt. Area: Kalkaska Sandy Moraines
YOE: 2028
Acres: 2,735 GIS Calculated
Examiner: Thomas Peterson III
Date Exported: 06/29/2026
Map Phase: Web Post

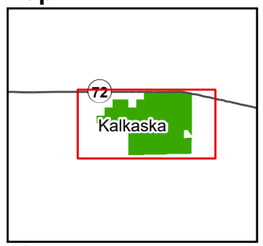
N

0 0.5 1 Miles

- Survey Grade Corners
- Gas Station
- Culvert
- Parking Lot
- Berm
- Gate
- Designated ORV Routes
- Designated ATV 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
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Selection
- Shelterwood
- Overstory Removal
- Prescribed Burn
- Openings Mgmt.
- Clearcut (Outside Compartment)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Decidous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 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
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested Wetland
- 710 - Sand, Soil



Stand Boundary Map



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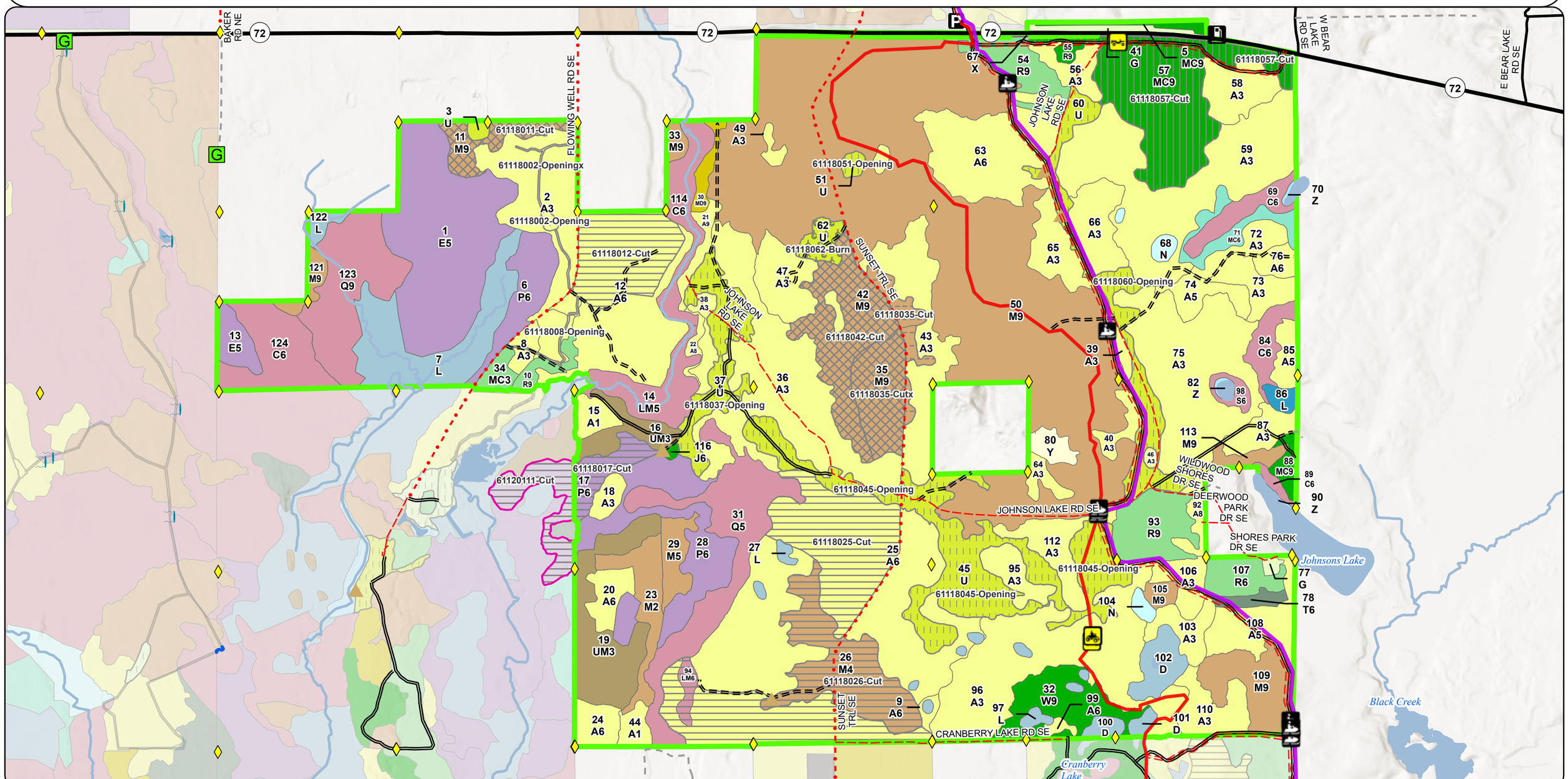
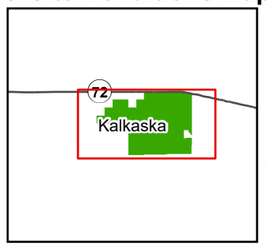


Special Conservation Areas & Site Conditions Map



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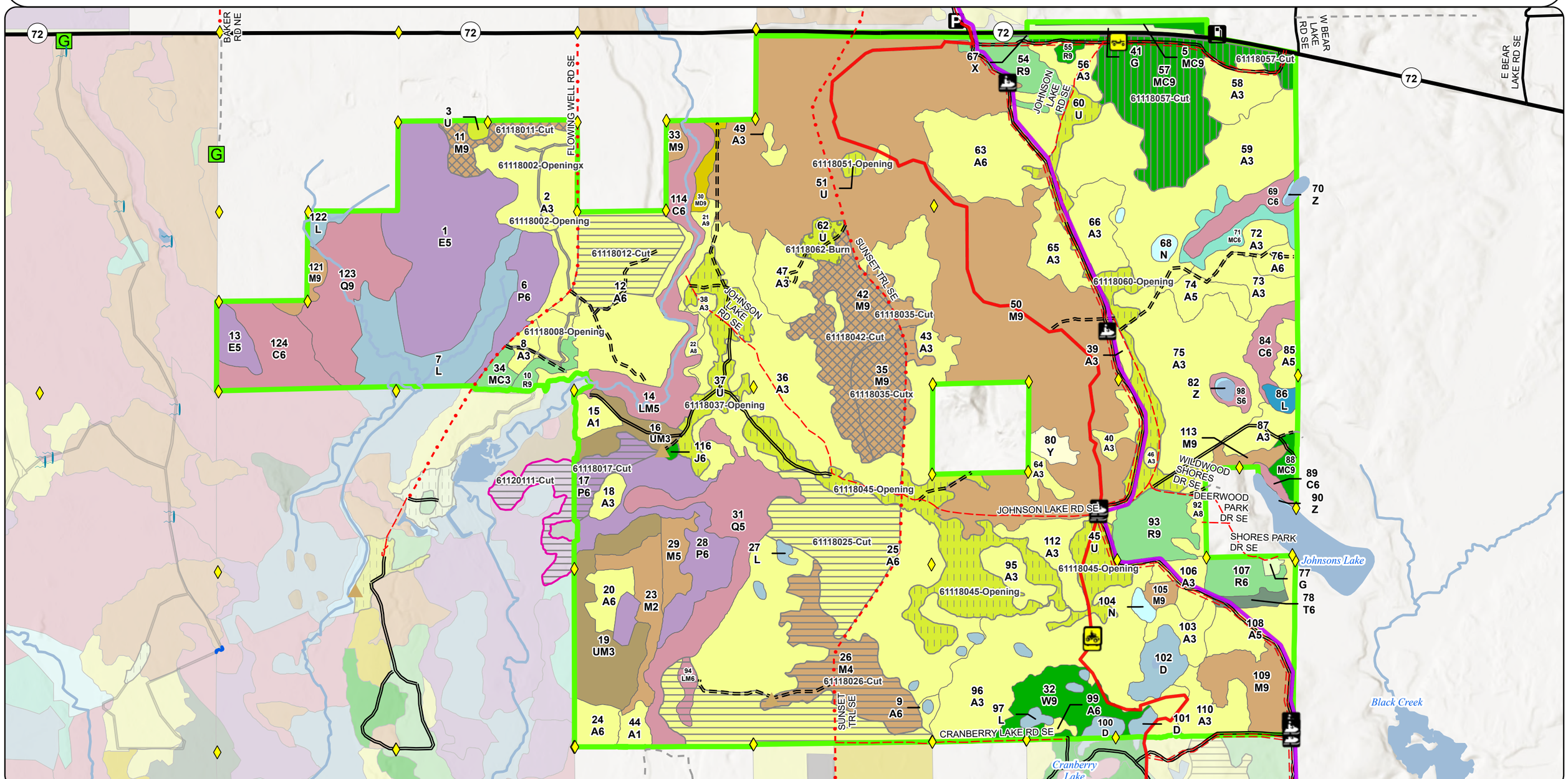

Report 1 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit **Compartment 118** **Year of Entry 2028**

Thomas Peterson III: 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+	Uneven-Aged	Total
Aspen	0	317	299	73	89	244	102	0	9	0	0	0	0	0	0	0	0	0	**1133**
Cedar	0	0	0	0	0	0	0	0	0	0	45	11	24	0	0	0	0	0	**80**
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**7**
Jack Pine	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	**1**
Low-Density Trees	169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**169**
Lowland Aspen/Balsam Poplar	0	0	0	0	49	0	13	21	0	0	0	0	0	0	0	0	0	0	**83**
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	108	0	0	0	0	0	0	0	**108**
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	107	0	0	0	0	0	0	0	**107**
Lowland Mixed Forest	0	0	0	0	0	0	4	0	0	0	0	0	23	0	0	0	0	0	**27**
Lowland Shrub	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**65**
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	**4**
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**6**
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	**6**
Natural Mixed Pines	0	0	0	0	0	0	0	0	87	0	0	0	0	0	0	0	0	0	**87**
Northern Hardwood	0	19	0	0	0	60	0	0	0	35	439	31	0	0	0	0	0	59	**642**
Planted Mixed Pines	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**6**
Red Pine	0	0	0	0	0	13	44	6	2	0	0	0	0	0	0	0	0	0	**65**
Sand, Soil	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**6**
Tamarack	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	**5**
Treed Bog	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**19**
Upland Conifers	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	**12**
Upland Mixed Forest	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**52**
Urban	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**11**
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**5**
White Pine	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	**27**
Total	**288**	**336**	**358**	**73**	**138**	**322**	**175**	**27**	**105**	**66**	**699**	**42**	**47**	**0**	**0**	**0**	**0**	**59**	**2733**

If you need assistance with this report, please email DNR-Forestry@michigan.gov or call 517-284-5900

Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2028

Compartment 118
Total Compartment Acres: 2,735

Acres of Harvest

Commercial Harvest - 824
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	157	0	0	0	0	0	0	0	0	**157**
Lowland Aspen/Balsam Poplar	13	0	0	0	0	0	0	0	0	**13**
Natural Mixed Pines	0	0	0	0	77	0	0	0	0	**77**
Northern Hardwood	49	88	0	0	0	0	11	0	0	**148**
Total	**219**	**88**	**0**	**0**	**77**	**0**	**11**	**0**	**0**	**394**

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	394	0	0	0	8	0	0	0	0	**565**
Next Step	0	0	0	0	206	0	383	0	0	**597**
Total	**394**	**0**	**0**	**0**	**214**	**0**	**383**	**0**	**0**	**1162**

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Proposed Treatments:

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
2	61118002-Opening	1.3	4130 - Aspen	3	16	Immature	Openings Mgmt.	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No

Prescription Specs: Remove exotics as needed by herbiciding, or other methods. Seed in forage crop appropriate for site location and seasonal (i.e. summer vs. winter forage) wildlife uses. May want/need to work around existing beneficial vegetation (i.e. blackberry). Main

Next Step Treatments:

Acceptable Regen:

Other Comment: This habitat project will be funded by a National Wild Turkey Federation and Ruffed Grouse Society grant.

Site Condition:

Proposed Start Date: 10/01/2027

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
2	61118002-Openingx	1.6	4130 - Aspen	3	16	Immature	Openings Mgmt.	Openings Mgmt.	31021 - Cool Season Grass	Previous Inventory	No

Prescription Specs: Work around any beneficial vegetation (raspberry patch, mast bearing shrub) to create a wildlife food plot of appropriate herbaceous species suited to site and soil conditions. Maintain as needed with mowing, native shrub planting, reseeding grasses/forb

Next Step Treatments:

Acceptable Regen:

Other Comment: Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment.

Site Condition:

Proposed Start Date: 10/01/2027

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
8	61118008-Opening	1.1	4130 - Aspen	3	16	Immature	Openings Mgmt.	Openings Mgmt.	31021 - Cool Season Grass	Previous Inventory	No

Prescription Specs: Work around any beneficial vegetation (raspberry patch, mast bearing shrub) to create a wildlife food plot of appropriate herbaceous species suited to site and soil conditions. Maintain as needed with mowing, native shrub planting, reseeding grasses/forb

Next Step Treatments:

Acceptable Regen:

Other Comment: Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment.

Site Condition:

Proposed Start Date: 10/01/2027

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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
11	61118011-Cut	14.8	4116 - Mixed N. Hardwood - Aspen	9	95	141-170	Harvest	Selection	4119 - Mixed Northern Hardwoods	Cutting Record	No

Prescription Specs: Remove 1/3 of basal area across stand. Stand will range from 80 to 100. Open up areas were aspen clones are present to promote aspen regen, these areas a basal area of 0 is acceptable. West end of stand is slightly less stocked do to transition in wetla

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

Acceptable Regen: Any mixture of sugar maple, aspen, black cherry and pine.

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

12	61118012-Cut	41.6	4130 - Aspen	6	55	Unspecified	Harvest	Clearcut	413 - Aspen	Planting Record	No

Prescription Specs: Final Harvest around 1/2 of stand 12. Leave retention along east side of stand as a buffer for North Branch of Manistee River. Retention is already mapped out in MIFI. Follow BMP guidelines for buffer distance. Protect all spruce, white pine and balsam

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

Acceptable Regen: Fully stocked aspen stand with any mix of balsam fire and spruce.

Other Comment: WLD would like to maintain a hunter walking trail within this stand post harvest and neighboring stands. See uploaded documents.

Site Condition:

Proposed Start Date: 10/01/2027

17	61118017-Cut	13.4	6112 - Lowland Aspen	6	55		Harvest	Clearcut	6112 - Lowland Aspen	Planting Record	No

Prescription Specs: Final Harvest Stand. Leave retention in areas to wet to harvest. Acres of harvest might very depending on year set up. Cut winter / frozen ground. Protect any balsam fire and white pine during harvest. Use drumming log spec during harvest.

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

Acceptable Regen: Fully stocked Aspen stand with any component of muscle wood, balsam fire, or white pine.

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

25	61118025-Cut	114.9	4130 - Aspen	6	49	51-80	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Planting Record	No

Prescription Specs: Clearcut with retention. Leave standard area retention in stand. Leave all oak in stand. Protect all spruce, pine and balsam fir under 4 inches during harvest. Push harvest into stand 31 to and cut edges that are operatable. Southern part of stand had

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

Acceptable Regen: Fully stocked aspen stand with any mixture of Balsam Fir, white pine or Spruce.

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
26	61118026-Cut	49.2	4119 - Mixed Northern Hardwoods	4	45	1-50	Harvest	Clearcut	330 - Low-Density Trees	Previous Inventory	No

Prescription Specs: Leave all pine greater then 10 inches in DBH. Leave all cherry greater then 8 inches in DBH. Do not cut any oak within stand regardless of size. Cut all other species down to 2 inches in DBH. Use spec to pull tops back from line for follow burn treatm

Next Step Treatments: Burn, Prescribed Fire; Monitoring, Prescribed Burn

Acceptable Regen: Low density trees

Other Comment: No retention due to habitat creation.

Site Condition:

Proposed Start Date: 10/01/2027

35	61118035-Cut	10.8	4110 - Sugar Maple Association	9	100	111-140	Harvest	Overstory Removal	4139 - Aspen, Mixed Deciduous	Planting Record	No

Prescription Specs: Cut all trees greater then 6 inches at DBH. Protect all trees smaller then 6 inches in DBH. No Retention needed due to small portion of stand being harvested.

Next Step Treatments:

Acceptable Regen: Fully Stocked Aspen Stand with any mixture of Cherry and Maple

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

35	61118035-Cutx	26.5	4110 - Sugar Maple Association	9	100	111-140	Harvest	Selection	411 - Northern Hardwood	Cutting Record	No

Prescription Specs: Mark Stand down to an average basal area of 80. Follow Hardwood marking guidelines.

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

Acceptable Regen: Sugar Maple, basswood, red maple, black cherry, and and mixture of pine. Beech and Ironwood not acceptable species.

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

37	61118037-Opening	28.9	330 - Low-Density Trees	99			Openings Mgmt.	Openings Mgmt.	31022 - Warm Season Grass	Previous Inventory	No

Prescription Specs: Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo

Next Step Treatments: Burn, Opening

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

If you need assistance with this report, please email DNR-Forestry@michigan.gov or call 517-284-5900

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
42	61118042-Cut	46.4	4111 - S.Maple, Hard Mast Association	9	100	111-140	Harvest	Selection	411 - Northern Hardwood	Cutting Record	No

Prescription Specs: Mark Stand down to an average basal area of 80. Follow Hardwood marking guidelines.

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

Acceptable Regen: Sugar Maple, Basswood, Oak, Red Maple, Black cherry and any mixture of pine. Ironwood and beech not acceptable

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

45	61118045-Opening	87.7	3303 - Mixed Low Density Trees	99			Openings Mgmt.	Openings Mgmt.	31022 - Warm Season Grass	Previous Inventory	No

Prescription Specs: Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo

Next Step Treatments: Burn, Opening

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

51	61118051-Opening	2.5	330 - Low-Density Trees	99			Openings Mgmt.	Openings Mgmt.	3205 - Mixed Upland Shrub	Previous Inventory	No

Prescription Specs: Native fruiting shrubs were planted here during the last inventory cycle. Current treatment is to replant and/or maintain native shrubs as needed. Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered ma

Next Step Treatments:

Acceptable Regen:

Other Comment: Consider seeding in some native grasses/forbs, as well.

Site Condition:

Proposed Start Date: 10/01/2027

If you need assistance with this report, please email DNR-Forestry@michigan.gov or call 517-284-5900

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
57	61118057-Cut	76.5	42260 - Natural Pine, Mixed Deciduous	9	76	111-140	Harvest	Shelterwood	4311 - Pine, Aspen Mix	Cutting Record	No

Prescription Specs: Shelter wood harvest with retention. Leave retention along M-72 corridor for visual aspects. Mark stand by leaving a basal area of 30-60 where pine is present. Were aspen clones are present do not mark any trees to be saved. Mark legacy pine in stand to

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

Acceptable Regen: Fully stocked stand of white or red pine, with any component of aspen, red maple and oak.

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

60	61118060-Opening	40.4	330 - Low-Density Trees	99			Openings Mgmt.	Openings Mgmt.	31022 - Warm Season Grass	Previous Inventory	No

Prescription Specs: Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees fo

Next Step Treatments: Burn, Opening

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

62	61118062-Burn	7.6	330 - Low-Density Trees	99			Burn	Prescribed Burn	3105 - Mixed Upland Herbaceous	Previous Inventory	No

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 currents needs of restoration such as reducing woody encroachment or promoting

Next Step Treatments: Openings Mgmt., Grass/Forb Planting

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

If you need assistance with this report, please email DNR-Forestry@michigan.gov or call 517-284-5900

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
111	61120111-Cut	20.1	6112 - Lowland Aspen	6	55	81-110	Harvest	Clearcut	6112 - Lowland Aspen	Planting Record	No

Prescription Specs: Final Harvest Stand. Leave retention in areas to wet to harvest. Acres of harvest might very depending on year set up. Cut winter / frozen ground. Protect any balsam fir and white pine during harvest.

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

Acceptable Regen: aspen, balsam poplar, birch, red maple.

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2027

Total Treatment Acreage Proposed: 585.3

If you need assistance with this report, please email DNR-Forestry@michigan.gov or call 517-284-5900

Report 4 – Site Conditions

Traverse City Mgt. Unit

Thomas Peterson III: Examiner

Compartment: 118

Year of Entry: 2028

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available		Dominant Site Conditions 1A	2G	3B	3J	5E
1036	1020	*0*	16	**Aspen**	12				5
74	3	*0*	72	**Cedar**	17	38	16		
7	7	*0*	0	**Herbaceous Openland**					
1	0	*0*	1	**Jack Pine**					1
169	169	*0*	0	**Low-Density Trees**					
83	62	*0*	21	**Lowland Aspen/Balsam Poplar**		21			
105	0	*0*	105	**Lowland Conifers**		105			
107	0	*0*	107	**Lowland Deciduous**		104	4		
22	4	*0*	17	**Lowland Mixed Forest**	17				
65	65	*0*	0	**Lowland Shrub**					
4	0	*0*	4	**Lowland Spruce/Fir**				4	
6	6	*0*	0	**Marsh**					
2	0	*0*	2	**Mixed Upland Deciduous**	2				
87	87	*0*	0	**Natural Mixed Pines**					
640	639	*0*	1	**Northern Hardwood**	1				
6	6	*0*	0	**Planted Mixed Pines**					
66	66	*0*	0	**Red Pine**					
6	6	*0*	0	**Sand, Soil**					
5	5	*0*	0	**Tamarack**					
19	19	*0*	0	**Treed Bog**					
12	12	*0*	0	**Upland Conifers**					
40	39	*0*	1	**Upland Mixed Forest**	1				
11	11	*0*	0	**Urban**					
5	5	*0*	0	**Water**					
27	27	*0*	0	**White Pine**					
2,605	2,258		347	Total Forested Acres	50	268	19	4	6
	87%		13%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	**Unavailable**	**2G: Too wet (sensitive soils, does not include**	21	Unspecified	Unspecified	Unspecified	Unspecified

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		access issues)					
Comments:							
2	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	168	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	**Unavailable**	**3B: Threatened, endangered, and special concern species**	19	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Part of proposed SCA for MNFI-designated Rich Conifer Swamp.							
5	**Unavailable**	**1A: Federal/State/Local Law**	50	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Natural Rivers buffer for North Branch of the Manistee River (approx 175')							
6	**Unavailable**	**5E: Long-Term Retention**	3	1A: Federal/State/Local Law	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments: Natural Rivers buffer for North Branch of the Manistee River (approx 175'). Long Term retention for stand 12							
10	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

11	**Unavailable**	**3J: Water quality/BMPs (stream, river, or lake)**	4	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Buffer around Slater's Lake.

12	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	57	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified

Comments:
Has unnamed tributaries of Manistee River.

14	**Unavailable**	**5E: Long-Term Retention**	1	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

19	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	13	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

20	**Unavailable**	**5E: Long-Term Retention**	3	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

21	**Unavailable**	**5E: Long-Term Retention**	1	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

22	**Unavailable**	**5E: Long-Term Retention**	2	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

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23	**Unavailable**	**5E: Long-Term Retention**	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	**Unavailable**	**5E: Long-Term Retention**	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	**Unavailable**	**5E: Long-Term Retention**	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	**Unavailable**	**5E: Long-Term Retention**	0	3A: Conservation values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Small vernal pond.							

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

Comments

If you need assistance with this report, please email DNR-Forestry@michigan.gov or call 517-284-5900

Report 7 – Stands

Compartment: 118
Year of Entry: 2028

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	6118 - Lowland Deciduous with Cedar	Poletimber Medium	97.4	90	Unspecified	N/A	2026 - Stand is very wet. Stand has some drains the flow into North Branch of the Manistee River
2	4130 - Aspen	Sapling Well	54.8	16	Immature	N/A	2009 - Stand was final harvested under timber sale contract Flowing Well Aspen, 61-063-08-01.
3	330 - Low-Density Trees	None	2.0			No	2026 - Few scattered trees in stand.
5	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	4.6	76	141-170	N/A	2026 - Narrow stand North of M-72.
6	6112 - Lowland Aspen	Poletimber Well	21.1	67	Unspecified	N/A	2026 - Lowland Aspen stand to wet to harvest. If water was buffered most of stand would be with in buffer.
7	6229 - Mixed Lowland Shrub	None	48.5			No	2026 - Contains an unnamed, perennial tributary of the Manistee River. Some beaver activity. Some dead conifer stumps. Tag alder. Scattered birch, BAM, spruce, and fir seedlings.

Stand 1 — Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	25	Pole	6	
Northern White Cedar	30	Log/Pole	10	90
Red Maple	20	Log/Pole	10	
Paper Birch	15	Pole/Log	8	
Balsam Fir	10	Pole	6	

Stand 1 — Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Variable
Red Maple	Medium	Variable	Variable
Black Spruce	Low	5 - 10 feet	5 - 10 feet
Tag Alder	Low	5 - 10 feet	5 - 10 feet

Stand 2 — Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	75	Sapling	2	16
Red Maple	7	Sapling	2	
Balsam Fir	5	Sapling	2	
Black Cherry	5	Sapling	1	
Red Oak	3	Sapling	1	
White Pine	5	Sapling	2	

Stand 5 — Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	50	Log/Pole	10	76
Quaking Aspen	30	Pole/Log	8	
Red Pine	15	Log/Pole	10	
Red Oak	3	Log/Pole	10	
Red Maple	2	Log/Pole	10	

Stand 5 — Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	5 - 10 feet
Beech	Trace	5 - 10 feet	5 - 10 feet
White Pine	Low	Variable	Variable
Oak (spp.)	Trace	10 - 20 feet	10 - 20 feet
Quaking Aspen	Low	5 - 10 feet	5 - 10 feet

Stand 6 — Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	36	Log/Pole	10	67
Red Maple	15	Pole	6	
Paper Birch	15	Pole	8	
Quaking Aspen	20	Pole/Log	8	
White Pine	2	Log	12	
Black Cherry	5	Pole	5	
Slippery Elm	2	Pole	6	
Northern White Cedar	5	Log/Pole	10	

Stand 6 — Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	Low	>20 feet	>20 feet
Tag Alder	Low	5 - 10 feet	5 - 10 feet
Red Maple	High	>20 feet	>20 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	4130 - Aspen	Sapling Well	7.5	16	Immature	N/A	2026 - Stand if fully stocked stand of aspen.2010 - Stand was final harvested under timber sale contract Flowing Well Red-Jack, sale 61-078-08-01.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	70	Sapling	1	16
Red Maple	15	Sapling	1	
Black Cherry	5	Sapling	1	
Jack Pine	10	Sapling	1	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
9	4130 - Aspen	Poletimber Well	1.9	49	51-80	N/A	Stand contains scattered areas that are seasonally flooded, including drain that crosses Sunset Trail. More white pine east of Sunset Trail. Less dense at south end, especially east of Sunset Trail. More hardwoods in canopy there. Gradual transition into adjacent opening. Pipeline runs along west side of Sunset Trail. Varies between A6 & A8. Heavy RM understory up to 2" dbh.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Pole/Log	8	
Red Maple	10	Log/Pole	10	
Bigtooth Aspen	45	Pole/Log/Sap	8	49
Quaking Aspen	30	Pole/Log/Sap	8	
Black Cherry	10	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Black Cherry	Low	5 - 10 feet	5 - 10 feet
Oak (spp.)	Low	5 - 10 feet	5 - 10 feet
Red Maple	High	Variable	Variable
White Pine	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
10	42110 - Planted Red Pine	Sawtimber Well	6.2	69	111-140	N/A	2010 - Stand was thinned under timber sale contract Flowing Well Red-Jack, 61-078-08-01.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	96	Log/Pole	12	69
Black Cherry	2	Pole	8	
Quaking Aspen	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Medium	10 - 20 feet	10 - 20 feet
Beech	Low	5 - 10 feet	5 - 10 feet
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
11	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	14.8	95	141-170	N/A	2026 - Stand is sitting an average basal area of 150.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	50	Log/Pole/XLog	14	95
Black Cherry	5	Pole/Log	8	
Bigtooth Aspen	20	Log/Pole	12	
Red Oak	5	Log	12	
Beech	5	Log/Pole	10	
Balsam Fir	5	Pole	6	
Red Maple	10	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	5 - 10 feet	5 - 10 feet
Beech	Low	5 - 10 feet	5 - 10 feet
Ironwood	Low	Variable	Variable
Sugar Maple	Low	>20 feet	>20 feet
Balsam Fir	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
12	4130 - Aspen	Poletimber Well	83.9	55	Unspecified	N/A	2026 Stand has a decent amoubt of balsam in underatory

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	38	Pole/Log	8	55
Balsam Fir	10	Pole/Sapling	6	
Black Cherry	5	Pole	7	
Red Maple	10	Pole/Sapling	5	
Sugar Maple	2	Pole/Sapling	6	
Bigtooth Aspen	35	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Variable
Sugar Maple	Trace	5 - 10 feet	5 - 10 feet
Ironwood	Low	Variable	Variable
Balsam Fir	Low	Variable	Variable
White Pine	Low	10 - 20 feet	10 - 20 feet

If you need assistance with this report, please email DNR-Forestry@michigan.gov or call 517-284-5900

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	9.8	90	Unspecified	N/A	2026 - Surrounding stands are to wet. This stand cannot be accessed.
14	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	22.7	110	Unspecified	N/A	2026 - North Branch of Manistee River runs through stand. Stand is transition stand to high ground.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	30	Pole	7	110
Black Ash	10	Pole	7	
Hemlock	5	Pole	8	
Yellow Birch	5	Pole	6	
Paper Birch	15	Pole	7	
Red Maple	15	Pole	8	
Quaking Aspen	10	Pole	8	
Balsam Fir	10	Pole/Sapling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
Red Maple	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
15	4139 - Aspen, Mixed Deciduous	Sapling Poor	7.1	6	Immature	N/A	2026 - Stand has a few aspen clones in it. Stand has some pine starting to come up through snow. Hardwood species have been browsed hard by deer. Stand if currently poorly stocked.2020 - Stand was final harvested under timber sale contract Underdog Mix 61-158-18

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Sapling	1	6
Quaking Aspen	50	Sapling	1	6
Jack Pine	10	Sapling	1	
Red Oak	15	Sapling	1	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	4311 - Pine, Aspen Mix	Sapling Well	13.3	14	Immature	N/A	2026 - Stand was never site prep sprayed. Some areas in stand are still red pine dominate. Other parts of stand the red pine has died off and is mostly aspen. 2012 - Stand Planted to Red Pine FTP #C62-7932011 - Stand was trenched 2010 - Stand was final harvest under timber sale contract Flowing Well Red-Jack, 61-078-08-01.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	
Red Oak	5	Sapling	1	
Bigtooth Aspen	30	Sapling	1	16
Jack Pine	15	Sapling	1	
Red Pine	40	Sapling	1	14

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
17	6112 - Lowland Aspen	Poletimber Well	13.4	55		N/A	2026 - Stand is holding water during inventory. Might be able to harvest Northeast portion of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Pole	6	
Quaking Aspen	95	Pole/Log/Sap	9	55

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace	5 - 10 feet	5 - 10 feet
Red Oak	Low	>20 feet	>20 feet
Red Osier Dogwood	Low	5 - 10 feet	5 - 10 feet
Musclewood/Hornbeam	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir	Low	5 - 10 feet	5 - 10 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
18	4133 - Aspen, Mixed Pine	Sapling Well	5.4	16	Immature	N/A	2026 - Stand is failed red pine plantation. A few spots were red pine is dominant species. Overall aspen has grew over the pine. Could swap back and forth over time depending what pine does.2012 - Stand Planted to Red Pine FTP #C62-7932011 - Stand was trenched 2010 - Stand was final harvest under timber sale contract Flowing Well Red-Jack, 61-078-08-01.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	40	Sapling	1	16
Jack Pine	10	Sapling	1	
Red Pine	10	Sapling	1	
Black Cherry	20	Sapling	1	
Red Maple	20	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
19	4311 - Pine, Aspen Mix	Sapling Well	39.2	15	Immature	N/A	2026 - Stand has scattered large cherry left overtop of red pine. Planted red pine is doing good were there is no competition. Stand is a failed red pine plantation overall. 2012 - Stand Planted to Red Pine FTP #C62-7932011 - Stand was trenched 2010 - Stand was final harvest under timber sale contract Flowing Well Red-Jack, 61-078-08-01.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	
Black Cherry	20	Log/Pole	12	
Bigtooth Aspen	20	Sapling	1	
Jack Pine	15	Sapling	1	
Red Pine	35	Sapling	1	15

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Medium	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
20	4130 - Aspen	Poletimber Well	9.9	30	Immature	N/A	2026 - Stand was originally planted with stand 19. This section completely failed. Stand has the Black Cherry Overstory over it, with fully stocked aspen stand underneath it.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	65	Pole/Sapling	5	30
Black Cherry	10	Log/Pole/XLog	14	
Red Oak	7	Sapling	2	
Jack Pine	3	Sapling/Pole	4	
Red Maple	15	Pole/Sapling	5	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
21	4130 - Aspen	Sawtimber Well	6.2	70	Unspecified	N/A	Transition ground to creek. Large, old aspen. Stocking is variable.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	70	Log/XLog	15	70
Red Maple	15	Log/Pole	12	
Sugar Maple	10	Log/Pole	12	
Paper Birch	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Variable
White Pine	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
22	4130 - Aspen	Sawtimber Medium	2.7	71	Unspecified	N/A	Overmature aspen, starting to deteriorate. Retention pocket

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	85	Log/Pole	12	71
Red Maple	10	Log/Pole	12	
Sugar Maple	5	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	5 - 10 feet
Oak (spp.)	Trace	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Black Cherry	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen	Low	5 - 10 feet	5 - 10 feet
Red Maple	Medium	5 - 10 feet	5 - 10 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
23	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	19.4	6	Immature	N/A	2026 - Stand is moderately stalked at this time. Pine tops sticking up through snow. Stand should continue filling over next 10 years.2020 - Stand was final harvested under timber sale contract Underdog Mix 61-158-18

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Sapling	1	6
Black Cherry	25	Sapling	1	
Bigtooth Aspen	20	Sapling	1	
Beech	5	Sapling	1	
Red Pine	5	Sapling	2	
Red Oak	15	Sapling	1	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
24	4130 - Aspen	Poletimber Well	9.7	38	51-80	N/A	2026 - North end of stand is more upland, south end of stand turns into more lowland.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	2	Pole	6	
White Pine	2	Log/Pole	10	
Black Cherry	10	Pole/Sapling	6	
Balsam Poplar	6	Pole	8	
Quaking Aspen	80	Pole/Sapling	6	38

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	10 - 20 feet	10 - 20 feet
Tag Alder	Low	5 - 10 feet	5 - 10 feet
Elderberry	Low	5 - 10 feet	5 - 10 feet
Black Cherry	Medium	5 - 10 feet	5 - 10 feet
Blackberry/Raspberry	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
25	4130 - Aspen	Poletimber Well	218.7	49	51-80	N/A	2026 - Stand is fully stocked. Cut 1/2 this YOE and 1/2 next YOE to break up aspen age in area.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Pole/Log	8	
Red Maple	10	Log/Pole	10	
Bigtooth Aspen	45	Pole/Log	9	49
Quaking Aspen	30	Pole/Log	9	
Black Cherry	10	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Variable
Black Cherry	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Red Maple	High	Variable	Variable
Red Oak	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
26	4119 - Mixed Northern Hardwoods	Poletimber Poor	49.2	45	1-50	N/A	2026 - Parts of stand are more stocked then other. Still a few openings. 02/06/26 WLD - This stand was burned for opening maintenance in May of 2008. FRD is going to remove some of the timber this entry period and then afterwards WLD will maintain as an upland shrub stand. Visited stand on Feb. 4, 2026. Keep all the oak and most conifers. Do not cut any shrubs present. Observed willow, juneberry (?). Some honeysuckle as well. May need to confine aspen regrowth to islands within the larger U-type. In the past this stand's ground cover was dominated by bracken. WLD will need to address this post timber activities.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	15	Pole/Sapling	6	
Red Maple	5	Pole/Sapling	7	
White Pine	10	Pole	8	
Black Cherry	70	Pole	8	45

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	< 5 feet	< 5 feet
Red Maple	Low	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
27	6229 - Mixed Lowland Shrub	None	2.5			No	Group of small, seasonally flooded areas. Lighter aspen canopy with tag alder and red osier dogwood underneath.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
28	6112 - Lowland Aspen	Poletimber Well	48.7	38		N/A	2026 - Stand has transitioned to pole size stand this YOE. Edges with some higher ground do have some oak and balsam fir seeded in.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log/XLog	16	
Red Maple	5	Sapling	2	
Quaking Aspen	90	Pole/Sapling	5	38

Sub-Canopy Species	Density	Avg. Height	Size
Red Osier Dogwood	Low	Variable	Variable
Balsam Fir	Low	Variable	Variable
Red Oak	Low	Variable	Variable

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
29	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	11.0	45	1-50	N/A	2026 - Stand has some open areas within stand. Fully stocked in other areas. Lot of saplings seeding in.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	35	Pole/Sap/Log	8	45
Black Cherry	50	Pole/Sapling	6	45
Red Maple	15	Pole/Sap/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable
Red Oak	Low	>20 feet	>20 feet
White Pine	Trace	10 - 20 feet	10 - 20 feet
Red Pine	Trace	10 - 20 feet	10 - 20 feet
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
30	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	5.6	78	111-140	N/A	Poor to medium red maple, very clumpy. Lots of fir filling in. Stocking is patchy. Transition ground. Mix of fir, red maple and quaking aspen.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	35	Pole/Log	9	
Red Maple	45	Log/Pole	10	78
Balsam Fir	20	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	High	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
31	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	59.7	96	Unspecified	N/A	Variable stand. Minor upland areas mostly edges or south end. Some areas are more deciduous. Some areas are mostly flooded with tag alder canopy.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	20	Pole	6	
Northern White Cedar	30	Pole/Log	8	96
Paper Birch	10	Pole/Log	8	
Red Maple	15	Log/Pole	10	
Quaking Aspen	15	Pole/Log	8	
Black Spruce	10	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	5 - 10 feet
Red Maple	Low	Variable	Variable
Balsam Fir	Low	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
32	42200 - Natural White Pine	Sawtimber Well	27.4	87	111-140	N/A	2011 - Stand had red maple and aspen removed along with marked pine under timber sale contact Cranberry Lake Aspen, 61-051-08-01.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	75	Log/Pole/XLog	12	87
Red Pine	10	Log/XLog/Pole	14	
Quaking Aspen	5	Pole/Log	8	
Red Maple	5	Log/Pole	10	
Black Cherry	3	Log/Pole	10	
Paper Birch	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Low	10 - 20 feet	10 - 20 feet
Red Maple	High	Variable	Variable
White Pine	Low	>20 feet	>20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
33	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.6	85	81-110	N/A	2026 - Cannot harvest through state land.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	70	Pole/Log	9	85
Black Cherry	10	Pole	8	
Sugar Maple	10	Pole	8	
Balsam Fir	10	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Variable

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
34	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	5.5	16	Immature	N/A	2012 - Stand Planted to Red Pine FTP #C62-7932011 - Stand was trenched 2010 - Stand was final harvest under timber sale contract Flowing Well Red-Jack, 61-078-08-01.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	25	Sapling	1	16
Jack Pine	40	Sapling	1	16
Black Cherry	20	Sapling	1	
Quaking Aspen	15	Sapling	1	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
35	4110 - Sugar Maple Association	Sawtimber Well	31.0	100	111-140	N/A	2026 - Stand has rolling topography. Stand currently has an average basal area 114 at this time. 2000 - Stand was thinned under Seventy-Two Sunset sale, 61-158-98-01

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	5	Pole/Log	8	
Beech	10	Pole/Log	9	
Basswood	20	Log/Pole	14	
Sugar Maple	65	Log/Pole	15	100

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Variable
Black Cherry	Low	Variable	Variable
Red Oak	Trace	Variable	Variable
Ironwood	High	Variable	Variable
Beech	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
36	4130 - Aspen	Sapling Well	89.5	6	Immature	N/A	2026 - Stand is fully stocked aspen stand. Stand passed its re-inventory monitoring treatment. 2020 - Stand was final harvested under timber sale contract Underdog Mix 61-158-18.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	2	Pole	6	
Red Maple	10	Sapling/Pole	4	
Sugar Maple	5	Sapling/Pole	2	
Black Cherry	5	Sapling/Pole	2	
Basswood	3	Sapling/Pole	4	
Quaking Aspen	30	Sapling	1	
Bigtooth Aspen	45	Sapling	1	6

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
37	330 - Low-Density Trees	None	28.9			Yes	2026 - Stand has scattered cherry in it along with a few pine. Stand also has some caged off trees planted by wildlife.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
38	4130 - Aspen	Sapling Well	6.9	6	Immature	N/A	2026 - fully stocked stand aspen wiyh large seed tree sugar mapkes lefy

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	85	Sapling	1	6
Red Maple	10	Sapling	1	
Sugar Maple	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Oak (spp.)	Trace	5 - 10 feet	5 - 10 feet
Black Cherry	Medium	5 - 10 feet	5 - 10 feet
White Pine	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	5 - 10 feet	5 - 10 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
39	4130 - Aspen	Sapling Well	3.2	15	Immature	N/A	2010 - Stand was final harvested under timber sale contract Johnson Lake Road Aspen, 61-050-08-01.
40	4130 - Aspen	Sapling Well	8.3	26	Immature	N/A	2026 - Stand should transition into pole stand next YOE.1999 - Stand was final harvested under timber sale contract Target Aspen, 61-031-99-01
41	310 - Herbaceous Openland	None	5.0			No	2026 - M72 and powerline right-of-way.
42	4111 - S.Maple, Hard Mast Association	Sawtimber Well	52.8	100	111-140	N/A	2026 - Rolling topography throughout stand. Stand has an average basal area 134 at this time. Stand has a lot of clumpy trees in it.
43	4139 - Aspen, Mixed Deciduous	Sapling Well	43.2	16	Immature	N/A	2009 - Stand was final harvested under timber sale contract -Sunset Trail Aspen, 61-042-08-01.

39

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Sapling	1	
Bigtooth Aspen	40	Sapling	1	15
Red Oak	7	Sapling/Pole	3	
Red Maple	10	Sapling	1	
Quaking Aspen	33	Sapling	1	15

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Low	5 - 10 feet	5 - 10 feet

40

Canopy Species	% Cover	Size Class	DBH	Age
White Ash	10	Sapling/Pole	4	
Bigtooth Aspen	90	Sapling	4	26

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Low	5 - 10 feet	5 - 10 feet
Sugar Maple	Medium	10 - 20 feet	10 - 20 feet

42

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	5	Log/Pole	15	
Beech	10	Pole/Log	7	
Bigtooth Aspen	2	Log/Pole	14	
Basswood	33	Log/Pole	15	
Sugar Maple	45	Log/Pole	14	100
Red Maple	5	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	High	Variable	Variable
Beech	High	Variable	Variable
Sugar Maple	Low	Variable	Variable
Black Cherry	Low	Variable	Variable

43

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	50	Sapling	2	16
Sugar Maple	20	Sapling	1	
Red Oak	10	Sapling	1	
Red Maple	10	Sapling	1	
Ironwood	5	Sapling	1	
White Ash	5	Sapling	1	

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
44	4136 - Aspen, Mixed Conifer	Sapling Poor	5.9	5	Immature	N/A	2026 - Part of stand did no regenerate well. Some scattered aspens clones, with some spruce and pine sticking through snow. Hardwood species that were harvested have been hammered by deer browse.
45	3303 - Mixed Low Density Trees	None	87.7			Yes	2026 - Scattered has scattered Cherry and a few aspen clones within it. Stand had a couple larger apple trees. Stand had trees fenced off that were planted by wildlife.
46	4130 - Aspen	Sapling Well	1.2	15	Immature	N/A	2010 - Stand was final harvested under timber sale contract Johnson Lake Road Aspen, 61-050-08-01.
47	4130 - Aspen	Sapling Well	19.7	17	Immature	N/A	2009 - Stand was final harvested under timber sale contract -Sunset Trail Aspen, 61-042-08-01.
49	4130 - Aspen	Sapling Well	2.7	26	Immature	N/A	2026 - Fully stocked aspen stand.1999 - Stand was final harvested under timber sale contract Compartment 18 Aspen, 62-004-98-01.
50	4110 - Sugar Maple Association	Sawtimber Well	418.2	90	51-80	N/A	2026 - Stand is currently sitting at an average basal area of 73.3 at this time. Most of stands understory is stocked with beech and ironwood at this time. A few spots with some aspen and very little sugar maple seedlings.2021 - Stand was thinned under timber sale contract Fern Gully Hardwoods, 61-130-18.

44

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Sapling	1	5
Jack Pine	5	Sapling	1	
White Pine	5	Sapling	1	
Black Spruce	5	Sapling	1	
Balsam Fir	5	Sapling	1	
Red Oak	5	Sapling	1	
Red Maple	25	Sapling	1	

46

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Sapling	1	
Bigtooth Aspen	40	Sapling	1	15
Red Oak	7	Sapling/Pole	3	
Red Maple	10	Sapling	1	
Quaking Aspen	33	Sapling	1	15

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Low	5 - 10 feet	5 - 10 feet

47

Canopy Species	% Cover	Size Class	DBH	Age
Beech	5	Sapling	1	17
Red Maple	15	Sapling	2	
Bigtooth Aspen	80	Sapling	2	17

49

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	2	
Black Cherry	5	Sapling	1	
Beech	5	Sapling	1	
Bigtooth Aspen	80	Sapling	4	26

50

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	25	Log/Pole	12	
Beech	3	Log/Pole	10	
Sugar Maple	62	Log/Pole	12	90
Red Maple	5	Pole	8	
Red Oak	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	High	Variable	Variable
Ironwood	High	Variable	Variable
Bigtooth Aspen	Low	Variable	Variable
Sugar Maple	Low	Variable	Variable

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
51	330 - Low-Density Trees	None	2.5			No	2026 - Opening with scattered trees
54	42110 - Planted Red Pine	Sawtimber Well	19.5	56	111-140	N/A	2026 - Stand is currently sitting at an average basal area of 122.5 at this time. Stand has a fully stocked understory throughout stand. With beech being the dominant species at this time.2019 - Stand was thinned under timber sale contract Fern Gully Hardwoods 61-130-18.2011- Stand was third row thinned under timber sale contract 72 & Johnson Lake Red, 61-049-08-01.
55	42210 - Natural Red Pine	Sawtimber Well	2.1	71	51-80	N/A	Area of heavy residual from M-72 Breakup Sale, 61-014-97-01, cut spring 1997. Clearcut except oak and red pine. Now two-aged with 5-6 stick red pine with an even mix of logs and poles and A3 pockets. Denser red pine in the west; more scattered in the east.
56	4130 - Aspen	Sapling Well	10.6	29	Immature	N/A	2026 - Some pole size aspen in stand. Still a sapling stand at this time.1997 - Stand was final harvested under timber sale contract M-72 Breakup Sale, 61-014-97-01.
57	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	76.5	76	111-140	N/A	2026 - Stand is currently sitting at an average basal area of 133.3 at this time. Stand has some nice aspen clones that run throughout it. Stand has some bigger super canopy red pine and white pine in stand as well.
58	4130 - Aspen	Sapling Well	18.3	29	Immature	N/A	2026 - Some pole size aspen in stand. Still a sapling stand at this time.1997 - Stand was final harvested under timber sale contract M-72 Breakup Sale, 61-014-97-01.

54

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	95	Log/Pole	12	56
Black Cherry	3	Pole/Log	9	
Quaking Aspen	2	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	High	5 - 10 feet	5 - 10 feet
Quaking Aspen	Low	5 - 10 feet	5 - 10 feet
Sugar Maple	Low	5 - 10 feet	5 - 10 feet
Red Oak	Low	5 - 10 feet	5 - 10 feet
Red Maple	Medium	5 - 10 feet	5 - 10 feet

55

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	100	Log/XLog	14	71

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	High	Variable	Variable
Red Pine	Trace	Variable	Variable
White Pine	Low	10 - 20 feet	10 - 20 feet

56

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	80	Sapling	1	29
Red Oak	10	Sapling	2	
Red Pine	10	Log/Pole	11	

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

57

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	45	Log/Pole/XLog	14	76
Bigtooth Aspen	30	Log/Pole	13	
Red Pine	15	Log/Pole/XLog	14	
Red Oak	3	Log/Pole/XLog	14	
Red Maple	7	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Medium	5 - 10 feet	5 - 10 feet
White Pine	Medium	Variable	Variable
Red Oak	Low	Variable	Variable
Red Maple	Low	5 - 10 feet	5 - 10 feet
Beech	Low	5 - 10 feet	5 - 10 feet

58

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	78	Sapling	4	29
White Pine	10	Sapling	4	
Red Oak	10	Log	14	
Red Pine	2	Log	12	

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
59	4130 - Aspen	Sapling Well	106.3	15	Immature	N/A	2010 - Stand was final harvested under timber sale contract Johnson Lake Road Aspen, 61-050-08-01.
60	330 - Low-Density Trees	None	40.4			No	Narrow opening with ORV route and snow trail. Scattered cherry, oak, and aspen. Power line runs along east side.
62	330 - Low-Density Trees	None	7.6			Yes	2026 - Scattered White Pine and Black Cherry Trees Scattered throughout stand.
63	4130 - Aspen	Poletimber Well	42.1	36	51-80	N/A	2026 - Stand transitioned to pole size stand this YOE. 1990 Stand was Clearcut First Snow, 61-060-87-01.
64	4130 - Aspen	Sapling Well	5.3	16	Immature	N/A	Part of Gravel Pit Hardwoods, 61-086-08-01, clearcut except oak, summer 2009.
65	4130 - Aspen	Sapling Well	16.2	37	51-80	N/A	2026 - Stand transitioned to pole size stand this YOE.1989 - Stand was final harvested under Red Snow Sale, 61-003-88.
66	4130 - Aspen	Sapling Well	18.4	4	Immature	N/A	2026 - There are some hardwood trees scattered throughout stand. Stand is fully stocked aspen stand at this time.2022 - Stand was final harvested under timber sale contract - Hansel and Kettle Mix 61-161-18

59

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Sapling	1	
Bigtooth Aspen	40	Sapling	1	15
Red Oak	7	Sapling/Pole	3	
Red Maple	10	Sapling	1	
Quaking Aspen	33	Sapling	1	15

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Low	5 - 10 feet	5 - 10 feet

63

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	70	Pole/Sapling	6	36
Quaking Aspen	30	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	Variable	Variable
Ironwood	Low	Variable	Variable
Sugar Maple	Medium	Variable	Variable

64

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	7	Sapling	1	
White Ash	3	Sapling	1	
Ironwood	10	Sapling	1	
Bigtooth Aspen	80	Sapling	1	16

65

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Sapling	6	
Red Oak	10	Pole/Sapling	6	
Black Cherry	5	Pole/Sapling	6	
Quaking Aspen	75	Pole/Sapling	6	37

66

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log/Pole	12	
Red Oak	5	Sapling	2	
Sugar Maple	10	Sapling	3	19
Bigtooth Aspen	60	Sapling	1	4
Red Maple	10	Sapling	3	
Black Cherry	10	Sapling	3	

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
67	122 - Road/Parking Lot	None	11.2			No	2026 - Highway M -72
68	623 - Emergent Wetland	None	3.4			No	2026 - Small Kettle hole. Stand was buffered when stand 59 was final harvested.
69	6120 - Lowland Cedar	Poletimber Well	12.5	90	Unspecified	N/A	2026 - Larger white pine over smaller cedar.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	70	Pole	7	90
Black Spruce	10	Pole	7	
White Pine	10	Log/Pole	10	
Balsam Fir	10	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable
Tag Alder	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
70	500 - Water	None	1.2			No	2026 - Water
71	429 - Mixed Upland Conifers	Poletimber Well	12.1	56	81-110	N/A	2026 - Transition ground from cedar swamp up to aspen stands.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	40	Log/Pole	10	56
Black Spruce	20	Pole	8	
Balsam Fir	15	Pole	7	
Red Maple	10	Pole/Log	9	
Quaking Aspen	15	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
72	4130 - Aspen	Sapling Well	9.4	26	Immature	N/A	2026 - Stand is full stocked sapling stand.1999 - Stand was final harvested under timber sale contract Compartment 18 Aspen, 62-004-98-01.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	90	Sapling	4	26
Red Oak	5	Sapling	4	
Balsam Fir	5	Sapling	2	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
73	4139 - Aspen, Mixed Deciduous	Sapling Well	13.3	15	Immature	N/A	2026 - Fully Stocked aspen stand.2008 - Stand was final harvested under timber sale contract Johnson Lake Road Aspen, 61-050-08-01.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Sapling	2	15
Red Maple	30	Sapling	2	
Black Cherry	20	Sapling/Pole	2	

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
74	4139 - Aspen, Mixed Deciduous	Poletimber Medium	10.9	35	1-50	N/A	2026 - Stand is moderately stocked stand of aspen. Stand has a few open areas in it. Stand has more of a hardwood component on east side of stand.
75	4130 - Aspen	Sapling Well	79.7	5	Immature	N/A	2022 - Stand was final harvest under timber sale contact Hansel & Kettle, 61-161-18.
76	4130 - Aspen	Poletimber Well	5.9	50	Unspecified	N/A	2026 - Some open spots in stand along east edge. Could expand aspen with harvest
77	3102 - Grass	None	1.7			No	2026 - Open area with some caged planted trees in it.
78	42301 - Planted Larch, Mixed Deciduous	Poletimber Well	4.7	48	141-170	N/A	2026 - Stand is planted larch stand. Stand is currently sitting at an average basal area of 140.
80	710 - Sand, Soil	None	6.2		Unspecified		2026 - Gravel Pit
82	500 - Water	None	1.8			No	2026 - Slater's Pond.

74

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Log	9	60
Black Cherry	30	Pole/Sapling	6	
Sugar Maple	5	Pole	8	
Quaking Aspen	40	Pole	8	35
White Pine	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Variable
Red Oak	Trace	Variable	Variable
Witch Hazel	Low	5 - 10 feet	5 - 10 feet

75

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	1	
White Pine	2	Pole/Log	8	
Basswood	3	Sapling	1	
Sugar Maple	3	Sapling	1	
Black Cherry	2	Pole	6	
Bigtooth Aspen	10	Sapling	1	
Quaking Aspen	75	Sapling	1	5

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	5 - 10 feet	5 - 10 feet
Ironwood	Medium	Variable	Variable
Blackberry/Raspberry	Low	5 - 10 feet	5 - 10 feet
Witch Hazel	Low	5 - 10 feet	5 - 10 feet

76

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	8	
Black Cherry	5	Pole/Log	8	
White Pine	10	Log/Pole	10	
Quaking Aspen	80	Pole/Log	9	50

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Variable
Red Oak	Trace	10 - 20 feet	10 - 20 feet

78

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log/Pole	12	
Larch (non-native)	80	Pole/Log	9	48
Black Cherry	10	Log/Pole/XLog	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	10 - 20 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
84	6120 - Lowland Cedar	Poletimber Well	10.6	100	Unspecified	N/A	2026 - Center of stand is wet.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	60	Pole	8	100
Balsam Fir	15	Pole	7	
Tamarack	10	Pole	8	
Black Spruce	15	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
85	4139 - Aspen, Mixed Deciduous	Poletimber Medium	7.5	55	51-80	N/A	2026 - Aspen clones throughout stand. Some open areas. Would need to access from private land from the east.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Pole	8	55
Red Maple	35	Pole/Log	9	
White Pine	5	Pole/Log	9	
Balsam Fir	10	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
86	629 - Mixed non-forested Wetland	None	3.7			No	2026 - Flooded area due to beavers. No trees are alive in stand at this time.
87	4130 - Aspen	Sapling Well	10.9	27	Immature	N/A	2026 - Fully stocked aspen stand.1999 Stand was final harvested under timber sale contract Compartment 18 Aspen, 62-004-98-01.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Sapling	1	
White Pine	5	Pole/Log	8	
Red Maple	10	Sapling	1	
Bigtooth Aspen	80	Sapling	4	27

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
88	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	5.6	75	111-140	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	50	Log/Pole/XLog	14	75
Bigtooth Aspen	30	Pole	8	
Red Pine	10	Log/Pole	14	
Red Maple	5	Pole	8	
Black Cherry	5	Pole	8	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
89	6120 - Lowland Cedar	Poletimber Well	2.5	116	Unspecified	N/A	2026 - Wet stand along the edge of Johnson Lake. Mostly Cedar.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	60	Pole/Log	8	116
White Pine	40	Log/Pole/XLog	15	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
90	500 - Water	None	2.1			No	2026 - Johnson Lake

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
92	4133 - Aspen, Mixed Pine	Sawtimber Medium	4.9	55	51-80	N/A	2026 - Clearcut stand next time red pine is thinned.
93	42110 - Planted Red Pine	Sawtimber Well	24.9	56	111-140	N/A	2026 - Stand is currently sitting at an average basal area of 130 at this time. Stand understory is still wide open with a few pockets of thicker understory. 2022 - Stand was marked and harvested under timber sale contact Hansel & Kettle, 61-161-18. 2008 - Stand was third row thinned as part of 72 & Johnson Lake Red, 61-049-08-01.
94	6130 - Fir, Aspen, Maple	Poletimber Well	4.4	55		N/A	2026 - Aspen stand with high compenent of balsam fir and spruce
95	4139 - Aspen, Mixed Deciduous	Sapling Well	11.0	16	Immature	N/A	2026 - Fully stocked aspen stand.2008 - Stand was final harvest under timber sale contract Cranberry Lake Aspen, 61-051-08-01.
96	4139 - Aspen, Mixed Deciduous	Sapling Well	91.4	5	1-50	N/A	2026 - Stand passed Re-inventory monitoring treatment. 2022 - Stand was Seed tree harvested under timber sale contract - Hansel & Kettle, 61-161-18.
97	622 - Lowland Shrub	None	6.4			No	Multipart stand. Seasonal ponds in kettle depressions. Vegetation varies from cattails to emergent vegetion to shrubs.

92

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	13	Log	12	
Red Pine	10	Log	12	
Sugar Maple	10	Log/Pole	10	
Red Maple	20	Log/Pole	10	
Ironwood	5	Sapling/Pole	3	
Bigtooth Aspen	40	Pole/Log	8	55
Yellow Birch	2	Pole/Log	8	

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

93

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Pole/Log	8	
Red Maple	5	Pole/Log	8	
Black Cherry	5	Pole/Log	8	
Red Pine	85	Log/Pole	13	56

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	5 - 10 feet	5 - 10 feet
White Pine	Trace	5 - 10 feet	5 - 10 feet
Red Maple	Low	10 - 20 feet	10 - 20 feet
Black Cherry	Low	5 - 10 feet	5 - 10 feet

94

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	15	Pole	6	
Black Cherry	5	Pole	6	
Balsam Fir	40	Pole	6	
Quaking Aspen	40	Pole/Log/Sap	8	55

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	Variable	Variable
Paper Birch	Low	>20 feet	>20 feet
Black Spruce	Low	5 - 10 feet	5 - 10 feet
Red Maple	High	Variable	Variable

95

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Sapling	2	
Bigtooth Aspen	50	Sapling	2	16
Black Cherry	20	Pole/Sap/Log	6	

96

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Sapling	1	
Red Maple	20	Sapling	1	
White Pine	15	Pole/Sap/Log	5	66
Quaking Aspen	55	Sapling	1	5

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Trace	10 - 20 feet	10 - 20 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
98	6122 - Black Spruce	Poletimber Well	3.8	85	Unspecified	N/A	2026 - Retention left for stand 75. Retention was left around kettle whole.
99	4130 - Aspen	Poletimber Well	2.0	28	Immature	N/A	2026 - Stand transitioned into pole size stand this YOE. 1998 Stand was clearcut in 1998 as part of sale 61-017-97-01 with Comp 120.
100	6224 - Treed Bog	None	3.8			No	Scattered white pine over bog.
101	6224 - Treed Bog	None	2.6			No	Scattered white pine over bog.
102	6224 - Treed Bog	None	12.8			No	2026 - Bog with some scattered white pine and spruce.
103	4130 - Aspen	Sapling Well	11.2	26	Immature	N/A	2026 - Fully stocked aspen stand.1999 - Stand was final harvested under timber sale contract Compartment 18 Aspen, 62-004-98-01.
104	623 - Emergent Wetland	None	2.6			No	2026 - Small kettle hole
105	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.8	85	81-110	N/A	2000 - Stand was thinned under timber sale contract 18 Aspen, 62-004-98-01

98

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	30	Pole/Log	9	
Black Spruce	50	Pole	8	85
Tamarack	15	Pole	8	
Red Maple	5	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Variable
Black Spruce	Medium	Variable	Variable

99

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	90	Pole/Sapling	5	28
Red Maple	10	Pole/Sapling	5	

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

103

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Sapling	1	
White Pine	5	Pole/Sap/Log	6	
Quaking Aspen	80	Sapling	1	26

105

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Pole/Log	8	
Beech	5	Pole/Log	8	
Basswood	15	Log	12	
Red Maple	30	Log/Pole	10	
Sugar Maple	40	Log/Pole	10	85

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	5 - 10 feet	5 - 10 feet
Bigtooth Aspen	Medium	Variable	Variable
White Pine	Low	5 - 10 feet	5 - 10 feet
Ironwood	Medium	10 - 20 feet	10 - 20 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
106	4133 - Aspen, Mixed Pine	Sapling Well	10.9	15	Immature	N/A	2026 - Fully stocked aspen stand.2011 - Stand was final harvested under timber sale contract Cranberry Lake Aspen, 61-051-08-01.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	5	Sapling	1	
Red Maple	5	Sapling	1	
Bigtooth Aspen	70	Sapling	2	15
White Pine	20	Log/Pole	12	

107	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	13.0	48	141-170	N/A	2026 - Stand is currently sitting at a basal area of 140 at this time. 2022 - Stand was row thinned under timber sale contract - Hansel & Kettle, 61-161-18.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Log/Pole	14	
Quaking Aspen	15	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Medium	Variable	Variable
Red Maple	High	Variable	Variable

108	4133 - Aspen, Mixed Pine	Poletimber Medium	22.9	48	1-50	N/A	2026 - Stand has some open pockets still filling in with regen. Stand has a lot of white pine that could take over the lower quality aspen over time.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole/Sap/Log	8	
Black Cherry	20	Log/Pole	10	
White Pine	25	Pole/Sap/Log	8	
Quaking Aspen	40	Pole/Sap/Log	8	48

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

109	4110 - Sugar Maple Association	Sawtimber Well	27.3	85	81-110	N/A	2026 - Stands is currently sitting at an average basal area of 80 at this time. Beech is established in understory.2022 - Stand was thinned under timber sale contract Hansel & Kettle Mix, 61-161-18.

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	30	Log	12	
Sugar Maple	45	Log/Pole	10	85
Black Cherry	10	Pole/Log	8	
White Pine	15	Pole/Log	8	

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

110	4133 - Aspen, Mixed Pine	Sapling Well	17.2	15	Immature	N/A	2011 - Stand was final harvested under timber sale contract f Cranberry Lake Aspen, 61-051-08-01.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	10	Pole	5	70
Red Pine	3	Sapling/Pole	3	
White Pine	20	Pole/Sap/Log	5	
Bigtooth Aspen	60	Sapling	1	15
Black Cherry	2	Sapling	1	
Red Maple	5	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Trace	5 - 10 feet	5 - 10 feet

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
112	4130 - Aspen	Sapling Well	18.4	5	Immature	N/A	2022 - Stand was final harvested under timber sale contract - Hansel & Kettle, 61-161-18.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Sapling	1	
Black Cherry	10	Sapling	1	
Basswood	5	Sapling	1	
Quaking Aspen	20	Sapling	1	
Bigtooth Aspen	45	Sapling	1	5
Red Maple	10	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	10 - 20 feet	10 - 20 feet
Serviceberry (Juneberry)	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
113	4117 - Mixed N. Hardwood - Pine	Sawtimber Well	5.7	85	81-110	N/A	2026 - Stand has a few open spots. Stand has more pine in east end of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log/Pole	10	
Black Cherry	5	Pole/Log	8	
Quaking Aspen	20	Log/Pole	10	
White Pine	20	Log/Pole	12	
Sugar Maple	10	Log/Pole	12	
Basswood	35	Log	12	85

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
114	6120 - Lowland Cedar	Poletimber Well	21.5	113	Unspecified	N/A	Nice dense cedar. Deer are using this area a lot. Fir is filling in the canopy gaps. Variable stocking. River runs thtough syane

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	70	Pole/Log	9	113
Red Maple	10	Pole/Log	8	
Paper Birch	10	Pole	7	
Balsam Fir	10	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
116	42220 - Natural Jack Pine	Poletimber Well	1.0	70		N/A	2026 - Retention from Flowing Well Red-Jack timber sale. Stand 16

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5	Pole	8	
Jack Pine	95	Pole/Log	8	70

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	10 - 20 feet
Red Oak	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
121	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.9	90	141-170	N/A	2026 - Stand would need to be accessed through private property if harvested.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	45	Log/XLog/Pole	16	90
Red Maple	40	Log/XLog/Pole	16	
Sugar Maple	15	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	>20 feet	>20 feet
Red Maple	Low	10 - 20 feet	10 - 20 feet
Beech	Low	5 - 10 feet	5 - 10 feet
Sugar Maple	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
122	6229 - Mixed Lowland Shrub	None	4.2			No	2026 - Tribute stream to North Branch of Manistee River runs through stand.

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
123	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	48.3	90	Unspecified	N/A	2026 Stand is very wet stand. Contains an unnamed, perennial tributary of the Manistee River.
124	6120 - Lowland Cedar	Poletimber Well	32.2	97	Unspecified	N/A	2026 - Cover type estimated based on photo and adjacent stand in Comp 120. Included part of stand in proposed SCA for MNFI-designated Rich Conifer Swamp.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	32	Log/Pole	10	90
Paper Birch	15	Pole/Log	8	
Balsam Fir	20	Pole/Log	8	
Black Spruce	10	Pole	6	
Red Maple	10	Pole/Log	8	
Hemlock	3	Log/Pole	10	
Quaking Aspen	10	Pole/Sapling	6	

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

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