

Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61120

Entry Year: 2027

Acreage: 2,309

County: Kalkaska

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Steve Crigier

Legal Description:

T27N, R6W, Sec. 35
T26N, R6W, Sec. 1, 2
T26N, R5W, Sec. 6

Identified Planning Goals:

Management in the Kalkaska Sandy Moraines Management Area will emphasize continuing balancing the age class of aspen on suitable sites and thinning the northern hardwoods, balancing age classes of red pine and jack pine and regenerating the aging swamp hardwood and conifer resource where possible. 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 activities are constrained by poor access in the swampy (16% lowland) portions of this area, some of which fall in the riparian zone of the Manistee River, a dedicated natural river. Expected trends within this 10-year planning period are increased recreational pressure, introduced pests and diseases and the difficulty in regenerating swamp types.

Soil and topography:

Much of the compartment is low wet ground, containing the Sigma Swamp and the Cranberry Lake Swamp which are typically on a Lupton Muck soil. The upland areas are on well drained Saugatuck and Rubicon sand.

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

Ownership within compartment is primarily state but there are three private inholdings. Ownership to the south and west is nearly all state. East of the compartment is private and there is mixed ownership to the north. Private inholdings are rural in nature.

Unique Natural Features:

This compartment falls within landtype associations (LTAs) 3121 and 5149 of sub-subsection VII.2.2. LTA 3121, which occurs along the eastern edge of the compartment, is characterized by large irregular ice-contact ridges, few kettle lakes, and well drained loamy sand. LTA 5149, found on the remainder of the compartment, is a broad outwash plain with very poorly drained peat or muck. Circa 1800, almost 70% of the LTA supported conifer-dominated wetlands (7% of this area was bog and muskeg). Forests of white pine with red pine or hemlock collectively covered another 11% of the LTA and occurred on better drained, sandy inclusions often within the extensive peatlands. In addition, both white pine and hemlock were probably also important components of the beech/sugar maple forests that covered another 6% of the LTA. The remainder of the LTA supported small amounts of pure hemlock forests, alder/willow thickets, marshes, and aspen/white birch forests. Lowland-conifer forests, which once covered almost 70% of the LTA, now occur on only 22% of the landtype. Conversely, lowland hardwood swamps and shrub/scrub wetlands, which did not occur here circa 1800, now cover about 16% and 15% of the LTA, respectively. Further, aspen/white birch forests have increased from about 1% to 21% cover today. Pine-dominated forests persist on only about 6% of the LTA and northern hardwoods on another 5%. For more on these LTAs, refer to Appendix 1 where we have provided detailed information on the LTAs that are contained in the Traverse City 2007 YOE Compartments.

A high quality rich conifer swamp was documented southwest of the compartment. Rich conifer swamps are groundwater influenced, or minerotrophic, forested wetlands dominated by northern white cedar and occurring on organic soils (e.g., peat and muck). Situated primarily along streams and lakes, but also in drainageways, and in depressions in shallow drift over limestone and dolomite, rich conifer swamps are found on glacial outwash, glacial lake plains, and in coarse to medium-textured ground moraines (especially in drumlin fields), and on foot slopes of morainal ridges. Rich conifer swamps have saturated peat that is typically very strongly acid at the surface, and neutral to mildly alkaline below the surface, in areas of groundwater influence. These systems are characterized by diverse microtopography and ground cover.

Part of Cranberry Lake is on state ownership as well as part of the Sigma Swamp Deer Yard which is one of the major deer yards in Kalkaska County.

Archaeological, Historical, and Cultural Features:

There is an old logging camp located on the southern border of this compartment called Angling Siding.

Special Management Designations or Considerations:

There are three Stands in the north west part of the compartment that are nominated for SCAs. One is an MNFI Natural Community, the other 2 are nominated based on forest inventory data.

Watershed and Fisheries Considerations:

The North Branch of the Manistee River runs through the western portion of this compartment. Most of this stretch of river has been rehabilitated from the old Flowing Well Hatchery. Apply appropriate BMP's and buffer with adjacent treatments around the Manistee River. Cranberry Lake has an access site.

Wildlife Habitat Considerations:

Most of this compartment falls on an outwash plain that is characterized by poorly drained soils. Habitat types found on these wet soils include lowland hardwoods, lowland brush, and lowland conifers. The North Branch of the Manistee River and Morrison Creek flow through the west half of the compartment and add an important riparian component to the area. Parts of the Cranberry Lake and Flowing Well deer yards are found here. Care should be taken to maintain the integrity of this winter thermal cover. Occasional inclusions of dry sandy soil support aspen and northern hardwoods. These pockets of "upland" habitat scattered within the larger swamp complex provide a benefit for wildlife by increasing the amount of edge between upland and lowland communities. Edge helps to increase species diversity by offering resources from 2 or more different habitat types. Wildlife utilizing these mainly lowland communities include: white-tailed deer, bobcat, black bear, snowshoe hare, alder flycatcher, Eastern milk snake, and wood turtle. There may be an opportunity for WLD to conduct a winter habitat cut of lowland aspen. Several openings managed for herbaceous browse are located adjacent to deer yards in this compartment. One rye field, which borders private property, will be converted to a perennial mix which will need less maintenance. WLD will receive management assistance from a private habitat company and/or Camp Grayling Environmental Staff for use as a helicopter landing zone. West of Cranberry Lake is an inclusion of dry sandy soil which supports a mix of aspen, red maple, cherry, oak, and pine. An old opening here, which is being slowly reforested, has been scheduled for hand felling of some woody encroachment, and then possibly burning to stimulate native herbaceous cover. This addition of semi-open habitat will increase the diversity in the area and provide crucial habitat for species like white-tailed deer, northern flicker, rose-breasted grosbeak, hog-nosed snake, and broad-winged hawk. The very eastern extreme of the compartment bears dry sandy soils and supports several different age classes of upland aspen as well as several red pine plantations. An upland brush community of little bluestem, black cherry, and red maple has been prescribed for treatment to retain this area in a semi-open condition and to stimulate native herbaceous vegetation.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Mississippian Marshall Sandstone. The Marshall was previously used as a building stone. The nearest gravel pit is located 2.5 miles to the east, but there should be potential on the uplands. This area is located six miles southwest of the Niagaran reef trend. There are no leases currently in the Compartment, but leases are located to the south.

Vehicle Access:

Sunset Road passes through the compartment and is a moderately traveled county road. Kniss Road follows the south boundary and Cranberry Lake road gives access to Cranberry Lake boat launch. There are not many interior roads due to the low/wet ground conditions.

Survey Needs:

None needed for this YOE.

Recreational Facilities and Opportunities:

The Kalkaska ORV Route, which is also the Craneberry Lake Snowmobile Trail (trail #76) in the winter is along the Eastern edge of this compartment. The Kalkaska ORV Trail, which is designed for ORV's that are <50 inches wide runs North/South thru the Eastern portion of this compartment. A boating access site is located on the shores of Craneberry Lake. A Director's Order prohibiting camping at this boating access site is in effect. Protection specifications, and guidance provided by Policy and Procedures 32.22XX (Best Management Practices for Forest and Wildlife Management Adjacent to Recreational Trails) should be followed. (T.M.N. 12/10/14)

Fire Protection:

This area is protected by the Kalkaska DNR Field Office as well as Stations 6 and 8-township fire departments.

Additional Compartment Information:

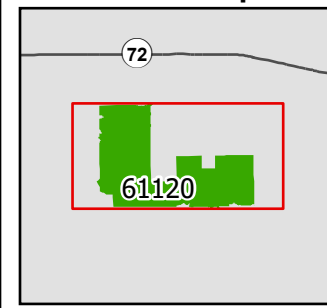
The following reports from the Inventory are attached:

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

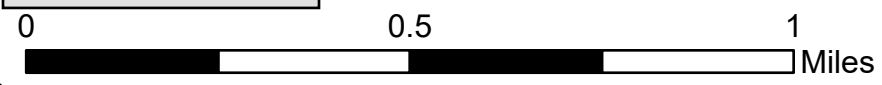
The following information is displayed, where pertinent, on the attached compartment maps:

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

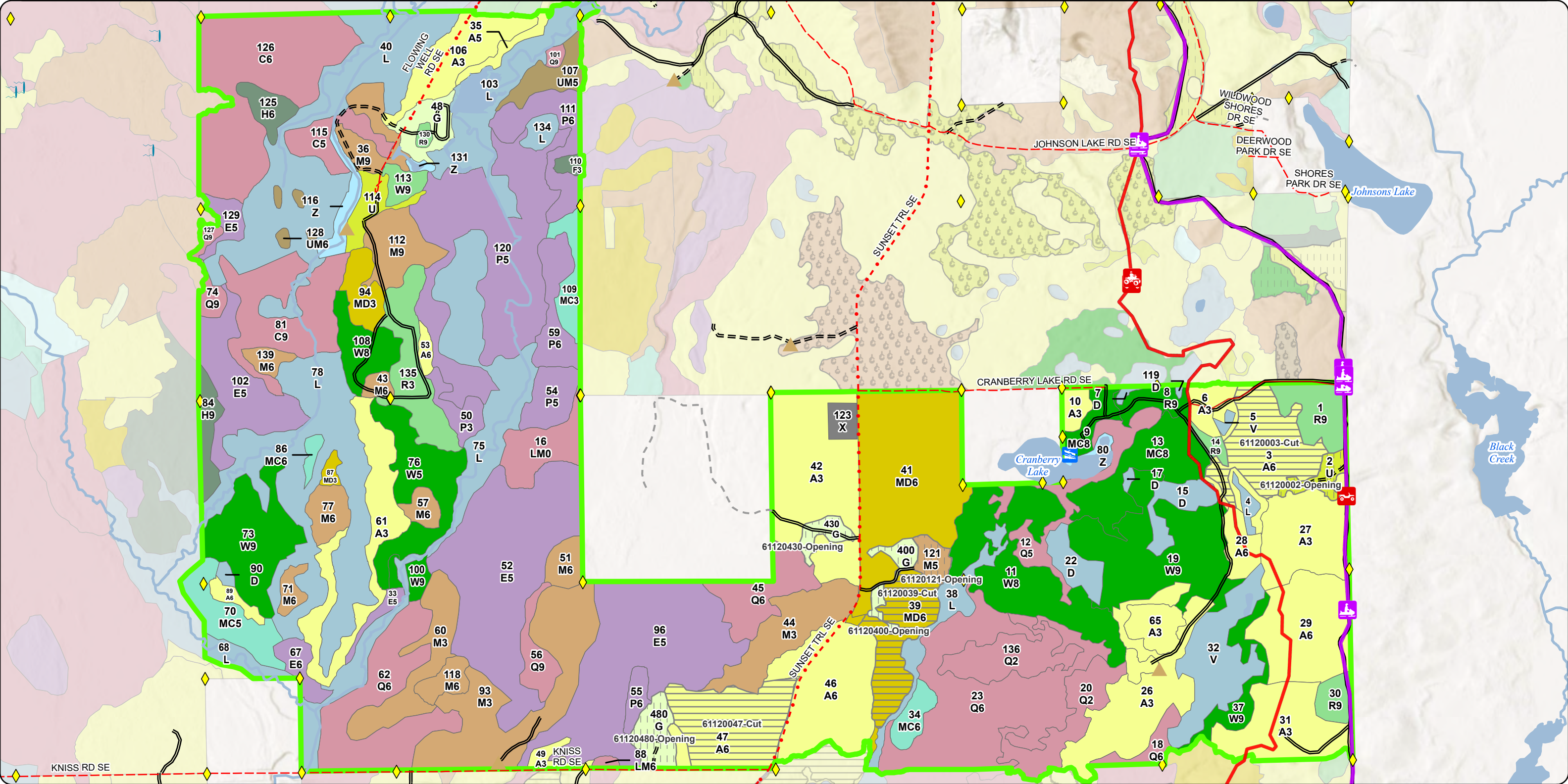
Cover Type & Treatments Map



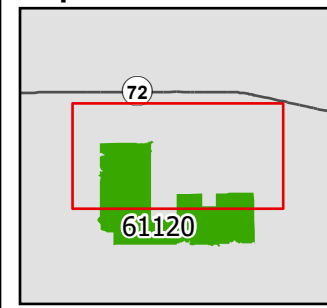
Compartment: 61120
 T27N R06W 35
 County: Kalkaska
 Unit: Traverse City
 Mgmt. Area: Kalkaska Sandy Moraines
 YOE: 2027
 Acres: 2,309 GIS Calculated
 Examiner: Steve Crigier
 Date Exported: 1/12/2026
 Map Phase: Post Maps



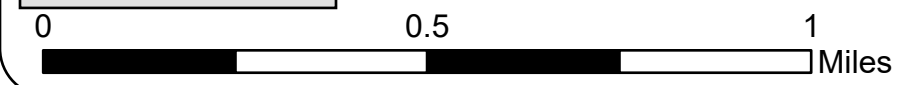
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|-----------------------------|-------------------------------|------------------------------|---------------------------------|
| Survey Grade Corners | DNR - Forest Access Route | 411 - Northern Hardwood | 611 - Lowland Deciduous Forest |
| Berm | County - Gravel Road | 413 - Aspen | 612 - Lowland Coniferous Forest |
| Culvert | County - Dirt Road (Seasonal) | 419 - Mixed Upland Deciduous | 613 - Lowland Mixed Forest |
| Boating Access Site | Private - Dirt / Gravel Road | 421 - Planted Pines | 122 - Road/Parking Lot |
| Designated ORV Routes | Streams | 422 - Natural Pines | 310 - Herbaceous Openland |
| Designated ATV Trails | Lakes and Rivers | 423 - Other Upland Conifers | 330 - Low Density Trees |
| Designated Snowmobile | Compartment Boundary | 429 - Mixed Upland Conifers | 622 - Lowland Shrub |
| DNR - Secondary Forest Road | Clearcut | 430 - Upland Mixed Forest | 500 - Water |
| | Openings Mgmt. | | |



Stand Boundary Map

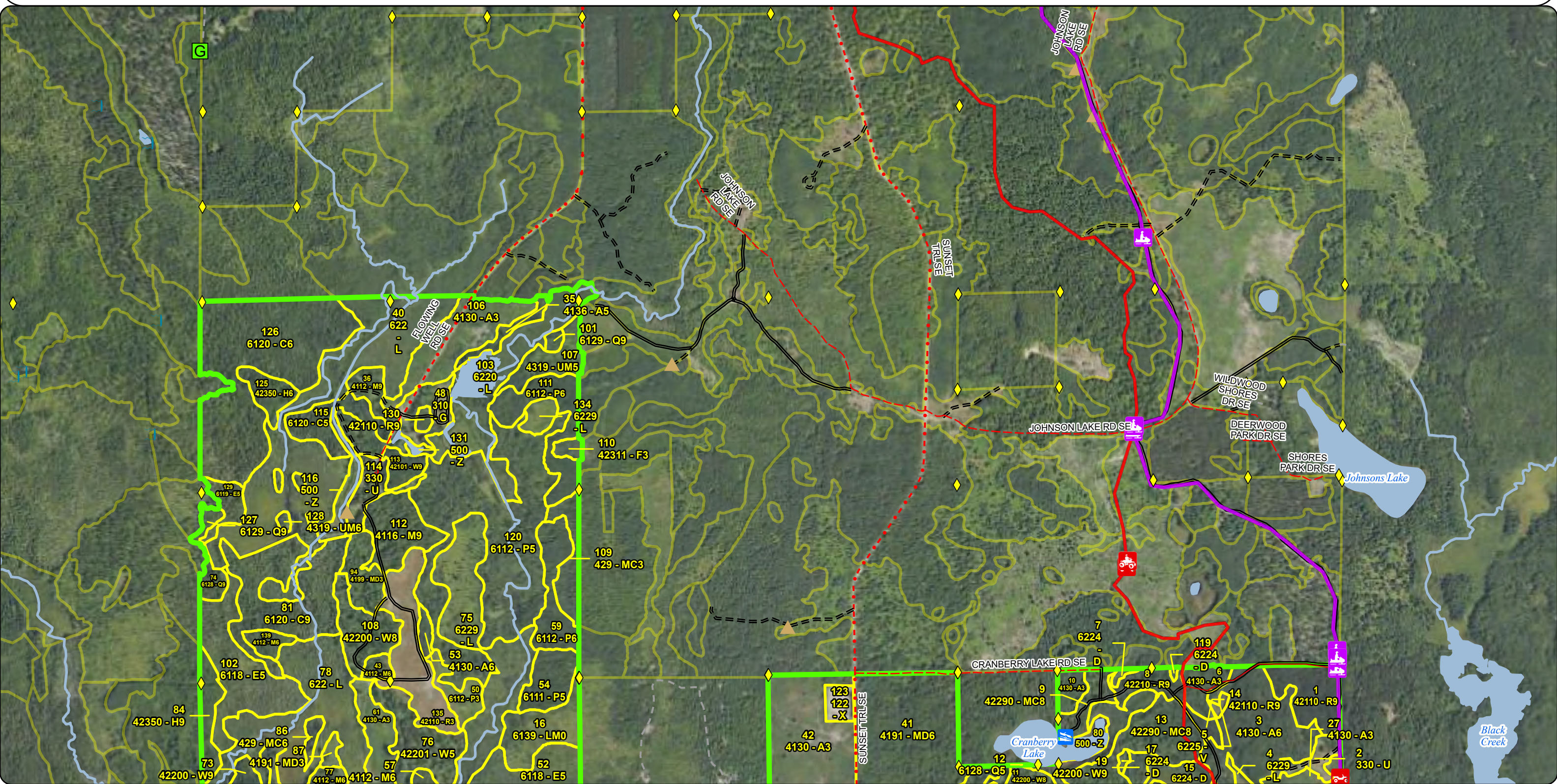


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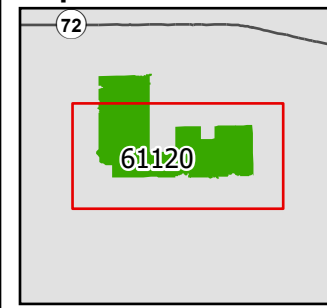


- Survey Grade Corners
- Berm
- Gate
- Culvert
- Boating Access Site
- Designated ORV Routes
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- Designated Snowmobile
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- Streams
- Lakes and Rivers
- Compartment Boundary

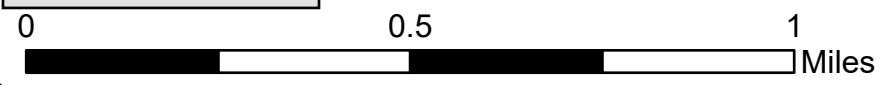
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Stand Boundary Map

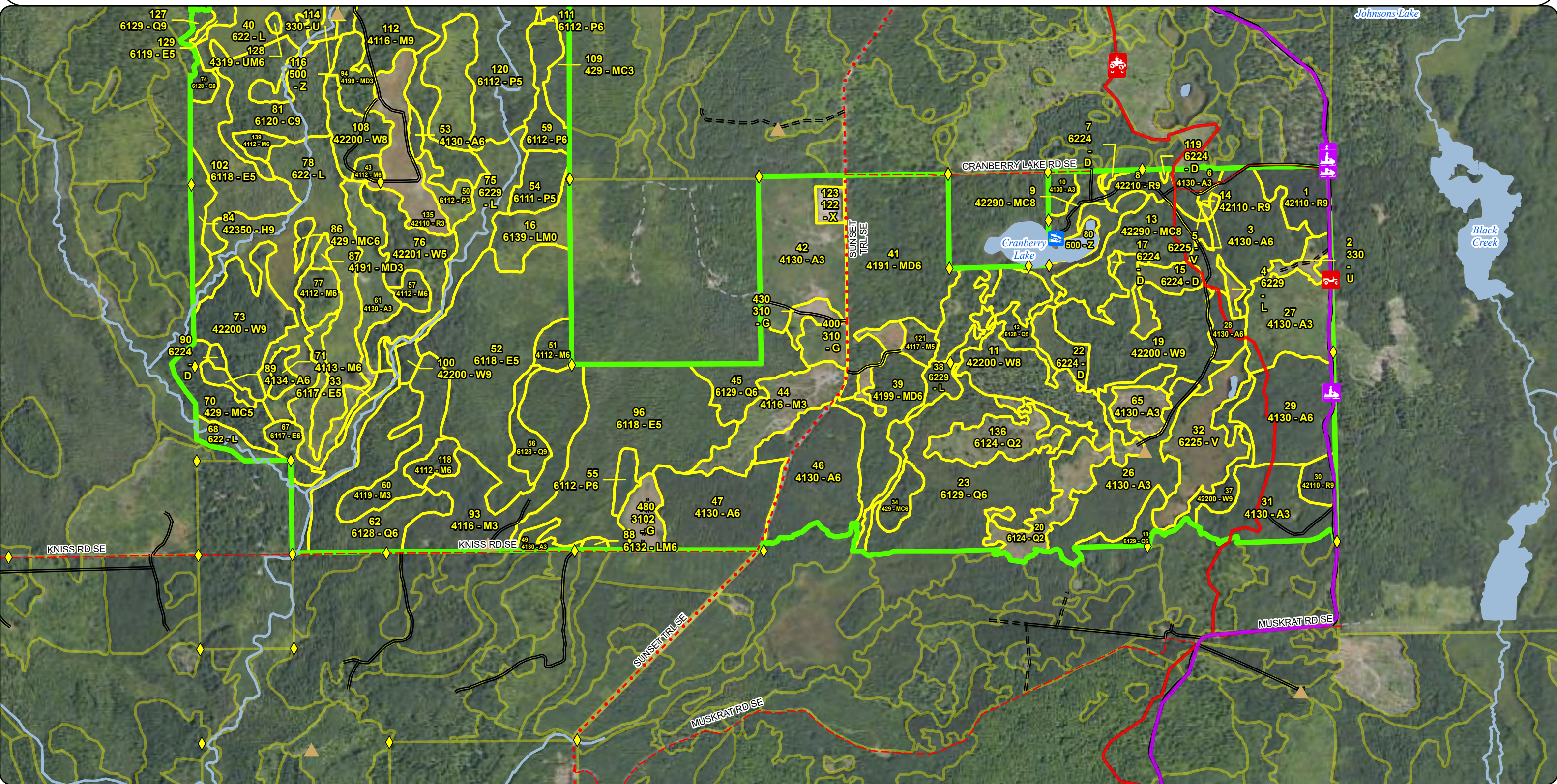


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- Survey Grade Corners
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Report 1 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit

Compartment 120 Year of Entry 2027

Steve Crigier: Examiner

Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	163	7	85	96	6	86	0	0	0	0	0	0	0	0	0	0	0	442
Bog	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Cedar	0	0	0	0	0	0	0	0	0	0	75	13	41	0	0	0	0	0	129
Hemlock	0	0	0	0	0	0	0	0	0	0	8	9	0	0	0	0	0	0	17
Herbaceous Openland	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Low-Density Trees	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Aspen/Balsam Poplar	0	8	0	0	0	16	114	12	0	0	0	0	0	0	0	0	0	0	150
Lowland Conifers	0	43	0	0	0	0	0	0	0	21	131	24	9	2	0	0	0	0	230
Lowland Deciduous	0	0	0	0	0	0	0	3	45	0	177	0	0	0	0	0	0	0	225
Lowland Mixed Forest	17	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	18
Lowland Shrub	309	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	308
Mixed Upland Deciduous	0	2	0	11	0	0	0	0	105	0	0	0	0	0	0	0	0	0	118
Natural Mixed Pines	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	8	37
Northern Hardwood	0	27	0	24	57	0	7	0	27	11	14	0	0	0	0	0	0	18	185
Red Pine	0	26	0	0	0	0	0	26	8	2	0	0	0	0	0	0	0	0	62
Treed Bog	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Upland Conifers	0	0	0	10	0	0	0	7	2	0	0	0	0	0	0	0	0	19	37
Upland Mixed Forest	0	0	0	0	0	0	0	0	11	3	0	0	0	0	0	0	0	0	14
Upland Spruce/Fir	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
White Pine	0	0	0	0	0	0	0	5	47	123	0	0	5	0	0	0	0	30	210
Total	449	269	7	132	153	22	207	53	274	160	406	46	55	2	0	0	0	75	2307

Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 120
Total Compartment Acres: 2,309

Commercial Harvest - 198
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	72	0	0	0	0	0	0	0	0	72
Mixed Upland Deciduous	27	0	0	0	0	0	0	0	0	27
Total	99	0	0	0	0	0	0	0	0	99

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	99	0	0	0	0	0	0	0	0	133
Next Step	0	0	0	0	0	0	99	0	0	116
Total	99	0	0	0	0	0	99	0	0	248

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

2	61120002-Opening	6.1	330 - Low-Density Trees	99			Openings Mgmt.	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
<p><u>Prescription</u> Augment herbaceous species for wildlife forage needs. Consider an appropriate native species, . Consider planting native shrubs around perimeter and/or in small islands. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing,</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Openings Mgmt., Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
3	61120003-Cut	33.7	4130 - Aspen	6	50	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
<p><u>Prescription</u> Final harvest stand. Area retention is mapped out and is mostly along the wetland features. Leave all oak, pine and sugar maple. Apply shrub protection spec and grouse drumming log spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, cherry, maple, pine, oak</p> <p><u>Other Comment:</u> Attempting to steer this stand to have more of an oak component.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
39	61120039-Cut	26.8	4199 - Other Mixed Upland Deciduous	6	73	81-110	Harvest	Clearcut	4116 - Mixed N. Hardwood - Aspen	Planting Record	No
<p><u>Prescription</u> Final harvest stand. Area retention has been mapped out. Leave all pine and oak. Also leave all balsam fir less than 4" in diameter. Apply shrub protection spec. Treatment area might need to be significantly adjusted to comply with BMPs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> maple, aspen, cherry, birch, pine, fir.</p> <p><u>Other Comment:</u> Maybe some areas of wet ground that will need to be avoided especially along the east side. Avoid damage to the WLD fields or the planted trees along the edge. This area is not to be used for a landing.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
47	61120047-Cut	38.0	4130 - Aspen	6	57	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
<p><u>Prescription</u> Final Harvest Stand. Leave any white pine or oak. Also leave any balsam fir less than 4" in dbh. Apply shrub protection spec and grouse drumming log spec. Area retention is mapped out along the west side of the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, cherry, maple, birch, pine, fir</p> <p><u>Other Comment:</u> Do not use or damage the WLD field on the west side of the stand. Note that there are planted trees along the fields edge.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
121	61120121-Opening	5.6	4117 - Mixed N. Hardwood - Pine	5	79	1-50	Openings Mgmt.	Openings Mgmt.	3205 - Mixed Upland Shrub	Previous Inventory	No
<p><u>Prescription</u> Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Expansion of prescription from adjacent Stand 61120</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
400	61120400-Opening	6.1	310 - Herbaceous Openland	99			Openings Mgmt.	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
<p><u>Prescription</u> This opening was a traditional wildlife planting located near deer yards. Maintain as a non-forest stand conducive to wildlife foraging and cover needs. Was traditionally planted to annual rye. Continue annual planting as budgets and staffing allow, or</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> This opening has been converted to a native mix by Land Ethics, LLC under a 2022 Wildlife Habitat Grant.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
430	61120430-Opening	5.4	310 - Herbaceous Openland	99			Openings Mgmt.	Openings Mgmt.	2113 - Forage Crops	Previous Inventory	No
<p><u>Prescription</u> This opening is a traditional wildlife planting. Disk in crab/quack grass, plant to annual rye for several years and then convert back to a pasture mix (i.e. clover/alfalfa). Periodic maintenance such as mowing, fertilization, reseeding, and/or removal</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> This field has been planted to a legume mix by Land Ethics LLC via a Wildlife Habitat Grant.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
480 61120480-Opening	10.9	3102 - Grass	99			Openings Mgmt.	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
<p><u>Prescription</u> This opening was a traditional wildlife planting located near traditional deer yards. Maintain as a non-forest stand conducive to wildlife foraging and cover needs. Was traditionally planted to annual rye. The opening has been cleared of brush to be us</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Openings Mgmt., Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										

Total Treatment 132.6
Acres Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier: Examiner

Compartment: 120
Year of Entry: 2027

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		2G	2H	3A	3J	3L	5E
370	354	0	17	Aspen		4		5		8
33	33	0	0	Bog						
127	0	0	127	Cedar	79		48			
17	0	0	17	Hemlock			8		9	
33	33	0	0	Herbaceous Openland						
15	15	0	0	Low-Density Trees						
149	43	0	106	Lowland Aspen/Balsam Poplar	106					
230	43	0	187	Lowland Conifers	176			2	9	
223	0	0	223	Lowland Deciduous	220			3		
18	0	0	18	Lowland Mixed Forest	18					
308	309	0	0	Lowland Shrub						
118	118	0	0	Mixed Upland Deciduous						
37	37	0	0	Natural Mixed Pines						
183	175	0	8	Northern Hardwood		8				
62	62	0	0	Red Pine						
23	23	0	0	Treed Bog						
38	10	0	28	Upland Conifers	7	21				
14	11	0	3	Upland Mixed Forest		3				
2	2	0	0	Upland Spruce/Fir						
5	5	0	0	Urban						
14	14	0	0	Water						
187	129	0	58	White Pine		35		23		
2,207	1,416		791	Total Forested Acres	606	71	56	32	19	8
	64%		36%	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 access issues)	13	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier: Examiner

Compartment: 120
Year of Entry: 2027

2	Unavailable	3A: Conservation values incompatible with harvest at this time	56	Unspecified	Unspecified	Unspecified	Unspecified
Comments: SCA for Other habitat area							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	112	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier: Examiner

Compartment: 120
Year of Entry: 2027

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	118	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	45	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	89	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3L: Other wildlife concerns	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Unique species composition							
13	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier: Examiner

Compartment: 120
Year of Entry: 2027

15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	85	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier: Examiner

Compartment: 120
Year of Entry: 2027

21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	76	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: st 47 LTR							
26	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: St 39 LTR							
29	Unavailable	3L: Other wildlife concerns	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See stand comments							
30	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ST 3 LTR							
33	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier: Examiner

Compartment: 120
Year of Entry: 2027

35	Unavailable	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	5E: Long-Term Retention	0	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																							
1	42110 - Planted Red Pine	Sawtimber Well	16.2	65	111-140	N/A	2025- BAs: 160, 110, 130, 1602015-Good quality pine. Western 1/2 of stand has a heavy hardwood understory. 2010- ts # 023-07 Cranberry Lake Pine completed 7-13-2010.																																																																							
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2	330 - Low-Density Trees	None	6.1			No																																																																								
3	4130 - Aspen	Poletimber Well	39.8	50	81-110	N/A	2025- Areas of moderate stocking. Mediocre to poor quality aspen. Gently rolling terrain. Decent amount of hardwood mixed into the canopy and subcanopy. Higher stocking and better quality in the northern portion.																																																																							
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4	6229 - Mixed Lowland Shrub	None	2.7			No																																																																								
5	6225 - Bog	None	1.1			No																																																																								
6	4130 - Aspen	Sapling Well	7.3	16	1-50	N/A	2025- Starting to see a small oak and white pine component. 2015- Scattered red pine logs over an aspen stand. Trees are about 10' tall. It doesn't look like the seed tree harvest is working and may be a bit late to try anything. 2005 pmr- no evidence of this treatment taking place. Follow prescription. ts # 023-07 Cranberry Lake Pine completed 7-13-2010																																																																							
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7	6224 - Treed Bog	None	0.9			No																																																																								

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8	42210 - Natural Red Pine	Sawtimber Well	8.0	76	81-110	N/A	2025- white pine working its way into the understory. 2015-Nice quality pine. There are a few different age/size classes. A2/m2 understory. 2010- ts # 023-07 Cranberry Lake Pine completed 7-13-2010 dkj																																																													
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9	42290 - Natural Mixed Pine	Sawtimber Medium	8.1	85	51-80	N/A	2025- Red maple and aspen make up the majority of regen but also a decent component of white pine and oak. 2018-- Stand was thinned in 2018 'Bogged Down Mix'. Aspen and red maple are coming up in the understory already.2015- Scattered large white pine. Aspen and maple pole timber underneath. Poor quality white pine in the northern part of stand. The aspen is dying out.																																																													
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10	4130 - Aspen	Sapling Well	4.8	28	Immature	N/A	2025- Stand is starting to convert to pole timber in spots. 2015- Trees are about 20-30' tall and has good stem density. Stand was clearcut in 1998 as part of a timber sale 017-97-1.																																																													
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11	42200 - Natural White Pine	Sawtimber Medium	53.1	87	51-80	N/A	2025- Getting a lot of deciduous regen and just a bit conifer. Pockets of Legacy white pine. In general there is higher stocking in the Southern part of the stand.2020-- Stand was thinned in 2020 'Bogged Down Mix' Removed the orange marked trees as well as the black spruce and aspen. 2015- Mixed stand of red and white pine and some pockets of red maple. A few drainages off Cranberry Lake make their way through the stand. Some pockets of nice quality pine. Some low ground areas.																																																													
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12	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	20.6	89	51-80	N/A																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
13	42290 - Natural Mixed Pine	Sawtimber Medium	29.1	75	51-80	N/A	2025- Red maple and aspen make up the majority of the regeneration. White pine and oak also establishing in the understory. Overstory is variable. 2018- Stand was thinned in 2018 having most of the aspen and black spruce harvested 'Bogged Down Mix'. Stand is already regenerating mostly to aspen and soft maple in the understory. 2015- Aspen in the stand is mature and starting to see some mortality. Black spruce along the edge of the bog to the south. Decent red pine logs. White pine in the northeast is pretty rough looking, limby.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Pole/Log	9	75	Black/Red (Hybrid) Oak		Trace	5 - 10 feet	5 - 10 feet
Paper Birch		5	Pole/Log	9	75	White Pine		Low	Variable	Variable
White Pine		50	Log/Pole	12	75	Red Maple		Medium	10 - 20 feet	10 - 20 feet
Red Pine		35	Log/Pole	11	75	Beech		Low	5 - 10 feet	5 - 10 feet
						Black Spruce		Low	5 - 10 feet	5 - 10 feet
						Quaking Aspen		Medium	10 - 20 feet	10 - 20 feet
14	42110 - Planted Red Pine	Sawtimber Well	2.8	65	111-140	N/A	2025 - Nice quality pine. Little hardwood in the -understory. Some scattered oak seedlings. 2015-Third row thin 2005. ts # 023-07 Cranberry Lake Pine completed 7-13-2010 dkj			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		100	Log/Pole	11	65	Beech		Low	5 - 10 feet	5 - 10 feet
						Red Maple		Medium	5 - 10 feet	5 - 10 feet
15	6224 - Treed Bog	None	10.2			No	Leather leaf, black. spruce and white pine.			
16	6139 - Mixed Lowland Forest	Unspecified	17.1	41	Unspecified					
17	6224 - Treed Bog	None	0.9			No				
18	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	6.7	94	81-110	N/A	2025- Cedar with black spruce especially on the east side.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		15	Pole/Log	8		Black Spruce		Low	Variable	Variable
Balsam Fir		5	Pole	8		Balsam Fir		Medium	Variable	Variable
Black Spruce		15	Pole	8		Red Maple		Low	< 5 feet	< 5 feet
Northern White Cedar		45	Pole/Log	9	94	Paper Birch		Low	>20 feet	>20 feet
White Pine		15	XLog/Log	18		Tag Alder		Medium	5 - 10 feet	5 - 10 feet
Hemlock		5	Log/Pole	10						
19	42200 - Natural White Pine	Sawtimber Well	55.3	89	81-110	N/A	2025 - Some oak and white pine establishing in the understory but still dominated by red maple and aspen. Scattered legacy trees, especially along the bogs which are scattered throughout. B.A's : 120, 100, 130, 1002015 - Most of the stand had the aspen and maple removed out of it in 2010. The pine was also thinned down to a BA ~ 80-100. Parts of the stand were left untreated (retention) along some of the softer ground. This is where the bulk of the black spruce is. Good quality pine with an A3/M3 understory.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Pole/Log	9	89	Red Maple		Medium	10 - 20 feet	10 - 20 feet
Black Spruce		5	Pole	8		White Oak		Trace	5 - 10 feet	5 - 10 feet
White Pine		70	Log/Pole	13	89	Black/Red (Hybrid) Oak		Trace	5 - 10 feet	5 - 10 feet
Red Pine		20	Log/Pole	12	89	White Pine		Low	Variable	Variable
						Quaking Aspen		Low	10 - 20 feet	10 - 20 feet
						Beech		Low	10 - 20 feet	10 - 20 feet
						Black Spruce		Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
20	6124 - Lowland Spruce-Fir	Sapling Medium	21.2	6	Immature	N/A	2025- Stand is filling in. Not quite fully stocked yet. Most of the spruce is still under 3ft tall. 2020- Stand was final harvested in 2020, 'Bogged Down Mix'. There were a few scattered large white pine left. There were A few islands that were left uncut as the ground was too wet. Stand has a sand bottom in some areas. Expect regen will come slowly.2015- Variable stand. Hummocky ground but much of it looks operable. Scattered wetter areas with leatherleaf.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		30	Sapling	1	6	Tag Alder		
Paper Birch		5	Sapling	1	6	Density		
Balsam Fir		10	Sapling	1	6	Avg. Height		
Black Spruce		40	Sapling	1	6	Size		
Tamarack		5	Sapling	1	6	5 - 10 feet		
White Pine		10	Sapling	1	6	5 - 10 feet		
22	6224 - Treed Bog	None	9.4			No	2015 - Wet spot with leatherleaf . Some small white pine and larch seeding in on humps. 2"dbh.	
23	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	77.8	94	81-110	N/A	2025- Variable stand with diverse canopy. Contains fingers of tag alder and pockets of nearly pure hemlock.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		15	Pole/Log	8		Balsam Fir		
Balsam Fir		5	Pole	8		Medium		
Black Spruce		15	Pole	8		Variable		
Northern White Cedar		45	Pole/Log	9	94	Variable		
White Pine		15	XLog/Log	18		Low		
Hemlock		5	Log/Pole	10		< 5 feet		
						>20 feet		
						5 - 10 feet		
26	4130 - Aspen	Sapling Well	43.2	28	Immature	N/A	2025- Well stocked stand.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		10	Sapling	2	27			
Quaking Aspen		68	Sapling/Pole	3	28			
Black/Red (Hybrid) Oak		5	Sapling	2	27			
Balsam Fir		2	Sapling	2	27			
White Pine		5	Pole	8				
Black Cherry		10	Sapling	2	27			
27	4130 - Aspen	Sapling Well	33.1	8	Immature	N/A	2025- stand has fully regenerated. 2018- Stand was clearcut in 2018 'Bogged Down Mix'. Stand is already regenerating. White pine and sugar maple was left.	
Canopy Species		% Cover	Size Class	DBH	Age			
Sugar Maple		10	Sapling/Pole	4				
Red Maple		13	Sapling	1	8			
Quaking Aspen		70	Sapling	1	8			
Black/Red (Hybrid) Oak		2	Sapling	1	8			
White Pine		5	Pole/Sapling	7				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
28	4130 - Aspen	Poletimber Well	8.6	38	51-80	N/A	2025- still a few pockets of saplings. 2015- Stand is converting from a sapling stand to a pole stand. Some parts are more of an A3. Red maple in the understory. Decent quality 3-4 stick trees.																																														
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29	4130 - Aspen	Poletimber Well	39.9	38	51-80	N/A	2025- Areas with Sugar maple and oak in the understory. Some rolling terrain. 2015-Stand is converting from a sapling stand to a pole stand. Some parts are more of an A3. Red maple in the understory. Decent quality 3-4 stick trees.																																														
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30	42110 - Planted Red Pine	Sawtimber Well	6.9	63	111-140	N/A	2025- Stand wants to convert to mixed hardwoods. Nice mix of oak in the understory. BAs: 140, 100, 120, 150. 2015-Decent quality pine. Nice diameters and 6-7 sticks. Quite a bit of hardwood in the understory. 2010-Cranberry Lake Pine completed 7-13-2010 dkj																																														
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31	4130 - Aspen	Sapling Well	32.6	28	Immature	N/A	2025- Some beech working its way into the understory. 2015-Central and eastern part of stand has a few less TPA. there are some scattered oak and white pine. Trees are about 20' tall. 2005-Stand was clearcut as part of timber sale 017-97-1, in 1998.																																														
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32	6225 - Bog	None	32.3			No																																															
33	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	3.4	69	51-80	N/A	2025- Strip of lowland hardwoods next to the North Branch.																																														
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34	429 - Mixed Upland Conifers	Poletimber Well	7.3	62	51-80	N/A	2025- Isolated upland within swamp. Variable stand but mostly fir and white pine. Stand has a few age and size classes. Scattered legacy white pine.																																																					
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35	4136 - Aspen, Mixed Conifer	Poletimber Medium	4.7	57	51-80	N/A	2025- Was originally part of St 106 but is left as long term retention and Bmp buffer. 2015- Patchy stand but many parts are ready to go. Understory is variable: dense W3 to small openings to M3. Some areas already regenerated to aspen could be avoided in the sale. Some tamarack and beaver activity at the edge near the North Branch.																																																					
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36	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.9	91	51-80	N/A	2015 - Cherry is regenerating in the understory as well as red maple. 2020- Thinning harvest completed 2015- Nice stand of timber with mostly red maple logs. North pockets is a little poorer quality with more balsam fir on the edges. More of a birch component to the west. Stand has an old trail road looping through it.																																																					
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37	42200 - Natural White Pine	Sawtimber Well	12.2	75	111-140	N/A	Transition ground. Log sized stuff on the high ground and more poles and black spruce in the lower ground. Decent quality.																																																					
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38	6229 - Mixed Lowland Shrub	None	15.0			No	Ephemeral drainage dominated by tag alder																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
39	4199 - Other Mixed Upland Deciduous	Poletimber Well	28.2	73	81-110	N/A	2025--Variable stand. Average BA is 100 sf. Clumpy red maple and aspen is in rough shape. Balsam fir understory is heavy in places. Wetter along eastern edge. Some white pine and spruce in canopy there. Heavy browse on red maple seedlings and saplings.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		45	Log/Pole	10	73	Balsam Fir		Medium	Variable	Variable	
Paper Birch		5	Pole/Log	9	73	White Pine		Low	5 - 10 feet	5 - 10 feet	
Quaking Aspen		10	Pole/Log	9	73	Oak (spp.)		Trace	5 - 10 feet	5 - 10 feet	
Bigtooth Aspen		20	Pole/Log	9	73	Beech		Trace	>20 feet	>20 feet	
Black/Red (Hybrid) Oak		3	Log/Pole	11	73	Red Maple		Low	>20 feet	>20 feet	
Balsam Fir		5	Pole/Log	8	73	Serviceberry (Juneberry)		Low	5 - 10 feet	5 - 10 feet	
White Pine		2	Log/Pole	14	73						
Black Cherry		10	Pole/Log	9	73						
40	622 - Lowland Shrub	None	86.5			No	Morrison Creek and old fisheries raceway runs through this lowland.				
41	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	76.7	79	81-110	N/A	2025- A lot of clump red maple. Medium to poor quality. white pine and Oak mixed in. Stocking is Variable, pockets of maple and white pine saplings. A few scattered Red pine. Stand looks like it is moving towards a pine / Oak mix. More of an aspen component on the west end.BA'S: 100, 70, 120, 110, 80,				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		3	Pole/Log	9	79	Balsam Fir		Low	5 - 10 feet	5 - 10 feet	
Red Maple		40	Pole/Sap/Log	9	79	Red Maple		High	>20 feet	>20 feet	
Paper Birch		2	Pole	8	79	Black/Red (Hybrid) Oak		Trace	5 - 10 feet	5 - 10 feet	
Quaking Aspen		15	Pole	8		White Pine		Low	5 - 10 feet	5 - 10 feet	
Black/Red (Hybrid) Oak		3	Pole/Log	8	79						
Balsam Fir		5	Pole	7							
White Pine		17	Pole/Log	9	79						
42	4130 - Aspen	Sapling Well	57.5	6	Immature	N/A	2025- Stand is fully regenerated. Trees are about 10 ft tall.2020- Stand was final harvested. Scattered mature white pine and oak were left. 2015- Aspen quality on the west side of the road isn't the greatest. Seeing some pockets of mortality. Mostly 4-5 stick trees. Lots of red maple in the understory. There are some scattered oak and white pine. There are balsam pockets (F3) in the west side of the sunset trail. N 1/3 of the stand appears to be better quality/healthier.				
Canopy Species		% Cover	Size Class	DBH	Age						
Red Maple		20	Sapling	1							
Quaking Aspen		65	Sapling	1	6						
Balsam Fir		10	Sapling/Pole	4							
Black Cherry		5	Sapling	1							
43	4112 - Maple, Beech, Cherry Association	Poletimber Well	2.9	83	51-80	N/A	2025- Getting some maple and oak regen but also a fair amount of Ironwood.2020- stand was thinned in 2020. 2015-Stand is predominately red maple pole timber with some scattered log sized trees. South end of stand turns a bit more M5 with a heavier component of cherry.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		5	Pole	8		Red Maple		Medium	5 - 10 feet	5 - 10 feet	
Red Maple		90	Pole/Log	9	83	Ironwood		Medium	5 - 10 feet	5 - 10 feet	
Black Cherry		5	Pole	8		Black/Red (Hybrid) Oak		Trace	5 - 10 feet	5 - 10 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																																														
44	4116 - Mixed N. Hardwood - Aspen	Sapling Well	27.2	6	Immature	N/A	2025- stand has regenerated well to red maple aspen, cherry and some fir. 2020- Stand was harvested in 2020. Cedar, hemlock and a few white pine were left. Stand is already regenerating but not well established yet. 2015- Well stocked stand, quite a bit of red maple saw timber. Balsam fir understory. Western tip has a dense hemlock/cedar grove. North end of stand looks like it might have a small drainage.																																														
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45	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	20.4	107	81-110	N/A	2025- Some areas of thick cedar and hemlock, used heavily by deer. stocking is variable. A few large super canopy white pine.2015- Some nice black spruce along the southern boundary. Lots of wind throw interior, more of a Q5, and those wind throw pockets are filling in with balsam and spruce.																																														
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46	4130 - Aspen	Poletimber Well	47.7	36	51-80	N/A	2025- Some scattered oak and patches of balsam fir. Parts of the stand still in the sapling stage. Some lower ground along the east boundary. 2015-Stand is starting to convert to a pole stand. Not quite there yet. Well stocked.																																														
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48	310 - Herbaceous Openland	None	10.6			No	2025- Trout Unlimited along with Fisheries have a planned project to fill in portions of the old raceway to divert the river back to its natural course. 2015 -Area of multiple disturbances from previous landowners. Scattered trees: RM, BC, WP and some aspen. Some RP and spruce were planted but deer appear to have killed much of it. Knapweed is present in multiple openings maintained by previous landowners.																																														

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49	4130 - Aspen	Sapling Well	4.0	27	Immature	N/A	2025- Some of the aspen is approaching pole size. Ephemeral drainage in the southeast corner. 2015- Maple is coming through aspen pretty well and cherry. Also a little white pine and balsam.																																																																	
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50	6112 - Lowland Aspen	Sapling Well	7.7	6	Immature	N/A	2025- stand has regenerated very well. Stems are above the browse line. 2020- Was able to harvest a small pocket of the Original Stand 66 in 2020. Monitor the regen.																																																																	
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51	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.1	78	111-140	N/A	2025- Stump sprout originated red maple and black cherry. Moderate - poor form and quality. Balsam fir component along the west edge. BA'S- 100, 160, 110.																																																																	
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52	6118 - Lowland Deciduous with Cedar	Poletimber Medium	89.5	92	1-50	N/A	2025- Mix of deciduous species. Areas of blowdown are regenerating with red maple and black ash. Scattered large birch and maple. Small area of upland along the bank of the river, also with better stocking and size. 2015- South end more cedar mixed in but a lot has blown over. KKA: Heavier to ash at the north end, but mostly dead. Lots of blowdown.																																																																	
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53	4130 - Aspen	Poletimber Well	2.6	43	51-80	N/A	2025- Narrow vein of mostly upland quaking aspen. Diameters are still low. Wetter ground along the east boundary.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
54	6111 - Lowland Balsam Poplar	Poletimber Medium	12.1	65	51-80	N/A	Very wet. Patchy canopy cover. Bam fades into QA to north.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
American Elm		2	Log/Pole	10		Balsam Poplar	
Red Maple		13	Pole	6		Hawthorn (spp.)	
Quaking Aspen		25	Log/Pole	10		Tag Alder	
Balsam Poplar		60	Pole/Log/Sap	8	65	Red Osier Dogwood	
						Density	Avg. Height
							Size
55	6112 - Lowland Aspen	Poletimber Well	4.9	57	81-110	N/A	2025- Some areas of high ground next to the wildlife opening. There is a couple of drainages in the stands and is wet along the western edge. 2015-Some scattered oak. Decent quality timber, mostly 5 stick aspen with a heavy red maple understory. Healthy stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole	8	57	Red Maple	
Red Oak		3	Pole	7	57	Balsam Fir	
Quaking Aspen		60	Pole/Log	9	57	Serviceberry (Juneberry)	
Balsam Fir		5	Pole/Sapling	6	57		
Black Cherry		22	Pole	8	57		
						Density	Avg. Height
							Size
56	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	9.3	116	141-170	N/A	2025- Unique stand with a good component of hemlock. Stand is on transition ground. Used heavily by wildlife.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Log/Pole/XLog	13		Balsam Fir	
Yellow Birch		3	Log/Pole	12		Red Maple	
Balsam Fir		2	Pole/Sapling	6			
Northern White Cedar		15	Log/Pole	10	116		
Hemlock		60	Log/XLog/Pole	13	116		
						Density	Avg. Height
							Size
57	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.8	79	81-110	N/A	2025- small pocket of clumpy poor quality red maple and cherry.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		4	Pole	8		White Pine	
Red Maple		50	Pole/Log	9	79	Red Maple	
Quaking Aspen		5	Pole	8			
White Pine		9	Pole/Log	9			
Black Cherry		32	Pole/Log	9	79		
						Density	Avg. Height
							Size
59	6112 - Lowland Aspen	Poletimber Well	15.5	41	51-80	N/A	2025- stand is on transitional ground. Canopy is healthy. Lower stocking in the wet ground areas. 2015 -Just reaching pole size. Wet around west and south edges.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		85	Pole/Sapling	6	41	Tag Alder	
Black Cherry		15	Sapling/Pole	4		Black Cherry	
						Density	Avg. Height
							Size

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
60	4119 - Mixed Northern Hardwoods	Sapling Well	23.5	27	Immature	N/A	2025- Well stocked, Scattered hemlock and white pine.2015-Stand filling in nicely for the most part. good mix of species. birch around wet edges. 2005-LEAVE SOME MAPLE ON EDGE FOR SEED SOURCE. Sale #115-97. 2005 pmr. Maple is getting browsed . Cherry is growing through.	
Canopy Species		% Cover	Size Class	DBH	Age			
Sugar Maple		5	Sapling	2	27			
Red Maple		40	Sapling	3	27			
Yellow Birch		3	Sapling	2	27			
Paper Birch		5	Sapling	2	27			
Quaking Aspen		15	Sapling	3	27			
Balsam Fir		2	Sapling	2	27			
White Pine		5	Log/Pole	10				
Hemlock		5	Log/Pole	10				
Black Cherry		20	Sapling	3	27			
61	4130 - Aspen	Sapling Well	34.4	5	Immature	N/A	2025- Stand has regerated well. Thick steam density, trees are about 10' tall. Scattered mature white pine. 2021- Stand was final harvested in the winter. 2015. Some springs exist within the stand. Also has had areas flooded out by the beaver activity.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		15	Sapling	1	5			
Quaking Aspen		70	Sapling	1	5			
Balsam Fir		5	Sapling	1	5			
Black Cherry		10	Sapling	1	5			
62	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	45.3	96	51-80	N/A	2025- Stocking and species composition is variable. Numerous seeps and ephemeral drainages. pockets of large diameter cedar, near the north branch. Black ash saplings where there is heavy wind throw.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		15	Pole/Sap/Log	8	96			
Basswood		5	Log/Pole	12				
Paper Birch		10	Pole	8	76			
Balsam Fir		5	Pole/Sapling	7	76			
Black Spruce		5	Pole	8				
Northern White Cedar		40	Pole/Log	9	96			
Hemlock		15	Log/Pole	10	96			
Black Ash		5	Pole	8	96			
Sub-Canopy Species		Density	Avg. Height	Size				
Black Ash		Medium	5 - 10 feet	5 - 10 feet				
Red Maple		Low	10 - 20 feet	10 - 20 feet				
Balsam Fir		Low	5 - 10 feet	5 - 10 feet				
65	4130 - Aspen	Sapling Well	12.9	6	Immature	N/A	2025- stand has converted to a young well stocked aspen stand. A few scattered mature white pine were left.2020- Stand was final harvested in 2020 'Bogged Down Mix'. Expect stand to regenerate to a mixed deciduous2015- Part of same plantation as stand 92. Poor quality, poor form and never thinned. Heavy browse on red maple understory..	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		15	Sapling	1	6			
Quaking Aspen		65	Sapling	1	6			
White Pine		5	Log/Pole	10	41			
Black Cherry		15	Sapling	1	6			

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
67	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	7.3	70	51-80	N/A	black ash swamp that has died off. Sparse stocking at the north end. Small drainage in the west part of the stand.																																														
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68	622 - Lowland Shrub	None	7.1			No	Tag alder along Morrison Creek drainage.																																														
70	429 - Mixed Upland Conifers	Poletimber Medium	18.5	56	51-80	N/A	Lots of age and size classes. Some scattered red oak. Some black spruce along southern edge.																																														
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71	4113 - R.Maple, Conifer	Poletimber Well	4.2	86	81-110	N/A	Hardwood island with scattered white pine. Beaver activity along the edges.																																														
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73	42200 - Natural White Pine	Sawtimber Well	35.0	71	81-110	N/A	2025 -Eastern portion of the stand is more of a W5 with a higher component of balsam fir in the understory. Some area have some rough looking trees but overall is an average quality. Southern tip is has lots of large white pine 24" +. Lots of size classes. Some pockets of black spruce.																																														
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74	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	4.0	103	111-140	N/A	Neat hemlock stand. Has a grove of large white pine also. Some of the red maple has decent logs in them. Also, scattered cedar and black spruce.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
75	6229 - Mixed Lowland Shrub	None	65.1			No	North Branch of the Manistee runs through the east end.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Ash	Low	10 - 20 feet	10 - 20 feet	
								Balsam Poplar	Low	10 - 20 feet	10 - 20 feet	
								Quaking Aspen	Low	>20 feet	>20 feet	
Tag Alder	High	5 - 10 feet	5 - 10 feet									
76	42201 - Natural White Pine, Mixed Deciduous	Poletimber Medium	30.1	31	1-50	N/A	2025- Scattered open grown cherry and red maple with white pine establishing underneath. Several sizes and ages of white pine. Stocking is more sparse on the east side of the stand. Balsam fir along the edge of the North Branch and south portion of the stand.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	10	Pole/Log	9	
								Quaking Aspen	5	Pole	8	
								Balsam Fir	5	Pole/Sapling	6	
White Pine	60	Pole/Sap/Log	6	31								
77	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.9	79	51-80	N/A	2025- Aspen and red maple establishing in the understory. 2021- Stand was thinned in winter of 2021. Most of the aspen was removed and the majority of the birch. 2015-Hardwood knoll. Birch and aspen are dying out. Some scattered basswood. Western half is heavy to birch. Some white pine seeding into the northern 1/3. Beaver activity along the west side.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								White Pine	Medium	Variable	Variable	
								Red Maple	Medium	5 - 10 feet	5 - 10 feet	
								Quaking Aspen	Medium	5 - 10 feet	5 - 10 feet	
White Pine	Trace	< 5 feet	< 5 feet									
78	622 - Lowland Shrub	None	89.5			No	Tag Alder bottom and open boggy					
								Canopy Species	% Cover	Size Class	DBH	Age
								Sugar Maple	15	Pole	8	79
								Red Maple	65	Pole/Log	9	79
								Basswood	5	Log/Pole	12	79
Paper Birch	7	Pole/Log	9									
White Pine	8	Log	14	79								
80	500 - Water	None	5.7			No	CRANBERRY LAKE					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	20	Pole/Log	9	
								Paper Birch	5	Pole/Log	9	
								Balsam Fir	5	Pole	6	
Black Spruce	5	Pole	8									
Northern White Cedar	50	Log	12	111								
Tamarack	10	Pole	8									
Hemlock	5	Log/Pole	10									
81	6120 - Lowland Cedar	Sawtimber Well	40.8	111	51-80	N/A	2015 -The old grade at the north end of the stand seems to be effect tree density, wetter soil. Some nice pockets of hemlock. Some scattered yellow birch. Creek runs through the stand.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Ash	Low	>20 feet	>20 feet	
								Tag Alder	Low	5 - 10 feet	5 - 10 feet	
								Black Spruce	Low	Variable	Variable	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
84	42350 - Upland Hemlock	Sawtimber Well	9.2	103	171-200	N/A	Very dense canopy! A few scattered cedar along the east edge. Very unique stand. Trees are 5-6 stick tall.																																														
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86	429 - Mixed Upland Conifers	Poletimber Well	2.4	71	51-80	N/A	2025- Mix of balsam fir and red maple. A few super canopy white pine.																																														
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87	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	2.1	5	Immature	N/A	2025- stand regenerating to red maple, pine and aspen mix. Scattered mature white pine. 2021- stand was harvested in winter of 2021. Left scattered white pine. 2015-Rough looking white pine. Looks like an opening filling in.																																														
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88	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	1.3	90	51-80	N/A																																															
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89	4134 - Aspen, Spruce/Fir	Poletimber Well	3.6	44	51-80	N/A	2015 -Some scattered oak mixed in																																														
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90	6224 - Treed Bog	None	1.5			No	Small bog opening with leatherleaf																																														

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
93	4116 - Mixed N. Hardwood - Aspen	Sapling Well	56.8	38	1-50	N/A	2025- South end more solid aspen, north fingers more mixed cherry and maple with some aspen and some open areas. Pockets of pole sized aspen. Some Scattered oak mixed in. Stand is transitioning to pole sized timber.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		35	Sapling/Pole	4	38	White Pine		Trace	5 - 10 feet	5 - 10 feet
Paper Birch		5	Sapling/Pole	4	38	Red Maple		Medium	10 - 20 feet	10 - 20 feet
Quaking Aspen		30	Pole/Sapling	6	38	Balsam Fir		Low	5 - 10 feet	5 - 10 feet
Balsam Fir		5	Sapling	3	38					
Black Cherry		25	Sapling/Pole	4	38					
94	4199 - Other Mixed Upland Deciduous	Sapling Well	10.8	21	Immature	N/A	2025- Small cultivated area in central part of stand. Scattered mature cherry.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		20	Sapling	1						
Beech		5	Sapling	1						
Red Oak		5	Sapling	2						
Quaking Aspen		30	Sapling	1	21					
Ironwood		30	Sapling	1						
Scotch Pine		10	Sapling	3						
96	6118 - Lowland Deciduous with Cedar	Poletimber Medium	87.3	97	1-50	N/A	2025- a couple ephemeral drainages. Some non forested areas of tag Alder. 2015-small diameter trees. Heavy E3 understory. Very wet ground. Some pockets of P3.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Pole	7	97	Balsam Fir		Low	5 - 10 feet	5 - 10 feet
Paper Birch		20	Pole	6		Black Ash		Low	5 - 10 feet	5 - 10 feet
Quaking Aspen		20	Pole	6		Red Maple		Medium	5 - 10 feet	5 - 10 feet
Balsam Fir		10	Pole	6		Tag Alder		Low	5 - 10 feet	5 - 10 feet
Northern White Cedar		30	Pole	7	97					
Black Ash		10	Pole	6	97					
100	42200 - Natural White Pine	Sawtimber Well	4.8	116	111-140	N/A	2015- Nice super canopy white pine mixed with maple. The stand is in the natural river corridor.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Log/Pole	12		Red Maple		Medium	10 - 20 feet	10 - 20 feet
Northern White Cedar		5	Pole	6		Balsam Fir		Low	Variable	Variable
White Pine		75	Log/XLog	16	116					
Hemlock		5	Log/Pole	10	116					
Black Cherry		5	Pole/Log	8						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
101	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	1.5	96	81-110	N/A	2015-Small patch of forested lowland next to the North Branch of the Manistee and the tag alder around it. 2-5' bluff between this stand the adjacent upland.																																												
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102	6118 - Lowland Deciduous with Cedar	Poletimber Medium	31.5	79	1-50	N/A	2015 -Black ash swamp that has died off in northern part of the stand but is more of an E6 stand to the south with a heavier mix of cedar and birch. Very wet ground conditions.																																												
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103	6220 - Alder/Willow	None	38.3			No	Trout Unlimited along with Fisheries has proposed a project to fill in part of the old raceway to divert the North Branch back to its historic location.																																												
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106	4130 - Aspen	Sapling Well	25.0	7	Immature	N/A	2025- Regen is doing well. Good stem density. Scattered mature white pine were left. 2019-- Stand final harvested in 2019. It is already starting to regenerate.2015- Patchy stand but many parts are ready to go. Understory is variable: dense W3 to small openings to M3. Some areas already regenerated to aspen could be avoided in the sale. Some tamarack and beaver activity at the edge near the North Branch.																																												
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107	4319 - Mixed Upland Forest	Poletimber Medium	11.0	79	1-50	N/A	2015-2-aged stand with residual red maple and black cherry in the overstory (BA 0-30 sf) and planted white spruce and volunteer white pine in the understory. Traces of oak, balsam fir and white pine in the canopy at the edge. Former landowners maintained an opening and elevated blind in the west end which now contains spotted knapweed.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
108	42200 - Natural White Pine	Sawtimber Medium	15.2	86	51-80	N/A	2025- white pine over story is nursing along nice multi - aged hardwood regen. 2021- stand was thinned. 2015- Variable stand. Wetter along western edge. Some white pine mortality. Red maple in understory is heavily browsed. BA: 120, 160, 190.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Pole/Log	9		Beech		Low	5 - 10 feet	5 - 10 feet
Balsam Fir		5	Pole	6		Black/Red (Hybrid) Oak		Trace	5 - 10 feet	5 - 10 feet
Northern White Cedar		5	Log/Pole	10		Black Cherry		Trace	5 - 10 feet	5 - 10 feet
White Pine		80	Log/XLog	16	86	Quaking Aspen		Low	5 - 10 feet	5 - 10 feet
						Ironwood		Low	5 - 10 feet	5 - 10 feet
						Sugar Maple		Low	5 - 10 feet	5 - 10 feet
						Red Maple		Medium	5 - 10 feet	5 - 10 feet
109	429 - Mixed Upland Conifers	Sapling Well	9.9	26	1-50	N/A	2025- Mainly of planted red pine and white Spruce. Scattered mature cherry and maple, white pine is filling in the canopy gaps.2015-Two-aged stand with residual red maple and black cherry in the overstory (BA 0-30 sf) and planted white spruce in the understory (dbh 1-5").			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		15	Log/Pole	10	79					
White Spruce		40	Sapling/Pole	4	26					
White Pine		10	Pole/Sapling	7						
Red Pine		20	Pole/Sapling	5	26					
Black Cherry		15	Pole/Log	8	79					
110	42311 - Planted Spruce, Mixed Deciduous	Sapling Well	2.3	26	1-50	N/A	2025- Spruce transitioning to pole size trees.2015-Two-aged stand with residual red maple and black cherry in the overstory (BA 0-30 sf) and planted white spruce in the understory. Spruce is very dense in spots with small gaps in between the clumps.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		15	Log/Pole	10						
White Spruce		65	Sapling/Pole	4	26					
111	6112 - Lowland Aspen	Poletimber Well	20.1	55	81-110	N/A	2025-Well-stocked aspen just reaching pole size. Some patches of mostly cherry. Wetter along western edges.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		80	Pole/Sapling	6	55	Balsam Fir		Trace	5 - 10 feet	5 - 10 feet
Balsam Fir		5	Pole	6		Black Cherry		Medium	10 - 20 feet	10 - 20 feet
White Pine		5	Log	14		Red Maple		Low	10 - 20 feet	10 - 20 feet
Black Cherry		10	Pole/Sapling	5	55	Tag Alder		Low	5 - 10 feet	5 - 10 feet
112	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	17.7	76	81-110	N/A	2025- BAS: 50, 120, 90. Looks like white pine was under planted in the eastend.2015-Variable stand with patchy BA. Generally poor quality hardwoods with patches of aspen. Wetter along eastern edge. Heavy browse on understory.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		15	Log	12		Red Maple		Medium	Variable	Variable
Red Maple		40	Log/Pole	10	76	Ironwood		Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen		20	Pole	8	56	White Pine		Low	>20 feet	>20 feet
White Pine		5	Log	14						
Black Cherry		20	Log/Pole	10						

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113	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	5.4	61	141-170	N/A	2025- BAs: 180, 160, 180. Well established hardwood understory. 2015-Mediocre quality white pine plantation. Has been row-thinned. Thick understory of red maple seedlings/saplings in places but heavily browsed.																																																									
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114	330 - Low-Density Trees	None	9.1			No	Stand is a mixed bag of some cedar along the old ponds and a scotch pine pocket. Used to be the where the old buildings were at on the property. Still some remnant infrastructure in the stand.																																																									
115	6120 - Lowland Cedar	Poletimber Medium	12.8	101	1-50	N/A	A drainage running through the stand.																																																									
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116	500 - Water	None	7.4			No	Old fishiers infrastructure.																																																									
118	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.6	59	51-80	N/A	2025- Getting some cherry and red maple regen. Deer browse is an issue. 2020- stand had a TSI thinning done. 2015- clumpy stand of mainly red maple and cherry. will hold fine 10 years or could be cut now if needed. likely even age management via seed tree or final harvest is best as the stem quality is pretty poor. 2005 p.m.r. Cherry and rm sprouts-origin.7"avg dia. Low quality hardwoods.																																																									
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119	6224 - Treed Bog	None	0.4			No																																																										
120	6112 - Lowland Aspen	Poletimber Medium	89.3	59	51-80	N/A	2025. Scattered mortality, possibly due to changes in water table. North Branch of the Manistee runs through stand. Beaver activity throughout. Flowing well owners maintained a food plot in the south end, which has an elevated blind and knapweed.																																																									
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121	4117 - Mixed N. Hardwood - Pine	Poletimber Medium	5.6	79	1-50	N/A	Stand is an opening filling in. Mostly cherry and young white pine.																																															
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123	122 - Road/Parking Lot	None	4.6				2025- still some actively on this site. All infrastructure is still there. 2015- Relatively new natural gas well/EAGL site says well plugged 2011, I thought this site is still active, facility buildings still on site. mifi updated to reflect oil and gas managed site																																															
125	42350 - Upland Hemlock	Poletimber Well	7.6	97	141-170	N/A	2015 -Hemlock ridge. Very dense stocking. Unique stand.																																															
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126	6120 - Lowland Cedar	Poletimber Well	75.0	97	111-140	N/A	2015 - Some pockets of wind throw but overall a pretty dense swamp. South end of the stand has more of a deciduous component. Northern part of the stand is an ERA.																																															
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127	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	2.3	121	141-170	N/A	neat stand!! mostly hemlock.																																															
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128	4319 - Mixed Upland Forest	Poletimber Well	2.8	89	51-80	N/A	2015 - Saw 2 eagles perched in the northwest pocket there might be a nest out there somewhere. Upland islands in the middle of.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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129 6119 - Mixed Lowland Deciduous Forest Poletimber Medium 6.1 71 1-50 N/A Old black ash swamp that has died off.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	50	Pole	6	71	Black Ash	Medium	5 - 10 feet	5 - 10 feet
Paper Birch	15	Pole/Sapling	7		Red Maple	Low	5 - 10 feet	5 - 10 feet
Balsam Poplar	10	Pole	7		Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	15	Pole/Sapling	6					
Black Ash	10	Pole/Sapling	6					

130 42110 - Planted Red Pine Sawtimber Well 1.5 83 81-110 N/A 2025- Cherry and red maple developing in the understory. 2021- Stand was thinned in 2020. 2015-Small stand of red pine that could use thinning if possible. Red pine north of road is bigger. Contains various infrastructure: old dog houses, wire in trees, elevated blind. -

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log/Pole	10		Red Maple	Low	5 - 10 feet	5 - 10 feet
Red Pine	90	Log/Pole	13	83	Black Cherry	Medium	5 - 10 feet	5 - 10 feet

131 500 - Water None 1.2 No Old pond from fishery infrastructure.

134 6229 - Mixed Lowland Shrub None 4.3 No Used to have scattered black ash but it looks mostly dead. Wet or seasonally wet.

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Low	10 - 20 feet	10 - 20 feet
Blackberry/Raspberry	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen	Low	10 - 20 feet	10 - 20 feet
Tag Alder	High	5 - 10 feet	5 - 10 feet
Northern White Cedar	Low	10 - 20 feet	10 - 20 feet
Black Cherry	Low	5 - 10 feet	5 - 10 feet
Elderberry	Medium	5 - 10 feet	5 - 10 feet

135 42110 - Planted Red Pine Sapling Well 26.2 4 Immature N/A 2025 - Stands year 3 regen survey was completed 10/9/2025. Stand is currently 708 TPA and is 97% Free to grow. 2025- Trees are below 3 ft tall. Very little deciduous Competition. 2023 - Year 1 regeneration survey was completed 10/17/2023. There are currently 788 trees per acre and stand is 100% free to grow at this time.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	97	Sapling	1	4
Black Cherry	3	Sapling	1	

2023 - Stand was planted to red pine, 871 TPA6/28/2022 - Stand was Site Prep Sprayed by contact Skidder5/7/2021 - Stand was Trenched to plant red pine. 5/21/21 - stand Clearcut as part of Flowing Well Mix.Stand is predominately red maple pole timber with some scattered log sized trees. South end of stand turns a bit more M5 with a heavier component of cherry.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
136	6124 - Lowland Spruce-Fir	Sapling Medium	21.5	6	Immature	N/A	2025- Stand is filling in. Not quite fully stocked yet. Most of the spruce is still under 3ft tall. 2020- Stand was final harvested in 2020, 'Bogged Down Mix'. There were a few scattered large white pine left. There were A few islands that were left uncut as the ground was too wet. Stand has a sand bottom in some areas. Expect regen will come slowly.2015- Variable stand. Hummocky ground but much of it looks operable. Scattered wetter areas with leatherleaf.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		30	Sapling	1	6	Tag Alder		
Paper Birch		5	Sapling	1	6	Density		
Balsam Fir		10	Sapling	1	6	Avg. Height		
Black Spruce		40	Sapling	1	6	Size		
Tamarack		5	Sapling	1	6	5 - 10 feet		
White Pine		10	Sapling	1	6	5 - 10 feet		
139	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.2	89	111-140	N/A	Real hummocky ground but looks mostly upland. Some scattered cedar, hemlock and white pine. Some pockets of log sized timber.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		80	Pole/Log	9	89	White Pine		
Paper Birch		5	Pole	8		Density		
Northern White Cedar		5	Pole	8		Avg. Height		
White Pine		5	XLog	18		Size		
Black Cherry		5	Pole	8		5 - 10 feet		
400	310 - Herbaceous Openland	None	6.1			Yes	Managed rye field, planted fruit trees	
430	310 - Herbaceous Openland	None	5.4			Yes	20225- Manage rye field, recently planted fruit trees.	
480	3102 - Grass	None	10.9			Yes	Used by Camp Grayling as a Helispot and is maintained with cool season grasses.	