



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61119

Entry Year: 2026

Acreage: 2,383

County: Kalkaska

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Steve Crigier

Legal Description:

T27N R6W Sections 3 and 4; T27N R6W Sections 27, 28, 33, and 34

Identified Planning Goals:

Timber management in the Grayling Outwash management area will emphasize balancing the age class 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 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 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:

Level to rolling topography with the bulk of the compartment being Lupton Much swamp soil type. Much of the upland area also appears to have a significantly seasonally high water table which will likely make winter use of the roads for logging activity necessary.

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

Ownership to the west of the compartment is privately owned and is predominantly agricultural fields. Otherwise this compartment adjoins other state ownership and is used for forest recreation and timber production.

Unique Natural Features:

There is a great blue heron rookery within the compartment and at least one observed rare plant. A Rich Conifer Swamp ERA is present and an proposed SCA. There are several Natural River Tributaries as well within the compartment.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Several tributaries of the Manistee River flow through this compartment; these are protected by Natural Rivers designation. Significant restoration efforts have been done in this area with the assistance of the National Fish and Wildlife Foundation, Conservation Resource Alliance, Kalkaska Conservation District and the Michigan DNR.

Watershed and Fisheries Considerations:

Significant dam removal work has been done in this area to restore the Upper Manistee and Flowing Well Creek. Area was historically owned and managed by the Flowing Well Trout Farm.

Wildlife Habitat Considerations:

State land in compartment 119 is made up of two different types of glacial deposits, a till plain and an outwash plain. This compartment is also situated along the transition from mostly private lands in the center of the county to mostly public land to the west. Land use on adjacent private property to the west is largely agricultural. Major crops include beans, potatoes, corn, winter wheat, and Christmas trees.

Most of this compartment falls on the outwash plain and is characterized by poorly drained soils of peat and muck. The Baker and Flowing Well deer yards are found here and are a significant resource for deer during winter months. Habitat types found on these wet soils include lowland hardwoods, lowland brush, and lowland conifers. Minimal treatments are proposed in this area due to several reasons, accessibility issues and the proximity to large scale agriculture. Wildlife utilizing these lowland communities include white-tailed deer, bobcat, black bear, alder flycatcher, Eastern milk snake, and wood turtle.

The western edge of state land in this compartment contains some fragments of a well drained till plain. This sandy soil supports a small block of aspen and several grassy openings with good components of little bluestem. No treatments are planned for these openings due to accessibility problems and adjacent farmlands. Some wildlife utilizing these openings

include badgers, American kestrels, and hog-nosed snake.

Mineral Resource and Development Concerns and/or Restrictions

There is no known metallic mineral potential in this part of the state. No active sand/gravel pits are known to exist in the area, and potential for sand & gravel development within the compartment appears to be limited due to the predominance of wetlands across the area. The compartment is south of the northern Silurian reef and Antrim Shale hydrocarbon plays and north of the area of traditional central basin structural anticlinal plays. There continues to be some production of hydrocarbons from the Collingwood Formation approximately one mile east of the compartment. The Collingwood, however, has not been proven to be a successful economic play in the state, and there has not been any significant interest in further development of the formation in recent years. That said, in 2023, Lambda Energy leased significant acreage in the area including all State-owned mineral rights in the compartment. However, no well permit applications have been submitted for the area to date, and it is unclear what Lambda's plans in the area may be.

Vehicle Access:

There is sufficient vehicle access to the compartment however many of the roads need some major maintenance and several RDR's are within this compartment. It is recommended that this area have the roads fixed up so that they can be used for habitat/ timber management and keep them all closed when not in use.

Survey Needs:

Some addition survey work might be needed in the western portion of the compartment, pending trespass resolution.

Recreational Facilities and Opportunities:

There are no designated recreational trails or facilities within this compartment. Hunting, fishing and winter wildlife viewing are common recreational activities within this compartment.

Fire Protection:

There is limited wildfire potential in much of this compartment due to wet ground. Fire protection would be provided by the Kalkaska FRD office and Garfield Fire Department. Sections ___ are within Zone 5 zone dispatch area, meaning additional units would be dispatched from several surrounding DNR offices depending on fire danger rating.

Additional Compartment Information:

There is evidence of old lumber camps in the compartment.

The following reports from the Inventory are attached:

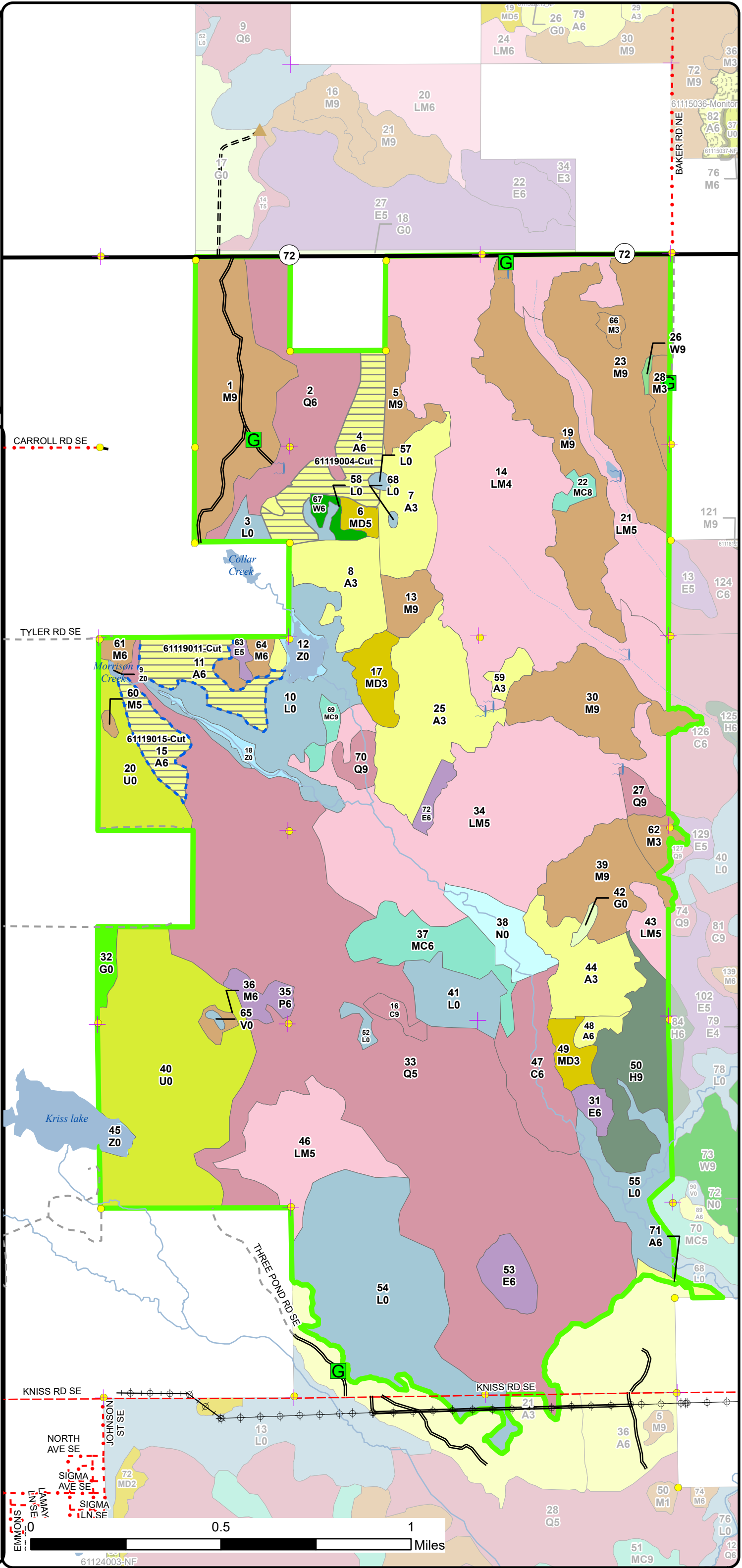
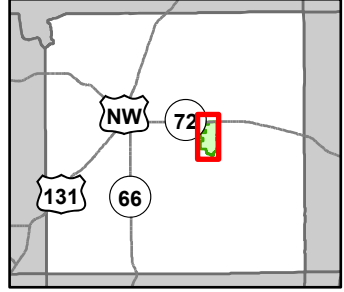
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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: 61119
 T27N, R6W, Sec: 27, 28, 33-35
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy Moraines
 YOE: 2026
 Acres: 2382.7 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 10/14/2024
 Map Phase: Post Review



- ✚ Remonumented Section Corners
- Survey Grade Corners
- ▲ Berms
- G** Gate
- ⌒ Culvert
- 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
- Active Railroads
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ⊕ Powerline
- G** Compartment Boundary
- G** Treatments with Site Conditions
- ▭ Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 211 - Cropland
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

CARROLL RD SE

TYLER RD SE

KNISS RD SE

NORTH AVE SE

SIGMA AVE SE

SIGMA LN SE

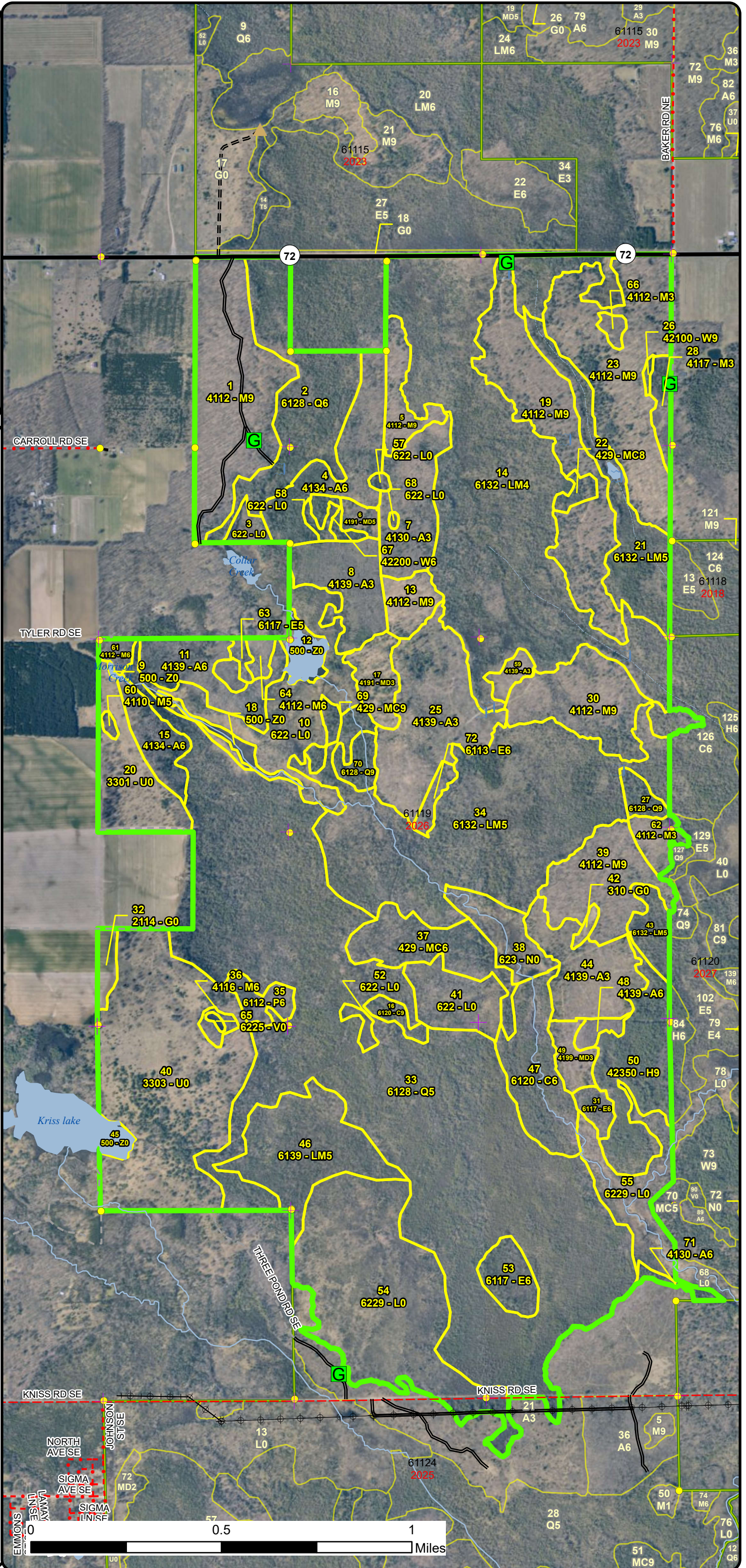
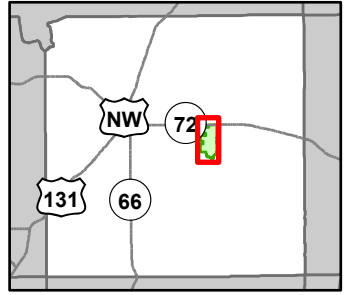
EMMONS LN SE

61124003-NF

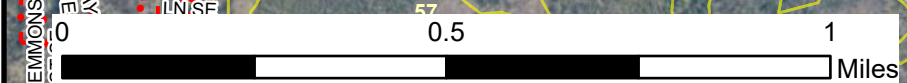


Stand Boundary Map

Compartment: 61119
 T27N, R6W, Sec: 27, 28, 33-35
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 Unit: Traverse City
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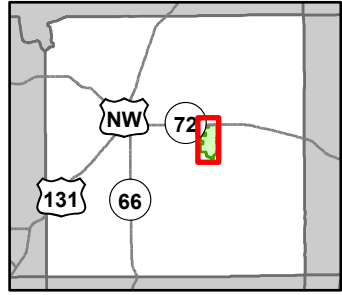


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- Culvert
- DNR - Secondary Forest Road
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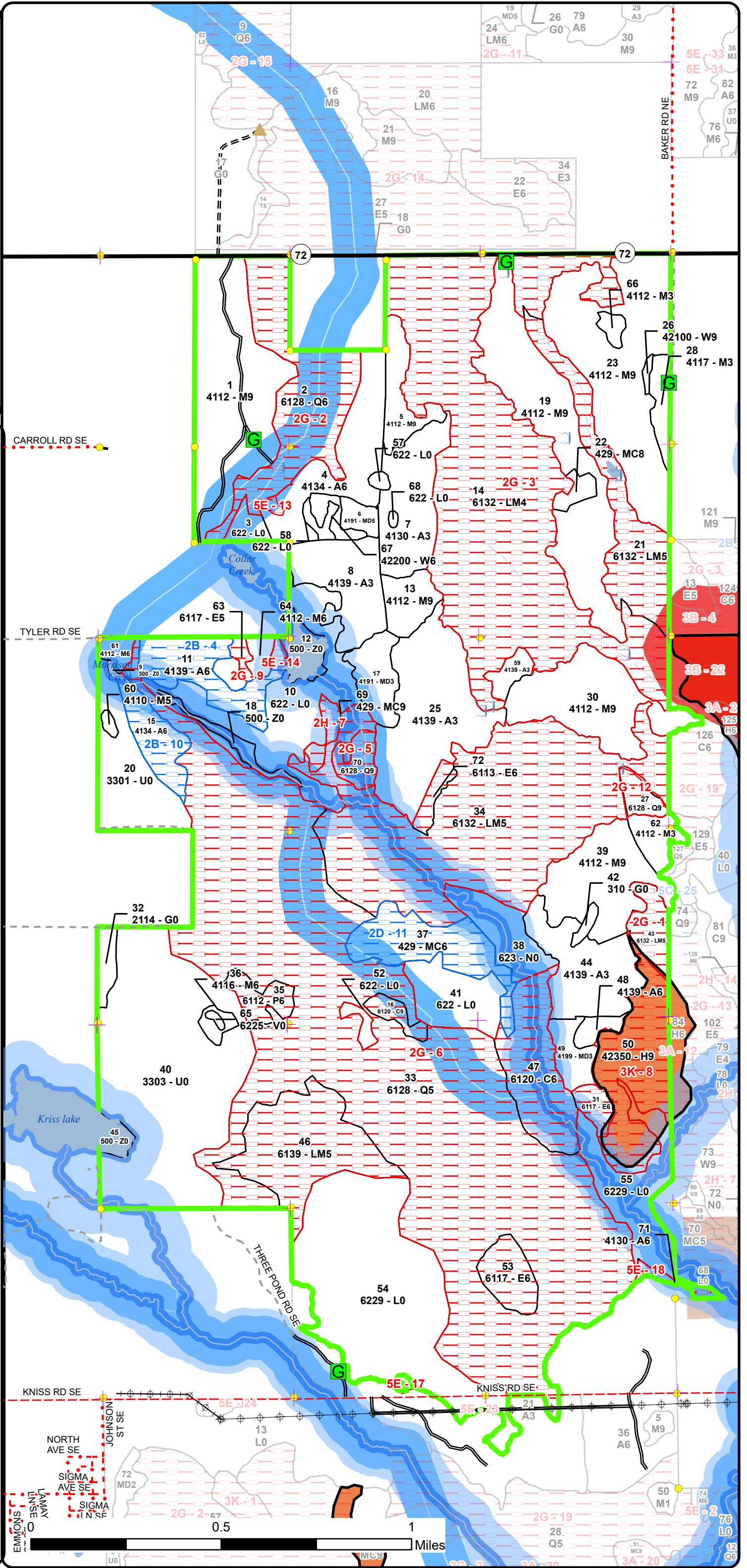
Special Conservation Areas & Site Conditions Map

Compartment: 61119
 T27N, R6W, Sec: 27, 28, 33-35
 County: Kalkaska
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- Private - Dirt / Gravel Road
- Active Railroads
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- SCA
- Available w/ Constraints
- Unavailable

- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3K: Rare or unique landforms
- 5E: Long-Term Retention
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands
- Other Habitat Area



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Unseen-Aged	Total
Aspen	0	103	0	65	4	0	87	0	0	0	0	0	0	0	0	0	0	0	259
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cedar	0	0	0	0	0	0	0	0	0	38	0	5	0	0	0	0	0	0	43
Cropland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Hemlock	0	0	0	0	0	0	0	0	0	0	0	46	0	0	0	0	0	0	46
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Low-Density Trees	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	175
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Conifers	0	0	0	0	0	0	0	0	0	465	62	8	0	0	0	0	0	6	540
Lowland Deciduous	0	0	0	0	0	0	3	6	14	0	5	0	0	0	0	0	0	0	28
Lowland Mixed Forest	0	0	0	0	0	0	0	0	53	43	432	0	0	0	0	0	0	0	527
Lowland Shrub	247	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	246
Marsh	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	25	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	30
Northern Hardwood	0	9	0	0	11	0	12	0	0	3	219	46	82	0	0	0	0	0	382
Upland Conifers	0	0	0	0	0	0	0	0	33	5	0	4	0	0	0	0	0	0	42
Water	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
White Pine	0	0	0	0	0	0	5	0	1	0	0	0	0	0	0	0	0	0	6
Total	470	137	0	65	15	5	116	6	101	51	1159	112	141	0	0	0	0	6	2381



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 119
Total Compartment Acres: 2,383

Commercial Harvest - 37
Harvests with Site Condition - 43
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshory Removal	Salvage	Other	Total Acres
Aspen		81	0	0	0	0	0	0	0	0	81
	Total	81	0	0	0	0	0	0	0	0	81

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		81	0	0	0	0	0	0	0	0	81
Next Step		0	0	0	0	0	81	0	0	0	81
	Total	81	0	0	0	0	81	0	0	0	161



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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:

4	61119004-Cut	37.4	4134 - Aspen, Spruce/Fir	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Final harvest stand. Leave red maple and fir less than 4 ". Buffer Morrisson creek appropriately. Retention around wet areas or obvious drainages. Leave all of the white pine. Treatment area maybe reduced significantly due to drainages or areas of wet ground.</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</u> Aspen, fir, white pine, spruce, red maple.</p> <p><u>Regen:</u></p> <p><u>Other</u> Some areas of low ground, winter or dry summer harvest. Access from the west needs a culvert replaces on the creek crossing (RDR submitted). Also a locked gate on the western access.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
11	61119011-Cut	26.6	4139 - Aspen, Mixed Deciduous	Poletimber Well	55	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest stand. Leave all balsam fir less than 4 inches. Mark 1-2 cherry/ac to leave. Buffer any perrenial drainages. Treatment area may change significantly due to drainages and area of wet ground.</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</u> Aspen, fir, cherry, red maple, white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Access needs to be negotiated. West side of the stand is an aspen/fir mix, east side is aspen/maple mix. Seasonal drainage in the northwest corner of the stand and another one in the southeast. Possible nest to buffer off the east side of the stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
15	61119015-Cut	16.6	4134 - Aspen, Spruce/Fir	Poletimber Well	54	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest stand. Buffer out any wet areas. Mark 1-2 cherry/ac to leave and leave all balsam fir less than 4". Acreage may changes significantly due to areas of wet ground.</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</u> aspen, fir, red maple, white pine, cherry.</p> <p><u>Regen:</u></p> <p><u>Other</u> Right now stand is land locked and access needs to be negotiated. Mix of upland and lowland ground.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

Total Treatment Acreage Proposed: 80.6

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier: Examiner

Compartment: 119
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
259	210	43	6
1	1	0	0
43	0	0	43
6	6	0	0
46	0	0	46
2	2	0	0
175	175	0	0
9	0	0	9
541	0	0	540
28	0	0	28
527	0	0	527
246	246	0	0
19	19	0	0
30	30	0	0
376	376	0	0
42	4	33	5
20	20	0	0
6	6	0	0
2,376	1,094	76	1,206
	46%	3%	51%

Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions								
					2B	2D	5C	2G	2H	3B	3K	5E	
259	210	43	6	Aspen	43								6
1	1	0	0	Bog									
43	0	0	43	Cedar				43					
6	6	0	0	Cropland									
46	0	0	46	Hemlock				0				46	
2	2	0	0	Herbaceous Openland									
175	175	0	0	Low-Density Trees									
9	0	0	9	Lowland Aspen/Balsam Poplar				9					
541	0	0	540	Lowland Conifers				540					
28	0	0	28	Lowland Deciduous				28					
527	0	0	527	Lowland Mixed Forest				527					
246	246	0	0	Lowland Shrub									0
19	19	0	0	Marsh									
30	30	0	0	Mixed Upland Deciduous									
376	376	0	0	Northern Hardwood			0	0		0			
42	4	33	5	Upland Conifers		33				5			
20	20	0	0	Water									
6	6	0	0	White Pine									
2,376	1,094	76	1,206	Total Forested Acres	43	33	0	1,148	5	0	46	7	
	46%	3%	51%	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)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier: Examiner

Compartment: 119
Year of Entry: 2026

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	62	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	280	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Very wet soils with several drainages.							
4	Available	2B: Unknown if access through adjacent landowner(s) is possible	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hoping to negotiate access from the west.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Morrison Cr runs through east part of the stand.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	778	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Very wet soils and several seasonal drainages.							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Steve Crigier: Examiner

Compartment: 119

Year of Entry: 2026

7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3K: Rare or unique landforms	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Unique stand of hemlock.							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: drainage runs through the stand							
10	Available	2B: Unknown if access through adjacent landowner(s) is possible	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hoping to negotiate access from the west.							
11	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	33	2E: Road needed	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified
Comments: Access to the stand requires frozen conditions as well as a bridge and some road work near the Morrison Cr. crossing that has been flooded out by beavers.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier: Examiner

Compartment: 119
Year of Entry: 2026

13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hoping to negotiate access from the west.							
17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	79.2	90	81-110	N/A	2023- Nice quality overstory with a fully developed hardwood understory. Stocking is variable and generally a bit lower at the north end. Terrain slopes to the east becoming wetter /softer along the east boundary. Some nice pockets of M3. More of a red maple component along the east side. Some hemlock and white pine scattered along the east side. Southeastern part of the stand is more of a pole timber stand with a bit higher stocking. BA's : 110, 130, 80, 70, 70, 50, 100, 100, 120.																																																							
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2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	62.0	104	51-80	N/A	2023 - Some areas of very sparse stocking. Collar creek runs through the stand. Very wet ground. Dense cedar and hemlock on the creek banks. 2014- nice mixed stand along creek. Heavy deer use. Thick cedar by road. south end has a LO inclusion. North by private more ash and maple.																																																							
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3	622 - Lowland Shrub	Nonstocked	5.1		Unspecified	No																																																								
4	4134 - Aspen, Spruce/Fir	Poletimber Well	38.4	50	81-110	N/A	2023 - South part of stand has a heavy mix of fir. Pretty full understory of red maple in the north. Mix of low ground throughout stand. BAs: 80, 100, 120. 2014 - stand almost big enough diameter where it would be merchantable however most is pretty small yet, especially the maple and cherry. hold until atleast next YOE. North end of stand more maple cherry mix and has one small acre open area with low density trees.																																																							
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5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.3	95	51-80	N/A	2023- Thick flush of cherry sprout after harvest. Overstory is in good shape, no wind throw on this soft ground yet. 2022 - Stand was thinned in 2021. 2014 - Nice high density stand. Good heights. Nice cherry in areas. East part of stand is on wet ground.																																																							
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6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	4.9	49	1-50	N/A	2023 - Stocking is variable but open areas are starting to filling. Aspen is a mix of age and size classes. Fir and white pine are filling in the understory.																																														
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7	4130 - Aspen	Sapling Well	33.7	25	1-50	N/A	2023- Stand is a well stocked aspen stand with scattered log size red maple. understory is predominantly red maple.																																														
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8	4139 - Aspen, Mixed Deciduous	Sapling Well	30.9	29	Immature	N/A	2023 - Nice well stocked stand, starting to self thin. Some areas are converting to pole size timber. 2014 - north end is wetter. Mixed red maple, cherry aspen and fir regen .																																														
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10	622 - Lowland Shrub	Nonstocked	55.2		Immature	No	2023- some Scattered saplings and pole timber. Morrison Cr passes through the stand.																																														
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11	4139 - Aspen, Mixed Deciduous	Poletimber Well	28.5	55	111-140	N/A	2023 - Drainage in the northwest corner. Very well stocked. Balsam fir developed in the understory. Some pockets of small diameter red maple and cherry. West half is an aspen/fir mix. East half is aspen with mixed hardwoods BAs: 150, 90, 130,																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12 500 - Water Nonstocked 9.2 No 2023 - Beaver flooding on Morrison Cr. Raptor nest at north end.

13 4112 - Maple, Beech, Cherry Association Sawtimber Well 12.5 95 51-80 N/A

2023- Stand is regenerating well with red maple and cherry. Regen is 4-5' tall. some additional wind throw after the harvest. 2022 - Stand was thinned in 2021/2014 - Nice dense stand, cherry is reaching maturity.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	35	Log/Pole	10		Red Maple	Medium	< 5 feet	Sapling
Basswood	5	Log/Pole	10		Black Cherry	Medium	< 5 feet	Sapling
Black Cherry	15	Log/Pole	12		Ironwood	Low	< 5 feet	Sapling
Red Maple	45	Log/Pole	13	95				

14 6132 - Mixed Lowland Forest with Cedar Poletimber Poor 237.4 95 1-50 N/A

2023 - Generally moderate to sparse stocking. A few pockets of dense conifer . Scattered red maple and cedar over tag alder. Creek runs through the south part of the stand. Some areas of non-forested lowland shrub.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	20	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	5	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
White Pine	5	Log/Pole	12					
Tamarack	5	Pole	6					
Red Maple	40	Pole	8	95				
Paper Birch	5	Pole	7					
Balsam Fir	20	Pole	7					

15 4134 - Aspen, Spruce/Fir Poletimber Well 16.6 54 81-110 N/A

2023- mix of upland and lowland. More of a cherry component along stand 20 and some cedar along the east boundary. Thick red maple understory.

BAs: 110, 120,

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	7		Red Maple	High	>20 feet	Sapling
Paper Birch	5	Pole	7		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	45	Pole/Log	8	54				
Black Cherry	10	Pole	8					
Balsam Fir	25	Pole	7					

16 6120 - Lowland Cedar Sawtimber Well 5.2 119 81-110 N/A

2023- Nice pocket of cedar. Several drainages including Collar Cr. A few packets of dense hemlock.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	10	Pole/Log	8		Balsam Fir	Low	Variable	Sapling
Northern White Cedar	60	Log/Pole	10	119				
Black Spruce	5	Pole	8					
Red Maple	10	Log/Pole	10					
Balsam Fir	10	Pole	8					
Paper Birch	5	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
17	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	14.7	3	1-50	N/A	2023- Stand is regenerating well to red maple and aspen. Scattered large white pine. Regen is about 5-10' tall. Drainage runs through the north part of the stand. 2022- Stand was harvested in 2022. Left a variable density of white pine and red maple. Some large diameter white pine still present. 2014 - nice mixed stand. Some more white pine and some more birch, maple, aspen fir mix. Quite a few wet areas in the stand. Is boarder line low ground.																																																						
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18	500 - Water	Nonstocked	5.3		Unspecified	No																																																							
19	4112 - Maple, Beech, Cherry Association	Sawtimber Well	72.3	95	51-80	N/A	2023- Moderate quality hardwoods. Quite a few pockets of hemlock. Blackberry is coming in thick after harvest but also a good amount of red maple and cherry. Two age classes of regen established. Some Windthrow as well. Quite a few seeps and seasonal drainages. Scattered white pine and cedar . BAs: 70, 50, 80 2022 - Stand was thinned in 2019 and is showing signs of regenerating. 2014 - Some very nice log cherry and red maple in areas. Some is pretty pulpy. Ground is fairly soft.																																																						
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20	3301 - Low Density Deciduous Trees	Nonstocked	34.5		Immature	No	2023- stand has a man made pond at the northend? Some illegal four wheeler access. Decent grass component but also some nap weed. Scattered cherry and maple.																																																						
21	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	42.5	85	51-80	N/A	2023 - very wet ground. Mostly red maple and cedar. Lots of dead and down. stand looks like it used to have a black ash overstory. 2014 - mixed Ash and lowland conifer with creek through it. Some is LO, Some Q type and some E type.																																																						
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22	429 - Mixed Upland Conifers	Sawtimber Medium	4.2	100	51-80	N/A	2023- Getting some nice hardwood and pine regen after the harvest. Stocking is a bit patchy. 2022 - Stand was thinned in 2019, nice pocket of large diameter pine and hemlock. 2014- stand thinned by previous landowner nicely managed stand but some is pretty open and west edge is a bit thicker with more red maple and cherry. Very nice logs in some areas. Also some nice sugar maple and cherry regen in areas.																																																						
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23	4112 - Maple, Beech, Cherry Association	Sawtimber Well	82.0	115	51-80	N/A	2023- Stand is regenerating well after the harvest, mostly to red maple and cherry. Two age classes established in the understory. BAs: 70, 60, 2022- Stand was thinned in 2021.Created some larger regen gaps. Western portion of the stand has more of a hemlock component and the ground is quite a bit softer. There is also a patch of wild ginseng in the stand. Check MNFI data for location.2014 - stand thinned by previous landowner Stand could hold or could use a light thin. nicely managed stand but some is pretty open and west edge is a bit thicker with more red maple and cherry. Very nice logs in some areas. Also some nice sugar maple and cherry regen in areas.																																																		
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25	4139 - Aspen, Mixed Deciduous	Sapling Well	62.3	3	Immature	N/A	2023 - stand is regenerating well. Young regen is about 5-10' tall. Aspen is 2 aged with the older stems being 21yrs old (in 2023). Mifi didn't like the 2-aged stand on this one? About 20% of the stand is 21 year old aspen. Some scattered mature white pine and birch. 2022 - Stand had the overstory removed in 2021. Several areas of wet ground in this stand. Left all aspen, pine and fir less than 4" and marked some mature pine to leave as well. 2014 - Stand looks to have had all (or at least most) of the aspen removed by previous landowner. Manage stand for understory aspen and mixed deciduous. This stand left thick enough where residual red maple, conifer, and cherry may hinder aspen regen as the crowns continue to expand out.																																																		
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26	42100 - Planted White Pine	Sawtimber Well	1.1	75	81-110	N/A	2022 - Stand was thinned in 2021. Some nice maple regen in the understory. 2014 - very small white pine stand.																																																		
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27	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	6.3	99	81-110	N/A	Mix of upland within stand. Pockets of dense conifer cover. Mix of white pine, cedar, hemlock and red maple.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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28	4117 - Mixed N. Hardwood - Pine	Sapling Well	8.0	30	Immature	N/A	2023- small patch of planted red pine at the north with wide spacing and a lot of hardwoods mixed in. Rest of the stand is very well stocked . Some scattered log size sugar maple.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	15	Sapling	3	30
Red Pine	20	Pole/Sapling	5	30
Red Maple	45	Sapling	3	30
Paper Birch	5	Sapling	3	
Sugar Maple	15	Sapling	2	

30	4112 - Maple, Beech, Cherry Association	Sawtimber Well	46.0	105	51-80	N/A	2023 - Quite a bit of this stand is on low or transition ground. Scattered white pine and pockets of hemlock. Regen is getting browsed heavily. Some additional windthrow after harvest. BAs: 70, 60, 90. 2022 - Stand was thinned in 2020. Quite a bit of wet ground in this stand. West end of the stand suffered some wind damage post harvest. 2014 - West end has some very nice black cherry logs. Some of stand was previously thinned and some was not. some advanced sugar maple and red maple present.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	30	Log/Pole	11	
Red Maple	40	Log/Pole	12	105
Black Cherry	10	Log/Pole	12	
Hemlock	10	Log/Pole	10	
Basswood	10	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Trace	Variable	Sapling
Beech	Trace	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
White Ash	Low	< 5 feet	Sapling
Black Cherry	Low	< 5 feet	Sapling
Ironwood	Medium	< 5 feet	Sapling
Red Maple	Medium	< 5 feet	Sapling

31	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	5.9	68	51-80	N/A	2023- This is apart of the stand to the north that was unable to be harvested. mo of maple, fir and aspen. Lower ground conditions.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Pole/Log	9	68
Balsam Fir	20	Pole	8	
Paper Birch	15	Pole	8	
Northern White Cedar	5	Pole	8	
Quaking Aspen	25	Pole/Log	9	68

32	2114 - Other Cropland	Nonstocked	6.1				2023- 2014 - Needs to put in survey request. looks like adjacent farmer has been working this ground for some time. irrigation appears to be on state land as well. wont know exact details until survey is in. Maybe able to work out a ingress/egress from farmer to the west as they control access to the whole side of the compartment. Possibly land swap or sell them 10 acres in exchange for an official management easement so we have permanent access to the side of the compartment. also have a deer blind on stilts that has to be moved.
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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33 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 464.5 90 1-50 N/A 2023 - Variable stand of stocking and species composition. Overall very wet ground and moderate to poor stocking. A few pockets of dense cedar and hemlock.

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	5	Pole/Sapling	7	
Paper Birch	5	Pole	6	
Northern White Cedar	35	Pole	8	90
Black Spruce	5	Pole	7	
Balsam Fir	25	Pole/Sapling	7	
White Pine	5	Pole/Log	9	
Red Maple	20	Pole	7	90

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
White Pine	Trace	Variable	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	Medium	Variable	Sapling

34 6132 - Mixed Lowland Forest with Cedar Poletimber Medium 183.4 95 1-50 N/A 2023 - very mixed stand of lowland species. Saturated ground. a few beaver dams along Morrison Cr. Stocking varies from non-forested to well stocked but is generally pretty sparse. Some areas of ash and maple regen following the die back of the black ash.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Pole/Sapling	7	95
White Pine	2	Log	14	
Paper Birch	5	Pole/Sapling	7	
Black Spruce	10	Pole/Sapling	7	
Hemlock	3	Pole	8	
Tamarack	5	Pole	8	
Balsam Fir	10	Pole/Sapling	5	
Quaking Aspen	5	Pole	8	
Northern White Cedar	25	Pole	8	95

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

35 6112 - Lowland Aspen Poletimber Well 9.2 50 1-50 N/A 2014- just coming to merchantable size. result of a habitat cut. nice mixed deciduous. most looks to be wet but may be manageable in 10 or 20 yrs.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Pole	7	
Paper Birch	10	Pole	7	
Quaking Aspen	50	Pole	7	50
Balsam Fir	15	Pole/Sapling	6	

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

36 4116 - Mixed N. Hardwood - Aspen Poletimber Well 3.2 85 81-110 N/A 2023 - Stand is up on a knoll. 2014 - West Half big red maple clump with a few sugar maple mixed in. East of small VO/LO inclusion is A6.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Pole/Log	12	85
Sugar Maple	20	Log/Pole	14	105
Quaking Aspen	40	Pole	7	

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
37	429 - Mixed Upland Conifers	Poletimber Well	32.8	78	81-110	N/A	2023- pretty even mix of upland and lowland. Red maple filling in the understory where there is mortality. The fir is approaching maturity as well as the aspen. Stand appears to have several age classes. A few remnant pine. 2014 -Nice mixed fir, spruce, maple, birch and aspen stand. South end gets pretty wet. some is upland but most appears to be pretty wet.																																																
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38	623 - Emergent Wetland	Nonstocked	19.0			No	2023- Flooded area from beaver dam on morrison creek. Recent activity																																																
39	4112 - Maple, Beech, Cherry Association	Sawtimber Well	39.4	95	51-80	N/A	2023- Stand is regenerating very well. Saplings are 5'-10' tall and is well stocked. Pockets of blackberry. Some windthrow since the harvest. Scattered hemlock. 2022 - Stand was thinned in 2019 already showing some signs of regeneration.2014 - Some M9ish and Some M6. Nice mixed stand.																																																
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40	3303 - Mixed Low Density Trees	Nonstocked	140.7		Immature	No	2013 - stand has a good amount of little blue stem. Nice wildlife opening. 2014 -Mixed opening with mainly sugar maple and cherry. fringes fillinn in with fir and white pine.																																																
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41	622 - Lowland Shrub	Nonstocked	23.5		Immature	No	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Sapling	Balsam Fir	Low	Variable	Sapling																																				
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42	310 - Herbaceous Openland	Nonstocked	2.0			No																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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43 6132 - Mixed Lowland Forest with Cedar Poletimber Medium 11.5 95 1-50 N/A 2023 - very mixed stand of lowland species. Saturated ground. Stocking varies from non-forested to well stocked but is generally pretty sparse

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	5	Pole	8		Red Maple	Medium	Variable	Sapling
Hemlock	3	Pole	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	25	Pole	8	95	Balsam Fir	Low	Variable	Sapling
White Pine	2	Log	14		Black Ash	Low	Variable	Sapling
Black Spruce	10	Pole/Sapling	7					
Paper Birch	5	Pole/Sapling	7					
Red Maple	35	Pole/Sapling	7	95				
Balsam Fir	10	Pole/Sapling	5					
Quaking Aspen	5	Pole	8					

44 4139 - Aspen, Mixed Deciduous Sapling Well 35.2 5 Immature N/A 2023- Stand has regenerated very well. Most saplings are 5-10' tall. Aspen and red maple are two-aged with the older trees being 17 (in 2023). 2022 - Stand had the overstory removed in 2019. Left some scattered log/pole sized trees and also the balsam fir less than 4".

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Sapling	1	5
Quaking Aspen	45	Sapling	1	5
Paper Birch	5	Sapling	1	5
Black Cherry	15	Sapling	1	5
Balsam Fir	5	Pole/Sapling	7	

2014 - stand looks to have had aspen cut out about 7-10 years ago. some areas still pretty thick overstory of maple & cherry.

45 500 - Water Nonstocked 4.8 Unspecified No Kniss Lake.

46 6139 - Mixed Lowland Forest Poletimber Medium 52.7 75 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
Black Ash	35	Pole/Sapling	5	75	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	15	Pole/Sapling	5					
Northern White Cedar	15	Pole/Sapling	5					
Red Maple	15	Pole/Sapling	5					
Tamarack	15	Pole/Sapling	5					

47 6120 - Lowland Cedar Poletimber Well 38.1 99 51-80 N/A 2023- Morrison Cr . flows through the stand. Portions of the stand is flooded due to beaver dams. Good mix of deciduous species.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	50	Pole/Log	8	99	Balsam Fir	Medium	Variable	Sapling
White Pine	5	Log	12		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	10	Pole	7					
Red Maple	15	Pole/Log	9					
Paper Birch	5	Pole	7					
Black Spruce	10	Pole	7					
Hemlock	5	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
48	4139 - Aspen, Mixed Deciduous	Poletimber Well	4.4	35	51-80	N/A	2023- Stand is converting to pole timber. 2014 - Younger aspen stand, nice thick stem density.																																																				
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49	4199 - Other Mixed Upland Deciduous	Sapling Well	9.9	5	Immature	N/A	2023- Stand is regenerating well. Saplings are 5'_10' tall. Scattered mature birch was left as residual. 2022 - Stand was harvested in 2019. Fir less than 4" was left 2014 - nice mixed stand. some lookes to be pretty wet.																																																				
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50	42350 - Upland Hemlock	Sawtimber Well	46.3	115	141-170	N/A	2023 - very unique stand, very dense canopy. 2014-Some is lowland some is upland. High water table. Nice thick Hemlock and cedar in areas and some more mixed deciduous with fir. Heavy Deer use area. Some drain areas through stand.																																																				
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52	622 - Lowland Shrub	Nonstocked	3.0	0		No																																																					
53	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	14.0	75	51-80	N/A	2013 - Some is upland and some is lowland.																																																				
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54	6229 - Mixed lowland shrub	Nonstocked	121.7		Unspecified	No	2013 - Some LO, Some VO, Some E4. All is very wet and low density trees at best.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
55	6229 - Mixed lowland shrub	Nonstocked	33.0		Unspecified	No	Near the confluence of Morrison Cr. and an unnamed creek																																									
57	622 - Lowland Shrub	Nonstocked	1.4	0		No																																										
58	622 - Lowland Shrub	Nonstocked	2.8	0		No																																										
59	4139 - Aspen, Mixed Deciduous	Sapling Well	5.4	3	Immature	N/A	2023 - Stand is regenerating well. Aspen is two aged with the older stems being 21 (in 2023). 2022 - Stand had the overstory removed in 2021. Several areas of wet ground in this stand. Left all aspen pine and fir less than 4" and marked some mature pine to leave as well. 2014 - Stand looks to have had all (or at least most) of the aspen removed by previous landowner. Manage stand for understory aspen and mixed deciduous. This stand left thick enough where residual red maple, conifer, and cherry may hinder aspen regen as the crowns continue to expand out.																																									
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Balsam Fir	5	Sapling/Pole	3	22																																												
60	4110 - Sugar Maple Association	Poletimber Medium	1.3	51	1-50	N/A	2023- small pocket of hardwoods just transitioning to pole timber.																																									
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61	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.2	55	111-140	N/A	2023- Hardwood pole stand of red maple and cherry. Moderate quality. Appears to have a small seep in the northwest corner. some sugar maple in the understory.																																									
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62	4112 - Maple, Beech, Cherry Association	Sapling Well	9.3	5	Immature	N/A	2023- Stand has regenerated very well. Saplings are 5'-10' tall and stocking is very dense. Some scattered mature maples left as seed sources and shelter. 2022 - Stand was harvested in 2019. Stand had a shelterwood/seed tree harvest completed leaving scattered log and pole size maple. Some regeneration coming up but deer have been browsing it pretty heavily. 2014 - Some M9ish and Some M6. Nice mixed stand.																																									
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Sugar Maple	15	Sapling	1	5																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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63 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 2.7 55 1-50 N/A 2023- Wooded drainage.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
Balsam Fir	20	Pole/Sapling	6					
Paper Birch	55	Pole/Sapling	6	55				
Quaking Aspen	10	Pole	8					

64 4112 - Maple, Beech, Cherry Association Poletimber Well 7.1 55 111-140 N/A 2023- Hardwood pole stand of red maple and cherry and some scattered aspen. Moderate quality. Clumpy red maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Pole	8		Red Maple	Medium	Variable	Sapling
Paper Birch	5	Pole	7		Ironwood	Trace	< 5 feet	Sapling
Black Cherry	30	Pole	7	55				
Quaking Aspen	10	Pole/Log	9	55				
Red Maple	45	Pole	7	55				

65 6225 - Bog Nonstocked 0.8 0 No Vernal pond

66 4112 - Maple, Beech, Cherry Association Sapling Well 2.9 30 Immature N/A 2023- Very well stocked with saplings.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	25	Sapling	2	
Red Maple	45	Sapling	3	30
Paper Birch	5	Sapling	3	
Black Cherry	25	Sapling	3	30

67 42200 - Natural White Pine Poletimber Well 4.7 50 111-140 N/A 2023 - stand provides nice dense cover. Some large log sized fine but mostly pole size trees. Mix of low ground. Some jack pine on the east side of the stand. BA : 140, 80,

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	10	Pole	8		Black Cherry	Low	Variable	Sapling
White Pine	75	Pole/Log	8	50	White Pine	Low	Variable	Sapling
Balsam Fir	10	Pole	7					
Quaking Aspen	5	Pole	8					

68 622 - Lowland Shrub Nonstocked 0.6 0 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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69 429 - Mixed Upland Conifers Sawtimber Well 4.9 80 111-140 N/A 2023- Small upland ridge. Heavily used by deer. Looks to be fire originated. Mostly white pine and red maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Log/Pole	12	80	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	20	Pole	8		White Pine	Low	Variable	Sapling
Paper Birch	5	Pole/Log	9					
Hemlock	5	Log/Pole	10					
Quaking Aspen	5	Log/Pole	10					
White Pine	40	Log/Pole	13	80				

70 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 8.0 119 111-140 N/A 2023- Dense stocking. Mostly low ground with a few knolls of higher ground. Mostly hemlock with a mix of red maple and birch.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	3	Pole/Log	9		Balsam Fir	Trace	Variable	Sapling
Red Maple	20	Log/Pole	12					
Northern White Cedar	25	Log/Pole	11					
Paper Birch	2	Log/Pole	10					
Hemlock	50	Log/Pole	10	119				

71 4130 - Aspen Poletimber Well 3.4 56 51-80 N/A BMP buffer/long term retention.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	8	56	Red Maple	Medium	Variable	Sapling
Quaking Aspen	60	Pole	8	56	Balsam Fir	Low	Variable	Sapling
Balsam Fir	10	Pole/Sapling	5					
Black Cherry	15	Pole	8	6				

72 6113 - Lowland Maple Poletimber Well 5.1 90 81-110 N/A 2023 - Part of the original st 25 but the ground is too wet to operate on.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	5	Pole/Log	8		Black Ash	Medium	5 - 10 feet	Sapling
Red Maple	75	Pole/Log	9	90	Red Maple	Low	Variable	Sapling
Northern White Cedar	10	Pole/Log	9		Balsam Fir	Trace	Variable	Sapling
Balsam Fir	10	Pole	8					