



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61127

Entry Year: 2026

Acreage: 3,107

County: Kalkaska

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Paul Roell

Legal Description:

T25N R6W Sections 3, 4, and 5; T26N R6W Sections 27, 28, 29, 32, 33, and 34

Identified Planning Goals:

Management in the Kalkaska Sandy Moraines area will emphasize continuing to balance the age class of aspen on suitable sites, the thinning the northern hardwoods, balancing age classes of red pine and jack pine and regenerating the aging oak resource. Management will strive to sustainably produce various forest products; enhance game and non-game wildlife habitat; protect areas of unique character and provide for forest-based recreational uses. Expected trends within this 10-year planning period are increased recreational pressure, managing oil and gas development, introduced pests and diseases and the difficulty in regenerating oak.

Soil and topography:

Most of the upland is Rubicon sand or Croswell sand. The lowland is mostly Tawas-Lupton mucks or other associations. The compartment is relatively flat with some slopes near the Manistee River and the lower end of the North Branch of the Manistee River.

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

There are small scattered private parcels along the Manistee River in the south end of this compartment. Some private holdings are within the compartment. The surrounding area is fairly remote with a majority of State Ownership to the east and north.

Unique Natural Features:

None known at this time.

Archeological, Historical, and Cultural Features:

There are no official records at this time but there are areas of concern within Section 29.

Special Management Designations or Considerations:

The Manistee River and its tributaries are protected by Natural Rivers designation.

Watershed and Fisheries Considerations:

The Manistee River and the North Branch of the Manistee River are both Designated Trout Streams and Natural Rivers. The Manistee River is one of the most popular trout streams in Michigan and has excellent populations of wild brook and brown trout. The North Branch of the Manistee has an excellent population of wild brook trout.

Wildlife Habitat Considerations:

Compartment 127 is in south central Kalkaska County and is bordered on the south by the Manistee River. Three types of glacial outwash plains comprise the geology of this compartment. Most of the compartment is state owned with scattered in-holdings of private, mainly along the North and main branches of the Manistee River. There is little state owned river frontage in this compartment.

The most prevalent type of outwash plain consists of a mosaic of poorly drained and excessively drained sands, with some poorly drained organic soils. This variety of moisture content supports many habitat types including grassy openings, mixed upland and lowland aspen communities, bogs, and lowland brush. Two communities that appear to be underrepresented presently are northern hardwoods and conifer swamps. Aspen cuts should include the creation of coarse woody debris, retention of snags if not a safety hazard, and protection of nest trees. Openings a component of native warm season grasses ideally should be prescribed to burn and have additional native grasses and forbs seeded.

The second most prevalent outwash plain consists of poorly drained organic soils. This area supports large acreages of lowland conifers and lowland brush. Currently there are no scheduled habitat projects within these communities. However, several annual herbaceous plantings adjacent to this lowland complex should be continued and/or converted to perennial species. These plantings provide fall and early spring forage for yarding deer. Many other wildlife species make use of these lowland communities, including: Blackburnian warbler, northern saw-whet owl, red squirrel, and wood frog.

The remaining outwash plain consists of excessively drained sands which supports several pine plantations, aspen, and upland brush communities. Originally, this land type was dominated by fire dependant conifer communities and localized northern hardwood forests, both of which are now greatly reduced in extent. Opportunities to manage for fire dependent communities on this land type should be pursued. As existing pine plantations mature and are harvested, they could be replaced with fire dependant communities, or more “natural” plantations that mimic fire dependant communities. A variety of species make use of habitats found on these dry sandy soils, including Kirtland’s warbler, ruffed grouse, Eastern box turtle, and badger.

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. The nearest past production is from Devonian carbonates and the St. Peter Sandstone more than two miles southeast. In 2023, Lambda Energy leased significant acreage in the area including most 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. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

There is sufficient vehicle access within the compartment.

Survey Needs:

None known at this time.

Recreational Facilities and Opportunities:

A short stretch of the Cranberry Snowmobile/Kalkaska Route ORV trail runs through the northeast part of the compartment. Appropriate trail protection specifications should be added to the timber sale contracts to reduce potential impacts to trails where treatments are prescribed.

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 4, 5, 27, 32, 33, and 34 are within Zone 5 zone dispatch area, meaning additional units would be dispatched from the Grayling and Houghton Lake DNR offices depending on fire danger rating.

Additional Compartment Information:

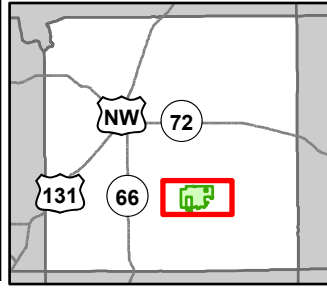
The following reports from the Inventory are attached:

- 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:

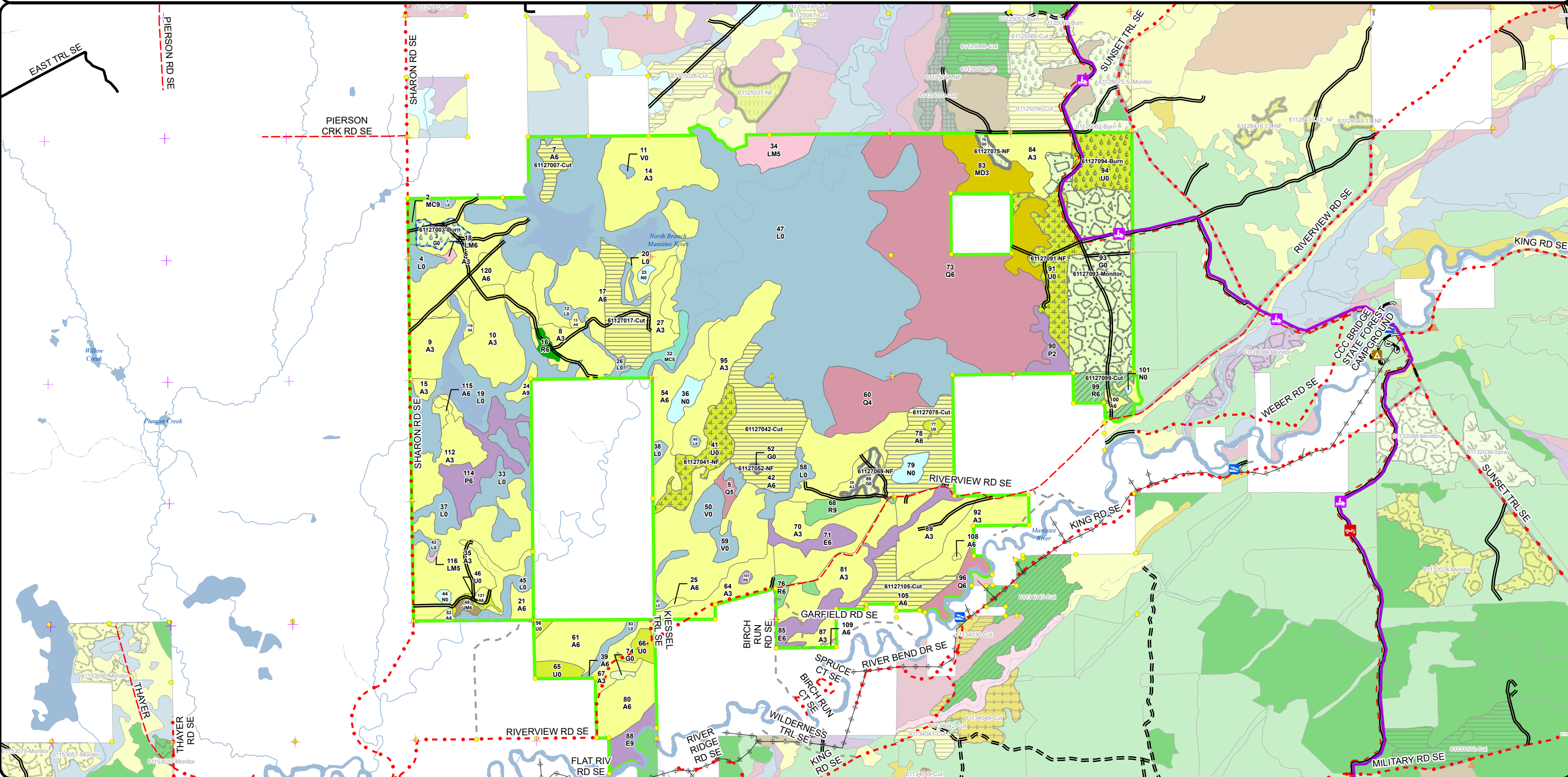
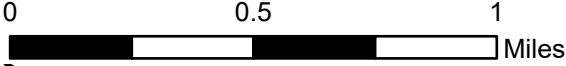
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

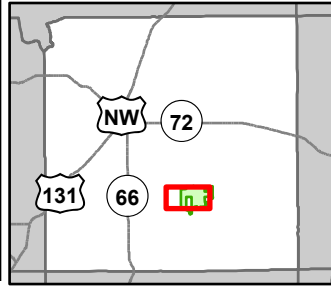


Compartment: 61127
 T26N, R6W, Sec: 27-29, 32-34
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy
 Moraines
 YOE: 2026
 Acres: 3107.5 GIS Calculated
 Examiner: Paul Roell
 Map Revised: 10/14/2024
 Map Phase: Post Review

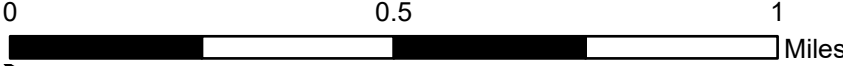
- | | | | | |
|------------------------------|---------------------------------------|---------------------------------|-----------------------------------|---------------------------------|
| Berms | DNR - Primary Forest Road | Lake/Pond | Thinning (Crown, Low, Systematic) | 611 - Lowland Deciduous Forest |
| Boating Access Site | DNR - Secondary Forest Road | Perennial River | Regeneration Survey | 612 - Lowland Coniferous Forest |
| Culvert | DNR - Forest Access Route | Powerline | Opening Maintenance | 613 - Lowland Mixed Forest |
| Campground | Federal / State / County - Paved Road | Lakes and Rivers | 413 - Aspen Types | 310 - Herbaceous Openland |
| Survey Grade Corners | County - Gravel Road | Compartment Boundary | 419 - Mixed Upland Deciduous | 330 - Low Density Trees |
| Remonumented Section Corners | County - Dirt Road (Seasonal) | Treatments with Site Conditions | 421 - Planted Pines | 622 - Lowland Shrub |
| ORV Routes | Private - Dirt / Gravel Road | Other Treatment - See Comments | 422 - Natural Pines | 623 - Emergent Wetland |
| Snowmobile Trails | Intermittent Stream | Clearcut (w/Reserves) | 429 - Mixed Upland Conifers | 430 - Upland Mixed Forest |
| Designated ORV Routes | Island in Lake or River | Prescribed Burn | | |



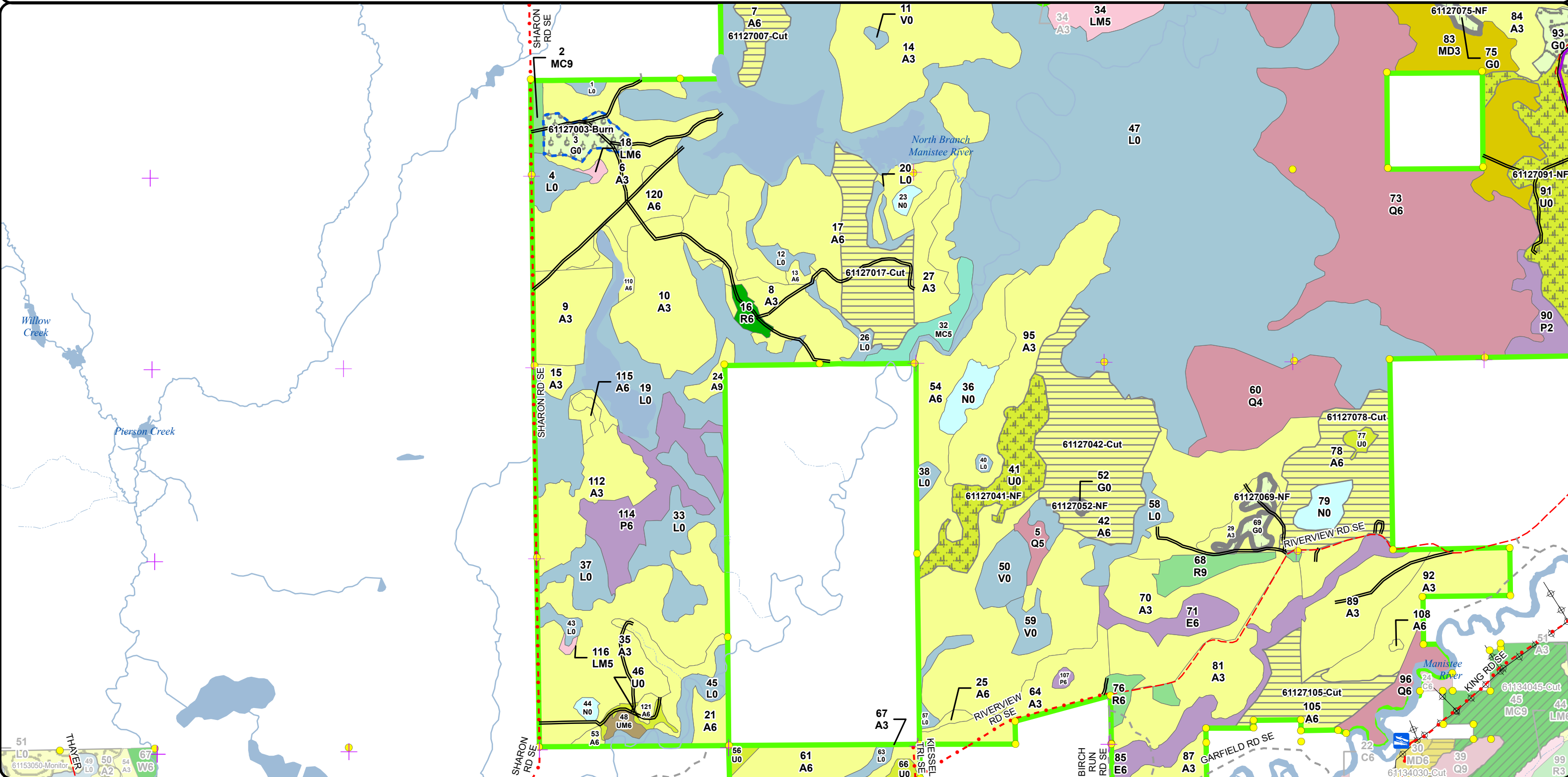
Cover Type & Treatments Map



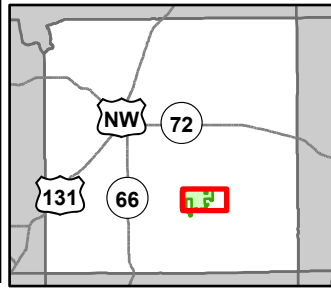
Compartment: 61127
 T26N, R6W, Sec: 27-29, 32-34
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy
 Moraines
 YO: 2026
 Acres: 3107.5 GIS Calculated
 Examiner: Paul Roell
 Map Revised: 10/14/2024
 Map Phase: Post Review



- | | | | | |
|-------------------------------|------------------------------|---------------------------------|--------------------------------|---------------------------------|
| Boating Access Site | Private - Dirt / Gravel Road | Compartment Boundary | 413 - Aspen Types | 612 - Lowland Coniferous Forest |
| Survey Grade Corners | Intermittent Stream | Treatments with Site Conditions | 419 - Mixed Upland Deciduous | 613 - Lowland Mixed Forest |
| Remonumented Section Corners | Island in Lake or River | Other Treatment - See Comments | 421 - Planted Pines | 310 - Herbaceous Openland |
| Designated ORV Routes | Lake/Pond | Clearcut (w/Reserves) | 422 - Natural Pines | 330 - Low Density Trees |
| DNR - Secondary Forest Road | Perennial River | Prescribed Burn | 429 - Mixed Upland Conifers | 622 - Lowland Shrub |
| County - Gravel Road | Powerline | Regeneration Survey | 430 - Upland Mixed Forest | 623 - Emergent Wetland |
| County - Dirt Road (Seasonal) | Lakes and Rivers | Opening Maintenance | 611 - Lowland Deciduous Forest | |



Cover Type & Treatments Map



Compartment: 61127
 T26N, R6W, Sec: 27-29, 32-34
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy
 Moraines
 YOE: 2026
 Acres: 3107.5 GIS Calculated
 Examiner: Paul Roell
 Map Revised: 10/14/2024
 Map Phase: Post Review



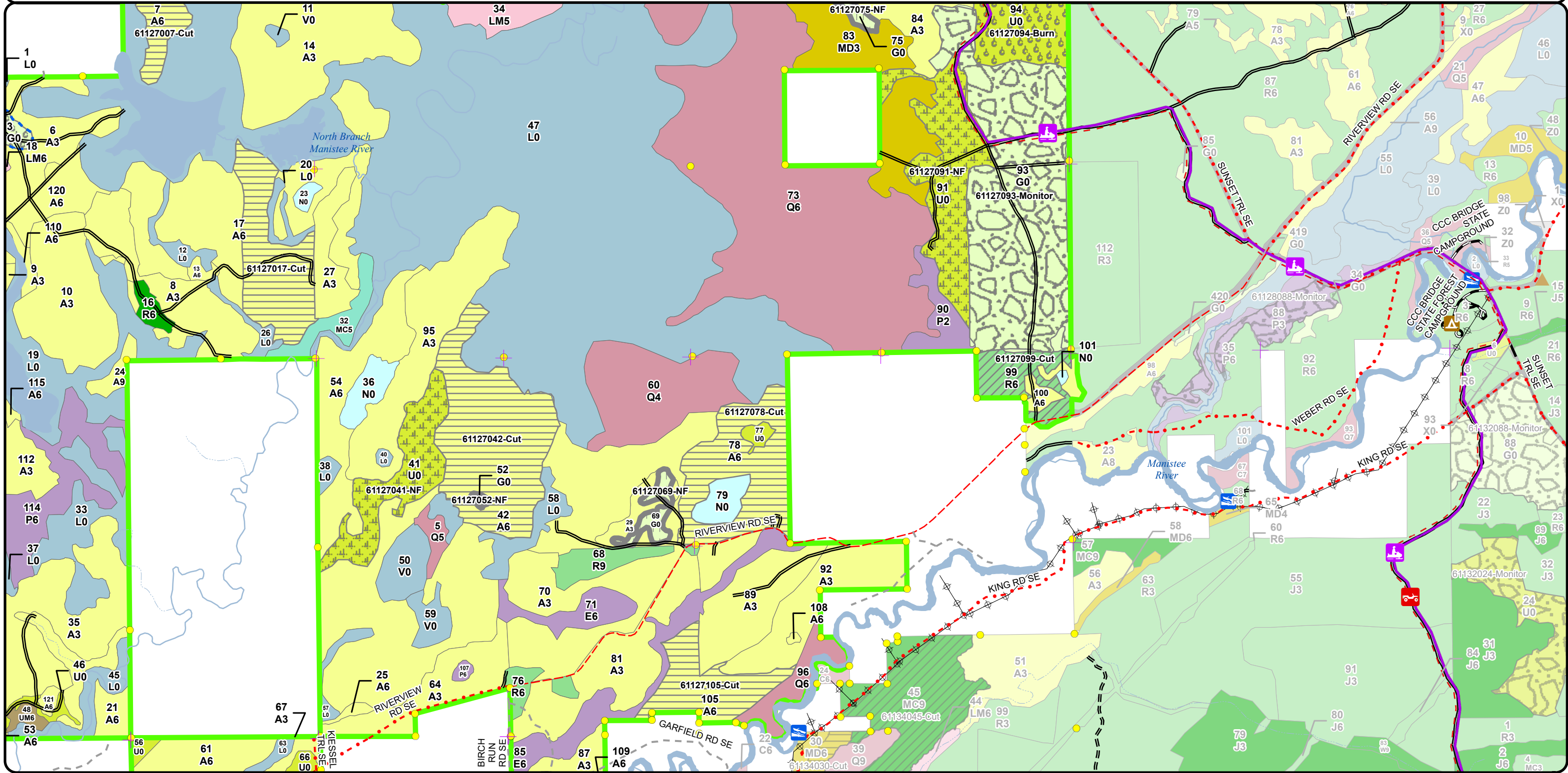
- Berms
- Boating Access Site
- Campground
- Survey Grade Corners
- Remonumented Section Corners
- ORV Routes
- Snowmobile Trails
- Designated ORV Routes

- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River

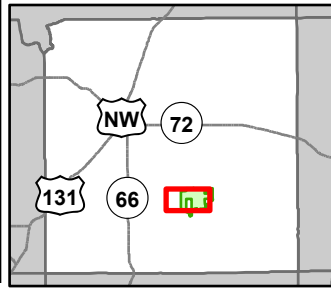
- Lake/Pond
- Perennial River
- Powerline
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Prescribed Burn

- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Opening Maintenance
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest

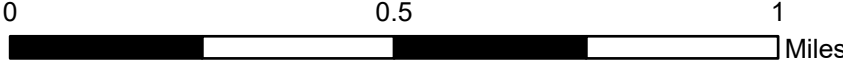
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Stand Boundary Map



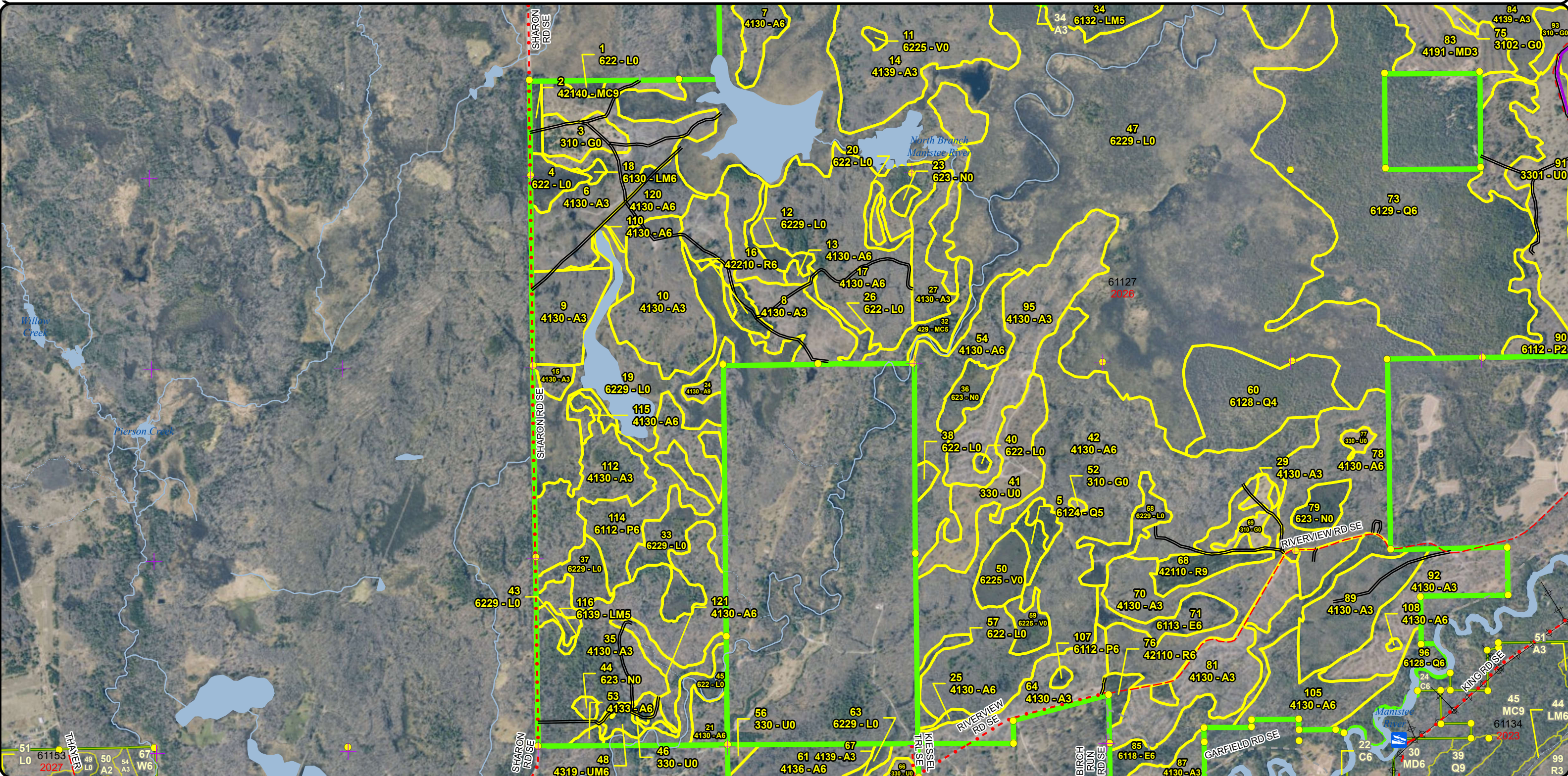
Compartment: 61127
 T26N, R6W, Sec: 27-29, 32-34
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy
 Moraines
 YOE: 2026
 Acres: 3107.5 GIS Calculated
 Examiner: Paul Roell
 Map Revised: 10/14/2024
 Map Phase: Post Review



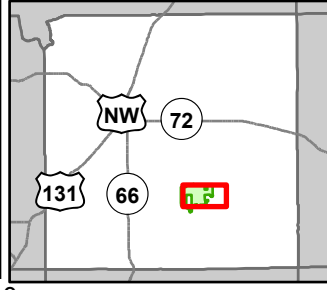
- Boating Access Site
- Survey Grade Corners
- Remonumented Section Corners
- Designated ORV Routes
- DNR - Secondary Forest Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Powerline
- Lakes and Rivers
- Compartment Boundary

- Stand Boundaries
- 612 - Lowland Coniferous Forest
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest

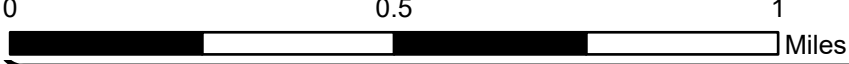
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Stand Boundary Map



Compartment: 61127
 T26N, R6W, Sec: 27-29, 32-34
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy
 Moraines
 YOE: 2026
 Acres: 3107.5 GIS Calculated
 Examiner: Paul Roell
 Map Revised: 10/14/2024
 Map Phase: Post Review

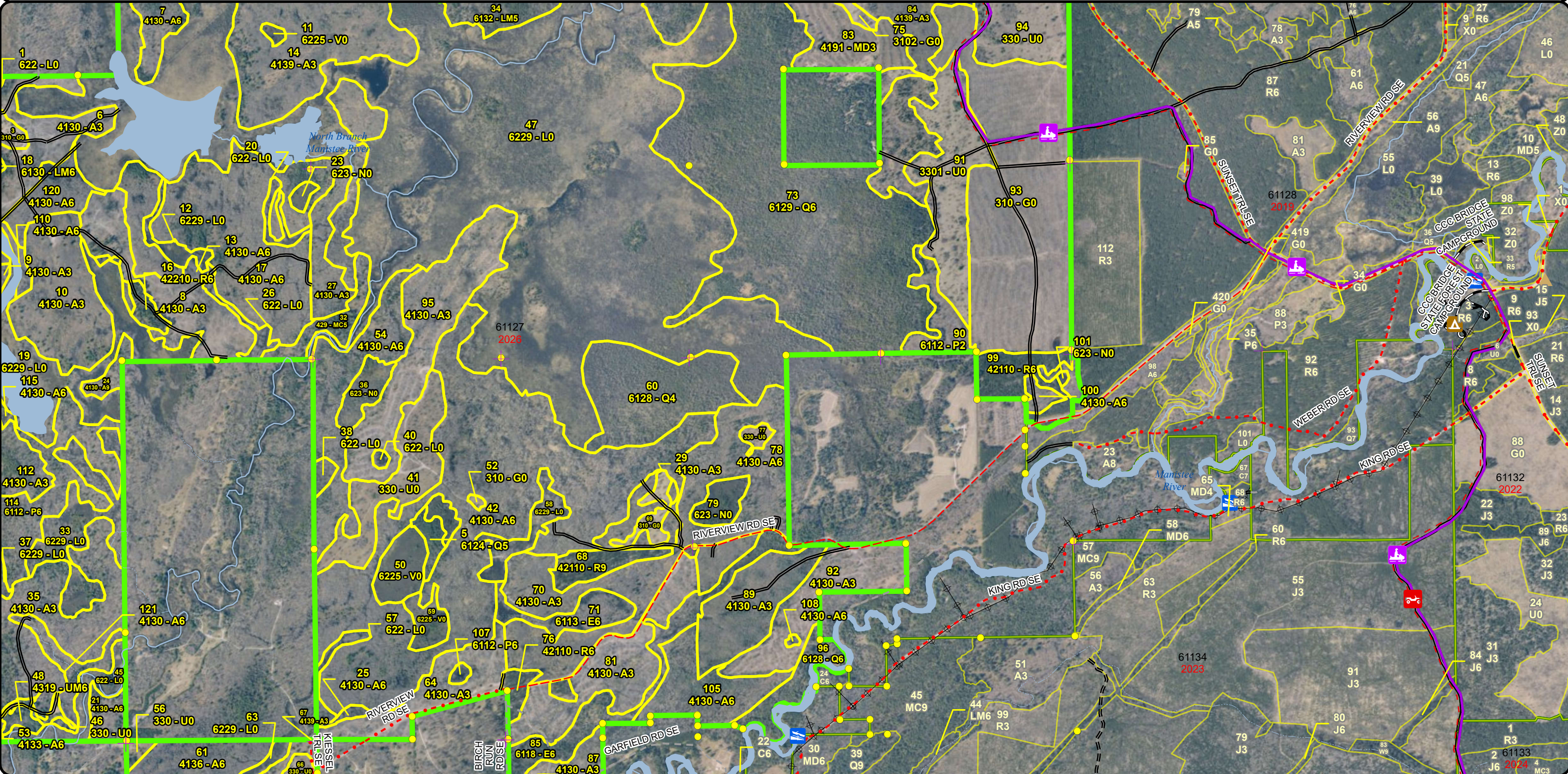


- Berms
- Boating Access Site
- Campground
- Survey Grade Corners
- Remonumented Section Corners
- ORV Routes
- Snowmobile Trails

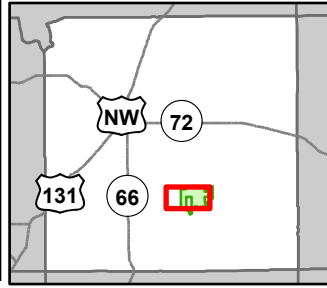
- Designated ORV Routes
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road

- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Powerline
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries

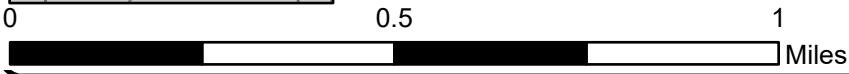
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



Special Conservation Areas & Site Conditions Map

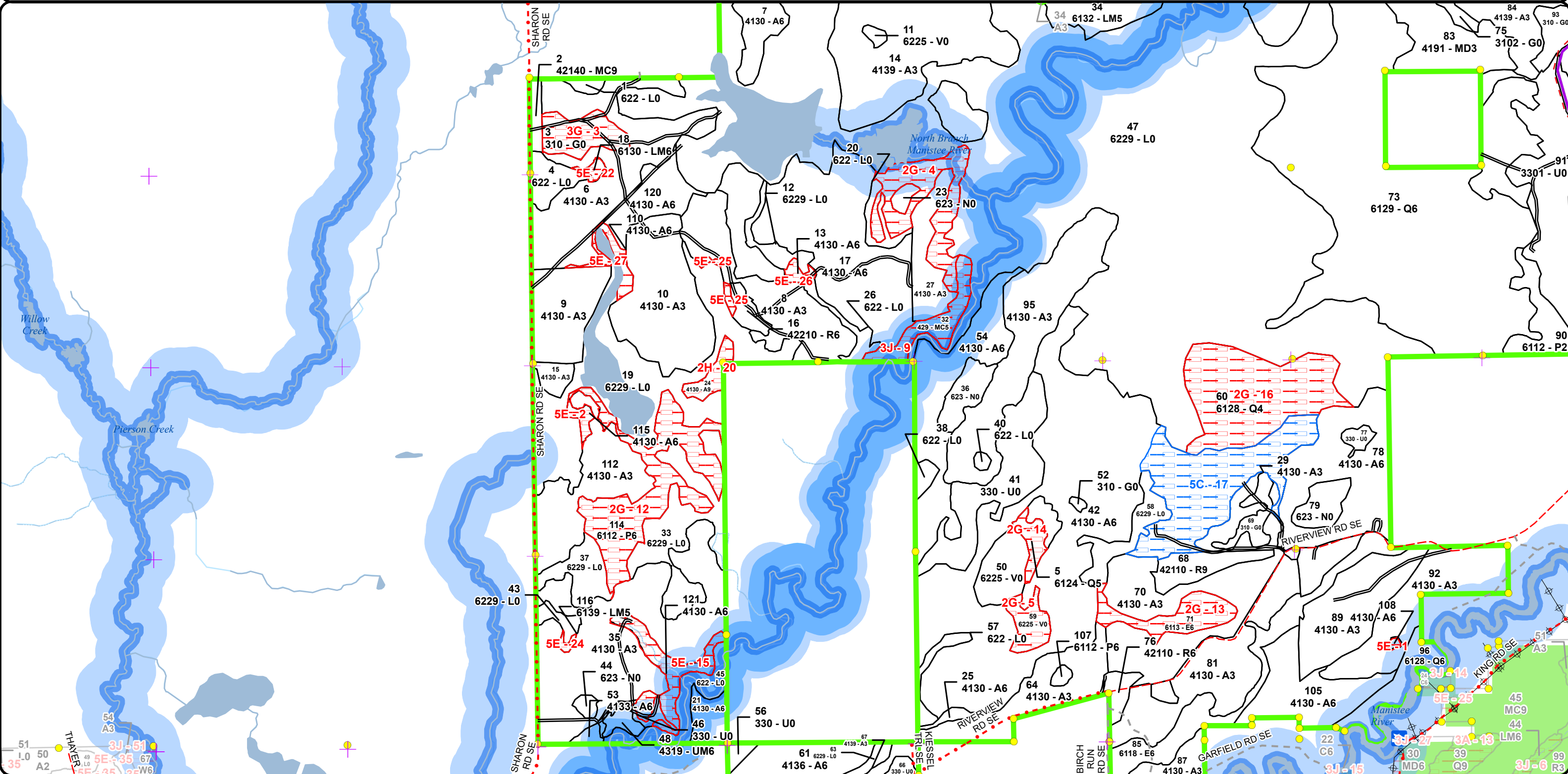


Compartment: 61127
 T26N, R6W, Sec: 27-29, 32-34
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy Moraines
 YOE: 2026
 Acres: 3107.5 GIS Calculated
 Examiner: Paul Roell
 Map Revised: 10/14/2024
 Map Phase: Post Review



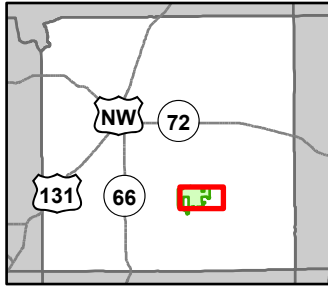
- Boating Access Site
- Survey Grade Corners
- Remonumented Section Corners
- Designated ORV Routes
- DNR - Secondary Forest Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Powerline
- Lakes and Rivers
- Cold Water Streams
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality

- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- High Priority Trout Stream Buffer



Special Conservation Areas & Site Conditions Map

Compartment: 61127
 T26N, R6W, Sec: 27-29, 32-34
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy Moraines
 YOE: 2026
 Acres: 3107.5 GIS Calculated
 Examiner: Paul Roell
 Map Revised: 10/14/2024
 Map Phase: Post Review

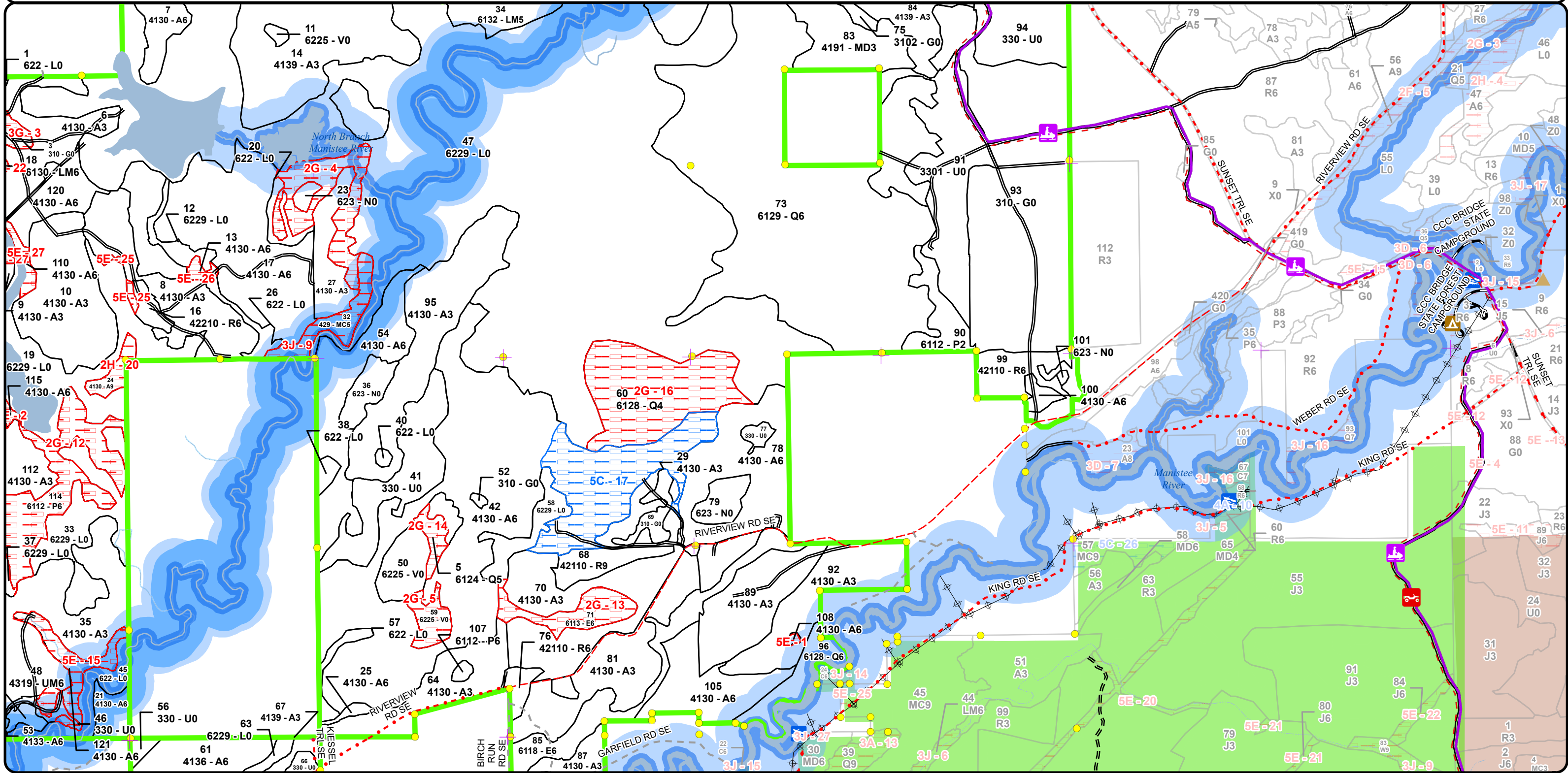


- Berms
- Boating Access Site
- Campground
- Survey Grade Corners
- Remonumented Section Corners
- ORV Routes
- Snowmobile Trails

- Designated ORV Routes
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River

- Lake/Pond
- Perennial River
- Powerline
- Lakes and Rivers
- Cold Water Streams
- Compartment Boundary
- Available w/ Constraints
- Unavailable

- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands



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	435	214	69	51	224	234	37	64	5	0	0	0	0	0	0	0	0	1331
Bog	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Herbaceous Openland	163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	163
Low-Density Trees	146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	146
Lowland Aspen/Balsam Poplar	0	14	0	0	0	0	1	40	0	0	0	0	0	0	0	0	0	0	55
Lowland Conifers	0	0	0	0	0	0	0	0	0	5	261	52	0	0	0	0	0	0	318
Lowland Deciduous	0	0	0	0	0	0	0	31	0	14	17	0	0	0	0	0	0	0	62
Lowland Mixed Forest	0	0	0	0	23	0	0	1	2	0	0	0	0	0	0	0	0	0	26
Lowland Shrub	841	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	841
Marsh	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	0	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
Red Pine	0	0	0	0	0	0	31	7	5	0	0	0	0	0	0	0	0	0	43
Upland Conifers	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12
Upland Mixed Forest	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
Total	1198	506	214	69	74	224	269	116	71	24	290	56	0	0	0	0	0	0	3109



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 127
Total Compartment Acres: 3,107

Commercial Harvest - 227
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	Overshory Removal	Salvage	Other	Total Acres
Aspen	208	0	0	0	0	0	0	0	0	208
Red Pine	0	0	0	0	0	19	0	0	0	19
Total	208	0	0	0	0	19	0	0	0	227

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	227	0	0	0	50	0	133	0	96	506
Next Step	0	0	0	0	84	133	208	0	50	475
Total	227	0	0	0	134	133	341	0	146	980



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

Approved Treatments:

3	61127003-Burn	13.0	310 - Herbaceous Openland	Nonstocked		Unspec ified	Burn	Opening	31022 - Warm Season Grass		No
<p><u>Prescription</u> Burn this stand at least once per entry period in order to set back woody encroachment, increase species diversity, stimulate native herbaceous vegetation, promote berry production, and recycle nutrients.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting</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> Other Influence Zones</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
7	61127007-Cut	13.8	4130 - Aspen	Poletimber Well	58	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand to regenerate aspen. Leave all red pine and oak. Use minimal area retention to protect wet areas.</p> <p><u>Specs:</u></p> <p>include drum log spec.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, red maple, and mixed conifer</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> 10/1 /2025</p>											
17	61127017-Cut	41.3	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand to regenerate aspen. Leave all white pine and oak. Use minimal area retention to protect wet areas.</p> <p><u>Specs:</u></p> <p>Include drum log spec</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, red maple, and mixed conifer</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> 10/1 /2025</p>											



S
t
a
n
d

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

41 61127041-NF 34.7 330 - Low-Density Nonstocked Unspec NonForestMgt Other - Specify 3105 - Mixed Upland Herbaceous No

Prescription Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.

Specs:

Next Step Burn, Opening

Treatments:

Acceptable Regen:

Other Comment: A portion of this stand was at one time a wildlife food plot.

Site Condition:

Proposed Start Date: 10/1 /2025

42 61127042-Cut 75.7 4130 - Aspen Poletimber 50 81-110 Harvest Clearcut with Retention 413 - Aspen Even-Aged No

Prescription Final harvest stand to regenerate aspen. Leave all white pine and oak. Use minimal area retention to protect wet areas.

Specs: Include drum log spec

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: aspen, red maple, and mixed conifer

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

52 61127052-NF 0.7 310 - Herbaceous Nonstocked Unspec NonForestMgt Herbaceous/Crop/ Grass Planting 3105 - Mixed Upland Herbaceous No

Prescription This opening is a traditional wildlife planting. Plant to annual rye. Consider alternative seed mixes as soil conditions allow. Resulting forage should be suitable for early spring and late fall grazing. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



S
t
a
n
d

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

69	61127069-NF	6.8	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/ Grass Planting	3105 - Mixed Upland Herbaceous	No
----	-------------	-----	---------------------------	------------	--	-------------	--------------	---------------------------------	--------------------------------	----

Prescription This opening is a traditional wildlife planting. Plant to annual rye. Consider alternative seed mixes as soil conditions allow. Resulting forage
Specs: should be suitable for early spring and late fall grazing. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

75	61127075-NF	4.3	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop/ Grass Planting	31021 - Cool Season Grass	No
----	-------------	-----	--------------	------------	--	-------------	--------------	---------------------------------	---------------------------	----

Prescription This opening is a traditional wildlife planting. Plant to annual rye. Consider alternative seed mixes as soil conditions allow. Resulting forage
Specs: should be suitable for early spring and late fall grazing. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

78	61127078-Cut	47.8	4130 - Aspen	Poletimber Well	41	81-110	Harvest	Clearcut with Retention	413 - Aspen Even-Aged	No
----	--------------	------	--------------	-----------------	----	--------	---------	-------------------------	-----------------------	----

Prescription Final harvest stand to regenerate aspen. Leave all white pine and oak. Use minimal area retention to protect wet areas.

Specs: include drum log spec

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

Acceptable aspen, red maple and mixed conifer
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



S
t
a
n
d

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

91 61127091-NF 49.0 3301 - Low Density Nonstocked Unspec NonForestMgt Other - Specify 3105 - Mixed Upland Herbaceous No

Prescription Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.

Specs:

Next Step Burn, Opening

Treatments:

Acceptable Regen:

Other Comment: The south end of this stand was at one time maintained wildlife food plot.

Site Condition:

Proposed Start Date: 10/1 /2025

93 61127093-Monitor 132.7 310 - Herbaceous Nonstocked 0 Unspec Monitoring Artificial Regen(3yr) 4211 - Planted Red Pine Even-Aged No

Prescription

Specs:

Next Step Pesticide, Aerial - Release

Treatments:

Acceptable Regen: Planted red pine at acceptable stocking.

Other Comment: Percent to Treat = 100%

Site Condition:

Proposed Start Date: 10/1 /2025

94 61127094-Burn 37.4 330 - Low-Density Nonstocked Unspec Burn Opening 31022 - Warm Season Grass No

Prescription Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on currents needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Specs:

Next Step NonForestMgt, Other - Specify

Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
99 61127099-Cut	18.8	42110 - Planted Red Pine	Poletimber Well	58	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> thin stand to a target residual basal area of 120 square feet per acre. remove suppressed and poor formed trees</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></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
105 61127105-Cut	29.5	4130 - Aspen	Poletimber Well	65	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest stand to regenerate aspen. Access stand off of Riverview Rd through stand 81 or a skid trail that runs south from stand</p> <p><u>Specs:</u> 92Include drum log spec</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, red maple and mixed conifer</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Total Treatment Acreage Proposed: 505.5

Report 4 – Site Conditions

Traverse City Mgt. Unit
Paul Roell: Examiner

Compartment: 127
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions						
		With Condition				2B	5C	2G	2H	3G	3J	5E
1332	1084	189		59	Aspen	8	181	24	5		0	30
26	18	0		8	Bog			8				
163	150	0		13	Herbaceous Openland					13		
146	146	0		0	Low-Density Trees							
55	15	0		40	Lowland Aspen/Balsam Poplar			40				
318	0	0		318	Lowland Conifers			302			16	
61	31	0		30	Lowland Deciduous			14			16	
26	23	0		2	Lowland Mixed Forest							2
841	841	0		0	Lowland Shrub							0
22	22	0		0	Marsh							
57	57	0		0	Mixed Upland Deciduous							
4	4	0		0	Planted Mixed Pines							
43	43	0		0	Red Pine							
12	0	0		12	Upland Conifers						12	
3	3	0		0	Upland Mixed Forest							
3,108	2,438	189		482	Total Forested Acres	8	181	388	5	13	44	32
	78%	6%		15%	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	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell: Examiner

Compartment: 127

Year of Entry: 2026

3	Unavailable	3G: Other Influence zones - See comments	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	245	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	89	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell: Examiner

Compartment: 127

Year of Entry: 2026

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: steep bluff down to stand that is down in natural river flood plain. Leave for natural river riparian corridor							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural river riparian buffer. Steep bluff down to stand.							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell: Examiner

Compartment: 127

Year of Entry: 2026

15	Unavailable	5E: Long-Term Retention	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	52	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	2B: Unknown if access through adjacent landowner(s) is possible	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
See stand comments about limited access over wet area.							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell: Examiner

Compartment: 127

Year of Entry: 2026

21	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	5E: Long-Term Retention	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
----------	--------------	-------------	----------------	-------

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	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
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	622 - Lowland Shrub	Nonstocked	2.1		Immature	No	some scattered aspen, aspen, red maple, cedar and balsam
---	---------------------	------------	-----	--	----------	----	--

2	42140 - Planted Mixed Pine	Sawtimber Well	3.9	103	111-140	N/A	2023 - Stand was row thinned under Contract Apple Tree 61-165-17
---	----------------------------	----------------	-----	-----	---------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	50	Log/Pole	12	103	Red Maple	Low	Variable	Sapling
White Pine	45	Log/Pole	13					
Jack Pine	5	Pole	7					

3	310 - Herbaceous Openland	Nonstocked	13.0		Unspecified	Managed Opening	
---	---------------------------	------------	------	--	-------------	-----------------	--

4	622 - Lowland Shrub	Nonstocked	8.2		Unspecified	No	
---	---------------------	------------	-----	--	-------------	----	--

5	6124 - Lowland Spruce-Fir	Poletimber Medium	4.9	81	51-80	N/A	
---	---------------------------	-------------------	-----	----	-------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	45	Pole/Sapling	6	81	Jack Pine	Low	Variable	Sapling
Balsam Fir	20	Pole/Sapling	6		Black Spruce	Medium	Variable	Sapling
Jack Pine	35	Pole/Log	8	81	Balsam Fir	Low	Variable	Sapling

6	4130 - Aspen	Sapling Well	61.5	3	Immature	N/A	2023 - Stand has already passed its regeneration check and monitoring treatment has been rolled out.
---	--------------	--------------	------	---	----------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Sapling	1	
Bigtooth Aspen	60	Sapling	1	3
Balsam Fir	10	Sapling	1	
Paper Birch	5	Sapling	1	

2023- Stand was final harvested as part of Apple tree 61-165-17. Stand 120 was originally part of stand 6 before harvest.

7	4130 - Aspen	Poletimber Well	13.8	58	81-110	N/A	small pocket of natural red pine
---	--------------	-----------------	------	----	--------	-----	----------------------------------

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	35	Pole	8	58	Balsam Fir	Low	Variable	Sapling
Red Maple	5	Pole/Sapling	6		Red Maple	Low	Variable	Sapling
Bigtooth Aspen	45	Log/Pole	10	58				
Balsam Fir	12	Pole	7					
Red Oak	1	Pole/Log	8					
Red Pine	2	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

8	4130 - Aspen	Sapling Well	39.5	2	Immature	N/A	Stand was final harvested under contract 61-165-17 Apple Tree sale
---	--------------	--------------	------	---	----------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log/Pole/Sap	10	
Black Cherry	10	Sapling	1	
Red Maple	15	Sapling	1	
Paper Birch	5	Sapling	1	
Bigtooth Aspen	60	Sapling	1	2
Balsam Fir	5	Sapling	1	

9	4130 - Aspen	Sapling Well	26.1	28	1-50	N/A	
---	--------------	--------------	------	----	------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	2	
Bigtooth Aspen	60	Sapling/Pole	4	28
Balsam Fir	5	Sapling	2	
Paper Birch	5	Sapling/Pole	3	
White Pine	5	Pole/Log	8	
Red Pine	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	< 5 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling

10	4130 - Aspen	Sapling Well	48.1	18	Immature	N/A	
----	--------------	--------------	------	----	----------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Sapling/Pole	4	
White Pine	5	Pole/Sapling	5	
Quaking Aspen	10	Sapling	2	
Red Oak	5	Sapling	2	
Red Maple	20	Sapling	2	
Bigtooth Aspen	50	Sapling	2	18
Paper Birch	5	Sapling	2	

11	6225 - Bog	Nonstocked	1.5		Unspecified	No	surrounded by spruce, balsam, and pine
----	------------	------------	-----	--	-------------	----	--

12	6229 - Mixed lowland shrub	Nonstocked	5.7		Immature	No	
----	----------------------------	------------	-----	--	----------	----	--



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

13 4130 - Aspen Poletimber Well 3.6 46 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	2	Sapling/Pole	4		Red Maple	Low	Variable	Sapling
White Pine	10	Pole/Log	8					
Bigtooth Aspen	43	Pole	8	46				
Red Maple	5	Pole/Sapling	5					
Quaking Aspen	30	Pole	6	48				
Red Oak	5	Pole	8					
Paper Birch	5	Pole/Sapling	5					

14 4139 - Aspen, Mixed Deciduous Sapling Well 88.2 18 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Sapling	3	
Paper Birch	5	Sapling	2	
Quaking Aspen	20	Sapling	3	18
Bigtooth Aspen	30	Sapling	3	18
Red Oak	5	Sapling	4	
Balsam Fir	10	Sapling	3	
Black Cherry	5	Sapling	4	

15 4130 - Aspen Sapling Well 4.4 2 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Sapling	1	
Bigtooth Aspen	60	Sapling	1	2
White Pine	5	Sapling	1	
Black Cherry	10	Sapling	1	

2023 - Stands monitoring Treatment has been closed. Stand has regenerated to fully stocked.
2023 - Stand was final harvested under contract Apple Tree (61-165-17)

16 42210 - Natural Red Pine Poletimber Well 4.6 70 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	80	Pole/Log	9	70	Red Maple	Low	Variable	Sapling
Red Maple	5	Pole/Sapling	6		White Pine	Low	< 5 feet	Sapling
White Pine	10	Pole/Log	9					
Black Cherry	5	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
17	4130 - Aspen	Poletimber Well	113.8	46	81-110	N/A																																																							
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Spruce</td> <td>3</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>30</td> <td>Pole</td> <td>6</td> <td>48</td> </tr> <tr> <td>Balsam Fir</td> <td>2</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>40</td> <td>Pole</td> <td>8</td> <td>46</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Spruce	3	Pole	6		Quaking Aspen	30	Pole	6	48	Balsam Fir	2	Sapling/Pole	4		White Pine	10	Pole/Log	8		Paper Birch	5	Pole/Sapling	5		Red Maple	5	Pole/Sapling	5		Red Oak	5	Pole	8		Bigtooth Aspen	40	Pole	8	46	<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> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																																									
White Spruce	3	Pole	6																																																										
Quaking Aspen	30	Pole	6	48																																																									
Balsam Fir	2	Sapling/Pole	4																																																										
White Pine	10	Pole/Log	8																																																										
Paper Birch	5	Pole/Sapling	5																																																										
Red Maple	5	Pole/Sapling	5																																																										
Red Oak	5	Pole	8																																																										
Bigtooth Aspen	40	Pole	8	46																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Red Maple	Low	Variable	Sapling																																																										
18	6130 - Fir, Aspen, Maple	Poletimber Well	1.5	75	81-110	N/A	2023 Stand was left as retention for stand 5 under contract Apple Tree 61-165-17																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>15</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Pole</td> <td>8</td> <td>75</td> </tr> <tr> <td>Quaking Aspen</td> <td>25</td> <td>Pole</td> <td>8</td> <td>75</td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Pole/Sapling</td> <td>6</td> <td>75</td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	15	Pole	6		Tamarack	5	Pole	6		Red Maple	20	Pole	8	75	Quaking Aspen	25	Pole	8	75	Black Spruce	10	Pole/Sapling	6		Balsam Fir	20	Pole/Sapling	6	75	Paper Birch	5	Pole	6		<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>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</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	Medium	Variable	Sapling	Black Spruce	Low	Variable	Sapling		
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Northern White Cedar	15	Pole	6																																																										
Tamarack	5	Pole	6																																																										
Red Maple	20	Pole	8	75																																																									
Quaking Aspen	25	Pole	8	75																																																									
Black Spruce	10	Pole/Sapling	6																																																										
Balsam Fir	20	Pole/Sapling	6	75																																																									
Paper Birch	5	Pole	6																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Red Maple	Low	Variable	Sapling																																																										
Balsam Fir	Medium	Variable	Sapling																																																										
Black Spruce	Low	Variable	Sapling																																																										
19	6229 - Mixed lowland shrub	Nonstocked	78.5		Unspecified	No																																																							
20	622 - Lowland Shrub	Nonstocked	4.2		Unspecified	No																																																							
21	4130 - Aspen	Poletimber Well	7.7	74	81-110	N/A																																																							
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>70</td> <td>Pole</td> <td>7</td> <td>74</td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	10	Pole	6		Red Maple	15	Pole	6		Quaking Aspen	70	Pole	7	74	Balsam Fir	5	Pole/Sapling	5		<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>Medium</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	Medium	Variable	Sapling	Balsam Fir	Low	Variable	Sapling																					
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Black Cherry	10	Pole	6																																																										
Red Maple	15	Pole	6																																																										
Quaking Aspen	70	Pole	7	74																																																									
Balsam Fir	5	Pole/Sapling	5																																																										
Sub-Canopy Species	Density	Avg. Height	Size																																																										
Red Maple	Medium	Variable	Sapling																																																										
Balsam Fir	Low	Variable	Sapling																																																										
23	623 - Emergent Wetland	Nonstocked	2.2		Unspecified	No																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
24	4130 - Aspen	Sawtimber Well	5.2	82	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		10	Pole/Log	8		Red Maple	Medium	Variable	Sapling
Red Maple		5	Pole	9		White Pine	Low	5 - 10 feet	Sapling
Bigtooth Aspen		75	Log/Pole	12	82				
Quaking Aspen		10	Pole	8	80				
25	4130 - Aspen	Poletimber Well	1.9	43	81-110	N/A	retention for stand 64		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Pole	6		Balsam Fir	Low	Variable	Sapling
Black Cherry		10	Pole	6		Red Maple	Medium	Variable	Sapling
Balsam Fir		5	Pole/Sapling	5					
Quaking Aspen		70	Pole	7	43				
26	622 - Lowland Shrub	Nonstocked	4.7		Unspecified	No			
27	4130 - Aspen	Sapling Well	16.3	33	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		5	Log/XLog/Pole	14		Red Maple	Low	Variable	Sapling
Bigtooth Aspen		25	Sapling/Pole	4	33	Tag Alder	Low	Variable	Tall Shrub
Black Cherry		10	Sapling/Pole	3		Balsam Fir	Low	Variable	Sapling
Quaking Aspen		45	Sapling/Pole	4	33				
Red Maple		15	Sapling/Pole	3					
29	4130 - Aspen	Sapling Well	11.1	5	Immature	N/A	Wildlife cut all the aspen around their managed opening		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole/Sapling	6		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen		45	Sapling	1	5	Tag Alder	Medium	Variable	Tall Shrub
Paper Birch		5	Pole/Sapling	6					
Black Cherry		10	Pole/Sapling	6					
Quaking Aspen		30	Sapling	1	5				
32	429 - Mixed Upland Conifers	Poletimber Medium	11.7	90	111-140	N/A	Mixed stand some open areas with oak and apple trees		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Pole/Log	8		Red Maple	Low	Variable	Sapling
Balsam Fir		30	Pole	6		Balsam Fir	Low	Variable	Sapling
White Pine		40	Log/Pole/XLog	14	90	White Pine	Low	Variable	Sapling
Paper Birch		10	Pole	6					
33	6229 - Mixed lowland shrub	Nonstocked	31.0		Immature	No	some areas of aspen, pine, cedar and red maple		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
34	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	23.3	36	51-80	N/A																																												
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>15</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>25</td> <td>Pole</td> <td>7</td> <td>85</td> </tr> <tr> <td>Black Spruce</td> <td>15</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>35</td> <td>Pole</td> <td>6</td> <td>36</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	15	Pole	6		Paper Birch	5	Pole	6		Northern White Cedar	25	Pole	7	85	Black Spruce	15	Pole/Sapling	6		Balsam Fir	5	Pole/Sapling	6		Quaking Aspen	35	Pole	6	36			<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>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	Variable	Tall Shrub		
Canopy Species	% Cover	Size Class	DBH	Age																																														
Red Maple	15	Pole	6																																															
Paper Birch	5	Pole	6																																															
Northern White Cedar	25	Pole	7	85																																														
Black Spruce	15	Pole/Sapling	6																																															
Balsam Fir	5	Pole/Sapling	6																																															
Quaking Aspen	35	Pole	6	36																																														
Sub-Canopy Species	Density	Avg. Height	Size																																															
Tag Alder	Medium	Variable	Tall Shrub																																															
35	4130 - Aspen	Sapling Well	89.4	2	Immature	N/A	2023 - Stand was final harvested as part of sale Apple Tree 61-165-17. There was a strip of aspen left in the middle back portion north of 46																																											
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/Pole/Sap</td> <td>14</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>60</td> <td>Sapling</td> <td>1</td> <td>2</td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>15</td> <td>Sapling</td> <td>1</td> <td>2</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	5	Sapling	1		White Pine	5	Log/Pole/Sap	14		Bigtooth Aspen	60	Sapling	1	2	Red Maple	15	Sapling	1		Quaking Aspen	15	Sapling	1	2																		
Canopy Species	% Cover	Size Class	DBH	Age																																														
Black Cherry	5	Sapling	1																																															
White Pine	5	Log/Pole/Sap	14																																															
Bigtooth Aspen	60	Sapling	1	2																																														
Red Maple	15	Sapling	1																																															
Quaking Aspen	15	Sapling	1	2																																														
36	623 - Emergent Wetland	Nonstocked	9.2		Unspecified	No																																												
37	6229 - Mixed lowland shrub	Nonstocked	11.9	0	Unspecified	No	some scattered aspen																																											
38	622 - Lowland Shrub	Nonstocked	2.7		Unspecified	No	mainly Lowland brush. some trees filling in																																											
39	4130 - Aspen	Poletimber Well	0.2	69	81-110	N/A	Retention from harvest on stand 67																																											
		<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>65</td> <td>Pole/Log</td> <td>10</td> <td>69</td> </tr> <tr> <td>Red Maple</td> <td>35</td> <td>Pole/Log</td> <td>10</td> <td></td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	65	Pole/Log	10	69	Red Maple	35	Pole/Log	10				<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>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling																						
Canopy Species	% Cover	Size Class	DBH	Age																																														
Bigtooth Aspen	65	Pole/Log	10	69																																														
Red Maple	35	Pole/Log	10																																															
Sub-Canopy Species	Density	Avg. Height	Size																																															
Red Maple	Medium	Variable	Sapling																																															
40	622 - Lowland Shrub	Nonstocked	1.1		Unspecified	No																																												
41	330 - Low-Density Trees	Nonstocked	34.7		Unspecified	Managed Opening	some cherry, white pine, and aspen present																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
42	4130 - Aspen	Poletimber Well	214.3	50	81-110	N/A																																																				
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>40</td> <td>Pole</td> <td>8</td> <td>50</td> </tr> <tr> <td>Red Oak</td> <td>2</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>3</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>30</td> <td>Pole</td> <td>8</td> <td>50</td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	10	Pole/Sapling	6		Bigtooth Aspen	40	Pole	8	50	Red Oak	2	Pole	8		White Pine	3	Pole	8		Red Maple	10	Pole/Sapling	6		Quaking Aspen	30	Pole	8	50	Paper Birch	5	Pole/Sapling	6		<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>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Medium	Variable	Tall Shrub	Red Maple	Medium	Variable	Sapling			
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Black Cherry	10	Pole/Sapling	6																																																							
Bigtooth Aspen	40	Pole	8	50																																																						
Red Oak	2	Pole	8																																																							
White Pine	3	Pole	8																																																							
Red Maple	10	Pole/Sapling	6																																																							
Quaking Aspen	30	Pole	8	50																																																						
Paper Birch	5	Pole/Sapling	6																																																							
Sub-Canopy Species	Density	Avg. Height	Size																																																							
Tag Alder	Medium	Variable	Tall Shrub																																																							
Red Maple	Medium	Variable	Sapling																																																							
43	6229 - Mixed lowland shrub	Nonstocked	3.4	0	Unspecified	No																																																				
44	623 - Emergent Wetland	Nonstocked	1.9		Unspecified	No																																																				
45	622 - Lowland Shrub	Nonstocked	13.0		Unspecified	No	River corridor																																																			
46	330 - Low-Density Trees	Nonstocked	3.2	0	Unspecified	No	filling in with white pine, jack pine and cherry																																																			
47	6229 - Mixed lowland shrub	Nonstocked	652.2	0	Unspecified	No																																																				
48	4319 - Mixed Upland Forest	Poletimber Well	3.3	55	81-110	N/A																																																				
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>White Pine</td> <td>40</td> <td>Pole/Log</td> <td>8</td> <td>55</td> </tr> <tr> <td>Jack Pine</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>15</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	5	Pole	5		White Pine	40	Pole/Log	8	55	Jack Pine	10	Pole	6		Red Maple	15	Pole	6		Bigtooth Aspen	15	Log/Pole	10		Paper Birch	10	Pole/Log	8		Black Cherry	5	Pole	6		<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>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling	Red Maple	Low	Variable	Sapling			
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Balsam Fir	5	Pole	5																																																							
White Pine	40	Pole/Log	8	55																																																						
Jack Pine	10	Pole	6																																																							
Red Maple	15	Pole	6																																																							
Bigtooth Aspen	15	Log/Pole	10																																																							
Paper Birch	10	Pole/Log	8																																																							
Black Cherry	5	Pole	6																																																							
Sub-Canopy Species	Density	Avg. Height	Size																																																							
White Pine	Low	Variable	Sapling																																																							
Red Maple	Low	Variable	Sapling																																																							
50	6225 - Bog	Nonstocked	16.8		Immature	No	some jack pine around the edges																																																			
52	310 - Herbaceous Openland	Nonstocked	0.7		Unspecified	No	small grass opening.																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

53	4133 - Aspen, Mixed Pine	Poletimber Well	1.9	61	81-110	N/A	
-----------	--------------------------	-----------------	-----	----	--------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Pole/Sapling	6	
White Pine	20	Pole	8	
Red Maple	25	Pole	7	
Bigtooth Aspen	45	Pole/Log	8	61

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

54	4130 - Aspen	Poletimber Well	42.3	74	81-110	N/A	
-----------	--------------	-----------------	------	----	--------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	70	Pole	7	74
Balsam Fir	5	Pole/Sapling	5	
Red Maple	15	Pole	6	
Black Cherry	10	Pole	6	

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

56	330 - Low-Density Trees	Nonstocked	2.3		Unspecified	No	grassy opening filling in with trees.
-----------	-------------------------	------------	-----	--	-------------	----	---------------------------------------

57	622 - Lowland Shrub	Nonstocked	4.3		Unspecified	No	
-----------	---------------------	------------	-----	--	-------------	----	--

58	6229 - Mixed lowland shrub	Nonstocked	11.7	0	Unspecified	No	
-----------	----------------------------	------------	------	---	-------------	----	--

59	6225 - Bog	Nonstocked	7.6		Immature	No	scattered aspen and white pine throughout
-----------	------------	------------	-----	--	----------	----	---

60	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	52.0	105	81-110	N/A	Much of the stand has dense pockets of blow down
-----------	--	-----------------	------	-----	--------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	40	Pole	8	105
Red Maple	40	Pole	6	
Balsam Fir	15	Pole	6	
Black Spruce	5	Pole	5	

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

61	4136 - Aspen, Mixed Conifer	Poletimber Well	34.2	38	51-80	N/A	there is an old land bridge for access
-----------	-----------------------------	-----------------	------	----	-------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	2	Sapling/Pole	4	
Paper Birch	5	Pole	6	
Quaking Aspen	25	Pole	6	
Bigtooth Aspen	30	Pole	7	38
White Pine	18	Pole/Log/Sap	9	
Red Maple	15	Pole/Sapling	5	
Balsam Fir	5	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	Variable	Sapling
Tag Alder	Medium	Variable	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

63 6229 - Mixed lowland shrub Nonstocked 6.1 0 Unspecified No

64 4130 - Aspen Sapling Well 30.1 2 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	25	Sapling	1	2	Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	45	Sapling	1	2	Balsam Fir	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	5					
Red Maple	20	Sapling	4	2				
Red Oak	5	Pole	8					

65 330 - Low-Density Trees Nonstocked 8.3 Unspecified No

66 330 - Low-Density Trees Nonstocked 8.0 Unspecified No

67 4139 - Aspen, Mixed Deciduous Sapling Well 16.0 2 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	6	Log	10	
Red Maple	35	Sapling	3	
Bigtooth Aspen	55	Sapling	1	2
Red Oak	2	Pole	8	
White Oak	2	Sapling	4	

68 42110 - Planted Red Pine Sawtimber Well 11.8 59 81-110 N/A stand was thinned in 2020

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Log	10	59	Red Maple	Low	< 5 feet	Sapling

69 310 - Herbaceous Openland Nonstocked 6.8 Unspecified Managed Opening wildlife managed and planted opening, continue to maintain.

70 4130 - Aspen Sapling Well 47.7 19 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Sapling	3	
Quaking Aspen	15	Sapling	3	19
Bigtooth Aspen	45	Sapling	4	19
Red Oak	5	Sapling	2	
Balsam Fir	10	Sapling	1	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

71	6113 - Lowland Maple	Poletimber Well	14.0	89	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		75	Pole/Log	8	89	Red Maple	Low	Variable	Sapling
Paper Birch		10	Pole	9		Balsam Fir	Low	Variable	Sapling
Quaking Aspen		15	Pole/Log	8					

73	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	245.2	95	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		15	Pole	6		Black Spruce	Low	Variable	Sapling
Black Spruce		20	Pole/Sapling	6	95	Balsam Fir	Low	Variable	Sapling
Northern White Cedar		25	Pole/Sapling	6	95	Tag Alder	Low	Variable	Tall Shrub
Tamarack		15	Pole	6					
Red Maple		5	Pole	6					
Hemlock		5	Pole	7					
White Pine		5	Pole/Log	8					
Paper Birch		5	Pole	6					
Quaking Aspen		5	Pole	7					

74	310 - Herbaceous Openland	Nonstocked	1.7		Unspecified	No	
-----------	---------------------------	------------	-----	--	-------------	----	--

75	3102 - Grass	Nonstocked	4.3		Unspecified	Managed Opening	wildlife maintained opening
-----------	--------------	------------	-----	--	-------------	-----------------	-----------------------------

76	42110 - Planted Red Pine	Poletimber Well	6.9	64	81-110	N/A	thinned in 2020		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Pole	9	64	Red Maple	Medium	Variable	Sapling

77	330 - Low-Density Trees	Nonstocked	2.6		Unspecified	No	scattered cherry
-----------	-------------------------	------------	-----	--	-------------	----	------------------

78	4130 - Aspen	Poletimber Well	48.7	41	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		20	Pole/Sapling	6	41	Red Maple	Medium	Variable	Sapling
Balsam Fir		5	Pole	6		Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen		40	Pole	8	41				
Black Cherry		10	Pole	6					
White Pine		3	Pole/Log	8					
Red Oak		2	Pole	6					
Red Maple		20	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
79	623 - Emergent Wetland	Nonstocked	8.4		Unspecified	No	leather leaf bog with scattered jack pine, spruce, and white pine

80	4139 - Aspen, Mixed Deciduous	Poletimber Well	33.2	44	51-80	N/A	
----	-------------------------------	-----------------	------	----	-------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	6		Red Maple	Medium	Variable	Sapling
Red Oak	5	Pole	8					
White Pine	5	Pole	8					
Red Maple	25	Pole	6					
Bigtooth Aspen	50	Pole	6	44				
Black Cherry	10	Pole	6					

81	4130 - Aspen	Sapling Well	43.4	2	Immature	N/A	
----	--------------	--------------	------	---	----------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	50	Sapling	1	2
Quaking Aspen	10	Sapling	1	
Red Maple	25	Sapling	4	4
Black Cherry	15	Sapling	1	

83	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	56.6	4	1-50	N/A	Lost Swamp, 61-144-17. Cut January 2020. Cut all trees except white pine, oak, cedar and green trees.
----	--	--------------	------	---	------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	1	4
Paper Birch	10	Pole	6	
Black Spruce	5	Pole	6	
Balsam Fir	20	Pole/Sapling	6	75
Quaking Aspen	35	Sapling	1	4
Northern White Cedar	5	Pole	6	
Tamarack	5	Pole	6	

84	4139 - Aspen, Mixed Deciduous	Sapling Well	29.7	18	Immature	N/A	
----	-------------------------------	--------------	------	----	----------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	25	Sapling	2	18
Balsam Fir	5	Sapling	1	
Bigtooth Aspen	30	Sapling	3	18
Jack Pine	5	Sapling	1	
Black Cherry	10	Sapling	1	
Red Maple	25	Sapling	1	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

85 6118 - Lowland Deciduous with Cedar Poletimber Well 30.7 65 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	6		Tag Alder	Medium	Variable	Tall Shrub
Black Spruce	5	Pole/Sapling	5					
Northern White Cedar	20	Pole	6					
Red Maple	20	Pole	8	80				
Balsam Fir	15	Pole	6					
Quaking Aspen	30	Pole/Log	9	65				

87 4130 - Aspen Sapling Well 9.4 3 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Sapling	2	
Bigtooth Aspen	60	Sapling	1	3
White Oak	10	Pole	6	
Black Cherry	5	Sapling	1	
Red Maple	20	Sapling	1	

88 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 16.6 90 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	6		Red Maple	Low	Variable	Sapling
Red Oak	2	Log	12		Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Red Maple	35	Log/Pole	12	90				
Black Cherry	3	Pole	8					
Northern White Cedar	5	Log/Pole	10					
White Oak	2	Pole/Log	8					
White Pine	15	Log/Pole	12					
Bigtooth Aspen	20	Log/Pole	12					
Paper Birch	10	Pole	9					
Balsam Poplar	3	Log/Pole	12					

89 4130 - Aspen Sapling Well 42.5 26 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	35	Sapling	4	26	Tag Alder	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen	25	Sapling/Pole	4					
Red Oak	5	Pole	6					
Balsam Fir	10	Sapling	3					
Red Maple	20	Sapling/Pole	4					
Paper Birch	5	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

90 6112 - Lowland Aspen Sapling Medium 13.8 3 Immature N/A Lost Swamp, 61-144-17. Cut winter 2020. Cut aspen, red maple, cherry, some paper birch. Left scattered balsam, spruce, cedar, paper birch.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	5	Pole	5	75
Balsam Fir	5	Pole/Sapling	5	
Paper Birch	5	Pole/Sapling	6	
Quaking Aspen	50	Sapling	1	3
Black Spruce	15	Pole	5	
Red Maple	20	Sapling	1	3

91 3301 - Low Density Deciduous Trees Nonstocked 49.5 Unspecified Managed Opening fairly open stand with some jack pine, cherry and oak

92 4130 - Aspen Sapling Well 37.4 3 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	1	3
Bigtooth Aspen	60	Sapling	1	3
Balsam Fir	10	Sapling	2	
Black Cherry	5	Sapling	1	
White Pine	5	Pole/Log/Sap	8	

93 310 - Herbaceous Openland Nonstocked 136.2 0 Unspecified 4211 - Planted Red Pine 2023 -Year 1 Regeneration survey was completed 10/14/2023. There is currently 800 Trees per Acre and stand is 95% free to grow at this time.
2023 - Stand was planted to Red Pine, 881 TPA.
2022 - July 2022 Stand was Site Prep Sprayed with Contract Helicopter
2021 - Stand Was trenched
2020 - Lost Swamp, 61-144-17. Cut January 2020.

94 330 - Low-Density Trees Nonstocked 37.5 Unspecified Managed Opening

95 4130 - Aspen Sapling Well 57.4 3 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	
Quaking Aspen	35	Sapling	1	3
Black Cherry	10	Sapling	1	
Paper Birch	5	Sapling	1	
Bigtooth Aspen	40	Sapling	1	3



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

96 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 16.0 95 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	15	Pole	6	
Northern White Cedar	35	Pole	6	95
Bigtooth Aspen	10	Log/Pole	12	
White Pine	15	Log/Pole/XLog	13	
Quaking Aspen	10	Pole	9	
Red Maple	15	Log/Pole	12	

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

99 42110 - Planted Red Pine Poletimber Well 18.8 58 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	9	
Red Pine	95	Pole/Log	9	58

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

100 4130 - Aspen Poletimber Well 7.0 46 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	75	Pole	7	46
White Pine	5	Pole/Log	9	
Red Maple	20	Pole	8	

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

101 623 - Emergent Wetland Nonstocked 0.5 Unspecified No

105 4130 - Aspen Poletimber Well 29.6 65 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Log/Pole	10	
Red Oak	5	Pole/Log	9	
Paper Birch	10	Pole	7	
Red Maple	10	Pole/Log	8	
Bigtooth Aspen	45	Log/Pole	12	65
Balsam Fir	5	Pole/Sapling	6	
White Pine	5	Log/Pole	10	

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

107 6112 - Lowland Aspen Poletimber Well 1.4 54 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole	6	
Quaking Aspen	35	Pole	7	54
Bigtooth Aspen	40	Pole	8	54
Balsam Fir	5	Pole/Sapling	5	
Paper Birch	5	Pole	6	

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

108 4130 - Aspen Poletimber Well 0.6 54 111-140 N/A area retention around a wet pocket from 2021 timber sale

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole	7		Red Maple	Low	Variable	Sapling
Bigtooth Aspen	60	Pole	8	54	Balsam Fir	Low	Variable	Sapling
Balsam Fir	5	Pole/Sapling	6					
Red Maple	15	Pole	7					
White Pine	10	Pole	10					

109 4130 - Aspen Poletimber Well 0.6 61 81-110 N/A Identified as retention from a 2021 timber sale

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	35	Pole/Log	8	61	Red Maple	Medium	Variable	Sapling
Balsam Fir	10	Pole/Sapling	6		Balsam Fir	Medium	Variable	Sapling
Black Cherry	5	Pole	7					
Red Maple	23	Pole	7					
Paper Birch	2	Pole	7					
Quaking Aspen	25	Pole	7					

110 4130 - Aspen Poletimber Well 4.8 55 81-110 N/A 2023 - Stand was left for retention as part of stand 6 and 120 which were same stand before harvest. Stand 6 was final harvested under contract Apple Tree 61-165-17

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	6		Red Maple	Medium	Variable	Sapling
Balsam Fir	10	Pole/Sapling	5		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	25	Pole	6					
Red Maple	15	Pole	7					
Bigtooth Aspen	45	Pole	8	55				

112 4130 - Aspen Sapling Well 35.7 2 Immature N/A 2023 - Stand was final harvested as part of sale Apple Tree 61-165-17

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Sapling	1		Tag Alder	Low	Variable	Tall Shrub
White Pine	5	Log/Pole/Sap	14					
Bigtooth Aspen	60	Sapling	1	2				
Red Maple	15	Sapling	1					
Quaking Aspen	15	Sapling	1	2				

114 6112 - Lowland Aspen Poletimber Well 40.1 65 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Pole	6		Tag Alder	Medium	Variable	Tall Shrub
Quaking Aspen	65	Pole/Log	8	65	Red Maple	High	Variable	Sapling
Bigtooth Aspen	15	Log/Pole	10	65				
White Pine	5	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
-------	--------------------	--------------	-------	-----------	----------	--------------	------------------

115 4130 - Aspen Poletimber Well 4.2 65 81-110 N/A 2023 - Stand was left for retention for stand 112. This was under contract Apple tree Sale 61-165-17

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	15	Pole	6	65	Tag Alder	Low	Variable	Tall Shrub
Red Maple	15	Pole	6		Red Maple	Medium	Variable	Sapling
Black Cherry	5	Pole	5					
Quaking Aspen	65	Pole/Sapling	6	65				

116 6139 - Mixed Lowland Forest Poletimber Medium 0.8 65 51-80 N/A 2023 - Stand was left for standard area retention for stand 43. Stand 43 was cut under contract Apple Tree 61-165-17

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	30	Pole	6	65	Red Maple	Medium	Variable	Sapling
Balsam Fir	5	Pole/Sapling	5		Tag Alder	Low	5 - 10 feet	Tall Shrub
White Pine	25	Pole	8					
Jack Pine	10	Pole	6					
Red Maple	20	Pole/Sapling	7					
Tamarack	5	Pole	5					
Paper Birch	5	Pole/Sapling	5					

120 4130 - Aspen Poletimber Well 16.1 47 81-110 N/A Stand was originally part of stand 6. Only portion of stand 6 was cut to break up size class.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	55	Pole/Log	8	47	Balsam Fir	Low	Variable	Sapling
Quaking Aspen	5	Pole	6		Red Maple	Medium	Variable	Sapling
Balsam Fir	10	Pole/Sapling	5					
Red Maple	25	Pole	8					
Paper Birch	5	Pole	6					

121 4130 - Aspen Poletimber Well 14.0 74 81-110 N/A retention from stand 35 2022 timber sale

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	10	Pole	6		Red Maple	Medium	Variable	Sapling
White Pine	10	Pole/Log	8		Balsam Fir	Low	Variable	Sapling
Balsam Fir	5	Pole	7					
Red Maple	15	Pole	6					
Bigtooth Aspen	60	Pole	8	74				