



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61243

Entry Year 2024

Acreage: 2,408

County Kalkaska

Management Area: Manistee River Valley

Stand Examiner: Steve Crigier

Legal Description:

T25N,R7W,Sec.12-14, 22-24

Identified Planning Goals:

Continue to diversify the age class within the manageable cover types. Maintain a component of the mature conifers that is so prevalent to the area. Special attention to protecting intermittent and seasonal drainages due to the proximity to the the Manistee River and Little Cannon Creek, designated cold water trout streams. Visual management is also important along the Dutch John Road corridor as this gets a lot of recreational traffic.

Soil and topography:

Newton loamy sand, Saugatuck sand, Griffin sandy loam and Rubicon sand are the the soil types on the more upland sites. Rifle peat, Lupton muck dominate the lowlands. Topography is flat for the most part. Older soil maps showed the large swamp complex however newer mapping an imagery shows some upland ridges within the lowland complex.

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

Mostly state ownership with some private inholdings along the Manistee river. Land use is primarily forest management as well as recreation (hunting, fishing, and boating on the Manistee River). Acquisitions: Section 14-NE1/4 and S1/2-South of River; section 22-S1/2SENE-East of River and N1/2SE; section 23-S1/2NENW; section 24-W1/2NENW, E1/2NESW and N1/2SWSW. These were Consumers leases That expired in 2016 and 2011.

Unique Natural Features:

This compartment is located within with landtype associations (LTAs) 5111 and 5131 in sub-subsection VII.2.2. LTA 5111, a broad flat outwash plain with few kettle lakes and excessively drained sand, occupies only a small portion of the eastern half of section 24. LTA 5131, a broad flat outwash plain with poorly drained sand or sandy loam, dominates the remainder of the compartment. LTA 5131 is one of the least homogeneous LTAs mapped within Subsection VII.2.2. The lack of homogeneity results from complex topography and an intricate mosaic of excessively drained sand, poorly drained sand, and very poorly drained organic soils. In general, topography is level. However, the land surface is often undulating to hummocky and, in these areas, alternates from poorly drained and very poorly drained to well and excessively well drained sands over relatively short distances. The most common soil of the LTA is Saugatuck sand, which is poorly drained. However, soils are extremely variable and inclusions within the LTA range from deep, excessively drained, acidic sands to very poorly drained organic mucks and peats, e.g. Rubicon sand, Lupton muck and Rifle peat, respectively. The variety of types which occur reflect the LTAs complexity. Forests of hemlock, usually mixed white pine or beech, were common on poorly drained sands whereas mixed conifer swamps dominated very poorly drained organic soils. Finally, well drained inclusions supported northern hardwood forests of beech and sugar maple while forests of mixed red and white pine occurred on excessively drained, fire-prone areas within the LTA. The LTA has become quite fragmented and 23% of its surface area now supports cover types with less than 5% individual cover. Hemlock dominated forests have been virtually eliminated whereas aspen/white birch forests, rare circa 1800, have become the predominant cover type (35%). Conifer dominated wetlands, which covered more that one quarter of the LTA circa 1800, have been reduced to about 8% cover, while formerly absent hardwood and shrub/scrub swamps now collectively cover 24% of the area. The remaining northern hardwood forests, which now occur on only about 5% of the LTA, are second growth, often fragmented, woodlots that lack the original white pine or hemlock component. Finally, another 6% of the LTA is in old fields.

There is potential for nesting red-shouldered hawks (*Buteo lineatus*, state threatened) and northern goshawks (*Accipiter gentilis*, state special concern) to occur in this compartment in mixed conifer swamp, swamp hardwoods (red-shouldered hawk) and mature pine (goshawk).

Archeological, Historical, and Cultural Features:

None listed

Special Management Designations or Considerations:

A Natural River influence zone is designated within this compartment for all stands along the Manistee River and its tributaries. All BMP's and Natural River guidelines will be followed for any stands prescribed along these areas.

Watershed and Fisheries Considerations:

The Manistee River, Little Cannon Creek, and several other unnamed tributaries to the Manistee River flow through Compartment 243. All are Designated Trout Streams. The Manistee River is a candidate for State Natural Rivers Designation. Therefore, no cutting should be done within 175 feet of the Manistee River (Stand 16). For all the creeks, no clearcutting should be done within the 100 foot restricted area on each side of the creek, and selective cutting should not be done within 50 feet on each side of any creek (Stands 16, 53).

Wildlife Habitat Considerations:

This compartment falls primarily on an outwash plain of poorly drained sandy soils. Blowdowns and some flooding and fire were the typical natural disturbances on this landscape. The terrain is mostly low and flat with some low pine ridges. Historical cover types included mesic conifer forests of hemlock and white pine and conifer swamps in the wettest soils. The extensive cedar and hardwood swamps serve as important deer wintering cover as well as habitat for species such as winter wren, brown snake, Swainson's thrush, bobcat, pileated woodpecker, barred owl and snowshoe hare. Some understory regeneration of conifers is desirable but made difficult by repeated browsing. Prolific balsam fir may serve as a surrogate to some degree for once abundant hemlock. Provision of some browse/early successional habitat by regenerating suitable upland stands, while maintaining existing mature cover in lowlands, will help in the short run. However, long-term management of this landscape should emphasize mature mixed conifers as much as possible. Opportunities to re-establish a hemlock component should be explored where feasible. Care should be taken to protect any plantings from foraging herbivores. Future natural blowdowns may add to the diversity of this landscape and should be left unsalvaged if they occur. Prescribed final harvests should incorporate retention of snags, down logs, saplings, and some sturdy, mature leave trees to mimic natural blowdown patches as much as possible. All sales in this landscape should leave tops unchipped, and some in piles, to provide additional horizontal cover. Some wildlife opening maintenance should continue, but creation of new openings is not necessary. Mature floodplain forest along the Manistee River and Little Cannon Creek should be maintained as riparian habitat for otter, wood turtle, bald eagle, and great blue heron.

The east part of section 24 is on an excessively well drained outwash plain, dominated by fire-dependent communities of jack pine, mixed pine forest, and barrens. Jack pine stands dominate the dry outwash plain. Stands in this compartment are currently brushlands and young jack pine planted in conjunction with a Kirtland's warbler management unit to the east. Management for mature and regenerating jack pine forests, along with some wildlife opening maintenance, will benefit species such as Nashville warbler, badger, garter snake, coyote, golden-crowned kinglet, red squirrel, and red-tailed hawk.

Mineral Resource and Development Concerns and/or Restrictions

No active sand/gravel pits exist in the area, but several former pits are nearby. The State-owned Naples Road Pit, which has not been active for many years, is just over three miles to the southeast. Due to abundant wetlands and potential lack of mineral ownership, potential for sand & gravel leasing in the compartment appears limited. The compartment is well south of the Silurian reef trend and Antrim Shale gas play. The Canon Creek oil & gas field is about one mile to the south. While the older field has mostly been abandoned, there has been recent leasing activity signaling renewed interest. However, oil & gas potential beneath the compartment appears low. There has been no past well permit activity in the compartment. There was also past exploration and testing of the Collingwood Formation south of the compartment, and one well was completed. The Collingwood Formation overall has not been proven to be a viable economic play in Michigan, and additional future development in the Collingwood is unlikely under current conditions. There is no known metallic mineral potential in this part of the state. 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 only one County Road in the compartment - Dutch John Road. This road runs along the eastern edge of the Manistee River. There are a few two-track roads running off of Dutch John and Sharon Roads into the interior of the compartment.

Survey Needs:

Survey project is currently underway in the western sections of the compartment.

Recreational Facilities and Opportunities:

Sand Banks Access Site is located in the southwestern edge of the compartment which gets a lot of use from fishermen and boaters. The area is also heavily used by various types of hunters.

Fire Protection:

Fire protection for this compartment will fall in the Michigan DNR and Garfield Township Fire Department Jurisdiction.

Additional Compartment Information:

The following reports from the Inventory are attached:

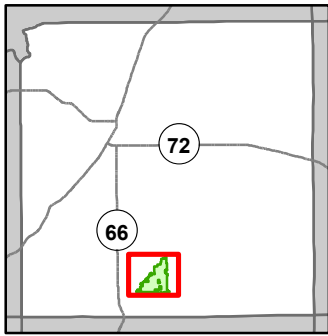
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

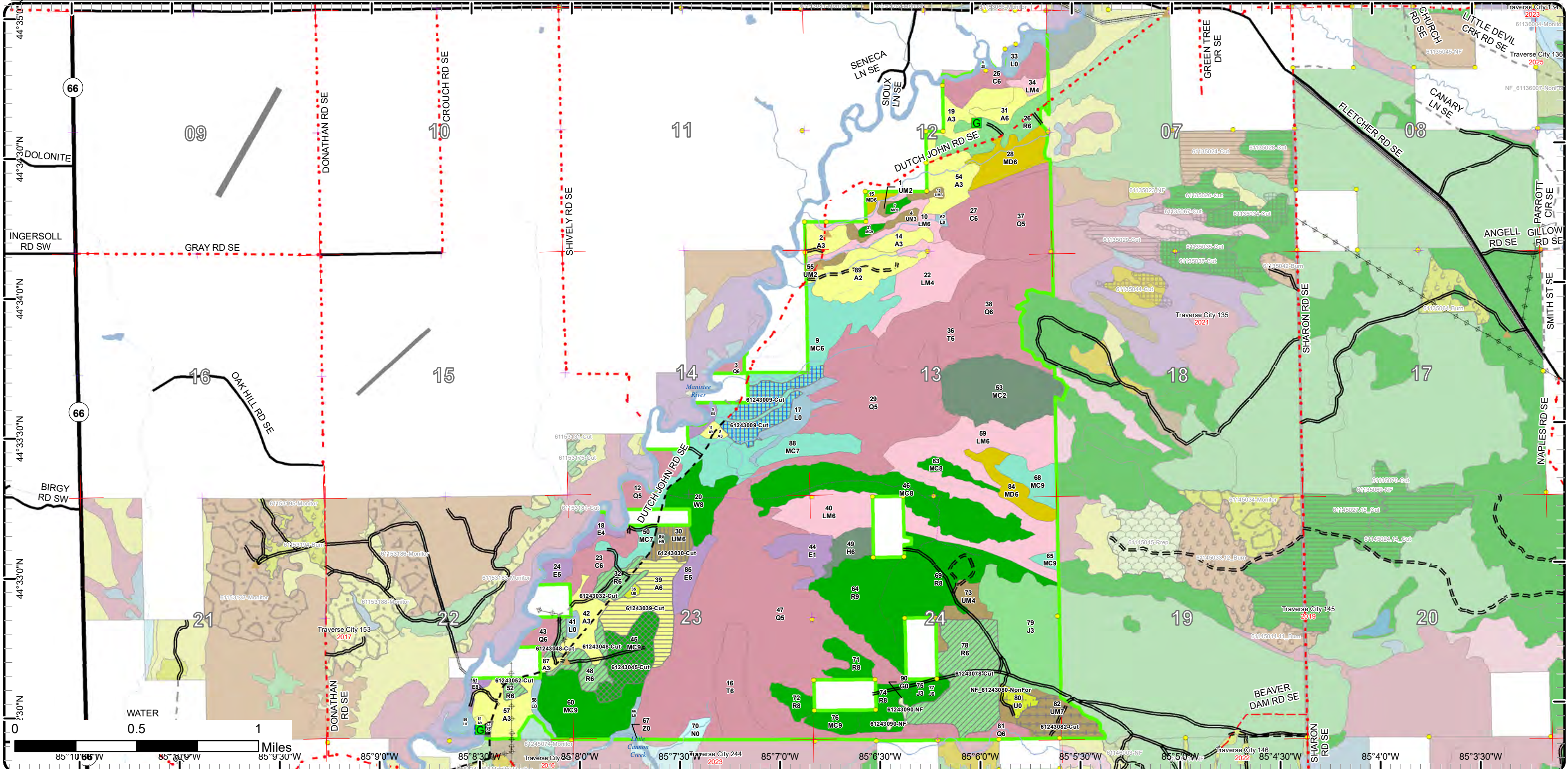
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 243
 T25N R07W 12-14, 22-24
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Manistee River Valley
 YOE: 2024
 Acres: 2407.8 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 10/17/2022
 Map Phase: Post Review

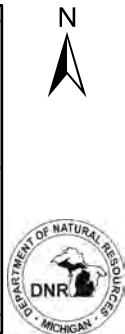
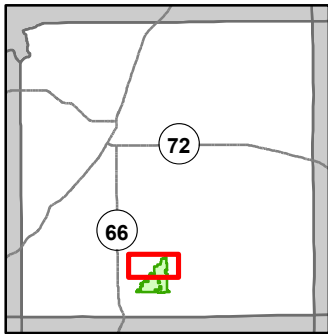


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Berms
- G Gate
- B Boating Access Site
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Non-Designated Recreational Trail
- Airports
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- Opening Maintenance
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland

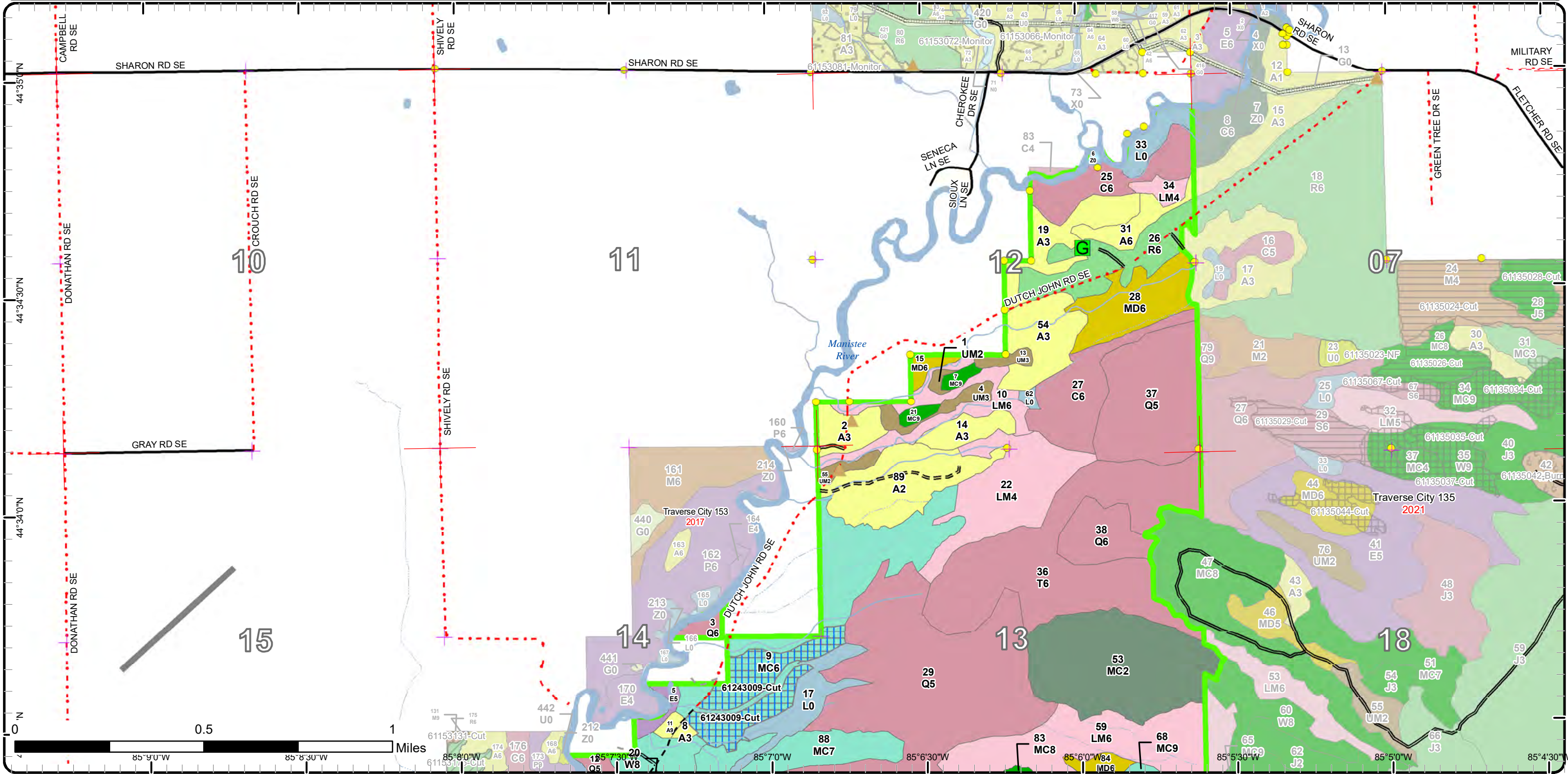


Cover Type & Treatments Map

Compartment: 243
 T25N R07W 12-14, 22-24
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Manistee River Valley
 YOE: 2024
 Acres: 2407.8 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 10/17/2022
 Map Phase: Post Review

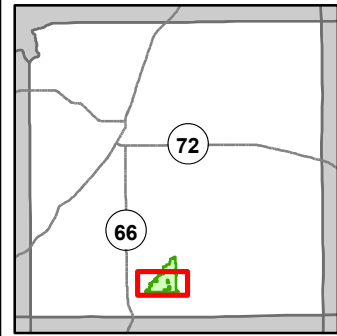


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Berms
- G Gate
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Airports
- Compartment Boundary
- Seed Tree (w/Reserves)
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 500 - Water
- 622 - Lowland Shrub

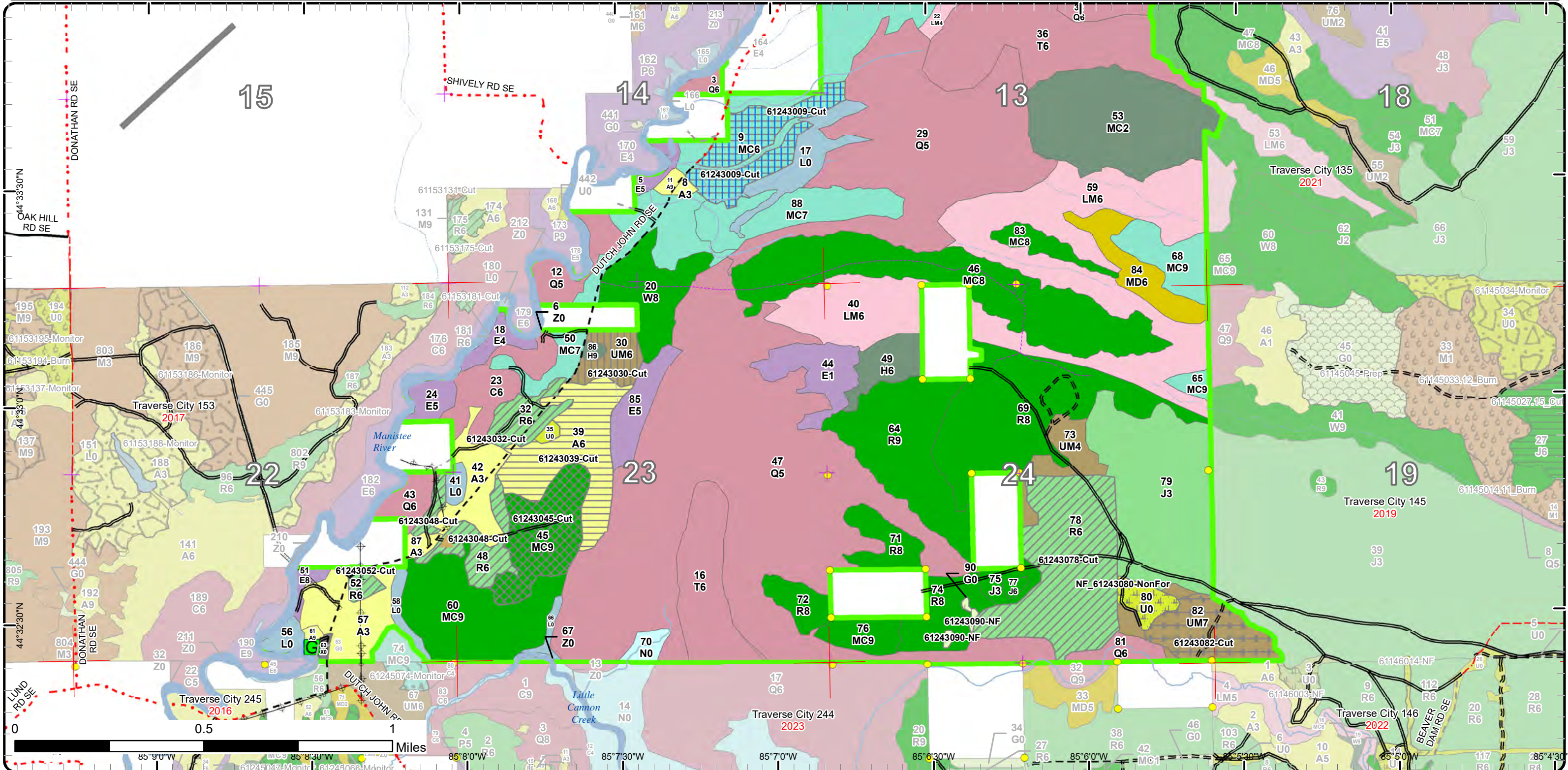


Cover Type & Treatments Map

Compartment: 243
 T25N R07W 12-14, 22-24
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Manistee River Valley
 YOE: 2024
 Acres: 2407.8 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 10/17/2022
 Map Phase: Post Review

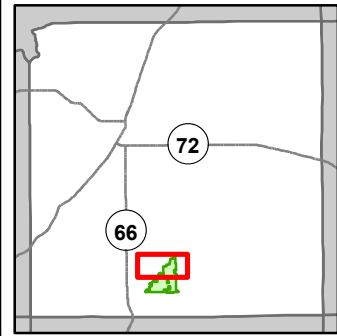


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ▲ Berms
- Ⓜ Gate
- Ⓜ Boating Access Site
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Non-Designated Recreational Trail
- Airports
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Seed Tree (w/Reserves)
- ▨ Thinning (Crown, Low, Systematic)
- ▨ Shelter Wood (w/Reserves)
- ▨ Opening Maintenance
- ▨ 330 - Low Density Trees
- ▨ 500 - Water
- ▨ 622 - Lowland Shrub
- ▨ 623 - Emergent Wetland
- ▨ 413 - Aspen
- ▨ 419 - Mixed Upland Deciduous
- ▨ 421 - Planted Pines
- ▨ 422 - Natural Pines
- ▨ 423 - Other Upland Conifers
- ▨ 429 - Mixed Upland Conifers
- ▨ 430 - Upland Mixed Forest
- ▨ 611 - Lowland Deciduous Forest
- ▨ 612 - Lowland Coniferous Forest
- ▨ 613 - Lowland Mixed Forest
- ▨ 122 - Roads/Parking Lot
- ▨ 310 - Herbaceous Openland

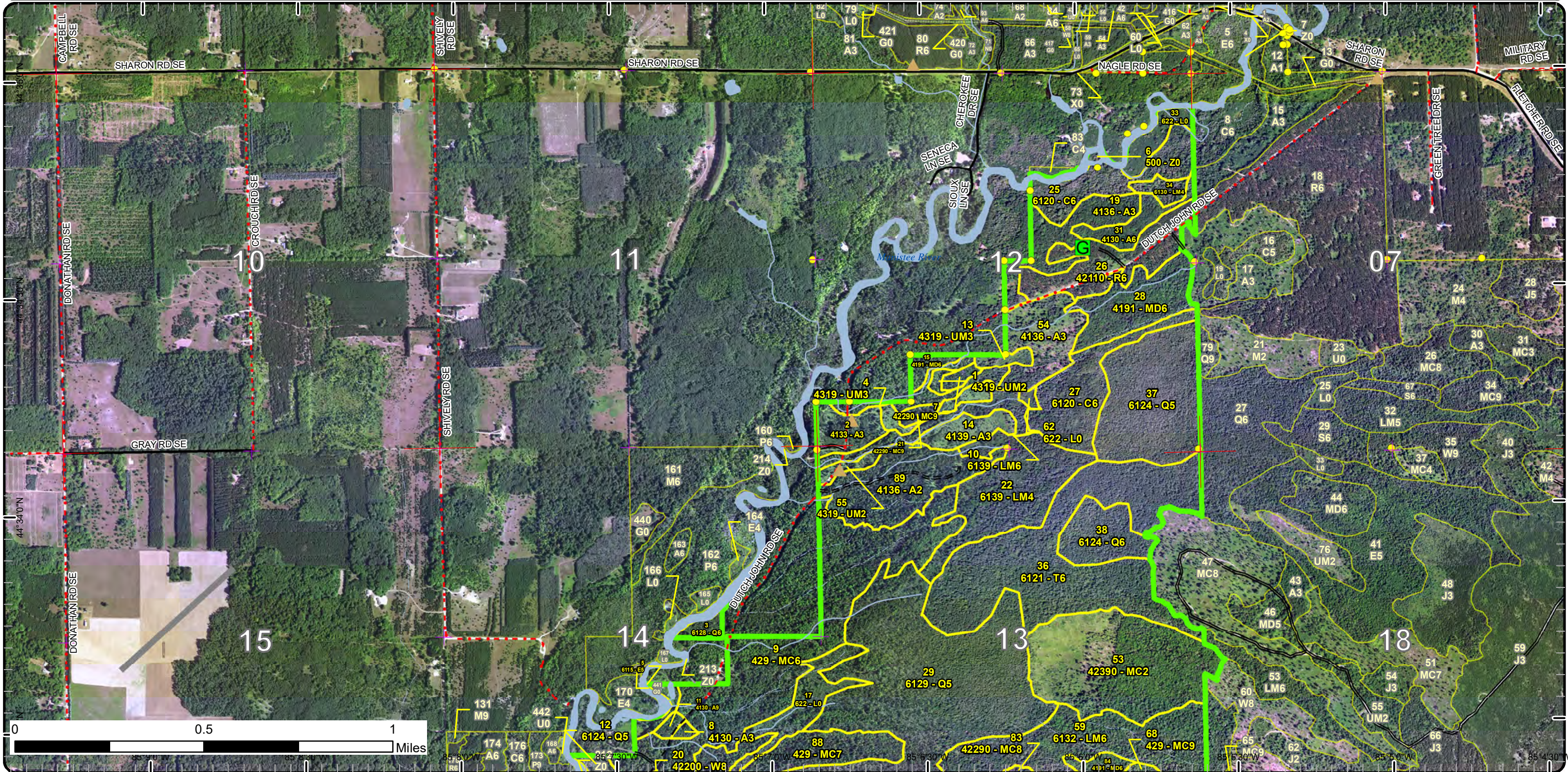


Stand Boundary Map

Compartment: 243
 T25N R07W 12-14, 22-24
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Manistee River Valley
 YOE: 2024
 Acres: 2407.8 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 10/17/2022
 Map Phase: Post Review

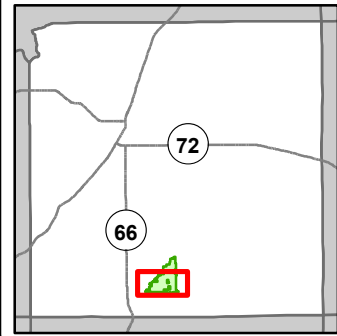


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- ▲ Berms
- G Gate
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Airports
- Compartment Boundary
- Stand Boundaries
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 500 - Water
- 622 - Lowland Shrub
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest

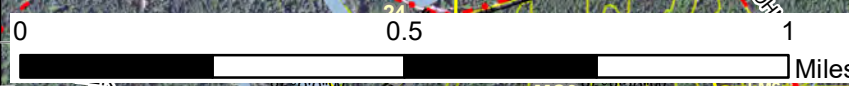
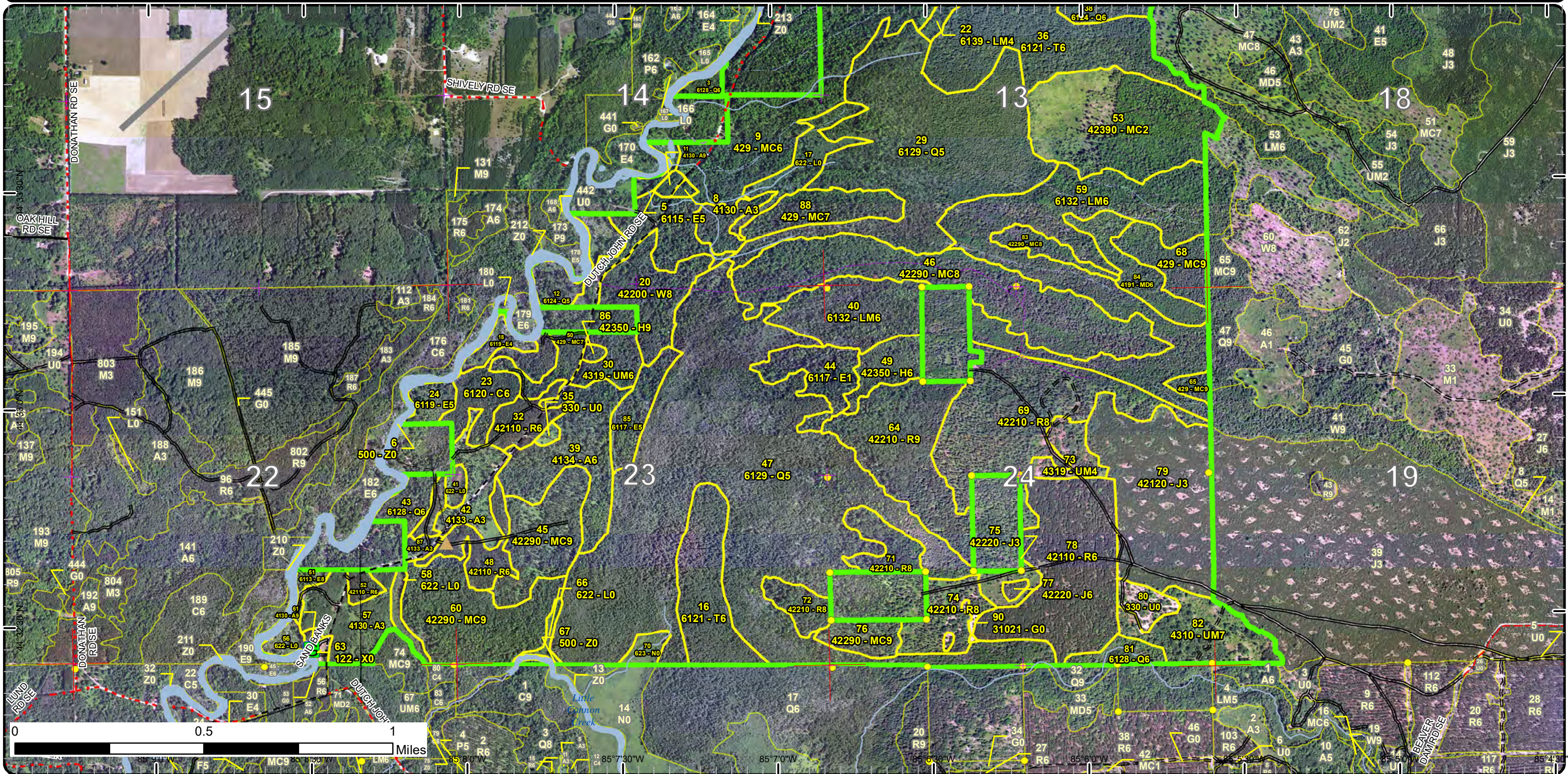


Stand Boundary Map

Compartment: 243
 T25N R07W 12-14, 22-24
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Manistee River Valley
 YOE: 2024
 Acres: 2407.8 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 10/17/2022
 Map Phase: Post Review



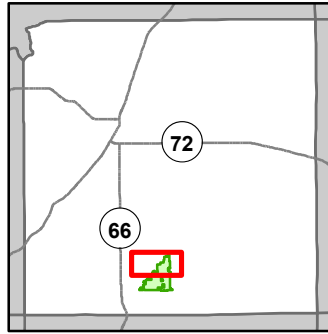
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Berms
- G Gate
- B Boating Access Site
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Non-Designated Recreational Trail
- Airports
- Compartment Boundary
- Stand Boundaries
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines



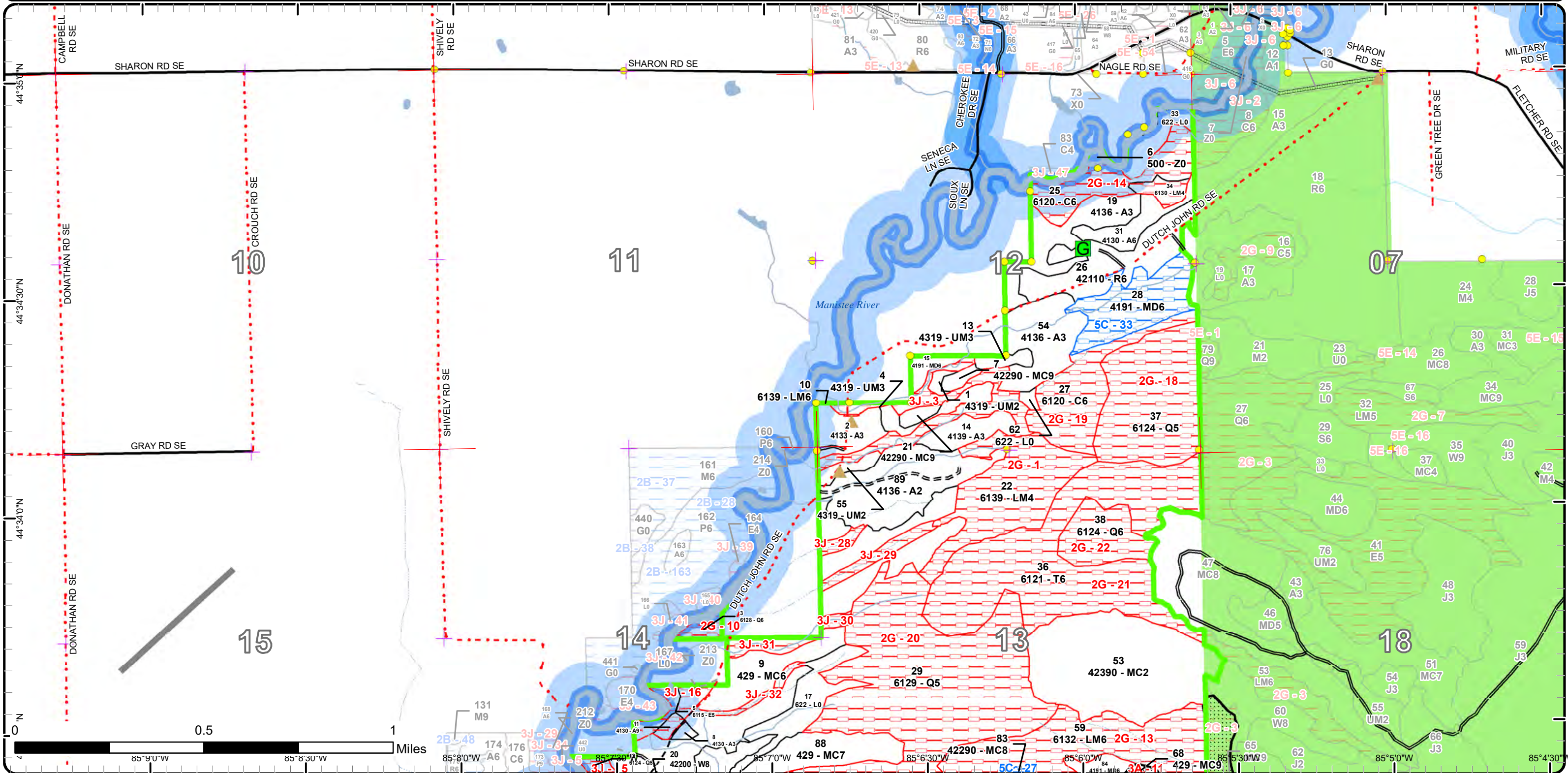
0 0.5 1 Miles

Special Conservation Areas

Compartment: 243
 T25N R07W 12-14, 22-24
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Manistee River Valley
 YOE: 2024
 Acres: 2407.8 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 10/17/2022
 Map Phase: Post Review

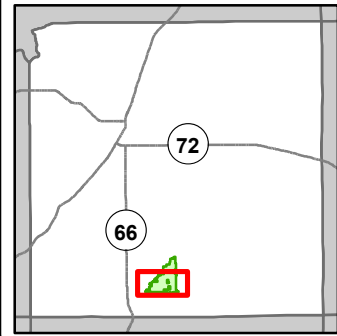


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Berms
- G Gate
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Airports
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

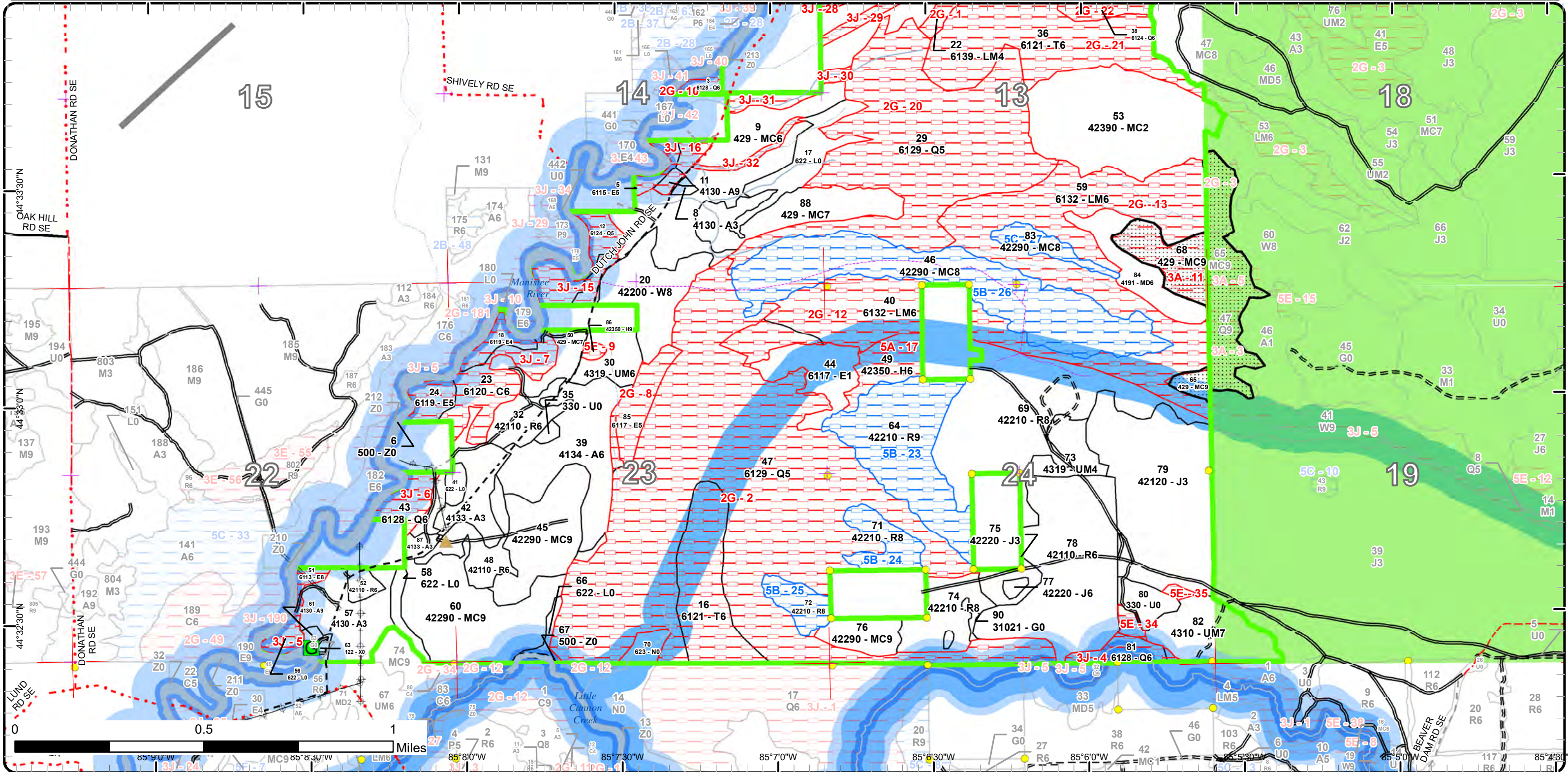


Special Conservation Areas

Compartment: 243
 T25N R07W 12-14, 22-24
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Manistee River Valley
 YOE: 2024
 Acres: 2407.8 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 10/17/2022
 Map Phase: Post Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Berms
- G Gate
- B Boating Access Site
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Non-Designated Recreational Trail
- Airports
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	88	31	36	0	10	43	2	1	0	0	0	0	0	0	0	0	0	211
Cedar	0	0	0	0	0	0	0	0	0	0	0	77	0	0	0	0	0	0	76
Hemlock	0	0	0	0	0	0	0	0	0	14	0	2	0	0	0	0	0	0	16
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	0	89	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	91
Low-Density Trees	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	0	0	0	0	0	0	23	4	552	0	0	0	0	0	0	578
Lowland Deciduous	0	21	0	0	0	0	15	6	0	4	11	0	0	0	0	0	0	0	56
Lowland Mixed Forest	0	0	0	0	0	0	0	0	148	84	0	0	0	0	0	0	0	0	232
Lowland Shrub	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	0	0	0	0	28	0	24	0	0	0	0	0	0	0	0	0	52
Natural Mixed Pines	0	0	0	0	0	0	0	0	46	52	0	5	98	0	0	0	0	0	201
Red Pine	0	0	0	0	0	0	118	43	77	81	0	0	0	0	0	0	0	0	318
Tamarack	0	0	0	0	0	0	0	0	0	106	0	39	0	0	0	0	0	0	145
Upland Conifers	0	73	0	0	0	0	0	0	31	121	0	0	23	0	0	0	0	0	248
Upland Mixed Forest	0	2	14	0	0	0	15	0	12	0	32	0	0	0	0	0	0	0	75
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
White Pine	0	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	29
Total	80	184	134	36	2	10	219	51	368	485	47	675	121	0	0	0	0	0	2408



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 243
Total Compartment Acres: 2,408

Commercial Harvest - 261
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	43	0	0	0	0	0	0	0	0	43
Natural Mixed Pines	0	35	0	0	0	0	0	0	0	35
Red Pine	0	0	0	0	0	112	0	0	0	112
Upland Conifers	0	0	0	32	0	0	0	0	0	32
Upland Mixed Forest	0	0	0	0	12	0	27	0	0	39
Total	43	35	0	32	12	112	27	0	0	261

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	261	0	0	0	0	0	0	10	0	271
Next Step	0	0	0	0	0	0	122	0	0	122
Total	261	0	0	0	0	0	122	0	10	393



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
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

Proposed Treatments:

9	61243009-Cut	32.4	429 - Mixed Upland Conifers	Poletimber Well	85	81-110	Harvest	Seed Tree	429 - Mixed Upland Conifers	Two-Aged	No
----------	---------------------	------	-----------------------------	-----------------	----	--------	---------	-----------	-----------------------------	----------	----

Prescription Appropriately buffer drainages. Mark white pine to leave as a seed source. BA can be variable (10-50). Leave all hemlock and cedar.
Specs: Harvest all other species.

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

Acceptable Pine, aspen, cherry, fir, maple, hemlock.
Regen:

Other Lots of species diversity, Several drainages and a few creeks. Mostly upland but there are some low ground areas. Treatment would like to promote white pine and mixed conifers.
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

30	61243030-Cut	12.3	4319 - Mixed Upland Forest	Poletimber Well	75	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Two-Aged	No
-----------	---------------------	------	----------------------------	-----------------	----	--------	---------	-------------	----------------------------	----------	----

Prescription Leave the hemlock and cedar and mark some white pine to leave as seed source. Retention can be left along the drainage in the middle of the stand. Drainage will also need to be armored up to cross it (recommend crane mats). Stand 86 is retention for this treatment.
Specs:

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

Acceptable aspen, maple, birch, cherry, fir, pine.
Regen:

Other Upland mixed stand. Drainage runs through the middle of the stand. Hemlock and cedar along the drainage. Aspen and red maple are declining
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

32	61243032-Cut	12.8	42110 - Planted Red Pine	Poletimber Well	55	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	------	--------------------------	-----------------	----	---------	---------	----------------	-------------------------	-----------	----

Prescription Thin stand down to a residual BA of about 120
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

39	61243039-Cut	43.2	4134 - Aspen, Spruce/Fir	Poletimber Well	55	51-80	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
-----------	---------------------	------	--------------------------	-----------------	----	-------	---------	-------------------------	-----------------------------	-----------	----

Prescription Clear cut stand. Mark some white pine to leave for a seed source. Try to protect some of the pine that is already established in the understory.
Specs:

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

Acceptable aspen, maple, cherry, fir, pine.
Regen:

Other Some lower ground conditions along the east boundary.
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



S
t
a
n
d

Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
45	61243045-Cut	34.5	42290 - Natural Mixed Pine	Sawtimber Well	73	111-140	Harvest	Single Tree Selection	4220 - Natural White Pine	Uneven-Aged	No
<p><u>Prescription</u> Continue to open up the canopy to encourage the white pine regen. Residual stocking can be variable but a rough target of 80-100sqft/ac. <u>Specs:</u> South and east edges of the stand look like they might be on soft ground. Protect advanced regen as much as possible during the harvest. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> pine, fir and spruce. <u>Regen:</u> <u>Other</u> Nice quality mixed pine. Some pockets of R9. A few areas where stocking is moderate to low. A bit of regenerating white pine. Stand was <u>Comment:</u> thinned in 2008 The areas with less overstory are regenerating well, mostly with white pine <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
48	61243048-Cut	19.4	42110 - Planted Red Pine	Poletimber Well	62	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand for a second time. Bring residual BA down to about 120. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Survey request has been submitted 1/5/2022 <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
52	61243052-Cut	4.0	42110 - Planted Red Pine	Poletimber Well	62	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand for a second time with a target BA of 120. Also, cut out the aspen clone. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Underground powerline runs through the stand. Survey request submitted 1/5/22 <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>											
78	61243078-Cut	75.3	42110 - Planted Red Pine	Poletimber Well	54	81-110	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin red pine down to a residual BA of 120-140sqft/ac. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Row spacing looks to be wide enough for equipment. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</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
82 61243082-Cut	26.9	4310 - Pine, Oak Mix	Sawtimber Poor	95	1-50	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Remove the bulk of the overstory oak. Leave white pine for diversity and leave the white oak for mast. Try to minimize damage to the advanced regen as much as possible. Give little Cannon Cr. and appropriate buffer. Retention has already been mapped out with the shape of the treatment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> aspen, red maple, white pine, oak, cherry. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
90 61243090-NF	1.8	31021 - Cool Season Grass	Nonstocked	0	Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> This opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil will support it. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
80 NF_61243080-NonFor	8.0	330 - Low-Density Trees	Nonstocked			NonForestMgt	Other - Specify	31021 - Cool Season Grass		No
<p><u>Prescription</u> This opening is a traditional wildlife planting. Disk in crab/quack grass, plant to annual rye for several years and then convert back to a pasture mix (i.e. clover/alfalfa). Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 270.6

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 243
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5B	5C	2G	3A	3J	5A	5E
212	210	0	2	Aspen					2		
76	0	0	76	Cedar			53		23		
16	0	0	16	Hemlock						14	1
2	2	0	0	Herbaceous Openland							
90	90	0	0	Jack Pine							
10	10	0	0	Low-Density Trees							0
578	1	0	577	Lowland Conifers			545		32		0
56	20	0	36	Lowland Deciduous			15		21		
232	0	0	232	Lowland Mixed Forest			208		23		
44	40	0	4	Lowland Shrub					4		
5	5	0	0	Marsh							
52	24	28	0	Mixed Upland Deciduous		28					
201	103	98	0	Natural Mixed Pines	89	9					
319	239	81	0	Red Pine	81						
145	0	0	145	Tamarack			145				
248	204	0	45	Upland Conifers				19	26		
73	69	0	4	Upland Mixed Forest					1		4
2	2	0	0	Urban							
17	17	0	0	Water			0		0		
29	29	0	0	White Pine					0		
2,408	1,064	207	1,137	Total Forested Acres	170	37	966	19	133	14	5
	44%	9%	47%	Relative Percent							

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

Site No.	Dominant Site Cond	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		2G: Too wet (sensitive soils, does not include access issues)	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 243
Year of Entry: 2024

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	355	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Steve Crigier : Examiner

Compartment: 243

Year of Entry: 2024

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: A few drainages.							
9	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 30 harvest							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3A: Conservation Values incompatible with harvest at this time	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	120	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: several seasonal drainages.							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 243
Year of Entry: 2024

14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5A: Not able to obtain desirable regeneration	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 243
Year of Entry: 2024

20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	142	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	106	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Seasonal drainage							
23	Available	5B: Maintain for regeneration purposes	57	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 243
Year of Entry: 2024

26	Available	5B: Maintain for regeneration purposes	89	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 243
Year of Entry: 2024

32	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	5E: Long-Term Retention	3	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	5E: Long-Term Retention	1	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	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
1	4319 - Mixed Upland Forest	Sapling Medium	1.5	6	Immature	N/A	Stand was cut with stand 7 in 2016. Slowly starting to fill in with a mix of species.																																						
<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>35</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> <tr> <td>White Pine</td> <td>20</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>30</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>15</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	35	Sapling	1	7	White Pine	20	Sapling	1		Black Cherry	30	Sapling	1		Quaking Aspen	15	Sapling	2																				
Canopy Species	% Cover	Size Class	DBH	Age																																									
Balsam Fir	35	Sapling	1	7																																									
White Pine	20	Sapling	1																																										
Black Cherry	30	Sapling	1																																										
Quaking Aspen	15	Sapling	2																																										
2	4133 - Aspen, Mixed Pine	Sapling Well	12.0	13	Immature	N/A	2021- stand was cut in 2008. Stand is well stocked and Aspen is about 30' tall. scattered large white pine scattered throughout.																																						
<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>Quaking Aspen</td> <td>65</td> <td>Sapling</td> <td>2</td> <td>14</td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>15</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	65	Sapling	2	14	White Pine	15	Log/Pole	12		Balsam Fir	15	Sapling/Pole	4		Red Pine	5	Log/Pole	12		<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>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Trace</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Trace	Variable	Sapling	Balsam Fir	Trace	< 5 feet	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																									
Quaking Aspen	65	Sapling	2	14																																									
White Pine	15	Log/Pole	12																																										
Balsam Fir	15	Sapling/Pole	4																																										
Red Pine	5	Log/Pole	12																																										
Sub-Canopy Species	Density	Avg. Height	Size																																										
White Pine	Trace	Variable	Sapling																																										
Balsam Fir	Trace	< 5 feet	Sapling																																										
3	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	3.6	92	81-110	N/A	landlocked swampy E/Q type. Along river will never be managed, Ravine with drain @ south end of stand.																																						
<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>20</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>25</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>30</td> <td>Pole</td> <td>8</td> <td>92</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Pole/Log	9		Balsam Fir	20	Pole	7		Hemlock	25	Pole/Log	9		Paper Birch	5	Pole	8		Northern White Cedar	30	Pole	8	92	<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>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																									
Red Maple	20	Pole/Log	9																																										
Balsam Fir	20	Pole	7																																										
Hemlock	25	Pole/Log	9																																										
Paper Birch	5	Pole	8																																										
Northern White Cedar	30	Pole	8	92																																									
Sub-Canopy Species	Density	Avg. Height	Size																																										
Balsam Fir	Low	Variable	Sapling																																										
4	4319 - Mixed Upland Forest	Sapling Well	6.2	19	Immature	N/A	Go filling in with Balsam & white pine. Still some open areas but overall calling a forested stand this YOE.																																						
<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>35</td> <td>Sapling</td> <td>1</td> <td>20</td> </tr> <tr> <td>White Pine</td> <td>20</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>15</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>30</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	35	Sapling	1	20	White Pine	20	Sapling	1		Quaking Aspen	15	Sapling	2		Black Cherry	30	Sapling	1																				
Canopy Species	% Cover	Size Class	DBH	Age																																									
Balsam Fir	35	Sapling	1	20																																									
White Pine	20	Sapling	1																																										
Quaking Aspen	15	Sapling	2																																										
Black Cherry	30	Sapling	1																																										
5	6115 - Lowland Ash	Poletimber Medium	4.0	84	1-50	N/A	LO/E5 along Manistee river.																																						
<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 Ash</td> <td>100</td> <td>Pole</td> <td>6</td> <td>85</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Ash	100	Pole	6	85	<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>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	Low	Variable	Tall Shrub																								
Canopy Species	% Cover	Size Class	DBH	Age																																									
Black Ash	100	Pole	6	85																																									
Sub-Canopy Species	Density	Avg. Height	Size																																										
Tag Alder	Low	Variable	Tall Shrub																																										
6	500 - Water	Nonstocked	15.9			No																																							
7	42290 - Natural Mixed Pine	Sawtimber Well	2.5	104	81-110	N/A	2021 - Nice quality natural pine. stand was thinned in 2016. Manage for the white pine regen into the future.																																						
<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 Pine</td> <td>40</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>55</td> <td>Log</td> <td>14</td> <td>105</td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	40	Log	14		Red Pine	55	Log	14	105	Paper Birch	5	Pole	8		<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>Trace</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Trace	< 5 feet	Sapling														
Canopy Species	% Cover	Size Class	DBH	Age																																									
White Pine	40	Log	14																																										
Red Pine	55	Log	14	105																																									
Paper Birch	5	Pole	8																																										
Sub-Canopy Species	Density	Avg. Height	Size																																										
White Pine	Trace	< 5 feet	Sapling																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
8	4130 - Aspen	Sapling Well	1.2	3	Immature	N/A	2012 - private property until 2016 and then it comes back to the state. 2021 - Aspen pocket was cut in 2018 and is regenerating well to aspen. Scattered large white pine were left.																																																													
<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>75</td> <td>Sapling</td> <td>1</td> <td>4</td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	75	Sapling	1	4	White Pine	15	Log/Pole	12		Red Maple	10	Sapling	1		<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>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling																																					
Canopy Species	% Cover	Size Class	DBH	Age																																																																
Bigtooth Aspen	75	Sapling	1	4																																																																
White Pine	15	Log/Pole	12																																																																	
Red Maple	10	Sapling	1																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
White Pine	Medium	Variable	Sapling																																																																	
9	429 - Mixed Upland Conifers	Poletimber Well	111.4	85	81-110	N/A	2012 - Highly variable stand. Drain areas throughout, some are bed and banky. Some Hemlock and cedar along drain areas. Scattered super canopy white pine & red pine. Some areas of blown down fir. 2021 - Lots of species diversity, Several drainages and a few creeks. Mostly upland but there are some low ground areas. Southend has some dense pockets of hemlock and cedar.																																																													
<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>Quaking Aspen</td> <td>10</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>10</td> <td>Pole</td> <td>8</td> <td>85</td> </tr> <tr> <td>Balsam Fir</td> <td>25</td> <td>Pole</td> <td>7</td> <td>85</td> </tr> <tr> <td>Northern White Cedar</td> <td>15</td> <td>Pole</td> <td>7</td> <td>85</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log/Pole/XLog</td> <td>14</td> <td>85</td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td>85</td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Pole/Log</td> <td>9</td> <td>85</td> </tr> <tr> <td>Hemlock</td> <td>5</td> <td>Pole/Log</td> <td>9</td> <td>85</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	10	Pole/Log	9		Black Spruce	5	Pole	7		Paper Birch	10	Pole	8	85	Balsam Fir	25	Pole	7	85	Northern White Cedar	15	Pole	7	85	White Pine	10	Log/Pole/XLog	14	85	Red Pine	5	Log/Pole	12	85	Red Maple	15	Pole/Log	9	85	Hemlock	5	Pole/Log	9	85	<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>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	Variable	Sapling	White Pine	Low	Variable	Sapling			
Canopy Species	% Cover	Size Class	DBH	Age																																																																
Quaking Aspen	10	Pole/Log	9																																																																	
Black Spruce	5	Pole	7																																																																	
Paper Birch	10	Pole	8	85																																																																
Balsam Fir	25	Pole	7	85																																																																
Northern White Cedar	15	Pole	7	85																																																																
White Pine	10	Log/Pole/XLog	14	85																																																																
Red Pine	5	Log/Pole	12	85																																																																
Red Maple	15	Pole/Log	9	85																																																																
Hemlock	5	Pole/Log	9	85																																																																
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
Balsam Fir	Medium	Variable	Sapling																																																																	
White Pine	Low	Variable	Sapling																																																																	
10	6139 - Mixed Lowland Forest	Poletimber Well	23.4	74	51-80	N/A	2021- Stand is a mix of species and has several seasonal drainages running through it. It has been worked around for the most part and is working as a riparian buffer to the drainages.																																																													
<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>8</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Pole</td> <td>8</td> <td>75</td> </tr> <tr> <td>Paper Birch</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	15	Pole	8		Red Maple	25	Pole	8	75	Paper Birch	15	Pole	7		Quaking Aspen	15	Pole	7		White Pine	15	Pole/Log	9		Balsam Fir	15	Pole	7		<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>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Trace	Variable	Sapling	Balsam Fir	Medium	Variable	Sapling																		
Canopy Species	% Cover	Size Class	DBH	Age																																																																
Northern White Cedar	15	Pole	8																																																																	
Red Maple	25	Pole	8	75																																																																
Paper Birch	15	Pole	7																																																																	
Quaking Aspen	15	Pole	7																																																																	
White Pine	15	Pole/Log	9																																																																	
Balsam Fir	15	Pole	7																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
White Pine	Trace	Variable	Sapling																																																																	
Balsam Fir	Medium	Variable	Sapling																																																																	
11	4130 - Aspen	Sawtimber Well	2.0	64	111-140	N/A	2012 - private property until 2016 and then it comes back to the state. Should hold good for this entry cycle and majority of the stand is within natural river corridor, east of road can likely be cut next YOY. There is a cottage and several outbuildings at the rivers edge.																																																													
<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 Pine</td> <td>15</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>75</td> <td>Log/Pole</td> <td>10</td> <td>65</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	15	Log/Pole	12		Red Maple	10	Pole/Log	9		Bigtooth Aspen	75	Log/Pole	10	65	<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>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling																																					
Canopy Species	% Cover	Size Class	DBH	Age																																																																
White Pine	15	Log/Pole	12																																																																	
Red Maple	10	Pole/Log	9																																																																	
Bigtooth Aspen	75	Log/Pole	10	65																																																																
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
White Pine	Medium	Variable	Sapling																																																																	
12	6124 - Lowland Spruce-Fir	Poletimber Medium	14.7	84	1-50	N/A	2021 - small pocket of mixed conifers. stand is within the natural river corridor.																																																													
<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>25</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>25</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>30</td> <td>Pole/Sapling</td> <td>6</td> <td>85</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	25	Pole	8		Black Spruce	25	Pole/Sapling	6		Red Maple	20	Pole	7		Balsam Fir	30	Pole/Sapling	6	85	<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																																																																
Northern White Cedar	25	Pole	8																																																																	
Black Spruce	25	Pole/Sapling	6																																																																	
Red Maple	20	Pole	7																																																																	
Balsam Fir	30	Pole/Sapling	6	85																																																																
Sub-Canopy Species	Density	Avg. Height	Size																																																																	
Tag Alder	Medium	Variable	Tall Shrub																																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
13	4319 - Mixed Upland Forest	Sapling Well	3.4	19	Immature	N/A	Go filling in with Balsam & white pine. Still some open areas but overall calling a forested stand this YOE.																																									
<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>Quaking Aspen</td> <td>15</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>30</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>35</td> <td>Sapling</td> <td>1</td> <td>20</td> </tr> <tr> <td>White Pine</td> <td>20</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	15	Sapling	2		Black Cherry	30	Sapling	1		Balsam Fir	35	Sapling	1	20	White Pine	20	Sapling	1																							
Canopy Species	% Cover	Size Class	DBH	Age																																												
Quaking Aspen	15	Sapling	2																																													
Black Cherry	30	Sapling	1																																													
Balsam Fir	35	Sapling	1	20																																												
White Pine	20	Sapling	1																																													
14	4139 - Aspen, Mixed Deciduous	Sapling Well	9.9	23	Immature	N/A	2012 - Stand slow to fill back in, most has aspen present, open areas filling in with spruce, fir, white pine. wet areas of stand have LO 2021 - cherry seems to have filled in the gaps. Also, getting a trace of white pine.																																									
<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>10</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>50</td> <td>Sapling</td> <td>3</td> <td>24</td> </tr> <tr> <td>Balsam Fir</td> <td>15</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>20</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Sapling	2		Quaking Aspen	50	Sapling	3	24	Balsam Fir	15	Sapling	2		Black Cherry	20	Sapling	1		Paper Birch	5	Sapling	1		<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>Trace</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Trace	5 - 10 feet	Sapling	Tag Alder	Low	Variable	Tall Shrub			
Canopy Species	% Cover	Size Class	DBH	Age																																												
Red Maple	10	Sapling	2																																													
Quaking Aspen	50	Sapling	3	24																																												
Balsam Fir	15	Sapling	2																																													
Black Cherry	20	Sapling	1																																													
Paper Birch	5	Sapling	1																																													
Sub-Canopy Species	Density	Avg. Height	Size																																													
White Pine	Trace	5 - 10 feet	Sapling																																													
Tag Alder	Low	Variable	Tall Shrub																																													
15	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.0	74	81-110	N/A	2012 - Most is upland but stand has many drains throughout. Some should be treatable as many of the drains are not bed and bankey but more LO/E4 drains. 2021- Mixed upland with many drainages.																																									
<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>Quaking Aspen</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>40</td> <td>Pole</td> <td>8</td> <td>75</td> </tr> <tr> <td>Paper Birch</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	15	Pole	7		White Pine	15	Pole/Log	9		Balsam Fir	15	Pole	7		Red Maple	40	Pole	8	75	Paper Birch	15	Pole	7		<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>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	Variable	Sapling	White Pine	Trace	Variable	Sapling			
Canopy Species	% Cover	Size Class	DBH	Age																																												
Quaking Aspen	15	Pole	7																																													
White Pine	15	Pole/Log	9																																													
Balsam Fir	15	Pole	7																																													
Red Maple	40	Pole	8	75																																												
Paper Birch	15	Pole	7																																													
Sub-Canopy Species	Density	Avg. Height	Size																																													
Balsam Fir	Medium	Variable	Sapling																																													
White Pine	Trace	Variable	Sapling																																													
16	6121 - Tamarack	Poletimber Well	38.6	109	81-110	N/A	2021- Good heights on the Tamarack. Ground is very wet.																																									
<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>20</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>70</td> <td>Pole</td> <td>8</td> <td>110</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	20	Pole	7		Balsam Fir	10	Pole	7		Tamarack	70	Pole	8	110	<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>High</td> <td>5 - 10 feet</td> <td>Tall Shrub</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	Tag Alder	High	5 - 10 feet	Tall Shrub	Balsam Fir	Low	Variable	Sapling													
Canopy Species	% Cover	Size Class	DBH	Age																																												
Northern White Cedar	20	Pole	7																																													
Balsam Fir	10	Pole	7																																													
Tamarack	70	Pole	8	110																																												
Sub-Canopy Species	Density	Avg. Height	Size																																													
Tag Alder	High	5 - 10 feet	Tall Shrub																																													
Balsam Fir	Low	Variable	Sapling																																													
17	622 - Lowland Shrub	Nonstocked	18.3	2021		No	Very wet drain areas. Some scattered timber but mostly tag alder.																																									
18	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	6.1	69		N/A	Lowland hardwood along manistee river																																									
<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>Paper Birch</td> <td>20</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>50</td> <td>Pole</td> <td>7</td> <td>70</td> </tr> <tr> <td>Quaking Aspen</td> <td>20</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	20	Pole	7		Balsam Fir	10	Pole/Sapling	6		Red Maple	50	Pole	7	70	Quaking Aspen	20	Pole	8		<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>High</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Tag Alder	High	Variable	Tall Shrub												
Canopy Species	% Cover	Size Class	DBH	Age																																												
Paper Birch	20	Pole	7																																													
Balsam Fir	10	Pole/Sapling	6																																													
Red Maple	50	Pole	7	70																																												
Quaking Aspen	20	Pole	8																																													
Sub-Canopy Species	Density	Avg. Height	Size																																													
Tag Alder	High	Variable	Tall Shrub																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
19	4136 - Aspen, Mixed Conifer	Sapling Well	21.6	6	Immature	N/A	2012 - Drainage in southwest part of the stand. Stand was harvested in 2015. All aspen and red maple were cut. Scattered red pine, white pine and oak were left as well as fir less than 4 inches. 2021 - Aspen and red maple are regenerating well, ~10' tall.																																																															
<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>13</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>White Oak</td> <td>2</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>50</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> <tr> <td>Red Oak</td> <td>3</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	13	Sapling	2		White Oak	2	Log	14		White Pine	5	Log/Pole	10		Quaking Aspen	50	Sapling	1	7	Red Oak	3	Log	14		Red Pine	2	Pole	8		Red Maple	25	Sapling	1	7																							
Canopy Species	% Cover	Size Class	DBH	Age																																																																		
Balsam Fir	13	Sapling	2																																																																			
White Oak	2	Log	14																																																																			
White Pine	5	Log/Pole	10																																																																			
Quaking Aspen	50	Sapling	1	7																																																																		
Red Oak	3	Log	14																																																																			
Red Pine	2	Pole	8																																																																			
Red Maple	25	Sapling	1	7																																																																		
20	42200 - Natural White Pine	Sawtimber Medium	28.8	74	51-80	N/A	2017 - stand cut with 243 tin can mix in 2017. Cut out most or all maple, birch and aspen. Cut fir over 4-6" dbh and mark the rest down to ~90-120BA. Mainly a removal from below, save the nicer poles and small log sized trees. More of a thinning in most areas. 2021 - Aspen is regenerating well in the areas that were cut heavier. Some white pine in the understory also.																																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> <td>Quaking Aspen</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>80</td> <td>Log/Pole</td> <td>12</td> <td>75</td> <td>Red Maple</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	10	Pole	8		Balsam Fir	Low	Variable	Sapling	Red Pine	10	Log/Pole	12		Quaking Aspen	High	5 - 10 feet	Sapling	White Pine	80	Log/Pole	12	75	Red Maple	Medium	< 5 feet	Sapling						White Pine	Low	Variable	Sapling																		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																														
Red Maple	10	Pole	8		Balsam Fir	Low	Variable	Sapling																																																														
Red Pine	10	Log/Pole	12		Quaking Aspen	High	5 - 10 feet	Sapling																																																														
White Pine	80	Log/Pole	12	75	Red Maple	Medium	< 5 feet	Sapling																																																														
					White Pine	Low	Variable	Sapling																																																														
21	42290 - Natural Mixed Pine	Sawtimber Well	2.4	104	81-110	N/A	2021 - Nice quality natural pine. stand was thinned in 2016. Manage for the white pine regen into the future.																																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>55</td> <td>Log</td> <td>14</td> <td>105</td> <td>White Pine</td> <td>Trace</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>40</td> <td>Log</td> <td>14</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	55	Log	14	105	White Pine	Trace	< 5 feet	Sapling	White Pine	40	Log	14						Paper Birch	5	Pole	8																																
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																														
Red Pine	55	Log	14	105	White Pine	Trace	< 5 feet	Sapling																																																														
White Pine	40	Log	14																																																																			
Paper Birch	5	Pole	8																																																																			
22	6139 - Mixed Lowland Forest	Poletimber Poor	46.1	84	1-50	N/A	2021 - Scattered timber over Tag Alder. very wet.																																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> <td>Tag Alder</td> <td>High</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Pole</td> <td>8</td> <td>85</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Pole</td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tamarack</td> <td>25</td> <td>Pole</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	10	Pole	7		Tag Alder	High	5 - 10 feet	Tall Shrub	Red Maple	25	Pole	8	85					Balsam Fir	20	Pole	7						Tamarack	25	Pole	8						Paper Birch	10	Pole	8						Black Spruce	10	Pole	7					
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																														
Quaking Aspen	10	Pole	7		Tag Alder	High	5 - 10 feet	Tall Shrub																																																														
Red Maple	25	Pole	8	85																																																																		
Balsam Fir	20	Pole	7																																																																			
Tamarack	25	Pole	8																																																																			
Paper Birch	10	Pole	8																																																																			
Black Spruce	10	Pole	7																																																																			
23	6120 - Lowland Cedar	Poletimber Well	23.1	104	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> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>60</td> <td>Pole</td> <td>8</td> <td>105</td> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/Pole/XLog</td> <td>14</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Pole</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Northern White Cedar	60	Pole	8	105	Balsam Fir	Low	Variable	Sapling	White Pine	5	Log/Pole/XLog	14						Red Maple	15	Pole	8						Balsam Fir	10	Pole	7						Black Spruce	10	Pole	7														
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																														
Northern White Cedar	60	Pole	8	105	Balsam Fir	Low	Variable	Sapling																																																														
White Pine	5	Log/Pole/XLog	14																																																																			
Red Maple	15	Pole	8																																																																			
Balsam Fir	10	Pole	7																																																																			
Black Spruce	10	Pole	7																																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
24	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	7.5	94		N/A	Lowland E4-E5 along river
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		10	Pole/Log	9		Tag Alder	
Black Ash		25	Pole	7	95	High	
Red Maple		45	Pole	8	95	Variable	
Balsam Fir		10	Pole	7		Tall Shrub	
Quaking Aspen		10	Pole/Log	9			
25	6120 - Lowland Cedar	Poletimber Well	23.7	104	81-110	N/A	Lots of blow down cedar. Some scattered large white pine. Stand is below a small bluff on the south side. Very wet ground.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		10	Pole	7		Balsam Fir	
Northern White Cedar		70	Pole	7	105	Low	
Black Spruce		5	Pole/Sapling	6		Variable	
White Pine		10	Log/XLog/Pole	14		Sapling	
Balsam Fir		5	Pole	7			
26	42110 - Planted Red Pine	Poletimber Well	29.9	54	111-140	N/A	2012- stand was thinned for a second time in 2015. 2021 - Nice quality red pine. Red maple and aspen coming in underneath. BA'S : 140, 130, 100.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Cherry		5	Pole	8		Red Maple	
Red Pine		95	Pole/Log	9	55	Low	
						< 5 feet	
						Sapling	
						Trace	
						< 5 feet	
						Sapling	
						Low	
						5 - 10 feet	
						Sapling	
						Trace	
						< 5 feet	
						Sapling	
27	6120 - Lowland Cedar	Poletimber Well	29.7	109	111-140	N/A	East edge dense cedar, SW end has more fir and spruce mixed in. Good deer yarding area. blow down areas with regen present. Multiple drains through stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		5	Pole	8		Black Spruce	
Black Spruce		10	Pole	7		Low	
White Pine		10	Log	14		Variable	
Northern White Cedar		55	Pole	7	110	Sapling	
Hemlock		15	Pole	7		Low	
Black Ash		5	Pole	7		Variable	
						Sapling	
28	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	28.3	56	111-140	N/A	2021- Mixed stand and there are a couple of drainages. Aspen looks to be aged out. Some cedar mixed in the south and east part.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		30	Pole	8	56	Balsam Fir	
Balsam Fir		20	Pole	7		Medium	
Paper Birch		10	Pole	8		Variable	
White Pine		8	Log/Pole	12		Sapling	
Northern White Cedar		2	Pole	8			
Red Maple		30	Pole	8			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
29	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	142.2	109	171-200	N/A	2021- very wet swamp. Stocking is pretty low. A few seasonal drainages.																																																
<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>25</td><td>Pole</td><td>8</td><td>110</td></tr> <tr><td>Black Spruce</td><td>25</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>Red Maple</td><td>5</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Paper Birch</td><td>5</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>Balsam Fir</td><td>20</td><td>Pole/Sapling</td><td>6</td><td></td></tr> <tr><td>Hemlock</td><td>5</td><td>Pole</td><td>7</td><td></td></tr> <tr><td>Tamarack</td><td>15</td><td>Pole</td><td>7</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	25	Pole	8	110	Black Spruce	25	Pole	7		Red Maple	5	Pole	8		Paper Birch	5	Pole	7		Balsam Fir	20	Pole/Sapling	6		Hemlock	5	Pole	7		Tamarack	15	Pole	7		<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>5 - 10 feet</td><td>Tall Shrub</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	Tag Alder	Medium	5 - 10 feet	Tall Shrub	Balsam Fir	Low	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Northern White Cedar	25	Pole	8	110																																																			
Black Spruce	25	Pole	7																																																				
Red Maple	5	Pole	8																																																				
Paper Birch	5	Pole	7																																																				
Balsam Fir	20	Pole/Sapling	6																																																				
Hemlock	5	Pole	7																																																				
Tamarack	15	Pole	7																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																				
Tag Alder	Medium	5 - 10 feet	Tall Shrub																																																				
Balsam Fir	Low	Variable	Sapling																																																				
30	4319 - Mixed Upland Forest	Poletimber Well	12.3	75	81-110	N/A	2021- Upland mixed stand. Drainage runs through the middle of the stand. Hemlock and cedar along the drainage. Aspen and red maple are declining.																																																
<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>Hemlock</td><td>5</td><td>Pole/Log</td><td>9</td><td></td></tr> <tr><td>Paper Birch</td><td>10</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Quaking Aspen</td><td>15</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Red Maple</td><td>25</td><td>Pole/Log</td><td>9</td><td>75</td></tr> <tr><td>White Pine</td><td>15</td><td>Log/Pole</td><td>10</td><td></td></tr> <tr><td>Balsam Fir</td><td>20</td><td>Pole</td><td>7</td><td>55</td></tr> <tr><td>Northern White Cedar</td><td>10</td><td>Pole</td><td>8</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Hemlock	5	Pole/Log	9		Paper Birch	10	Pole	8		Quaking Aspen	15	Pole	8		Red Maple	25	Pole/Log	9	75	White Pine	15	Log/Pole	10		Balsam Fir	20	Pole	7	55	Northern White Cedar	10	Pole	8		<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>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	White Pine	Medium	Variable	Sapling	Balsam Fir	Low	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Hemlock	5	Pole/Log	9																																																				
Paper Birch	10	Pole	8																																																				
Quaking Aspen	15	Pole	8																																																				
Red Maple	25	Pole/Log	9	75																																																			
White Pine	15	Log/Pole	10																																																				
Balsam Fir	20	Pole	7	55																																																			
Northern White Cedar	10	Pole	8																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																				
White Pine	Medium	Variable	Sapling																																																				
Balsam Fir	Low	Variable	Sapling																																																				
31	4130 - Aspen	Poletimber Well	10.1	46	51-80	N/A	2021 - Nice quality Aspen with a mix of oak and White pine. West end seems to have smaller diameters and shorter trees. Very healthy aspen. Small patch of planted red pine on the east end.																																																
<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/Sapling</td><td>6</td><td></td></tr> <tr><td>Red Pine</td><td>5</td><td>Pole</td><td>8</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>70</td><td>Pole</td><td>8</td><td>47</td></tr> <tr><td>White Pine</td><td>5</td><td>Log</td><td>12</td><td></td></tr> <tr><td>Red Oak</td><td>5</td><td>Log</td><td>14</td><td></td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	15	Pole/Sapling	6		Red Pine	5	Pole	8		Bigtooth Aspen	70	Pole	8	47	White Pine	5	Log	12		Red Oak	5	Log	14		<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>Balsam Fir</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Sapling	White Pine	Low	Variable	Sapling										
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Red Maple	15	Pole/Sapling	6																																																				
Red Pine	5	Pole	8																																																				
Bigtooth Aspen	70	Pole	8	47																																																			
White Pine	5	Log	12																																																				
Red Oak	5	Log	14																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																				
Balsam Fir	Low	Variable	Sapling																																																				
White Pine	Low	Variable	Sapling																																																				
32	42110 - Planted Red Pine	Poletimber Well	12.8	55	141-170	N/A	2021 - Nice quality pine and tall, row thinned in 2007. Some fir and white pine in the understory. Canopy is pretty tight. B. A.'s: 180, 190, 130																																																
<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 Pine</td><td>100</td><td>Pole</td><td>7</td><td>55</td></tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100	Pole	7	55	<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>Balsam Fir</td><td>Low</td><td>Variable</td><td>Sapling</td></tr> <tr><td>Beech</td><td>Trace</td><td>< 5 feet</td><td>Sapling</td></tr> <tr><td>Quaking Aspen</td><td>Trace</td><td>< 5 feet</td><td>Sapling</td></tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Sapling	Beech	Trace	< 5 feet	Sapling	Quaking Aspen	Trace	< 5 feet	Sapling																										
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Red Pine	100	Pole	7	55																																																			
Sub-Canopy Species	Density	Avg. Height	Size																																																				
Balsam Fir	Low	Variable	Sapling																																																				
Beech	Trace	< 5 feet	Sapling																																																				
Quaking Aspen	Trace	< 5 feet	Sapling																																																				
33	622 - Lowland Shrub	Nonstocked	8.6			No																																																	



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

34	6130 - Fir, Aspen, Maple	Poletimber Poor	4.6	74	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		15	Pole	6		White Pine	
Quaking Aspen		10	Pole	7		Balsam Fir	
Red Maple		30	Pole	6	75		
Balsam Fir		45	Pole/Sapling	6	75		

35	330 - Low-Density Trees	Nonstocked	1.5			No	
-----------	-------------------------	------------	-----	--	--	----	--

36	6121 - Tamarack	Poletimber Well	106.0	84	81-110	N/A	2012 - Some is more open and very wet. Some is very thick and relatively dry. 2021 - Nice stand of tamarck, The parts I looked at are very wet. Overall stocking is pretty good but there are many areas where
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		5	Pole	7		Balsam Fir	
Tamarack		60	Pole	8	85	Black Spruce	
Black Spruce		10	Pole/Sapling	6		Tag Alder	
Paper Birch		10	Pole	8			
Northern White Cedar		15	Pole	6			

37	6124 - Lowland Spruce-Fir	Poletimber Medium	55.4	109	51-80	N/A	Some very dense cedar and some more open mixed with spruce, fir and birch. Very wet.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		5	Pole	7		Balsam Fir	
Balsam Fir		25	Pole	7		Tag Alder	
Black Spruce		25	Pole	7			
Northern White Cedar		40	Pole	8	110		
Paper Birch		5	Pole	7			

38	6124 - Lowland Spruce-Fir	Poletimber Well	19.7	109	141-170	N/A	2021 - Nice tall black spruce. Ground is very wet. At least one seasonal drainage in the stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		35	Pole	8	110	Tag Alder	
Northern White Cedar		20	Log/Pole	10	110		
Paper Birch		10	Pole	8			
Balsam Fir		25	Pole	8			
Tamarack		10	Pole	8			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
39	4134 - Aspen, Spruce/Fir	Poletimber Well	43.2	55	51-80	N/A	2012 - pretty poor shape aspen. stand has more fir and pine as you go north. Hold this YOE and push stand to mixed conifer. should hold ok 10 years. 2021 - Quite a bit of timber falling out. Some soft ground on the east boundary. Understory filling in with white pine and fir.																																																					
<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>Quaking Aspen</td> <td>45</td> <td>Pole</td> <td>8</td> <td>55</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	45	Pole	8	55	White Pine	10	Log/Pole	10		Balsam Fir	20	Pole	7		Paper Birch	5	Pole	8		Red Pine	5	Log/Pole	12		Red Maple	15	Pole	8		<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>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <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	Balsam Fir	Medium	Variable	Sapling	White Pine	Low	Variable	Sapling	Red Maple	Low	Variable	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																																								
Quaking Aspen	45	Pole	8	55																																																								
White Pine	10	Log/Pole	10																																																									
Balsam Fir	20	Pole	7																																																									
Paper Birch	5	Pole	8																																																									
Red Pine	5	Log/Pole	12																																																									
Red Maple	15	Pole	8																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																									
Balsam Fir	Medium	Variable	Sapling																																																									
White Pine	Low	Variable	Sapling																																																									
Red Maple	Low	Variable	Sapling																																																									
40	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	37.9	84	81-110	N/A	West end more LO/E5 and is very wet. South end has some decent cedar. South boundary has a drainage running along it.																																																					
<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>Quaking Aspen</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>30</td> <td>Pole</td> <td>8</td> <td>85</td> </tr> <tr> <td>Hemlock</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	10	Pole	7		Balsam Fir	10	Pole	7		Black Spruce	5	Pole	7		White Pine	5	Log/Pole	12		Paper Birch	10	Pole	7		Northern White Cedar	30	Pole	8	85	Hemlock	5	Pole	7		Red Maple	25	Pole	7		<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>Low</td> <td>Variable</td> <td>Tall Shrub</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	Tag Alder	Low	Variable	Tall Shrub	Balsam Fir	Low	Variable
Canopy Species	% Cover	Size Class	DBH	Age																																																								
Quaking Aspen	10	Pole	7																																																									
Balsam Fir	10	Pole	7																																																									
Black Spruce	5	Pole	7																																																									
White Pine	5	Log/Pole	12																																																									
Paper Birch	10	Pole	7																																																									
Northern White Cedar	30	Pole	8	85																																																								
Hemlock	5	Pole	7																																																									
Red Maple	25	Pole	7																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																									
Tag Alder	Low	Variable	Tall Shrub																																																									
Balsam Fir	Low	Variable	Sapling																																																									
41	622 - Lowland Shrub	Nonstocked	3.3			No																																																						
42	4133 - Aspen, Mixed Pine	Sapling Well	18.8	14	Immature	N/A	2012 - stand cut in 2008, filling in nicely to a mix of Aspen, maple, fir and pine. scattered pine marked to leave and fir under 5" dbh left for seed. looks good should continue to fillin nicely. Jack pine area in the SE is also seeding in nicely. 2021 - Aspen regen is thick and is 20-30' tall.																																																					
<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>Jack Pine</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>40</td> <td>Sapling</td> <td>2</td> <td>15</td> </tr> <tr> <td>Balsam Fir</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Jack Pine	10	Sapling	1		White Pine	15	Log/Pole	12		Red Maple	20	Sapling	1		Quaking Aspen	40	Sapling	2	15	Balsam Fir	15	Sapling	1																													
Canopy Species	% Cover	Size Class	DBH	Age																																																								
Jack Pine	10	Sapling	1																																																									
White Pine	15	Log/Pole	12																																																									
Red Maple	20	Sapling	1																																																									
Quaking Aspen	40	Sapling	2	15																																																								
Balsam Fir	15	Sapling	1																																																									
43	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	9.4	104	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>20</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>45</td> <td>Pole</td> <td>7</td> <td>104</td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Pole	8		Balsam Fir	20	Pole	7		Black Spruce	10	Pole	7		Northern White Cedar	45	Pole	7	104	Paper Birch	5	Pole	7		<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>Black Spruce</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	Black Spruce	Low	Variable	Sapling	Balsam Fir	Low	Variable	Sapling															
Canopy Species	% Cover	Size Class	DBH	Age																																																								
Red Maple	20	Pole	8																																																									
Balsam Fir	20	Pole	7																																																									
Black Spruce	10	Pole	7																																																									
Northern White Cedar	45	Pole	7	104																																																								
Paper Birch	5	Pole	7																																																									
Sub-Canopy Species	Density	Avg. Height	Size																																																									
Black Spruce	Low	Variable	Sapling																																																									
Balsam Fir	Low	Variable	Sapling																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
44	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Poor	20.5	3	Immature	N/A	- 243 Way Back Ridges, 61-056-14, cut in 2018-19. Leave tree marked, cutting all trees greater than 3" dbh. Left all cedar and hemlock. 2021- Mostly low ground with isolated areas of high ground. Red maple sprouts are being browsed heavily. Lots of CWD. Scattered overstory white pine and pockets of cedar were left as residual.																																																																								
<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 Pine</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td>75</td> </tr> <tr> <td>Red Maple</td> <td>50</td> <td>Sapling</td> <td>1</td> <td>4</td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>10</td> <td>Sapling</td> <td>1</td> <td>4</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	White Pine	5	Log/Pole	12	75	Red Maple	50	Sapling	1	4	Balsam Fir	10	Sapling	1		Quaking Aspen	10	Sapling	1		Northern White Cedar	10	Pole	8		Paper Birch	10	Sapling	1	4																																					
Canopy Species	% Cover	Size Class	DBH	Age																																																																											
White Pine	5	Log/Pole	12	75																																																																											
Red Maple	50	Sapling	1	4																																																																											
Balsam Fir	10	Sapling	1																																																																												
Quaking Aspen	10	Sapling	1																																																																												
Northern White Cedar	10	Pole	8																																																																												
Paper Birch	10	Sapling	1	4																																																																											
45	42290 - Natural Mixed Pine	Sawtimber Well	34.5	73	111-140	N/A	2021- Nice quality mixed pine. Some pockets of R9. A few areas where stocking is moderate to low. A bit of regenerating white pine. Stand was thinned in 2008. The areas with less overstory are regenerating well, mostly with white pine. BA's: 70, 150, 130, 110,																																																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>45</td> <td>Log/Pole</td> <td>12</td> <td></td> <td>White Pine</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>55</td> <td>Log/Pole</td> <td>11</td> <td>73</td> <td>Jack Pine</td> <td>Trace</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Red Pine</td> <td>Trace</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	White Pine	45	Log/Pole	12		White Pine	Medium	5 - 10 feet	Sapling	Red Pine	55	Log/Pole	11	73	Jack Pine	Trace	< 5 feet	Sapling						Red Pine	Trace	< 5 feet	Sapling																																				
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																																							
White Pine	45	Log/Pole	12		White Pine	Medium	5 - 10 feet	Sapling																																																																							
Red Pine	55	Log/Pole	11	73	Jack Pine	Trace	< 5 feet	Sapling																																																																							
					Red Pine	Trace	< 5 feet	Sapling																																																																							
46	42290 - Natural Mixed Pine	Sawtimber Medium	89.3	115	81-110	N/A	2018 - 243 Way Back Ridges, 61-056-14, cut 2018-19. Cut tree marked + cut all balsam fir, spruce and aspen greater than 4" dbh. 2012: Scattered big stumps throughout with fire scars. Variable stand. Nice natural pine, some areas thick to white pine and some red pine. Super-canopy trees mixed with pole-sized trees. Red maple, birch, fir, spruce, cedar and hemlock in areas. Long term objective is mixed natural pine. 2021 - A decent amount of white pine is established in the understory. Red maple is coming in some spots. Nice quality overstory pine.																																																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>40</td> <td>Log/XLog/Pole</td> <td>14</td> <td>115</td> <td>Red Maple</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>35</td> <td>Log/XLog/Pole</td> <td>14</td> <td>115</td> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Hemlock</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Northern White Cedar	5	Pole	6		White Pine	Medium	Variable	Sapling	White Pine	40	Log/XLog/Pole	14	115	Red Maple	Low	< 5 feet	Sapling	Red Pine	35	Log/XLog/Pole	14	115	Balsam Fir	Low	Variable	Sapling	Red Maple	5	Pole	8						Paper Birch	10	Pole	7						Hemlock	5	Pole	6														
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																																							
Northern White Cedar	5	Pole	6		White Pine	Medium	Variable	Sapling																																																																							
White Pine	40	Log/XLog/Pole	14	115	Red Maple	Low	< 5 feet	Sapling																																																																							
Red Pine	35	Log/XLog/Pole	14	115	Balsam Fir	Low	Variable	Sapling																																																																							
Red Maple	5	Pole	8																																																																												
Paper Birch	10	Pole	7																																																																												
Hemlock	5	Pole	6																																																																												
47	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	324.9	109	51-80	N/A	Variable stand. Large swamp complex. Some E type and some dense cedar areas as well as some mixed Q type areas. Wet ground, looks inoperable. several drainages and quite a few areas with low to no stocking.																																																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> <td>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Northern White Cedar</td> <td>45</td> <td>Pole</td> <td>8</td> <td>110</td> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Tamarack</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Hemlock</td> <td>5</td> <td>Pole/Log</td> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	15	Pole	7		Tag Alder	Medium	Variable	Tall Shrub	Northern White Cedar	45	Pole	8	110	Balsam Fir	Medium	Variable	Sapling	Balsam Fir	15	Pole	7						Tamarack	10	Pole	6						Paper Birch	5	Pole	8						Hemlock	5	Pole/Log	9						Red Maple	5	Pole	7					
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																																							
Black Spruce	15	Pole	7		Tag Alder	Medium	Variable	Tall Shrub																																																																							
Northern White Cedar	45	Pole	8	110	Balsam Fir	Medium	Variable	Sapling																																																																							
Balsam Fir	15	Pole	7																																																																												
Tamarack	10	Pole	6																																																																												
Paper Birch	5	Pole	8																																																																												
Hemlock	5	Pole/Log	9																																																																												
Red Maple	5	Pole	7																																																																												
48	42110 - Planted Red Pine	Poletimber Well	19.4	62	141-170	N/A	2021- Old fire scarred pine stumps and some white pine mixed into the canopy. Decent heights but diameters look pretty small especially in the south part of the stand. Row thinned in 2007. BA'S: 150, 170,																																																																								
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>90</td> <td>Pole/Log</td> <td>9</td> <td>62</td> <td>White Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Pole/Log</td> <td>9</td> <td></td> <td>Balsam Fir</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	90	Pole/Log	9	62	White Pine	Low	< 5 feet	Sapling	White Pine	10	Pole/Log	9		Balsam Fir	Low	< 5 feet	Sapling																																													
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																																							
Red Pine	90	Pole/Log	9	62	White Pine	Low	< 5 feet	Sapling																																																																							
White Pine	10	Pole/Log	9		Balsam Fir	Low	< 5 feet	Sapling																																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
49	42350 - Upland Hemlock	Poletimber Well	14.1	84	171-200	N/A	Nice dense Hemlock with scattered big white pine. East end has more red maple.																																													
<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/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>70</td> <td>Pole</td> <td>8</td> <td>85</td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/XLog/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	5	Pole/Sapling	6		Paper Birch	5	Pole	7		Northern White Cedar	10	Pole	8		Hemlock	70	Pole	8	85	White Pine	5	Log/XLog/Pole	12		Red Maple	5	Pole	7											
Canopy Species	% Cover	Size Class	DBH	Age																																																
Balsam Fir	5	Pole/Sapling	6																																																	
Paper Birch	5	Pole	7																																																	
Northern White Cedar	10	Pole	8																																																	
Hemlock	70	Pole	8	85																																																
White Pine	5	Log/XLog/Pole	12																																																	
Red Maple	5	Pole	7																																																	
50	429 - Mixed Upland Conifers	Sawtimber Poor	10.3	87	1-50	N/A	2012- this area cut with 243 tin can mix. green tree marked trees to save, should regenerate nicely to aspen, maple, birch, fir and pine.2021- scattered conifers and red maple over regenerating aspen. Regen is about 10' tall and has good stocking. West finger is more of an A3/ F2.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>25</td> <td>Pole/Log</td> <td>9</td> <td></td> <td>Quaking Aspen</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>55</td> <td>Log</td> <td>14</td> <td>88</td> <td>Red Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Hemlock</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	25	Pole/Log	9		Quaking Aspen	High	5 - 10 feet	Sapling	White Pine	55	Log	14	88	Red Maple	Medium	5 - 10 feet	Sapling	Hemlock	15	Pole	7						Paper Birch	5	Pole	8					
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																												
Red Maple	25	Pole/Log	9		Quaking Aspen	High	5 - 10 feet	Sapling																																												
White Pine	55	Log	14	88	Red Maple	Medium	5 - 10 feet	Sapling																																												
Hemlock	15	Pole	7																																																	
Paper Birch	5	Pole	8																																																	
51	6113 - Lowland Maple	Sawtimber Medium	3.2	94	51-80	N/A	Lowland red maple in the Manistee flood plain.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td></td> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Red Maple</td> <td>90</td> <td>Log/Pole</td> <td>10</td> <td>94</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Northern White Cedar	10	Pole/Sapling	6		Tag Alder	Low	5 - 10 feet	Tall Shrub	Red Maple	90	Log/Pole	10	94																						
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																												
Northern White Cedar	10	Pole/Sapling	6		Tag Alder	Low	5 - 10 feet	Tall Shrub																																												
Red Maple	90	Log/Pole	10	94																																																
52	42110 - Planted Red Pine	Poletimber Well	4.0	62	141-170	N/A	2021 - Stand last thinned in 2007 Nice quality pine. Stand has a small clone of aspen. Underground powerline runs through the stand.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>90</td> <td>Pole/Log</td> <td>9</td> <td>62</td> <td>White Pine</td> <td>Trace</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	90	Pole/Log	9	62	White Pine	Trace	< 5 feet	Sapling	Bigtooth Aspen	10	Log/Pole	10																							
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																												
Red Pine	90	Pole/Log	9	62	White Pine	Trace	< 5 feet	Sapling																																												
Bigtooth Aspen	10	Log/Pole	10																																																	
53	42390 - Mixed Non-Pine Upland Conifers	Sapling Medium	73.1	4	Immature	N/A	2021- stand was cut from 2017 to 2019. Cedar, hemlock and scattered white pine were left as well as spruce and fir less than 4". Spruce, fir and pine are filling in quite well. Mix of upland and lowland. Also a few seasonal dramage, one in the northeastern corner.																																													
<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 Pine</td> <td>20</td> <td>Pole/Log/Sap</td> <td>9</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>25</td> <td>Sapling</td> <td>1</td> <td>5</td> </tr> <tr> <td>Black Spruce</td> <td>20</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	White Pine	20	Pole/Log/Sap	9		Balsam Fir	25	Sapling	1	5	Black Spruce	20	Sapling	2		Tamarack	15	Sapling	1		Red Maple	15	Sapling	1		Northern White Cedar	5	Pole	8											
Canopy Species	% Cover	Size Class	DBH	Age																																																
White Pine	20	Pole/Log/Sap	9																																																	
Balsam Fir	25	Sapling	1	5																																																
Black Spruce	20	Sapling	2																																																	
Tamarack	15	Sapling	1																																																	
Red Maple	15	Sapling	1																																																	
Northern White Cedar	5	Pole	8																																																	



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

54	4136 - Aspen, Mixed Conifer	Sapling Well	24.5	7	Immature	N/A	2012- Stand has a couple of drainages in it. It was harvested in 2014, all conifer less than 4" were left as well as scattered leave trees. 2021: Regen is coming in well but kind of patchy in a few spots. Aspen is about 10' tall. Deer having been browsing the red maple back pretty well.
-----------	-----------------------------	--------------	------	---	----------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	2	Log/Pole	12		White Pine	Trace	< 5 feet	Sapling
Black Cherry	5	Sapling	1		Quaking Aspen	Low	5 - 10 feet	Sapling
Red Maple	25	Sapling	1		Balsam Fir	Trace	< 5 feet	Sapling
Paper Birch	3	Pole	7		Red Maple	Low	< 5 feet	Sapling
Balsam Fir	15	Sapling/Pole	3					
Quaking Aspen	45	Sapling	1	8				
White Pine	5	Log/Pole	10					

55	4319 - Mixed Upland Forest	Sapling Medium	3.6	13	Immature	N/A	2021- stand was cut in 2008. Stand is slowly filling in but overall moderate stocking.
-----------	----------------------------	----------------	-----	----	----------	-----	--

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	1		White Pine	Trace	Variable	Sapling
Black Cherry	10	Sapling	1		Balsam Fir	Trace	< 5 feet	Sapling
White Pine	15	Log/Pole	10					
Balsam Fir	30	Sapling/Pole	4					
Quaking Aspen	30	Sapling	2	14				
Red Pine	5	Log/Pole	12					

56	622 - Lowland Shrub	Nonstocked	4.4		Immature	No	
-----------	---------------------	------------	-----	--	----------	----	--

57	4130 - Aspen	Sapling Well	26.4	26	Immature	N/A	2022 - Nice stand of aspen, a mixof quaking and big tooth. Pine and fir mixed in as well.
-----------	--------------	--------------	------	----	----------	-----	---

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	2		Balsam Fir	Low	5 - 10 feet	Sapling
White Pine	5	Sapling	3		White Pine	Low	Variable	Sapling
Bigtooth Aspen	30	Sapling	3	26				
Quaking Aspen	45	Sapling	3	26				
Balsam Fir	10	Sapling	3					

58	622 - Lowland Shrub	Nonstocked	4.7		Immature	No	
-----------	---------------------	------------	-----	--	----------	----	--



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
59	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	119.5	74	51-80	N/A	2021 - Nice mix of species, some very wet areas, also several seasonal drainages. Some dense pockets of hemlock and cedar in the north. Some pockets that are more upland. stocking is variable, moderate to very high.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		5	Pole	8		White Pine		Low	Variable	Sapling
Red Maple		30	Pole	7	75	Tag Alder		Medium	5 - 10 feet	Tall Shrub
Black Spruce		5	Pole	7		Balsam Fir		Low	Variable	Sapling
Northern White Cedar		20	Pole	8						
Hemlock		5	Pole/Sapling	6						
White Pine		10	Log/Pole	10						
Balsam Fir		15	Pole	7						
Paper Birch		10	Pole	8						
60	42290 - Natural Mixed Pine	Sawtimber Well	52.2	84	81-110	N/A	2019 - thinned winter of 2018/2019, turned out good. Cut all red maple, aspen and most of the birch and for and spruce greater than 4" 2021-overstorey stocking is variable. There are pockets where the aspen has flushed nicely. Nice quality white pine. Stand is on a mix of high and low ground.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		5	Pole	8		Balsam Fir		Low	Variable	Sapling
Northern White Cedar		5	Pole	8		Red Maple		Low	< 5 feet	Sapling
White Pine		55	Log/Pole	12	84	White Pine		Low	Variable	Sapling
Red Pine		25	Log/Pole	10		Quaking Aspen		Medium	5 - 10 feet	Sapling
Hemlock		5	Pole	8						
Red Maple		5	Pole	7						
61	4130 - Aspen	Sawtimber Well	1.2	79	81-110	N/A	2012 - Along natural river and has an outhouse in it for the access site. 2022 - Stand was left as long term retention. Understorey is filling in with white pine and fir.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Pole	8		Balsam Fir		Medium	Variable	Sapling
Bigtooth Aspen		90	Log/Pole	12	79	White Pine	Medium	>20 feet	Sapling	
62	622 - Lowland Shrub	Nonstocked	1.3			No				
63	122 - Road/Parking Lot	Nonstocked	1.9				Sand Banks boat access site.			
64	42210 - Natural Red Pine	Sawtimber Well	56.5	84	111-140	N/A	2012: NE end of stand is very dense natural red pine. NW end has some big super canopy red mixed with white pine. South end is more open mixed with white pine. 2021: Cut 2018 as 243 Way Back Ridges, 61-056-14-01. Marked thinning plus cut all balsam fir, spruce and aspen greater than 4" dbh. - Nice quality pine. Not much for regen yet.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Pole	7		Balsam Fir		Trace	Variable	Sapling
Red Pine		70	Log/Pole	11	85	White Pine		Trace	Variable	Sapling
Paper Birch		5	Pole	7		Red Maple		Trace	< 5 feet	Sapling
White Pine		20	Log/Pole	13	85					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
65	429 - Mixed Upland Conifers	Sawtimber Well	3.9	119	201+	N/A	2012 - South end of the stand is very nice mixed white pine super canopy log trees (16-20"dbh) over some dense areas of cedar and hemlock, stand will hold nicely for a while, functioning as a nice deer yarding area.. Unique stand, doesnt look to have been cut since back in the day, very tall trees but diameters arent real huge. Stand goes into two adjacent compartment as well. Manage for big tree management and dense deer cover, stick nest of some sort in a white pine. Possible Type 2 Old Growth.2021-																																								
<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 Pine</td> <td>5</td> <td>Log/Pole/XLog</td> <td>12</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>50</td> <td>Log/Pole</td> <td>10</td> <td>120</td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>White Pine</td> <td>30</td> <td>Log/XLog/Pole</td> <td>14</td> <td>120</td> </tr> <tr> <td>Northern White Cedar</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	5	Log/Pole/XLog	12		Hemlock	50	Log/Pole	10	120	Red Maple	5	Pole	7		Paper Birch	5	Pole	7		White Pine	30	Log/XLog/Pole	14	120	Northern White Cedar	5	Pole	8		<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> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																											
Red Pine	5	Log/Pole/XLog	12																																												
Hemlock	50	Log/Pole	10	120																																											
Red Maple	5	Pole	7																																												
Paper Birch	5	Pole	7																																												
White Pine	30	Log/XLog/Pole	14	120																																											
Northern White Cedar	5	Pole	8																																												
Sub-Canopy Species	Density	Avg. Height	Size																																												
White Pine	Low	Variable	Sapling																																												
66	622 - Lowland Shrub	Nonstocked	3.3			No																																									
67	500 - Water	Nonstocked	1.0			No	Little cannon Creek																																								
68	429 - Mixed Upland Conifers	Sawtimber Well	18.7	119	201+	N/A	2012 - South end of the stand is very nice mixed white pine super canopy log trees (16-20"dbh) over some dense areas of cedar and hemlock, stand will hold nicely for a while, functioning as a nice deer yarding area.. Unique stand, doesnt look to have been cut since back in the day, very tall trees but diameters arent real huge. Stand goes into two adjacent compartment as well. Manage for big tree management and dense deer cover, stick nest of some sort in a white pine. Possible Type 2 Old Growth.2021-																																								
<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>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>30</td> <td>Log/XLog/Pole</td> <td>14</td> <td>120</td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Log/Pole/XLog</td> <td>12</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>50</td> <td>Log/Pole</td> <td>10</td> <td>120</td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Northern White Cedar	5	Pole	8		White Pine	30	Log/XLog/Pole	14	120	Red Pine	5	Log/Pole/XLog	12		Hemlock	50	Log/Pole	10	120	Red Maple	5	Pole	7		Paper Birch	5	Pole	7		<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> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																											
Northern White Cedar	5	Pole	8																																												
White Pine	30	Log/XLog/Pole	14	120																																											
Red Pine	5	Log/Pole/XLog	12																																												
Hemlock	50	Log/Pole	10	120																																											
Red Maple	5	Pole	7																																												
Paper Birch	5	Pole	7																																												
Sub-Canopy Species	Density	Avg. Height	Size																																												
White Pine	Low	Variable	Sapling																																												
69	42210 - Natural Red Pine	Sawtimber Medium	77.4	74	81-110	N/A	2021- Stand was thinned in 2006 as well as all red maple and aspen were cut. Nice quality red pine. Lots of size classes. Aspen and white pine coming in the understory. BA'S: 100, 60, 100,																																								
<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 Pine</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>90</td> <td>Log/Pole</td> <td>13</td> <td>75</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		White Pine	10	Log/Pole	12		Red Pine	90	Log/Pole	13	75	<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>Quaking Aspen</td> <td>High</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	High	10 - 20 feet	Sapling	White Pine	Trace	< 5 feet	Sapling																
Canopy Species	% Cover	Size Class	DBH	Age																																											
White Pine	10	Log/Pole	12																																												
Red Pine	90	Log/Pole	13	75																																											
Sub-Canopy Species	Density	Avg. Height	Size																																												
Quaking Aspen	High	10 - 20 feet	Sapling																																												
White Pine	Trace	< 5 feet	Sapling																																												
70	623 - Emergent Wetland	Nonstocked	4.9			No																																									
71	42210 - Natural Red Pine	Sawtimber Medium	13.7	84	81-110	N/A	- 243 Way Back Ridges, 61-056-14, cut 2018-19. Cut all balsam fir, spruce, aspen and red maple greater than 4" dbh + orange-marked pine. - Residual stocking is a bit patchy but is good quality. Red maple and aspen are filling in the understory.																																								
<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 Pine</td> <td>70</td> <td>Log/Pole</td> <td>10</td> <td>85</td> </tr> <tr> <td>White Pine</td> <td>25</td> <td>Log/Pole/XLog</td> <td>12</td> <td>85</td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	70	Log/Pole	10	85	White Pine	25	Log/Pole/XLog	12	85	Paper Birch	5	Pole	7		<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>Quaking Aspen</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Quaking Aspen	Medium	< 5 feet	Sapling	Red Maple	Medium	< 5 feet	Sapling	Balsam Fir	Low	Variable	Sapling	Black Spruce	Trace	Variable	Sapling			
Canopy Species	% Cover	Size Class	DBH	Age																																											
Red Pine	70	Log/Pole	10	85																																											
White Pine	25	Log/Pole/XLog	12	85																																											
Paper Birch	5	Pole	7																																												
Sub-Canopy Species	Density	Avg. Height	Size																																												
Quaking Aspen	Medium	< 5 feet	Sapling																																												
Red Maple	Medium	< 5 feet	Sapling																																												
Balsam Fir	Low	Variable	Sapling																																												
Black Spruce	Trace	Variable	Sapling																																												



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
72	42210 - Natural Red Pine	Sawtimber Medium	10.3	84	51-80	N/A	- 243 Way Back Ridges, 61-056-14, cut 2018-19. Cut all balsam fir, spruce, aspen and red maple trees less than 4" dbh + orange-marked pine. - Mostly high ground but it is very hummocky. Not much regenerating yet. Residual timber is very good quality.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		35	Log/XLog/Pole	14	85	Balsam Fir	
Red Pine		65	Log/XLog/Pole	14	85	White Pine	
						Black Spruce	
						Density	Avg. Height
							Size
73	4319 - Mixed Upland Forest	Poletimber Poor	14.8	54	1-50	N/A	Open stand, scattered cherry, aspen and mixed pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Cherry		45	Pole/Sapling	7	55	Black Cherry	
Quaking Aspen		10	Pole	8		White Pine	
White Pine		35	Pole/Log	9			
Red Pine		10	Log/Pole	10	75		
						Density	Avg. Height
							Size
74	42210 - Natural Red Pine	Sawtimber Medium	20.1	67	51-80	N/A	-2012 stand was thinned in 2007, all marked pine, aspen and red maple were harvested. 2021- Most of the stand is pretty open yet and is a mixed red and white pine. Regen is very light and is mostly aspen and red maple. A few small A3 pockets. Some managed wildlife openings. in the southeast corner.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		20	Pole/Log	9		Quaking Aspen	
Red Pine		75	Log/Pole	11	68	White Pine	
Quaking Aspen		5	Pole	8		Red Maple	
						Density	Avg. Height
							Size
75	42220 - Natural Jack Pine	Sapling Well	6.9	19	Immature	N/A	- All jack was cut, scattered red and white pine were left, stand looks to be filling in nicely. - Regen is about 15' tall and is well stocked.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		10	Pole/Log	9			
Jack Pine		70	Sapling	1	20		
Red Pine		10	Log/Pole	10			
Quaking Aspen		10	Sapling	1			
76	42290 - Natural Mixed Pine	Sawtimber Well	11.6	70	81-110	N/A	Nice mixed pine stand, was thinned in 2007, marked pine, aspen and red maple were harvested. Some wet ground areas along the south boundary. BA's: 90, 150, 130
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		45	Log/Pole	10		Balsam Fir	
Red Pine		55	Log/Pole	10	71	Black Spruce	
						White Pine	
						Density	Avg. Height
							Size
77	42220 - Natural Jack Pine	Poletimber Well	1.7	39	81-110	N/A	- Good stocking and good heights. Diameters are still fairly small.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Pole/Sapling	7	40		
78	42110 - Planted Red Pine	Poletimber Well	75.3	54	81-110	N/A	2012- row thinned in 2009 'Sweet Caliber Red'. 2021- some gaps in the plantation but overall fairly uniform. More hardwoods mixed in the Southeast corner. BA's: 180, 130, 170, 110, 190,
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		2	Pole	8		White Pine	
Black Cherry		3	Pole/Sapling	7		Black Cherry	
Red Pine		95	Pole/Log	9	55		
						Density	Avg. Height
							Size



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

79 42120 - Planted Jack Pine Sapling Well 81.8 19 Immature N/A KW opposing weave jack pine planting. Trees are 15-20' tall.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Sapling/Pole	4	
Jack Pine	85	Sapling	3	20
Northern Pin Oak	5	Sapling	2	

80 330 - Low-Density Trees Nonstocked 8.0 No Scattered cherry, white pine and red maple.

81 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 8.4 89 81-110 N/A Nice mix of species. Little Cannon creek runs through the stand. Wet ground.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	25	Log/Pole	10	90	White Pine	Medium	Variable	Sapling
White Pine	10	Log/Pole	12					
Hemlock	5	Pole	6					
Balsam Fir	15	Pole/Sapling	6					
Black Spruce	15	Pole/Sapling	6					
Paper Birch	10	Pole	8					
Red Maple	20	Pole/Sapling	7					

82 4310 - Pine, Oak Mix Sawtimber Poor 31.5 95 1-50 N/A 2012-Little Cannon Sale, 61-049-05-01, cut by Emond in 2005. They cut all aspen and red maple 2021- Scattered Oak and pine over regenerating aspen and red maple. Red oak is looking pretty aged out and is in decline. Nice mix of species in the understory. Some pockets of M3/ A3

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Log/Pole	10		White Pine	Medium	Variable	Sapling
Red Pine	20	Log/Pole	10		Quaking Aspen	Medium	10 - 20 feet	Sapling
Red Oak	50	Log	14	95	Red Maple	Medium	10 - 20 feet	Sapling
White Pine	25	Log/Pole	10					

83 42290 - Natural Mixed Pine Sawtimber Medium 8.8 114 51-80 N/A 2018 -243 Way Back Ridges, 61-056-14, cut 2018-19. Cut tree marked + cut all balsam fir, spruce and aspen greater than 4" dbh. 2021 - East end is lower ground and has a red maple and cedar overstory. Main body of the stand is mixed natural pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5	Pole	6		Red Maple	Low	< 5 feet	Sapling
White Pine	20	Log/XLog/Pole	14	115	Tag Alder	Low	Variable	Tall Shrub
Red Pine	50	Log/Pole/XLog	14	115	White Pine	Low	Variable	Sapling
Red Maple	15	Pole/Log	9					
Balsam Fir	5	Pole/Sapling	6					
Paper Birch	5	Pole	6					



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

84 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 19.8 74 81-110 N/A 2021 - A mixed stand of mostly red maple. Stand seems to be a more a bit more upland than the surrounding area. Poor quality red maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole	7		White Pine	Low	Variable	Sapling
Northern White Cedar	10	Pole	8		Balsam Fir	Low	Variable	Sapling
Black Spruce	5	Pole	7					
Quaking Aspen	5	Pole	8					
Paper Birch	10	Pole	8					
Red Maple	45	Pole	7	75				
White Pine	5	Log/Pole	10					
Hemlock	5	Pole/Sapling	6					

85 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 15.1 54 51-80 N/A 2021 - Mix of aspen, red maple and fir. Several drainages.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	20	Pole	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	35	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
Red Maple	35	Pole	8	55				
Paper Birch	10	Pole	8					

86 42350 - Upland Hemlock Sawtimber Well 1.5 109 111-140 N/A 2021 - Nice pocket of large hemlock and white pine. Retention pocket for adjacent management.

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	80	Log/Pole	10	110
White Pine	10	XLog/Log	22	
Paper Birch	5	Log	12	
Red Maple	5	Log	12	

87 4133 - Aspen, Mixed Pine Sapling Well 3.1 3 Immature N/A 2022 - stand was cut in 2018 and is regenerating well. Has a good mix of pine and fir.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	15	Sapling	2	
Quaking Aspen	65	Sapling	1	3
White Pine	10	Sapling/Pole	4	
Red Maple	10	Sapling	1	

88 429 - Mixed Upland Conifers Sawtimber Poor 31.2 77 1-50 N/A 2021- stand was cut in 2018. All cedar, hemlock and scattered white pine were left. Getting some pocket of aspen and red maple regenerating. A few seasonal drainages in the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	35	Pole	8		Quaking Aspen	Low	< 5 feet	Sapling
White Pine	55	Log/Pole	12	78	Balsam Fir	Trace	< 5 feet	Sapling
Hemlock	10	Pole	7		Red Maple	Medium	< 5 feet	Sapling
					White Pine	Trace	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
89	4136 - Aspen, Mixed Conifer	Sapling Medium	38.0	5	Immature	N/A	2016 - Stand cut with 243 Tin can Mix sale, saved cedar and green marked trees, should fill in with aspen, fir mixed deciduous and mixed conifer. Highly variable stand. Drain areas throughout, some are bed and banky and will need to be buffered and some are LO/E4 seasonal drains that are not bed and bankey. Some Hemlock and cedar along drain areas and some mixed Q types as well. Scattered super canopy white pine & red pine. 2021- some areas are slower to fill in than others but overall stand is moderately stocked, South half still doesn't have much coming in. Aspen regen is about 10' tall and is prodominantley in the north and west part of the stand.																																			
<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>Quaking Aspen</td> <td>50</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> <tr> <td>Northern White Cedar</td> <td>5</td> <td>Pole</td> <td>7</td> <td>85</td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Sapling</td> <td>2</td> <td>6</td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> <tr> <td>Red Pine</td> <td>3</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>White Pine</td> <td>7</td> <td>Log/Pole/XLog</td> <td>14</td> <td>85</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	50	Sapling	1	6	Northern White Cedar	5	Pole	7	85	Balsam Fir	10	Sapling	2	6	Red Maple	25	Sapling	1	6	Red Pine	3	Log/Pole	12		White Pine	7	Log/Pole/XLog	14	85
Canopy Species	% Cover	Size Class	DBH	Age																																						
Quaking Aspen	50	Sapling	1	6																																						
Northern White Cedar	5	Pole	7	85																																						
Balsam Fir	10	Sapling	2	6																																						
Red Maple	25	Sapling	1	6																																						
Red Pine	3	Log/Pole	12																																							
White Pine	7	Log/Pole/XLog	14	85																																						
90	31021 - Cool Season Grass	Nonstocked	1.8	0	Unspecified	Managed Opening																																				
						Managed WLD openings																																				