



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61147

Entry Year 2024

Acreage: 1,927

County Kalkaska

Management Area: Manistee River Valley

Stand Examiner: Katie Armstrong

Legal Description:

T25N R6W Sections 25, 26, and 27

Identified Planning Goals:

Vegetation management in the Manistee River Valley management area (MA) will provide timber products; maintain or enhance wildlife habitat; protect areas of unique character including the Manistee River and its tributaries, a designated natural river; threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period includes continuing aspen management to maintain early successional habitat for hunting and other wildlife-related recreational opportunities; increasing regeneration of oak; focusing on balancing the red pine age class structure through final harvests and re-planting; and on improving red pine quality through partial harvests. Expected trends within this 10-year planning period are increased recreational pressure, especially on the established trails and along the Manistee River and its tributaries; an increased wildland/urban interface and a need to restore barrens communities through prescribed fire; and invasive plant control.

Soil and topography:

Mainly Roselawn Sand soils. Topography is flat to rolling.

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

The compartment is surrounded by state land on the north, west and south sides. There is a half mile of shared boundary with private land on the east side. Land uses within the compartment include recreation and fishing along Big Cannon Creek, hunting and foraging, especially blueberry picking.

Unique Natural Features:

The Big Cannon Creek runs through the compartment which is a Natural Rivers tributary. The creek corridor provides habitat for a few special concern species. Wood turtles have been found within the compartment and red-shouldered hawks have been seen in the area.

Archeological, Historical, and Cultural Features:

There are archeological or historical resources in Sections 26 and 27.

Special Management Designations or Considerations:

Big Cannon Creek is a tributary of the Manistee River and protected by the Natural Rivers designation, which protects a native vegetation buffer of > 100' from the creek's edge. The compartment is also leased to Camp Grayling for military training.

Watershed and Fisheries Considerations:

Big Cannon Creek flows through Compartment 147. Big Cannon Creek is a Designated Trout Stream in the Manistee River watershed and hosts naturally reproducing populations of brook, brown, and rainbow trout. The Manistee River is a State-designated Natural River. Therefore, there is a 100' buffer for Big Cannon Creek, within which no cutting should take place. Also, BMPs should be followed when working in wet areas near the streams.

Wildlife Habitat Considerations:

This compartment falls onto two ecological landscapes. An ice contact ridge with excessively drained loamy sand occupies most of the compartment. Historically, this landscape was predominantly red and white pine forest with some components of oak and jack pine, affected largely by wildfires encroaching from adjacent outwash plain. The outwash plain was dominated by fire-dependent communities of jack pine, mixed pine forest, and barrens, and covers a northwest-southeast draw through section 27 and part of section 26, and the southeast corner of section 25.

The ice contact ridge landscape is currently occupied by oak and aspen stands of mostly younger age classes created during a large-scale cutting operation in the mid-1970s, and by large upland brush types and some pine. Creating a pattern of various age classes of these types will be beneficial to diverse wildlife species including gray squirrel, wild turkey, scarlet tanager, red-backed salamander, blue jay, hog-nosed snake, deer, and broad-winged hawk. Small regeneration harvests should include residual mature trees and down logs for within-stand diversity and should retain as many snags as possible,

if present. Pockets of remnant red pine should be retained and perhaps expanded to help diversify the mostly deciduous forest. Coordinating opening maintenance with timber sales in this compartment can be utilized to set back woody encroachment where needed. Consolidation of some of the scattered grass and brush stands into workable burn units would benefit wildlife species dependant on these grassland communities as well as the resulting grassland/forest edge.

Some of the mature jack pine stand on the outwash plain should be regenerated via harvest which mimics the results of wildfire as much as possible. Mature red and white pine stands and swamp conifers adjacent to Big Cannon Creek should be retained in mid to late successional condition. These stands provide important deer winter cover as well as riparian forest habitat.

Wildlife opening maintenance, especially through burning of brushlands in and adjacent to the outwash plain landscape, will benefit species such as badger, garter snake, coyote, field sparrow, cedar waxwing, and red-tailed hawk. Native warm season grasses and fruiting shrubs should proliferate under a burn regime.

Mineral Resource and Development Concerns and/or Restrictions

The State-owned Naples Road sand/gravel pit is just southwest of the compartment. The pit has not been active for many years. There is good potential for sand and gravel within the compartment. The compartment is part of the long-term lease area for Camp Grayling, but the State maintains ownership and management control over all mineral rights including sand and gravel. Active oil and gas production is occurring one mile to the north, but there is no evidence that this small field could expand into the compartment. There was past exploration and testing of the Collingwood Formation in the area, and one well was completed in the east end of the compartment and produced for a few years. 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 also has been some minor production of natural gas from deep wells just to the east of the compartment. Parcels in the NE of Section 25 are leased and held by one of these wells. The well was just plugged in 2021, and release of the leases awaits final approval of plugging and any site restoration. Potential for additional gas production beneath the compartment is unknown, but the deep wells are expensive to drill and gas prices are low. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Fletcher Road provides paved access to the north end of the compartment. Township Road and Naples Road (both county gravel roads) provide access to the eastern and western parts of the compartment, respectively. The interior part of the compartment has many unimproved, sandy Forest Access Routes, some of which are ORV routes, that will need improvement for use as timber hauling roads. The north edge of the compartment is a buried pipeline corridor that is also used as a road.

Survey Needs:

No survey necessary.

Recreational Facilities and Opportunities:

The Big Cannon Creek provides fishing opportunities. There are also several undesignated camping areas along the creek's southern banks. The Miss-Kal ORV trail runs through the compartment which is a < 50" trail. The North Missaukee ORV route runs on several of the Forest Access Routes in the eastern part of the compartment.

Fire Protection:

Wildland fire response is provided by Michigan DNR from the Kalkaska Field Office with support from local fire departments. Based on the cover types in this area, the threat of catastrophic wildfire is minimal.

Additional Compartment Information:

The following reports from the Inventory are attached:

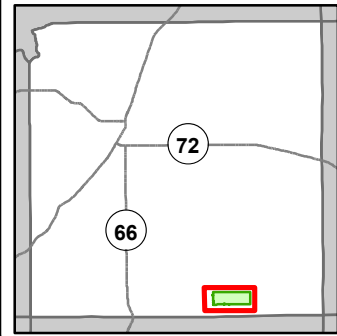
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

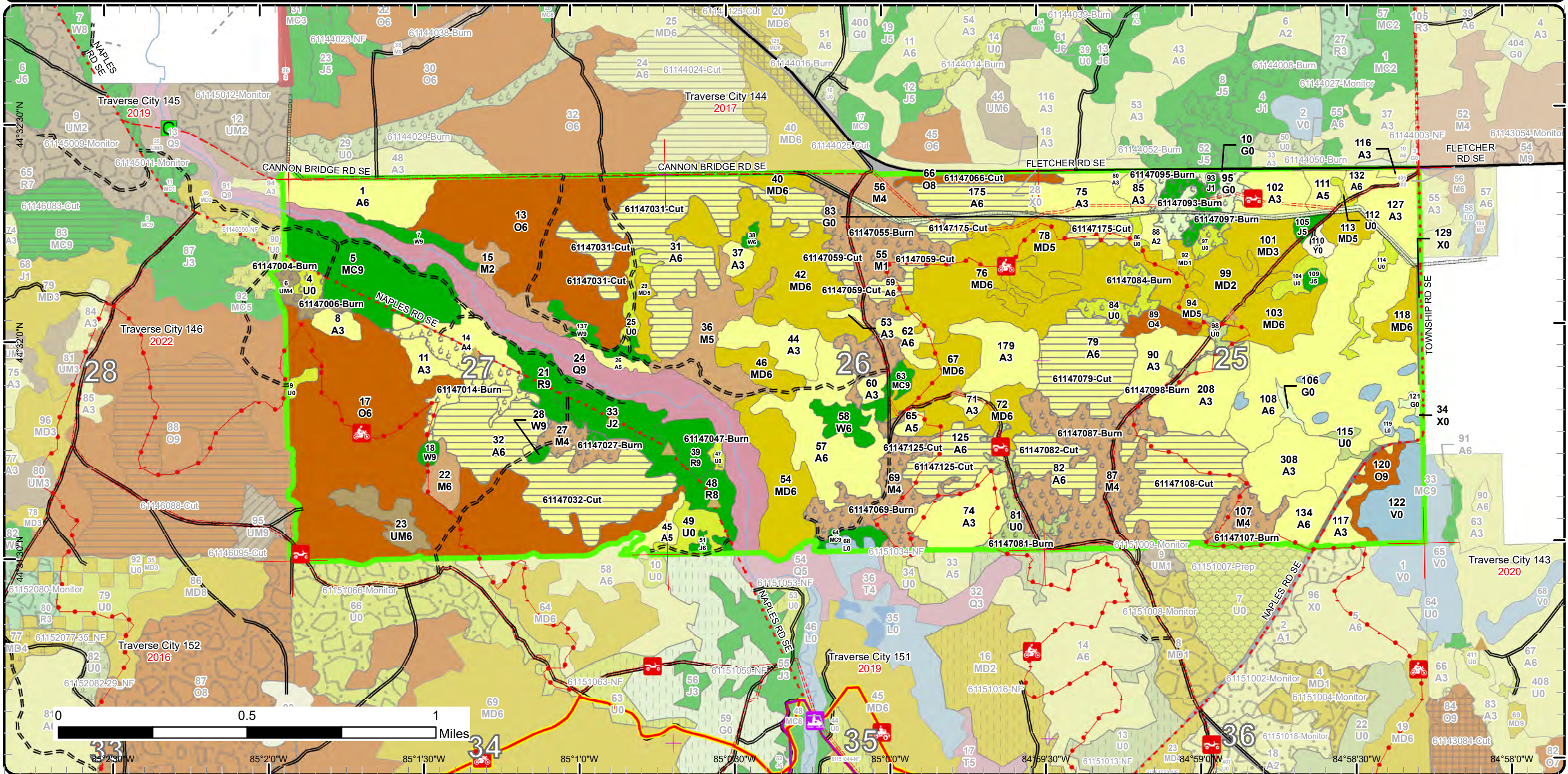
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 147
 T25N R06W Sec. 25-27
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Manistee River Valley
 YOE: 2024
 Acres: 1927.5 GIS Calculated
 Examiner: Katie Armstrong
 Map Revised: 10/17/2022
 Map Phase: Post Review

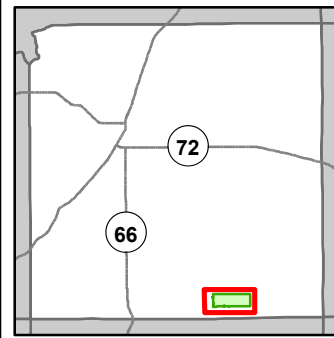


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Motorcycle Trails (DNR License)
- ORV Trails
- ORV Routes
- Snowmobile Trails
- ORV License & Trail Permit
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Berms
- Gate
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Prescribed Burn
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 710 - Sand/Soil

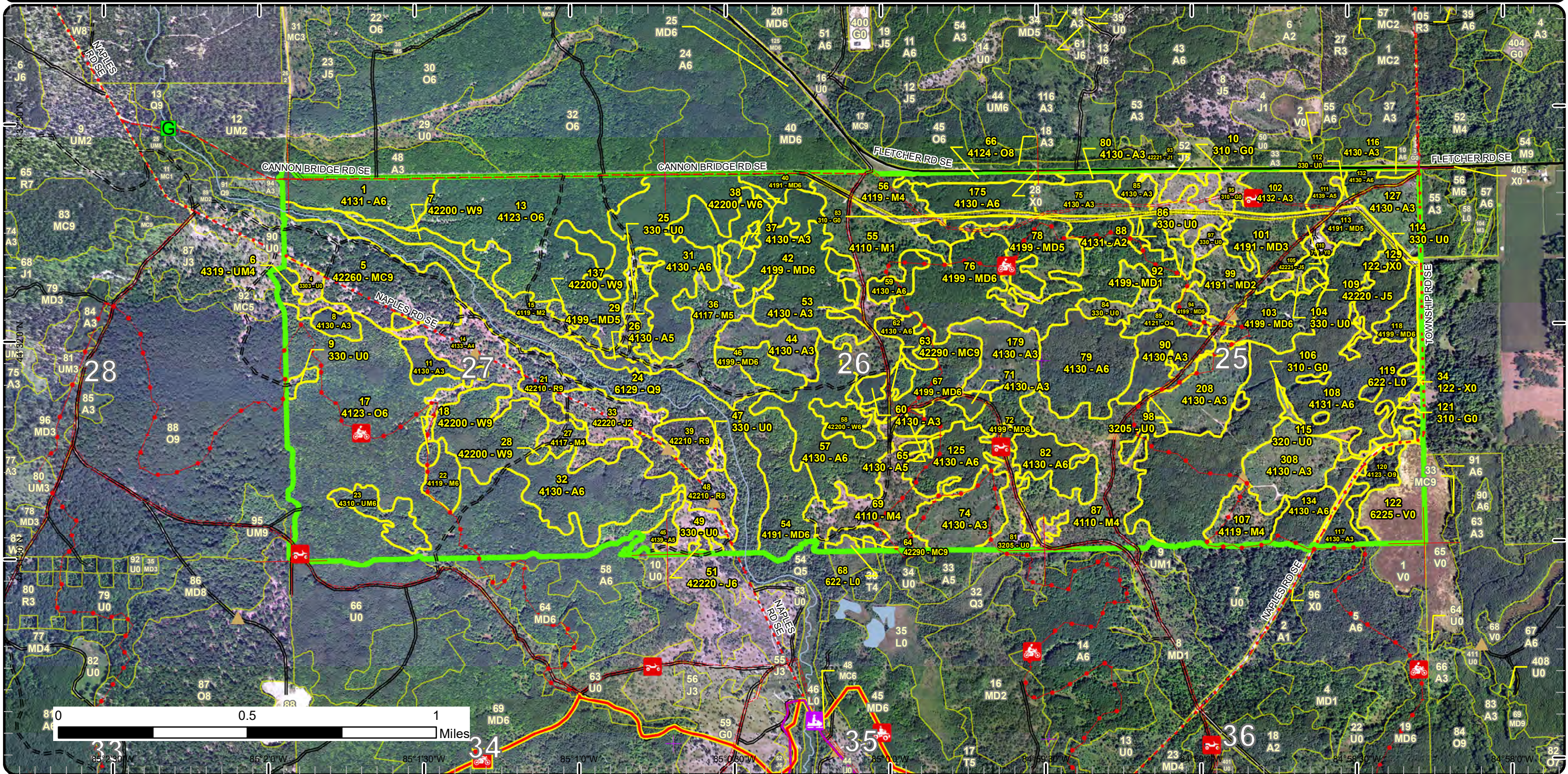


Stand Boundary Map

Compartment: 147
 T25N R06W Sec. 25-27
 County: Kalkaska
 Unit: Traverse City
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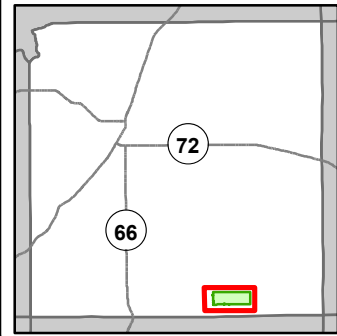


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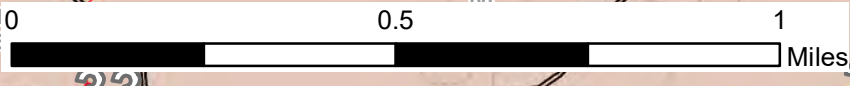
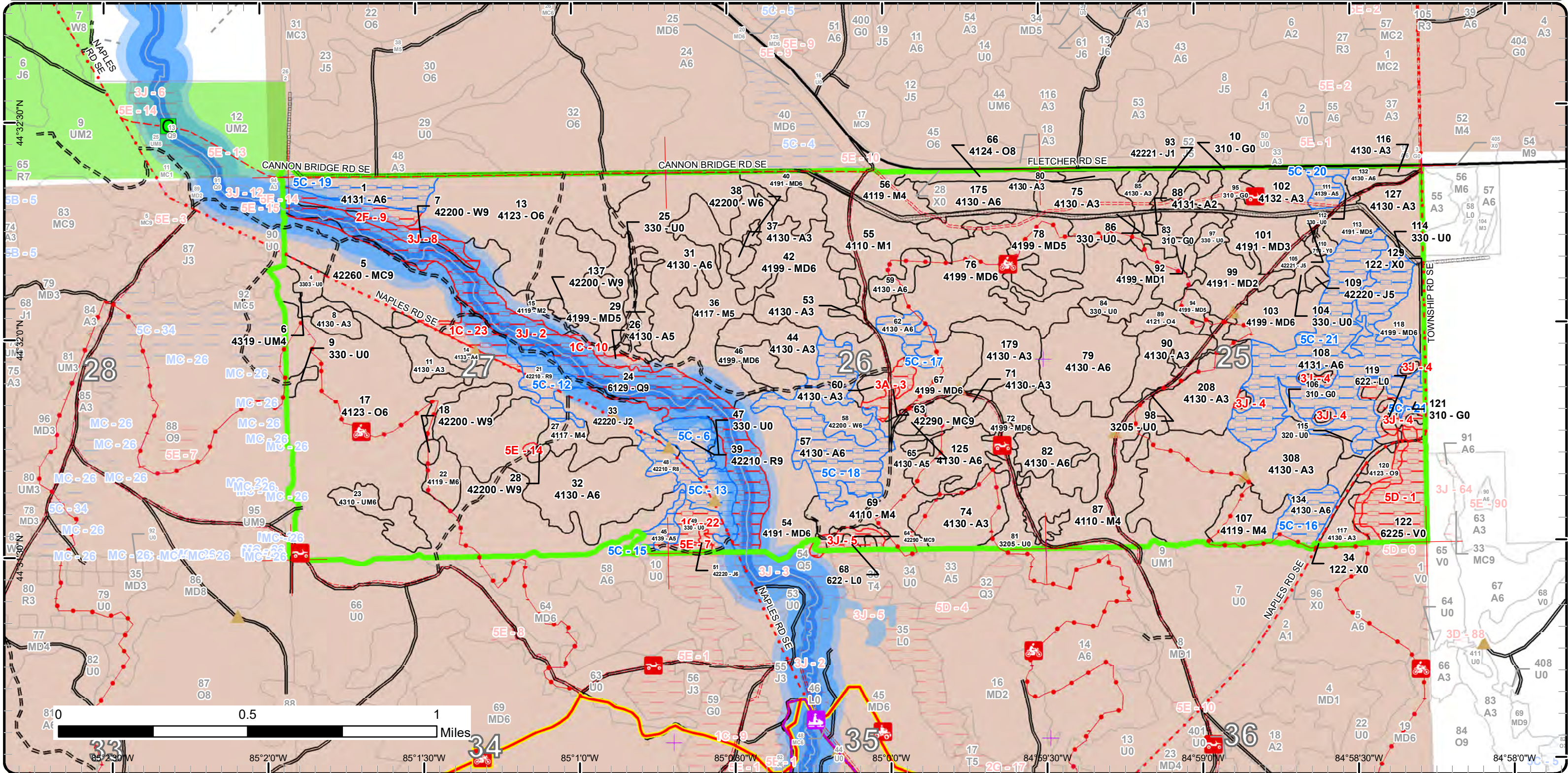
Special Conservation Areas

Compartment: 147
 T25N R06W Sec. 25-27
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Manistee River Valley
 YOE: 2024
 Acres: 1927.5 GIS Calculated
 Examiner: Katie Armstrong
 Map Revised: 10/17/2022
 Map Phase: Post Review



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- 🏍️ Snowmobile Trails
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- - - - Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- ▲ Berms
- G Gate
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary

- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands



85°2'30"W 85°1'30"W 85°0'30"W 85°0'0"W 84°59'30"W 84°58'30"W 84°57'30"W

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	151	60	0	0	59	462	0	0	0	0	0	0	0	0	0	0	0	732
Bog	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Herbaceous Openland	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Jack Pine	0	9	18	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	32
Low-Density Trees	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	74	0	0	0	0	0	74
Lowland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	0	3	32	0	0	131	139	0	0	0	0	0	0	0	0	0	0	0	305
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	52	0	5	0	0	0	0	0	0	57
Northern Hardwood	0	0	0	11	0	61	143	0	0	0	0	0	0	0	0	0	0	0	215
Oak	0	0	0	0	0	274	0	0	0	8	7	0	0	0	0	0	0	0	289
Red Pine	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	38
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	18
Upland Shrub	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
White Pine	0	0	0	0	0	0	9	15	1	0	0	0	0	0	0	0	0	0	25
Total	142	163	110	11	0	525	775	16	1	99	7	5	74	0	0	0	0	0	1927



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 147
Total Compartment Acres: 1,927

Commercial Harvest - 300
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	293	0	0	0	0	0	0	0	0	293
Oak	0	0	0	0	0	7	0	0	0	7
Total	293	0	0	0	0	7	0	0	0	300

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	300	0	0	0	240	0	0	0	0	540
Next Step	0	0	0	0	42	0	293	0	198	532
Total	300	0	0	0	282	0	293	0	198	1072



Standard

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

4	61147004-Burn	4.5	3303 - Mixed Low Density Trees	Nonstocked	Immature	Burn	Opening	3205 - Mixed Upland Shrub		No
<p><u>Prescription Specs:</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.</p> <p><u>Next Step Treatments:</u> NonForestMgt, Other - Specify</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
6	61147006-Burn	5.9	4319 - Mixed Upland Forest	Poletimber Poor	50 1-50	Burn	Opening	3205 - Mixed Upland Shrub		No
<p><u>Prescription Specs:</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.</p> <p><u>Next Step Treatments:</u> NonForestMgt, Other - Specify</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
14	61147014-Burn	17.5	4133 - Aspen, Mixed Pine	Poletimber Poor	48 1-50	Burn	Opening	3205 - Mixed Upland Shrub		No
<p><u>Prescription Specs:</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.</p> <p><u>Next Step Treatments:</u> NonForestMgt, Other - Specify</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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27	61147027-Burn	11.1	4117 - Mixed N. Hardwood - Pine	Poletimber	48	1-50	Burn	Opening	3205 - Mixed Upland Shrub	No
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Prescription Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Next Step NonForestMgt, Other - Specify
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

31	61147031-Cut	67.5	4130 - Aspen	Poletimber Well	53	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest leaving area retention, wherever appropriate and under-represented species for diversity.
Specs:

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

Acceptable Regen: Aspen, oak, white pine, red maple, cherry.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

32	61147032-Cut	70.5	4130 - Aspen	Poletimber Well	53		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest leaving area retention as island(s) and/or along west side/motorcycle trail. Probably leave all pine and all oak to mature into mast-producing sizes.
Specs:

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

Acceptable Regen: Aspen, oak, pine, red maple, cherry.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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47	61147047-Burn	1.6	330 - Low-Density Trees	Nonstocked			Burn	Opening	3205 - Mixed Upland Shrub	No
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Prescription Specs: Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Next Step Treatments: NonForestMgt, Other - Specify

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

55	61147055-Burn	42.1	4110 - Sugar Maple Association	Sapling Poor	50	1-50	Burn	Opening	3205 - Mixed Upland Shrub	No
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Prescription Specs: Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Next Step Treatments: Burn, Opening

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

59	61147059-Cut	9.4	4130 - Aspen	Poletimber Well	53		Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Specs: Final harvest leaving most under-represented species for diversity. Protect motorcycle trail with sale specifications and/or leave trees. No area retention due to stand size < 10 acres.

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

Acceptable Regen: Aspen, red maple, oak, cherry, white pine.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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66	61147066-Cut	7.4	4124 - Red with White Oak	Sawtimber Medium	90	51-80	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Overstory removal treatment to remove most of oak and release advance regeneration. Cut all trees > 4" dbh except leave ~1 oak per acre, favoring white oak and good mast producers. Leave pine and under-represented species. Might need to cut part of stand 56 to provide access from opening. Overhead powerline runs along south side of Fletcher Rd.

Specs:

Next Step

Treatments:

Acceptable oak, aspen, white pine, red pine, red maple, cherry.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

69	61147069-Burn	29.8	4110 - Sugar Maple Association	Poletimber Poor	50		Burn	Opening	3205 - Mixed Upland Shrub		No
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Prescription Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Specs:

Next Step

NonForestMgt, Other - Specify

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

79	61147079-Cut	35.9	4130 - Aspen	Poletimber Well	53		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest leaving area retention wherever appropriate and most under-represented species for diversity.

Specs:

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, red maple, oak, white pine, red pine, cherry.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
81 61147081-Burn	14.0	3205 - Mixed Upland Shrub	Nonstocked			Burn	Opening	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
82 61147082-Cut	16.1	4130 - Aspen	Poetimber Well	53	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest leaving area retention wherever appropriate and most under-represented species for diversity.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, red maple, oak, pine, cherry.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
84 61147084-Burn	9.5	330 - Low-Density Trees	Nonstocked			Burn	Opening	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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87	61147087-Burn	58.4	4110 - Sugar Maple Association	Poletimber Poor	50	1-50	Burn	Opening	3205 - Mixed Upland Shrub	No
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Prescription Specs: Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Next Step Treatments: NonForestMgt, Other - Specify

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

93	61147093-Burn	9.4	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Poor	7	Immature	Burn	Opening	3205 - Mixed Upland Shrub	No
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Prescription Specs: Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Next Step Treatments: NonForestMgt, Other - Specify

Acceptable Regen:

Other Comment: This stand is the result of a timber sale. FRD agreed to allow nonforested objective since jack pine regeneration is sparse and including it in surrounding burn unit significantly improves burn logistics.

Site Condition

Proposed Start Date: 10/1 /2023

95	61147095-Burn	13.3	310 - Herbaceous Openland	Nonstocked			Burn	Opening	3205 - Mixed Upland Shrub	No
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Prescription Specs: Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Next Step Treatments: NonForestMgt, Other - Specify

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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97	61147097-Burn	3.7	330 - Low-Density Trees	Nonstocked			Burn	Opening	3205 - Mixed Upland Shrub	No
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Prescription Specs: Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Next Step Treatments: NonForestMgt, Other - Specify

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

98	61147098-Burn	5.3	3205 - Mixed Upland Shrub	Nonstocked			Burn	Opening	3205 - Mixed Upland Shrub	No
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Prescription Specs: Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Next Step Treatments: NonForestMgt, Other - Specify

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

107	61147107-Burn	13.6	4119 - Mixed Northern Hardwoods	Poletimber Poor	48	1-50	Burn	Opening	3205 - Mixed Upland Shrub	No
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Prescription Specs: Burn on a rotational basis. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Next Step Treatments: NonForestMgt, Other - Specify

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
108 61147108-Cut	45.3	4131 - Aspen, Oak	Poletimber Well	53	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest about 1/3 of the 140 acres remaining in this stand. Likely areas have been mapped but may be adjusted when sale is prepared.</p> <p><u>Specs:</u> Leave appropriate area retention for the cut portion and map site condition to keep track of acres.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, red maple, white pine, red pine, oak, cherry.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
125 61147125-Cut	20.0	4130 - Aspen	Poletimber Well	53		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest leaving area retention wherever appropriate and most under-represented species for diversity. Protect motorcycle trail with sale specifications and/or leave trees.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, oak, red maple, white pine, cherry.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
175 61147175-Cut	27.9	4130 - Aspen	Poletimber Well	54		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest leaving all pine and under-represented species. Leave area retention in area of greater diversity and/or along motorcycle trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, oak, white pine, red maple.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 539.7

Report 4 – Site Conditions

Traverse City Mgt. Unit
Katie Armstrong : Examiner

Compartment: 147
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions						
		With Condition				5C	1C	2F	3A	3J	5D	5E
731	528	173		31	Aspen	173	13	7		10		1
20	0	0		20	Bog					0	20	
34	34	0		0	Herbaceous Openland	0				0		
32	30	0		2	Jack Pine					1		1
48	39	0		9	Low-Density Trees	0	9			0		
74	0	0		74	Lowland Conifers					74		
9	0	0		9	Lowland Shrub					9		
305	305	0		0	Mixed Upland Deciduous	0				0		
57	47	0		10	Natural Mixed Pines				5	5		
215	215	0		0	Northern Hardwood	0				0		
290	285	0		4	Oak					4		
39	1	37		0	Red Pine	37				0		
3	3	0		0	Sand, Soil							
18	18	0		0	Upland Mixed Forest							
22	22	0		0	Upland Shrub							
5	5	0		0	Urban					0	0	
25	18	0		7	White Pine			0		6		
1,927	1,550	210		167	Total Forested Acres	210	22	8	5	110	20	2
	80%	11%		9%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5D: Unproductive Forest Land	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 100' natural vegetation zone along Big Cannon Creek, per Natural Rivers rules.							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Katie Armstrong : Examiner

Compartment: 147
Year of Entry: 2024

3	Unavailable	3A: Conservation Values incompatible with harvest at this time	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Old pine with habitat characteristics.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer for bogs							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: buffer around bog							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Heavy recreation use here so hold red pine longer.							
7	Unavailable	5E: Long-Term Retention	1	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
Comments: See locked comments.							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Hillside with bottom of slope within natural rivers buffer and/or within Big Cannon Creek floodplain.							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Katie Armstrong : Examiner

Compartment: 147
Year of Entry: 2024

9	Unavailable	2F: Too steep	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Hillside with bottom end within Natural Rivers buffer.							
10	Unavailable	1C: Other dept or div proc/practices	3	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Below bluff and protected by natural rivers. Also, leave aspen to shelter white pine.							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold red pine canopy longer than usual to protect nontimber values e.g. recreation. Stand will likely not be replanted.							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold red pine canopy longer than usual to protect nontimber values e.g. recreation. Stand will likely not be replanted.							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Katie Armstrong : Examiner

Compartment: 147
Year of Entry: 2024

16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
 Katie Armstrong : Examiner

Compartment: 147
 Year of Entry: 2024

21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	85	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	1C: Other dept or div proc/practices	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See locked comments.							
23	Unavailable	1C: Other dept or div proc/practices	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See locked comments.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	4131 - Aspen, Oak	Poletimber Well	25.6	48	81-110	N/A	Some areas are heavier to aspen others are an oak and soft maple mix, especially north central area. Relatively nice quality. More white pine on the hillside and below. 2012: Hold for 10-20 yrs.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Oak		12	Pole/Sapling	5		Witch Hazel		Low	5 - 10 feet	Tall Shrub	
Red Oak		15	Pole	6		White Pine		Trace	5 - 10 feet	Sapling	
Bigtooth Aspen		53	Pole/Log	9	48	Red Maple		Medium	>20 feet	Sapling	
Red Maple		15	Pole	6							
White Pine		5	Pole/Log	8							

4	3303 - Mixed Low Density Trees	Nonstocked	4.5		Immature	No	Semi-open with clumpy cherry and shrubby white pine.
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5	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	47.5	80	81-110	N/A	Variable stand with some areas of oak/pine and other areas that are more pine. Lots of size classes. A few campsites along the creek.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		10	Pole/Log	8		Red Maple		Low	>20 feet	Sapling	
Jack Pine		5	Pole	8		White Pine		Medium	5 - 10 feet	Pole	
Black/Red (Hybrid) Oak		10	Log/XLog	12		Jack Pine		Low	5 - 10 feet	Sapling	
White Oak		5	Pole	8							
Bigtooth Aspen		10	Pole	8							
White Pine		55	Pole/Log	10	80						
Red Maple		5	Pole	8							

6	4319 - Mixed Upland Forest	Poletimber Poor	5.9	50	1-50	N/A	
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7	42200 - Natural White Pine	Sawtimber Well	6.5	65	51-80	N/A	Transitional stand between low area along creek and upland on the bluff. Limby open grown wood. Barely a log stand. Old railroad grade running through stand.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		5	Pole	6		White Pine		Low	5 - 10 feet	Sapling	
White Pine		70	Pole/Log	10	65						
Red Pine		15	Log	10							
Red Maple		10	Pole	6							

8	4130 - Aspen	Sapling Well	4.9	5	Immature	N/A	Stand was final harvested in 2017 'Halstead Pine & Popple' 61-071-14-01. Left scattered white pine and oak pole timber.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		5	Pole	6							
White Pine		5	Pole/Log	8							
Bigtooth Aspen		70	Sapling	1	5						
Quaking Aspen		20	Sapling	1	5						

9	330 - Low-Density Trees	Nonstocked	2.0			No	Semi-open area.
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10	310 - Herbaceous Openland	Nonstocked	4.4	0		No	Grassy right-of-way for Fletcher Road. Above-ground powerline on south side of road.
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11	4130 - Aspen	Sapling Well	9.0	5	Immature	N/A	Stand was final harvested in 2017 'Halstead Pine and Popple' 61-071-14-01. Left all oak and white pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	1	
Red Oak	5	Pole	8	
Quaking Aspen	75	Sapling	1	5
White Pine	5	Pole/Log	6	
Bigtooth Aspen	10	Sapling	1	

13	4123 - Red Oak	Poletimber Well	91.7	48	1-50	N/A	A mixed stand, mostly oak and red maple with some areas of aspen.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Pole	6	
White Oak	10	Pole/Log	6	
Bigtooth Aspen	10	Pole	6	
White Pine	5	Pole	6	
Red Oak	50	Pole/Log	7	48

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

14	4133 - Aspen, Mixed Pine	Poletimber Poor	27.3	48	1-50	N/A	Was classified as a U0 last inventory. Still semi-open. Evidence of fire within past ~10 years.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	6	
Quaking Aspen	40	Pole	6	48
Black Cherry	25	Sapling/Pole	3	
Jack Pine	10	Pole/Sapling	4	
White Pine	10	Pole/Sapling	4	
Red Pine	5	Pole/Sapling	4	
White Oak	5	Pole/Sapling	5	

15	4119 - Mixed Northern Hardwoods	Sapling Medium	11.4	20	1-50	N/A	Semi-open area with older conifers and younger hardwoods.
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Canopy Species	% Cover	Size Class	DBH	Age
White Oak	15	Sapling/Pole	3	
Red Maple	55	Sapling/Pole	3	20
White Pine	10	Pole/Log	8	53
Red Oak	10	Sapling/Pole	4	
Bigtooth Aspen	5	Sapling/Pole	5	
Black Cherry	5	Sapling	2	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
17	4123 - Red Oak	Poletimber Well	175.8	48	51-80	N/A	Good stocking on the east end of the stand. Lots of advanced regen converting to pole timber in understory. Some areas of M6 and a few 1-2 acre aspen clones, but mostly an oak stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak		15	Pole	6		White Oak	Low	10 - 20 feet	Sapling
Bigtooth Aspen		15	Pole/Log	6		Red Maple	Low	10 - 20 feet	Sapling
Red Oak		46	Pole/Log/Sap	6	48				
White Pine		2	Log/Pole	10					
Red Pine		2	Log/Pole	10					
Red Maple		20	Pole	6					
18	42200 - Natural White Pine	Sawtimber Well	1.9	65	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		80	Log/Pole	12	65	Red Maple	Low	10 - 20 feet	Sapling
Red Maple		10	Pole	8		White Pine	Low	5 - 10 feet	Sapling
Red Pine		10	Pole	8					
21	42210 - Natural Red Pine	Sawtimber Well	12.3	80	81-110	N/A	Jack pine was removed in 2005. North of Naples Rd is more of an R8, natural red pine stand with lots of size classes.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		20	Log	12		White Pine	Low	10 - 20 feet	Sapling
Red Pine		80	Log/Pole	12	80	Red Pine	Low	< 5 feet	Sapling
The southern part of the stand was thinned in 2017 'Halstead Pine and Popple' 61-071-14-01.									
22	4119 - Mixed Northern Hardwoods	Poletimber Well	7.6	48	1-50	N/A	Stand is regenerating to more of a soft maple and beech stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		5	Pole	5		White Oak	Low	5 - 10 feet	Sapling
Red Maple		50	Sapling/Pole	4	48	Red Maple	Medium	10 - 20 feet	Pole
Red Oak		10	Pole	7		Beech	Medium	10 - 20 feet	Sapling
Beech		20	Pole	5					
White Oak		10	Pole	5					
Paper Birch		5	Pole	5					
23	4310 - Pine, Oak Mix	Poletimber Well	11.8	53	51-80	N/A	Pockets of log white pine surrounded by pole red maple and oak. Understory is mostly open except for a few areas of white pine saplings. Kind of a hard stand to type out. Nice to have some pine for diversity.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		25	Pole	8		White Pine	Low	10 - 20 feet	Sapling
White Pine		50	Log/Pole	10	53				
Red Maple		20	Pole	6					
Red Pine		5	Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
24	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	74.4	111	81-110	N/A	Stand is a mixed natural pine stand that transitions down to a lowland conifer stand next to Big Cannon Creek.																																															
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25	330 - Low-Density Trees	Nonstocked	5.6			No	Cherry and shrubby white pine.																																															
26	4130 - Aspen	Poletimber Medium	3.3	53		N/A	Former wildlife research clearcut. Not the greatest quality aspen. Long term might try to let the white pine take over. Stand is fairly close to the creek.																																															
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27	4117 - Mixed N. Hardwood - Pine	Poletimber Poor	10.1	48	1-50	N/A	Was classified as U0 in last inventory. Still semi-open.																																															
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28	42200 - Natural White Pine	Sawtimber Well	1.2	75	111-140	N/A	Little pocket of natural pine.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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31	4130 - Aspen	Poletimber Well	67.5	53	Unspecified	N/A	Former wildlife research area.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		85	Pole/Log	8	53	Red Maple	
Red Maple		10	Pole/Sapling	6		Low	
Red Oak		5	Pole/Log	8		>20 feet	
						Sapling	

32	4130 - Aspen	Poletimber Well	71.1	53		N/A	Mostly bigtooth with some areas of lesser quality. 2012: Nice quality. 5 stick aspen but is only about 6" in diameter. Hold stand for 10 yrs.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		65	Pole	7	53	Red Maple	
Red Oak		5	Pole/Log	7		Low	
Quaking Aspen		15	Pole	7		10 - 20 feet	
White Pine		3	Pole/Log	8		Sapling	
Red Maple		10	Pole	6		5 - 10 feet	
Red Pine		2	Pole/Log	8		Tall Shrub	

33	42220 - Natural Jack Pine	Sapling Medium	17.6	17	1-50	N/A	Stand had the jack pine removed in 2005 'Big Cannon Jack' 61-043-04. Jack pine seedlings are coming in ok but clumpy. Fair amount of older overstory trees.
Canopy Species		% Cover	Size Class	DBH	Age		
Black Cherry		5	Sapling	1			
White Pine		5	Pole/Log	8			
Red Maple		5	Sapling	1			
White Oak		5	Pole	6			
Jack Pine		70	Sapling/Pole	2	17		
Red Pine		10	Log/Pole	12			

34	122 - Road/Parking Lot	Nonstocked	2.6	0			Township Road. DTE gas pipeline on north/west side.
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36	4117 - Mixed N. Hardwood - Pine	Poletimber Medium	29.3	48	1-50	N/A	Was classified as U0 last inventory. Still open in some small pockets but canopy is too thick to recover opening in most places.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		5	Pole	6		White Pine	
Black Cherry		35	Pole/Sapling	5	48	Medium	
White Pine		30	Pole/Sapling	6		10 - 20 feet	
Red Maple		30	Sapling/Pole	4		Sapling	

37	4130 - Aspen	Sapling Well	3.3	7	Immature	N/A	147 Aspen Blitz, 61-070-14. Final harvested 2015, cut > 4" DBH except oak, paper birch, and white pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Sapling	1	7	Red Maple	
Bigtooth Aspen		90	Sapling	1	7	Low	
						5 - 10 feet	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
38	42200 - Natural White Pine	Poletimber Well	1.4	53	51-80	N/A																																																			
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39	42210 - Natural Red Pine	Sawtimber Well	10.2	80	81-110	N/A	Nice looking natural pine stand. Stand is the location of where the Northmen used to have their annual event in the fall. There is a drinking well and lots of campsites. Stocking is variable due to all the trails and camps. Stand was thinned in 2017 (Halstead Pine and Popple 61-071-14-01). Old railroad grade. Very open park-like understory. Not a good candidate for future red pine MO.																																																		
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42	4199 - Other Mixed Upland Deciduous	Poletimber Well	55.0	48	51-80	N/A	Old wildlife research clearcut. Mostly oak with a few pockets of aspen.																																																		
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44	4130 - Aspen	Sapling Well	15.9	7	Immature	N/A	147 Aspen Blitz, 61-070-14. Final harvested 2015, cut > 4" DBH except oak, paper birch, and white pine.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
45	4139 - Aspen, Mixed Deciduous	Poletimber Medium	5.2	53	51-80	N/A	Mix of aspen and soft maple. Semi-open at south end. Could be managed with 61151058.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		30	Pole	7		Red Maple	
Black Cherry		5	Pole/Sapling	6		Low	
Red Pine		5	Log	12		>20 feet	
White Oak		10	Pole	7		Sapling	
Bigtooth Aspen		50	Log/Pole	10	53		
46	4199 - Other Mixed Upland Deciduous	Poletimber Well	10.5	48	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		40	Pole/Log	7	48	Red Maple	
Red Maple		45	Pole/Sapling	5	48	Low	
White Oak		10	Pole	5		10 - 20 feet	
Red Pine		5	Log/Pole	8		Variable	
						Sapling	
47	330 - Low-Density Trees	Nonstocked	1.6			No	Semi open. Might be used for camping.
48	42210 - Natural Red Pine	Sawtimber Medium	16.0	80	1-50	N/A	Stand had the jack pine removed in 2005. 'Big Cannon JP'
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		30	Log/XLog	12		White Pine	
Red Pine		70	Log/XLog	14	80	Low	
						5 - 10 feet	
						Sapling	
						Jack Pine	
						Medium	
						10 - 20 feet	
						Sapling	
49	330 - Low-Density Trees	Nonstocked	8.7			No	Part of old Halstead logging community was likely in this area. Grassy with scattered cherry and jack pine. Denser trees in northeast part.
51	42220 - Natural Jack Pine	Poletimber Well	1.3	63	51-80	N/A	Stand looks like a retention area from the adjacent 'Big Cannon Jack' Sale. Limby open grown timber. Part of old Halstead logging community was likely in this area.
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		100	Pole	8	63		
53	4130 - Aspen	Sapling Well	1.5	17	Immature	N/A	Cut 2005, Fletcher Mix, 61-032-04. Cut all aspen, jack pine, and mixed hardwood. Left all oak.
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		80	Sapling	2	17		
Quaking Aspen		15	Sapling	2			
Black Cherry		5	Sapling	1			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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54 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 30.7 52 51-80 N/A

Variable stand with good diversity. Areas of pine with pockets of A6 with red maple and red oak throughout. Gentle slope toward creek with lowland species like balsam fir towards the Q stand. Could try to pick out the aspen and soft maple if/when we cut the adjacent stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Log/Pole	12		Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole	7		Black Cherry	Low	10 - 20 feet	Sapling
White Oak	3	Pole	6		White Pine	Medium	Variable	Sapling
Red Maple	22	Pole	6	52				
Red Oak	5	Pole	6					
Quaking Aspen	30	Pole	7	52				

55 4110 - Sugar Maple Association Sapling Poor 42.1 50 1-50 N/A

Used to be U0 last inventory. Semi-open but seems more forested. A lot of cherry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	90	Sapling/Pole	3	50	White Pine	Trace	5 - 10 feet	Sapling
Red Oak	5	Pole/Sapling	6					
Quaking Aspen	5	Pole	5					

56 4119 - Mixed Northern Hardwoods Poletimber Poor 12.7 50 1-50 N/A

Semi-open area. Typed as U0 last inventory. Variable stand with mostly cherry but a few clumps of oak and scattered jack pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	60	Sapling/Pole	3	50	Serviceberry (Juneberry)	Trace	10 - 20 feet	Sapling
Jack Pine	10	Pole/Log	7					
White Oak	5	Pole/Sapling	4					
White Pine	5	Pole/Sapling	5					
Red Oak	10	Log/Pole	8					
Bigtooth Aspen	10	Pole	7					

57 4130 - Aspen Poletimber Well 40.1 53 N/A

Stand is on a bit of a ridge. Nice bigtooth on west and north end of stand. More quaking and white pine mix in the southeast part of stand. Fair amount of small pole-sized red maple in tall understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Pole	8		White Oak	Low	5 - 10 feet	Sapling
Red Oak	5	Pole	8		Black Cherry	Low	Variable	Sapling
Bigtooth Aspen	70	Pole/Log	8	53				
White Pine	5	Pole	8					
Red Maple	5	Pole	8					

58 42200 - Natural White Pine Poletimber Well 7.4 53 51-80 N/A

Limby and crooked wood. 2012: Probably hold for another 20 years or so.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole	6		Red Maple	Low	>20 feet	Sapling
White Pine	80	Log/Pole	10	53				
Quaking Aspen	10	Pole	7					
Red Pine	5	Log/XLog	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
59	4130 - Aspen	Poletimber Well	9.4	53		N/A	Old Wildlife research clearcut.																																				
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60	4130 - Aspen	Sapling Well	2.9	17	Immature	N/A	Regenerated nicely. Cut 2005, Fletcher Mix, 61-032-04. Cut all aspen, jack pine, and mixed hardwood. Left all oak.																																				
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63	42290 - Natural Mixed Pine	Sawtimber Well	5.1	101	51-80	N/A	West portion of this stand had the aspen cut out of the understory in 05 with 'Fletcher Mix'. Patchy density. Some of the pine has old fire scars, plate bark and other old characteristics.																																				
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64	42290 - Natural Mixed Pine	Sawtimber Well	4.4	82	51-80	N/A	Transition ground down to the bog. Old railroad grade running through the stand.																																				
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66	4124 - Red with White Oak	Sawtimber Medium	7.4	90	51-80	N/A	Stand had the red maple and aspen removed in 2006, Fletcher Mix, 61-032-04. Some decent oak regeneration. Eastern part of the stand has heavy aspen and red maple regen underneath the oak.																																																
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67	4199 - Other Mixed Upland Deciduous	Poletimber Well	18.2	53	51-80	N/A	Very mixed stand: almost an even mix of red oak, red maple and aspen. Most of pine is in western third.																																																
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68	622 - Lowland Shrub	Nonstocked	2.2			No																																																	
69	4110 - Sugar Maple Association	Poletimber Poor	29.8	50		N/A	Typed as U0 last inventory. Semi-open but a lot of cherry.																																																
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71	4130 - Aspen	Sapling Well	3.0	17	Immature	N/A	Nice regeneration. Cut 2005, Fletcher Mix, 61-032-04. Cut all aspen, jack pine, and mixed hardwood. Left all oak.																																																
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72	4199 - Other Mixed Upland Deciduous	Poletimber Well	15.5	53	1-50	N/A	Clumpy timber. Old wildlife research clearcut. Full canopy but some of it is smaller (pre-commercial) red maple.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
74	4130 - Aspen	Sapling Well	22.9	7	Immature	N/A	147 Aspen Blitz, 61-070-14. Final harvested 2015, cut > 4" DBH except oak, paper birch, and white pine. Also left red pine within 10' of motorcycle trail.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		5	Pole	7		Hazelnut (Spp.)	
Bigtooth Aspen		60	Sapling	1	7	Red Maple	
Quaking Aspen		25	Sapling	1	7	Density	
Red Maple		10	Sapling	1		Avg. Height	
						Size	
						Tall Shrub	
						Sapling	
75	4130 - Aspen	Sapling Well	13.0	7	Immature	N/A	147 Aspen Blitz, 61-070-14. Final harvested 2015, cut > 4" DBH except oak, paper birch, and white pine. Good aspen regeneration with decent species diversity especially along trail.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		2	Pole	6		Jack Pine	
White Oak		5	Pole/Sapling	5		Density	
Red Oak		5	Pole/Sapling	6		Avg. Height	
Black Cherry		15	Sapling	1		Size	
Quaking Aspen		60	Sapling	1	7	< 5 feet	
Red Maple		10	Sapling/Pole	1		Sapling	
White Pine		3	Pole	6			
76	4199 - Other Mixed Upland Deciduous	Poletimber Well	68.9	50	1-50	N/A	Old wildlife research clearcut. Stand is just reaching pole size. Sparser on east end with sprawling shape.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		10	Pole/Log	8		Witch Hazel	
Red Maple		15	Pole	6		White Oak	
Red Oak		35	Pole/Log	8	50	Red Maple	
White Oak		10	Pole	5		Density	
Quaking Aspen		10	Pole	6		Avg. Height	
Bigtooth Aspen		20	Pole/Log	8		Size	
						Tall Shrub	
						Sapling	
						Sapling	
78	4199 - Other Mixed Upland Deciduous	Poletimber Medium	23.5	48	1-50	N/A	Semi open with lots of areas of saplings in canopy.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		30	Pole/Sap/Log	6			
Black Cherry		50	Sapling/Pole	4	48		
White Pine		5	Pole/Sap/Log	6			
Red Oak		15	Sapling/Pole	3			
79	4130 - Aspen	Poletimber Well	35.9	53		N/A	Former wildlife research clearcut. Some red oak present at the north end of the stand. West end was cut last YOE (now stand 179).
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole	8		Red Maple	
Red Oak		5	Pole	8		White Oak	
Bigtooth Aspen		20	Pole	8		Density	
Black Cherry		5	Pole	8		Avg. Height	
Quaking Aspen		60	Pole	8	53	Size	
						Sapling	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
80	4130 - Aspen	Sapling Well	2.9	17	Immature	N/A	Cut all aspen and hardwood in 2005 with Fletcher Mix, 61-032-04.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Oak		5	Pole/Log	8			
Red Maple		10	Sapling	2			
White Pine		2	Pole/Log	8			
Quaking Aspen		25	Sapling	2			
Bigtooth Aspen		58	Sapling/Pole	2	17		
81	3205 - Mixed Upland Shrub	Nonstocked	14.0			No	More open than other openings in the compartment. Clump of jack pine in south end.
82	4130 - Aspen	Poletimber Well	16.1	53	51-80	N/A	Good quality aspen 4-5 sticks tall. East end of stand has more red oak mixed in.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Pole	8		Density	Avg. Height
Red Oak		5	Pole/Log	9			Size
Quaking Aspen		15	Pole	8	53	Red Maple	>20 feet
Bigtooth Aspen		60	Pole/Log	9	53	Black Cherry	10 - 20 feet
						Witch Hazel	5 - 10 feet
							Tall Shrub
83	310 - Herbaceous Openland	Nonstocked	13.1				Gas pipeline. NGL Supply Terminal Co. LLC 888-529-5558
84	330 - Low-Density Trees	Nonstocked	9.5			No	
85	4130 - Aspen	Sapling Well	4.9	17	Immature	N/A	Stand was originally a jack pine stand mixed with some aspen that has regenerated to all aspen. Cut 2005, Fletcher Mix, 61-032-04. Cut all aspen, jack pine, and mixed hardwood. Left all oak.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Sapling	2		Density	Avg. Height
Quaking Aspen		90	Sapling	2	17		Size
White Pine		5	Pole/Log	9		Black Cherry	5 - 10 feet
						Jack Pine	10 - 20 feet
							Sapling
86	330 - Low-Density Trees	Nonstocked	1.8			No	
87	4110 - Sugar Maple Association	Poletimber Poor	58.4	50	1-50	N/A	Typed as U0 last inventory but has filled in with a lot of cherry.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		5	Sapling	2		Density	Avg. Height
Black/Red (Hybrid) Oak		5	Sapling/Pole	2			Size
Quaking Aspen		10	Pole/Sapling	7		Sweet Fern	< 5 feet
Black Cherry		80	Pole/Sapling	6	50		Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
88	4131 - Aspen, Oak	Sapling Medium	3.8	17	1-50	N/A	Stand had all the aspen, jack pine and red maple removed out of it in 2005 'Fletcher Mix' sale. Scattered oak logs in the overstory. Some oak regeneration but heavily browsed.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		55	Sapling	2	17	White Oak		
Red Maple		20	Sapling	2		Red Oak		
White Oak		10	Log	12				
Red Oak		15	Log/XLog	14	90			
89	4121 - Oak, Aspen	Poletimber Poor	6.4	48	1-50	N/A	Relatively low density transition from opening to other forested stands.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		30	Pole/Sapling	5		White Oak		
Red Oak		50	Pole/Sapling	5	48	Witch Hazel		
Red Maple		10	Pole/Sapling	5		Black Cherry		
White Oak		10	Pole/Sapling	5				
90	4130 - Aspen	Sapling Well	15.8	17	Immature	N/A	Cut 2005, Fletcher Mix, 61-032-04. Cut all aspen, jack pine, and mixed hardwood. Left all oak.	
Canopy Species		% Cover	Size Class	DBH	Age			
Black Cherry		10	Sapling	1				
Red Maple		10	Sapling	2				
Pin Cherry		3	Sapling	3				
Quaking Aspen		77	Sapling/Pole	2	17			
92	4199 - Other Mixed Upland Deciduous	Sapling Poor	2.6	7	Immature	N/A	147 Aspen Blitz, 61-070-14. Final harvested 2015, cut everything except for scattered leave trees, ~20 sf/ac and bushy jack pine at edge of stand. 2022: Regeneration does not look all that successful. Small stuff is heavily browsed.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Oak		10	Sapling	1	7			
White Oak		10	Sapling	1	7			
Quaking Aspen		30	Sapling	1	7			
Jack Pine		10	Sapling	1				
Red Oak		8	Log	10	80			
Red Maple		15	Sapling/Pole	2				
White Pine		5	Sapling	1				
White Oak		12	Log	7				
93	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Poor	9.4	7	Immature	N/A	147 Aspen Blitz, 61-070-14. Final harvested 2015, cut everything except for scattered leave trees, ~20 sf/ac and bushy jack pine at edge of stand. 2022: Jack pine is coming in slowly. Still mostly open but that's probably what previous stand looked like.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Oak		5	Sapling/Pole	4				
Black Cherry		30	Sapling	1				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
94	4199 - Other Mixed Upland Deciduous	Poletimber Medium	4.0	48	1-50	N/A	Close to 50% open. Little bit of everything.																																													
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95	310 - Herbaceous Openland	Nonstocked	13.3			No	Mostly open grassy area with scattered cherry and a few clumps of limby jack pine.																																													
97	330 - Low-Density Trees	Nonstocked	3.7			No	Scattered jack pine.																																													
98	3205 - Mixed Upland Shrub	Nonstocked	5.3			No																																														
99	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	16.2	17	Immature	N/A	Was a J6 stand in 2004. Cut all jack pine, aspen and hardwood in 2005 with Fletcher Mix, 61-032-04. Some concerns about regen stocking in 2012 but decided not to plant anything.																																													
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101	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	15.6	17	Immature	N/A	Stand was cut in 2005, Fletcher Mix, 61-032-04. Cut all aspen, jack pine, and mixed hardwood. Left all oak. Was an aspen/jack pine mix. Aspen, cherry and soft maple are taller with the jack pine is coming underneath. Some areas more aspen and some more conifer. Scattered oak logs trees through out.																																													
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102	4132 - Aspen, Jack Pine	Sapling Well	12.4	17	Immature	N/A	Cut 2005, Fletcher Mix, 61-032-04. Cut all aspen and mixed hardwood. Left all oak and pine. Wildlife Division wanted the jack pine pole timber to stay. Aspen regenerated well and jack pine is gradually dying out of the canopy now.																																													
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103	4199 - Other Mixed Upland Deciduous	Poletimber Well	19.0	48	51-80	N/A	Like nearby stands but more oak. Some of the timber is 4 sticks tall. Old white pine stumps.																																																			
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104	330 - Low-Density Trees	Nonstocked	4.3			No																																																				
105	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	2.5	57		N/A	Limby wood.																																																			
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106	310 - Herbaceous Openland	Nonstocked	1.6			No																																																				
107	4119 - Mixed Northern Hardwoods	Poletimber Poor	13.6	48	1-50	N/A																																																				
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108	4131 - Aspen, Oak	Poletimber Well	139.8	53	Unspecified	N/A	Former wildlife research cut. Variable, sprawling stand. Some nicer bigtooth with quaking too. Started to break up age class in 2014 YOY and should continue to do that.																																																			
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109	42220 - Natural Jack Pine	Poletimber Medium	1.6	57		N/A																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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110	710 - Sand, Soil	Nonstocked	2.9				Old well pad, plugged in 2001. In need of rehab. Lots of abandoned infrastructure and an unsafe open hole with pipes sticking out of it. Miracle Petroleum Inc. State Garfield 1-25A T25N R6W SE1/4 NW1/4 NE1/4 Permit number 47941
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111	4139 - Aspen, Mixed Deciduous	Poletimber Medium	5.5	48	1-50	N/A	Typed as U0 last inventory. Semi-open but more forested now.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Pole/Log	7	48	Black/Red (Hybrid) Oak	Trace	5 - 10 feet	Sapling
Quaking Aspen	45	Pole	6	48	Black Cherry	Low	10 - 20 feet	Sapling
Black Cherry	30	Pole/Sapling	4					
Jack Pine	15	Pole/Sapling	5					

112	330 - Low-Density Trees	Nonstocked	1.5				No
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113	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	6.2	48	1-50	N/A	A really mixed stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	10	Log	14		Red Maple	Low	10 - 20 feet	Sapling
Jack Pine	40	Pole	8	48	White Oak	Low	< 5 feet	Sapling
Quaking Aspen	30	Pole/Log	8		Jack Pine	Low	5 - 10 feet	Sapling
Red Maple	20	Pole	6					

114	330 - Low-Density Trees	Nonstocked	4.7				No
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115	320 - Upland Shrub	Nonstocked	2.8				No
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116	4130 - Aspen	Sapling Well	1.1	17		N/A	Stand cut in 2005 with Compartment 143 aspen sale.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	80	Sapling/Pole	2	17
Red Oak	5	Sapling	2	
Red Maple	15	Sapling	2	

117	4130 - Aspen	Sapling Well	11.5	17	Immature	N/A	Some aspen just reaching pole size. Cut 2005. Fletcher Mix, 61-032-04. Cut all aspen and hardwood. Left all oak and pine.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Log	14	
Red Oak	5	Log	14	
Red Maple	15	Sapling	2	
Quaking Aspen	70	Sapling	3	17



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
118	4199 - Other Mixed Upland Deciduous	Poletimber Well	7.9	48	1-50	N/A	Similar to adjacent stand but a little more oak and maple than aspen.																																																		
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119	622 - Lowland Shrub	Nonstocked	6.9			No	Multipart stand of several L0 pockets.																																																		
120	4123 - Red Oak	Sawtimber Well	8.3	88	51-80	N/A	Stand had most of the aspen and hardwood cut out in 2005 with the stand to the west. Fletcher Mix, 61-032-04. Oak and red pine overstory. Aspen saplings are the canopy in some areas. Stand is on transition ground to the bog. Left some larger aspen around the bog.																																																		
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121	310 - Herbaceous Openland	Nonstocked	1.6			No	Small opening. Truck turnaround for end of plowed road.																																																		
122	6225 - Bog	Nonstocked	20.4		Immature	No																																																			
125	4130 - Aspen	Poletimber Well	20.0	53		N/A	This is the part of the stand that was left when Stand 74 was cut.																																																		
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127	4130 - Aspen	Sapling Well	13.4	7	Immature	N/A	147 Aspen Blitz, 61-070-14. Final harvested 2015, cut greater than 4" DBH except oak, paper birch, and white pine.																																																		
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129	122 - Road/Parking Lot	Nonstocked	2.8	0	Unspecified		DTE gas pipeline and Township Rd.																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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132	4130 - Aspen	Poletimber Well	4.2	53	Unspecified	N/A	Former wildlife research cut (used to be part of stand 108). Some decent size aspen but stand is small and mostly in a depression next to Fletcher Rd or on a slope next to pipeline/ORV route. Manageable but might be good to leave.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole	6	
Bigtooth Aspen	50	Pole/Log	8	53
White Oak	5	Pole	6	
Black Cherry	5	Pole	6	
Quaking Aspen	20	Pole	6	
Red Oak	5	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Low	5 - 10 feet	Tall Shrub
Black Cherry	Low	5 - 10 feet	Sapling
Red Maple	Low	5 - 10 feet	Sapling

134	4130 - Aspen	Poletimber Well	11.4	53		N/A	Former wildlife research cut. Used to be part of Stand 108.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	50	Pole/Log	8	53
Red Maple	15	Pole/Sapling	5	
White Oak	5	Pole	6	
Quaking Aspen	25	Pole	7	
Black Cherry	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	Trace	10 - 20 feet	Sapling

137	42200 - Natural White Pine	Sawtimber Well	6.2	65	51-80	N/A	Transitional stand between lowland along creek and uplands on slope. Limby, open grown wood. Barely a log stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	5	Pole	6	
Red Pine	5	Log/Pole	10	
Red Maple	5	Pole	6	
White Pine	80	Pole/Log	8	65
Bigtooth Aspen	5	Pole	6	

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

175	4130 - Aspen	Poletimber Well	27.9	54		N/A	Former wildlife research clearcut. Multipart stand split by pipeline and treatment history when eastern end was cut. Variable stand with a little more diversity at east end of biggest part. Aspen generally looks less able to hold.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Pole	8	54
Red Maple	10	Pole/Sapling	4	
Bigtooth Aspen	50	Pole/Log	8	54
White Pine	5	Pole/Log	8	
Red Oak	15	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Trace	10 - 20 feet	Sapling
Black Cherry	Low	5 - 10 feet	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub

179	4130 - Aspen	Sapling Well	19.6	7	Immature	N/A	147 Aspen Blitz, 61-070-14. Final harvested 2015, cut > 4" DBH except oak, paper birch, and white pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	60	Sapling	1	7
Red Oak	5	Pole	8	
Red Maple	15	Sapling	1	
Bigtooth Aspen	20	Sapling	1	7



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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208	4130 - Aspen	Sapling Well	24.5	7	Immature	N/A	Cut 2015 with 147 Aspen Blitz, 61-070-14. Cut > 4" dbh except oak, paper birch and white pine.
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen	80	Sapling	1	7			
Red Maple	5	Pole	6				
Black Cherry	10	Sapling	1				
Red Oak	5	Sapling/Pole	3				

308	4130 - Aspen	Sapling Well	24.7	7	Immature	N/A	Cut 2015 with 147 Aspen Blitz, 61-070-14. Cut > 4" dbh except oak, paper birch and white pine.
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen	70	Sapling	1	7			
Red Maple	15	Sapling	1				
Red Oak	5	Sapling/Pole	3				
Black Cherry	10	Sapling	1				