



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61150

Entry Year 2021

Acreage: 1,706

County Kalkaska

Management Area: Upper Muskegon

Revision Date: 2019-06-11

Stand Examiner: Thomas Peterson III

Legal Description:

T25N R05W Sec. 28,33,34

Identified Planning Goals:

Fletcher Sharptail Management Area and the northern part of The Grass Lake Waterfowl Area.

Soil and topography:

Roselawn and Rubicon Sand. Flat Terrain.

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

Mostly state land with a small 40 acre Private parcel of land in the Southeast portion of compartment. Land use is primarily hunting and snowmobiling.

Unique Natural Features:

A special concern plant and animal is listed in the Natural Features Inventory.

Archeological, Historical, and Cultural Features:

There are known archeological in this compartment.

Special Management Designations or Considerations:

Sharptail Grouse nesting and dancing grounds

Watershed and Fisheries Considerations:

Grass Lake Watershed area.

Wildlife Habitat Considerations:

The well drained soils of this compartment predominately support open grassland and upland shrub communities with several locations taking on savanna-like characteristics courtesy of localized mature oak and pine. Several aspen, oak, and pine stands are found here along the periphery of the large non-forested types and provide added diversity, including hard mast and cover in the form of young deciduous stands.

Now known as the Fletcher Grassland, this compartment was formerly the Fletcher Sharptailed Grouse (STG) Management Area. Although STG are currently not found here, the area has continued to be managed for a variety of non-forested and low-density treed communities once found on this landscape. Controlled burning will benefit these communities by setting back woody encroachment, stimulating native herbaceous vegetation and berry production, and recycling nutrients. Burning will be complimented with mechanical treatments such as planting food plots, native herbaceous species, as well as mowing and hydro-axe work. Many rare species of plants and animals depend on these fire-prone grasslands. Planting and maintenance of native shrubs and mast bearing trees would add additional diversity, cover, and food. Grassland complexes on State Forest land in compartments to the north and south should be managed in conjunction with compartment 150. Together these grasslands and shrublands compartments create a large non-forested and semi-forested complex unique to State Forest Land.

Aspen harvests should retain snags and den trees, leave trees, and downed logs in order to replicate a wildfire-altered forest and increase wildlife use by species like grouse, woodcock, golden-winged warbler, and deer. Oak treatments should leave some mature mast-producing trees and protect den and/or nest trees while maintaining tree species diversity.

Open-land associates found here include the eastern bluebird, sandhill crane, badger, upland sandpiper, smooth green snake, white-tailed deer, wild turkey, and eastern meadowlark.

This compartment, 61150, is within the Upper Muskegon Management Area (MA) of the Regional State Forest

Management Plan. Featured wildlife species for this MA are woodcock, beaver, bear, golden-winged warbler, pileated woodpecker, red-headed woodpecker, ruffed grouse, snowshoe hare, and deer. The Upper Muskegon MA is one that calls for maintaining upland open/semi open lands at or above the current level.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum elsewhere in the State. Gravel pits are not located in the area, but there may be some potential. The Garfield 30 Field is located one mile to the west. The field produces from the Ordovician Prairie du Chien. None of the State's minerals are leased in this Compartment.

Vehicle Access:

Seasonal county roads run throughout this compartment, along with a pipeline, and snowmobile trail.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The Cranberry Lake and the West Higgins-Stratford Snowmobile Trails are located in this compartment. The Cranberry Lake Trail runs southerly along the eastern edge of section 28 and the western part of section 34. The West Higgins-Stratford Trail just skirts the southern tip of section 34. The compartment is signed as a special wildlife viewing area, primarily because of the formerly active sharp-tailed grouse dancing ground.

Fire Protection:

This compartment is protected by the Kalkaska Field Office. Travel time can be an issue due to the distance from the Kalkaska Field Office. Section 34 is within Zone 5, which means that additional units from Manton, Grayling, and Houghton Lake also respond on High and above fire days. Additional Field Offices also shift equipment. VFD Fire Protection is from the Garfield Twp. Fire Department. Access is acceptable, and urban interface is not an issue. Forestry and Wildlife have worked together and have a long range management plan for prescribed fire to maintain openings.

Additional Compartment Information:

The following reports from the Inventory are attached:

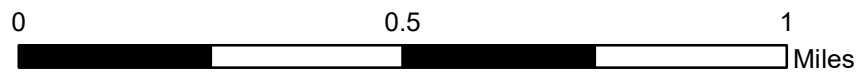
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

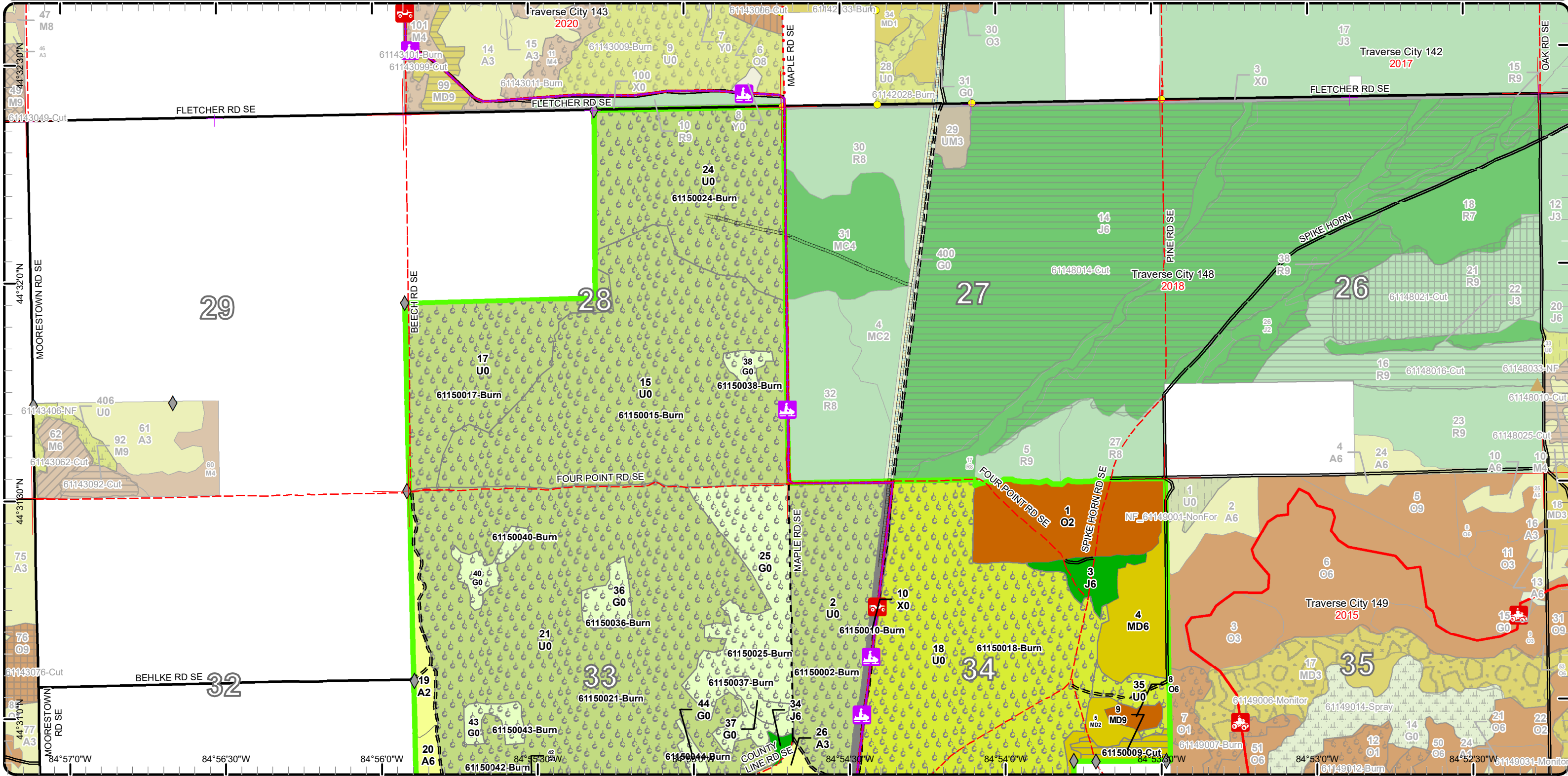
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 150
 T25N-05W Sec. 28, 33, 34
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Upper Muskegon
 YOE: 2021
 Acres: 1,707 GIS Calculated
 Examiner: Thomas Peterson III
 Map Revised: 11/13/2019
 Map Phase: Post Review

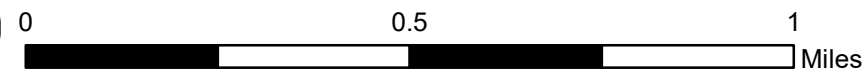


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Berms
- Pipeline
- Compartment Boundary
- Clearcut (w/Reserves)
- Prescribed Burn
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees

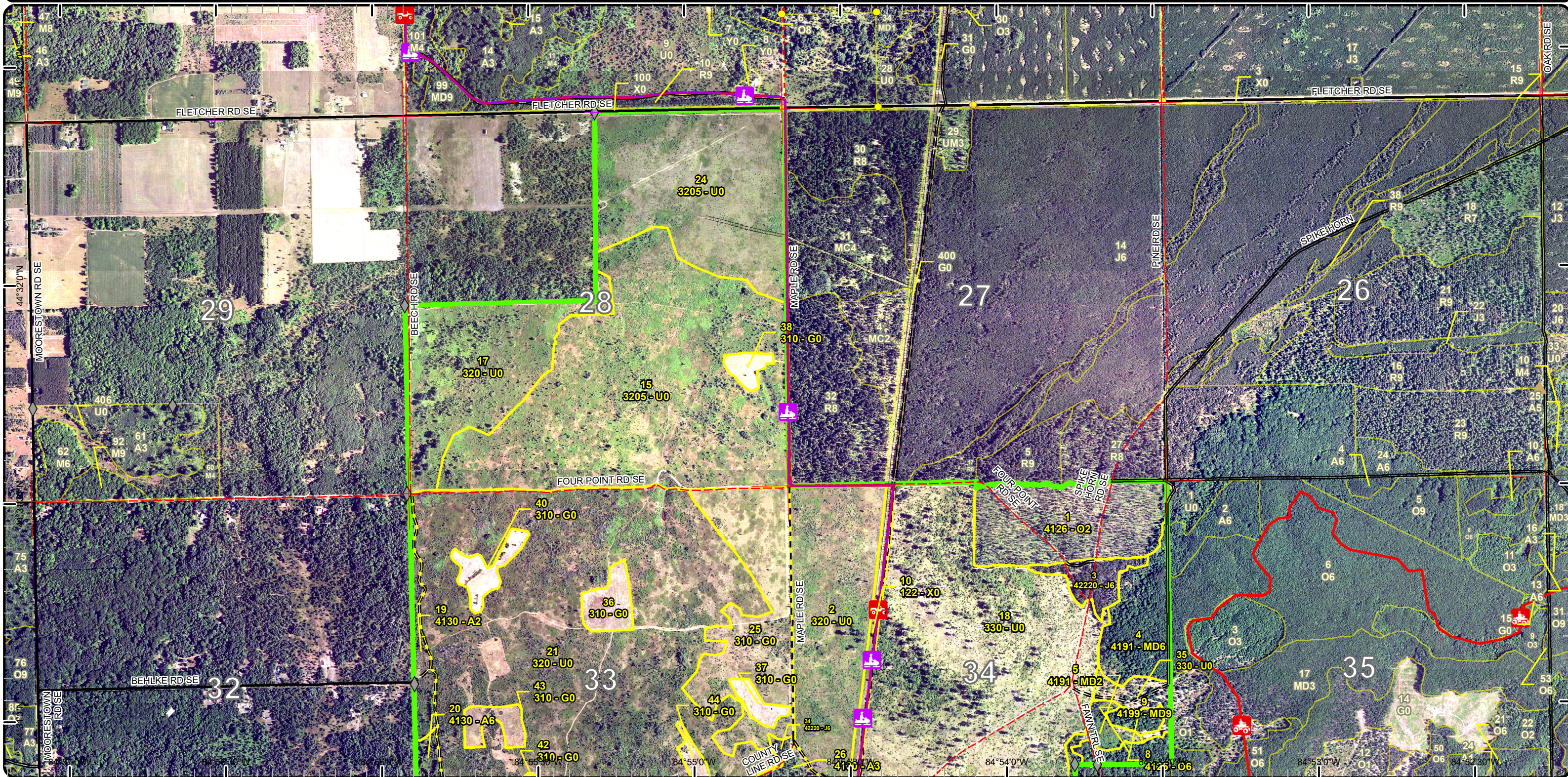


Stand Boundary Map

Compartment: 150
 T25N-05W Sec. 28, 33, 34
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Upper Muskegon
 YOE: 2021
 Acres: 1,707 GIS Calculated
 Examiner: Thomas Peterson III
 Map Revised: 11/13/2019
 Map Phase: Post Review

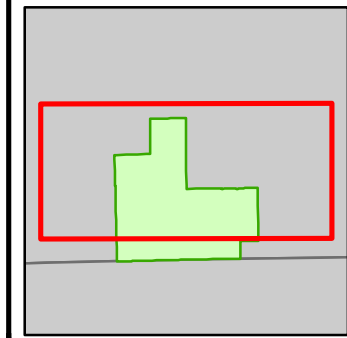
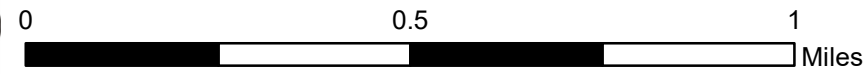


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Berms
- Pipeline
- Compartment Boundary
- Stand Boundaries
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees

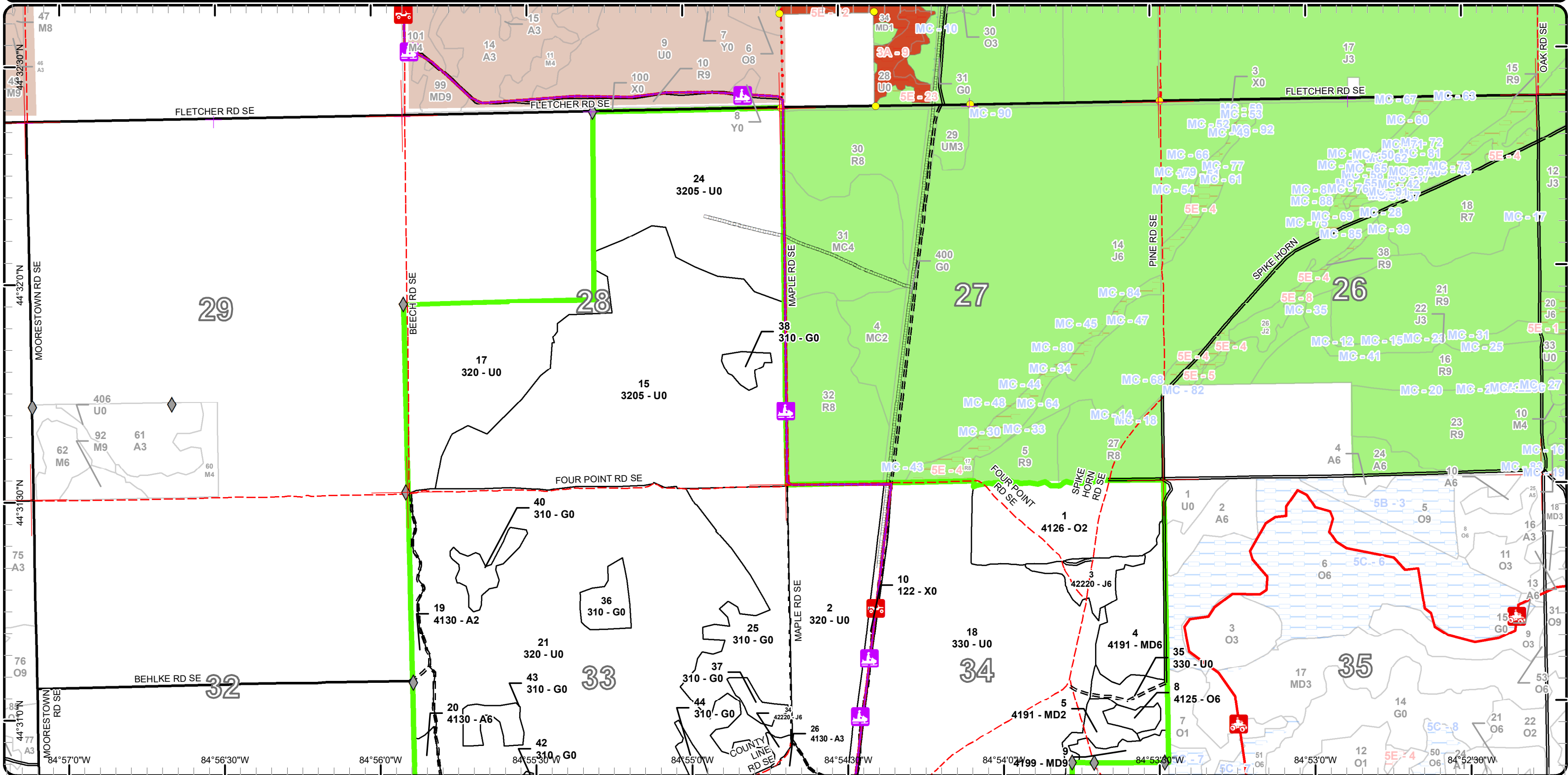


Special Conservation Areas & Site Conditions Map

Compartment: 150
 T25N-05W Sec. 28, 33, 34
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Upper Muskegon
 YOE: 2021
 Acres: 1,707 GIS Calculated
 Examiner: Thomas Peterson III
 Map Revised: 11/13/2019
 Map Phase: Post Review

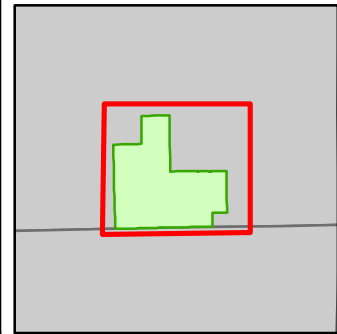
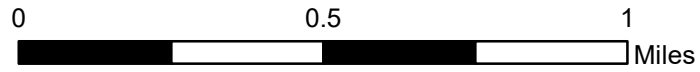


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Berms
- Pipeline
- Compartment Boundary
- Stand Boundaries
- Ecological Reference Areas
- Kirtland Warbler Habitat
- Research, Development, and Military Lands

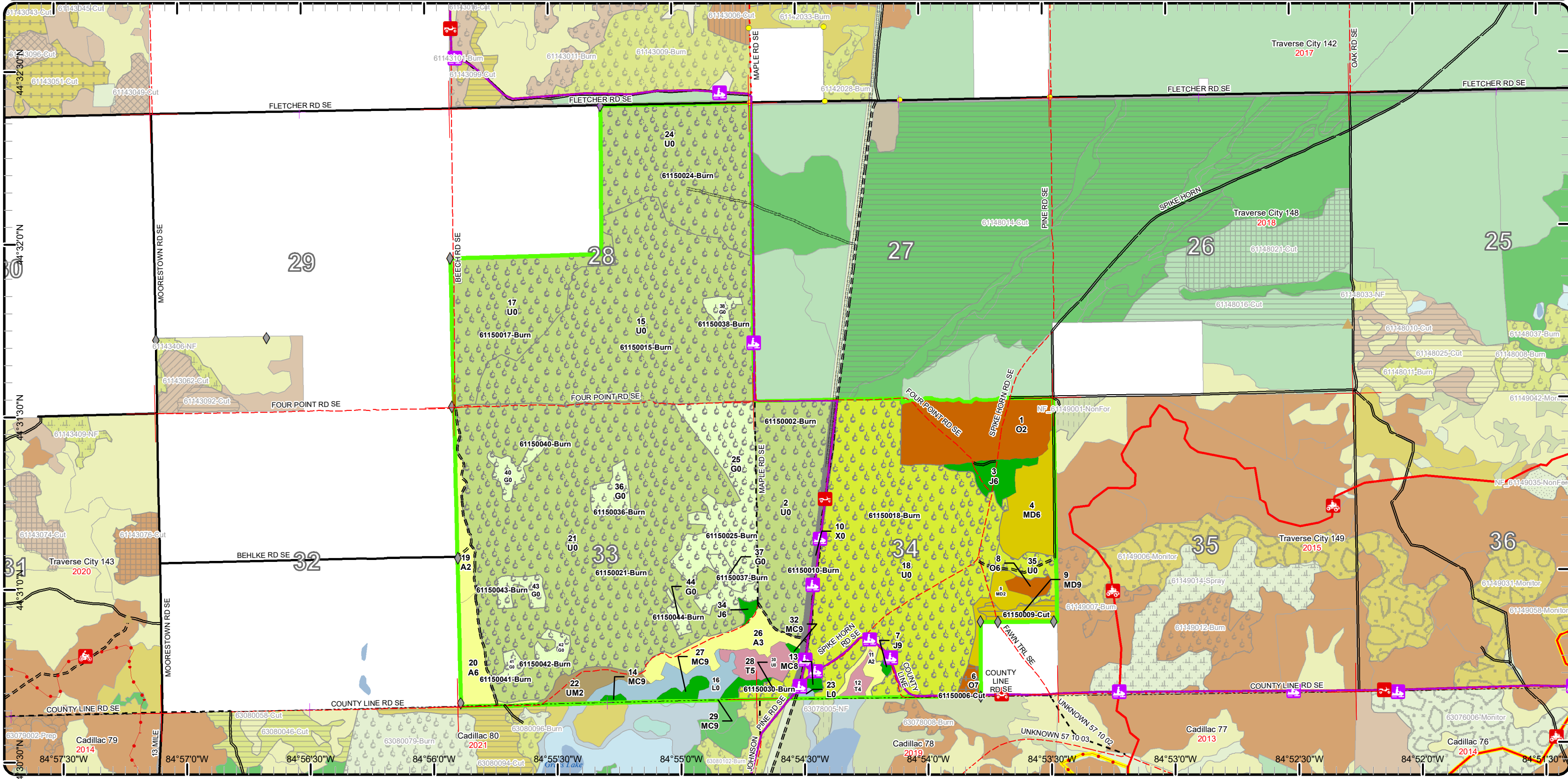


Cover Type & Treatments Map

Compartment: 150
 T25N-05W Sec. 28, 33, 34
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Upper Muskegon
 YOE: 2021
 Acres: 1,707 GIS Calculated
 Examiner: Thomas Peterson III
 Map Revised: 11/13/2019
 Map Phase: Post Review

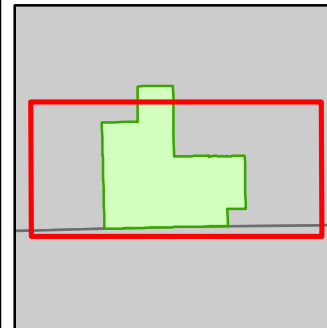
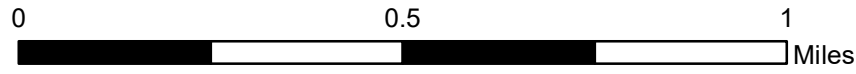


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- 🚲 ORV Trails
- 🚲 ORV Routes
- 🏠 Snowmobile Trails
- Designated ATV Trails
- - - Designated ORV Route
- Designated Snowmobile Trails
- Lake/Pond
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Prescribed Burn
- 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

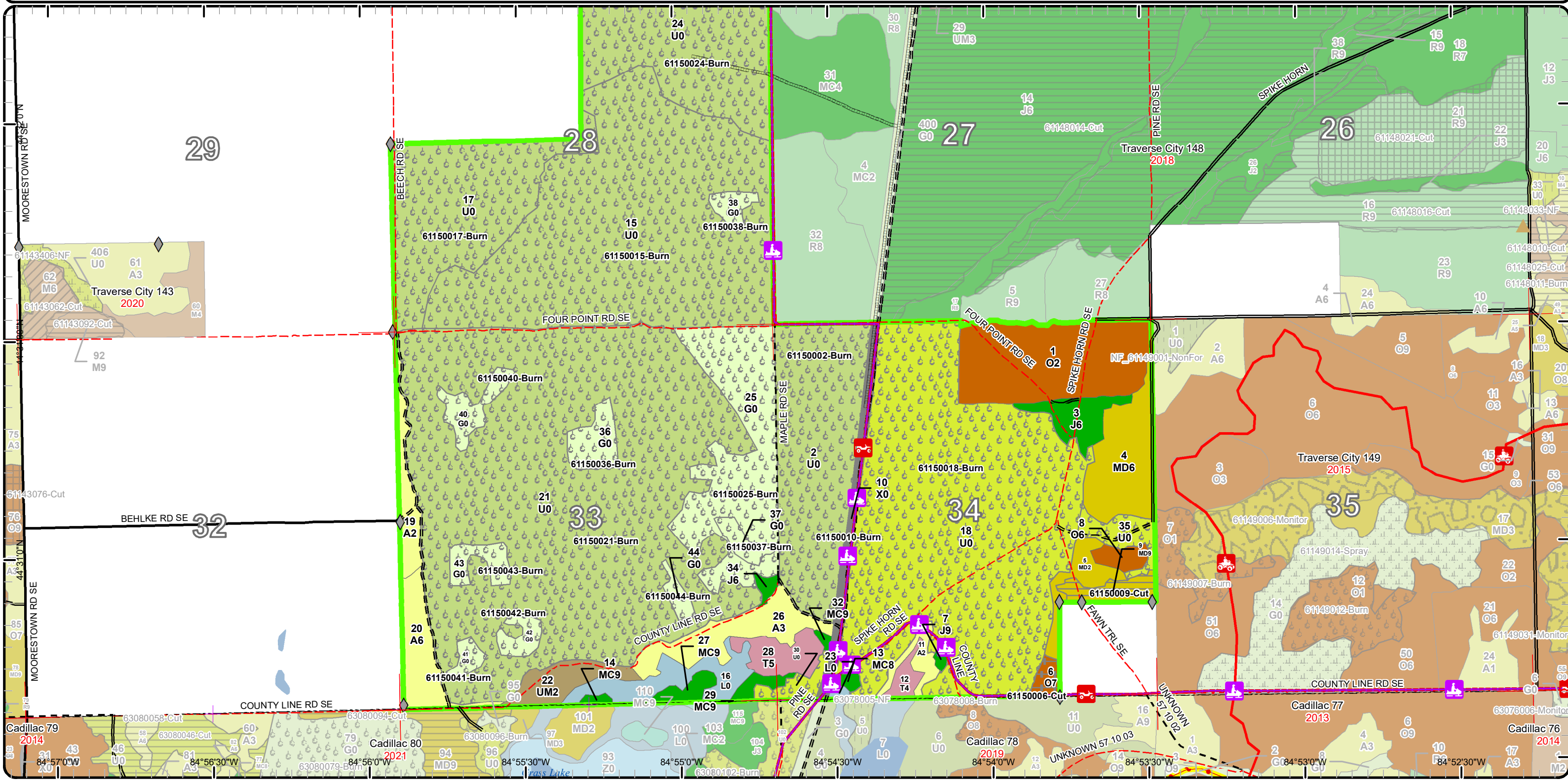


Cover Type & Treatments Map

Compartment: 150
 T25N-05W Sec. 28, 33, 34
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Upper Muskegon
 YOE: 2021
 Acres: 1,707 GIS Calculated
 Examiner: Thomas Peterson III
 Map Revised: 11/13/2019
 Map Phase: Post Review

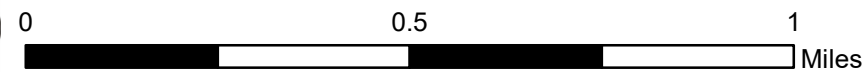


- Miris Corners
- Remonumented Section Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Berms
- Lake/Pond
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Prescribed Burn
- 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

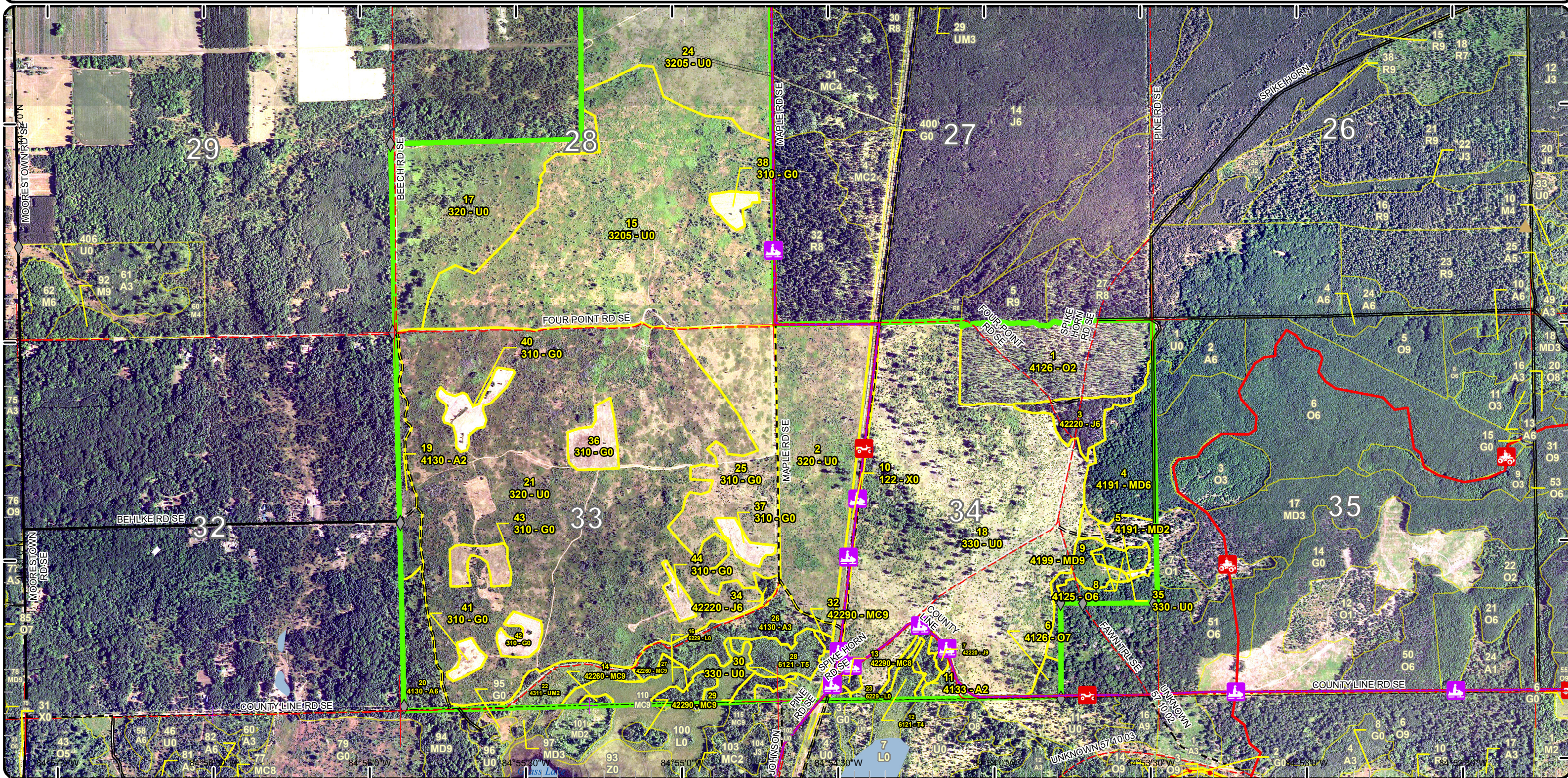


Stand Boundary Map

Compartment: 150
 T25N-05W Sec. 28, 33, 34
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Upper Muskegon
 YOE: 2021
 Acres: 1,707 GIS Calculated
 Examiner: Thomas Peterson III
 Map Revised: 11/13/2019
 Map Phase: Post Review

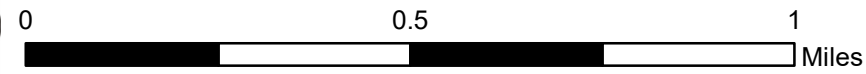


- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- 🚲 ORV Trails
- 🚲 ORV Routes
- 🚲 Snowmobile Trails
- Designated ATV Trails
- - - Designated ORV Route
- Designated Snowmobile Trails
- ▲ Berms
- Lake/Pond
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Stand Boundaries
- 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
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines

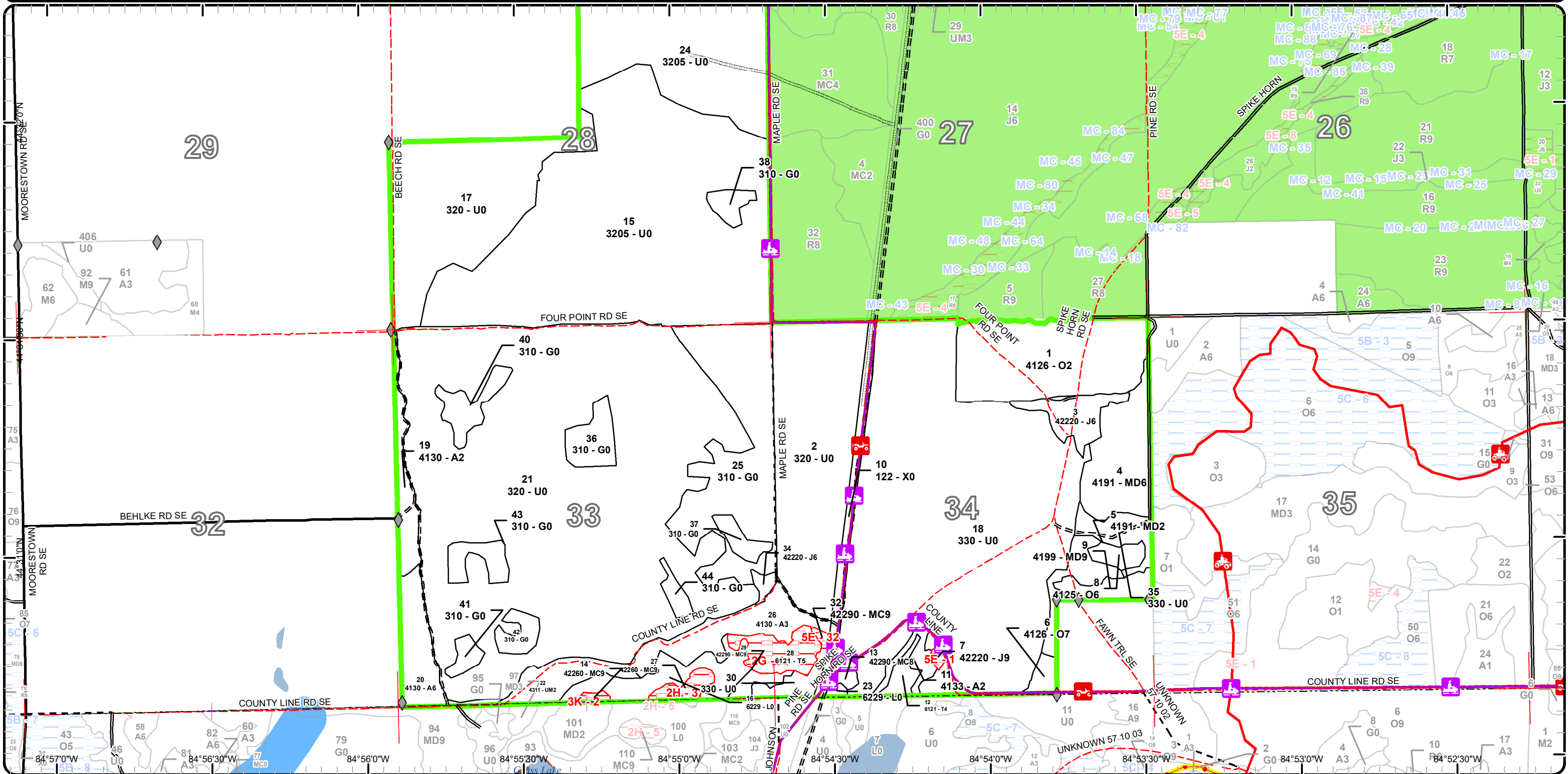


Special Conservation Areas & Site Conditions Map

Compartment: 150
 T25N-05W Sec. 28, 33, 34
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Upper Muskegon
 YOE: 2021
 Acres: 1,707 GIS Calculated
 Examiner: Thomas Peterson III
 Map Revised: 11/13/2019
 Map Phase: Post Review



- Miris Corners
- Remonumented Section Corners
- Field 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)
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Berms
- Lake/Pond
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3K: Rare or unique landforms
- 5E: Long-Term Retention
- Stand Boundaries
- Kirtland Warbler Habitat
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit

Compartment 150 Year of Entry 2021

Thomas Peterson III : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	38	7	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	65
Herbaceous Openland	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
Jack Pine	0	0	0	0	2	13	1	0	0	0	0	0	0	0	0	0	0	0	16
Low-Density Trees	307	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	307
Lowland Shrub	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	0	0	11	0	0	33	0	0	0	9	0	0	0	0	0	0	0	0	53
Natural Mixed Pines	0	0	0	0	0	0	0	0	1	12	0	0	0	0	0	0	0	0	13
Oak	0	66	0	0	0	5	0	0	0	4	0	0	0	0	0	0	0	0	75
Tamarack	0	0	0	0	13	5	0	0	0	0	0	0	0	0	0	0	0	0	17
Upland Mixed Forest	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Upland Shrub	979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	979
Urban	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Total	1452	119	18	0	36	56	1	0	1	25	0	0	0	0	0	0	0	0	1706



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 150
Total Compartment Acres: 1,706

Commercial Harvest - 13
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
Mixed Upland Deciduous	9	0	0	0	0	0	0	0	0	9
Oak	0	0	0	0	0	4	0	0	0	4
Total	9	0	0	0	0	4	0	0	0	13

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	13	0	0	0	1430	0	0	0	0	1443
Next Step	0	0	0	0	0	0	9	0	1430	1439
Total	13	0	0	0	1430	0	9	0	1430	2882



S
t
a
n
d

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

Approved Treatments:

2	61150002-Burn	98.1	320 - Upland Shrub	Nonstocked	0		Burn	Opening	3105 - Mixed Upland Herbaceous	Even-Aged	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, Mowing</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
6	61150006-Cut	4.1	4126 - White, Black, N. Pin Oak	Sawtimber Poor	82	1-50	Harvest	Overstory Removal	4129 - Mixed Oak	Even-Aged	No
<p><u>Prescription</u> Overstory removal with no retention due to stand being under 5 acres. Cut all trees 4 inches or greater at DBH. Protect oak advanced regeneration in stand. Use oak wilt spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Oak and any other mix of upland species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
9	61150009-Cut	9.1	4199 - Other Mixed Upland Deciduous	Sawtimber Well	82	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with no retention due to stand being under 10 acres in size. Cut all trees 2 inches or greater in DBH. Use oak wilt spec. Mark 5-10 white oak in the stand to leave for mass producing 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 Regen:</u> Moderately to fully stocked stand with any component of oak, aspen, red maple and any other combination of mixed upland species.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

10	61150010-Burn	15.5	122 - Road/Parking Lot	Nonstocked		Burn	Opening	3105 - Mixed Upland Herbaceous		No
-----------	----------------------	------	------------------------	------------	--	------	---------	--------------------------------	--	----

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, Mowing

Acceptable Regen:

Other Comment: Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.

Site Condition

Proposed Start Date: 10/1 /2020

15	61150015-Burn	253.4	3205 - Mixed Upland Shrub	Nonstocked		Burn	Opening	3105 - Mixed Upland Herbaceous		No
-----------	----------------------	-------	---------------------------	------------	--	------	---------	--------------------------------	--	----

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, Mowing

Acceptable Regen:

Other Comment: Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.

Site Condition

Proposed Start Date: 10/1 /2020

17	61150017-Burn	90.7	320 - Upland Shrub	Nonstocked		Burn	Opening	3105 - Mixed Upland Herbaceous		No
-----------	----------------------	------	--------------------	------------	--	------	---------	--------------------------------	--	----

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, Mowing

Acceptable Regen:

Other Comment: Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.

Site Condition

Proposed Start Date: 10/1 /2020



S
t
a
n
d

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
18	61150018-Burn	289.7	330 - Low-Density Trees	Nonstocked			Burn	Opening	3105 - Mixed Upland Herbaceous		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, Mowing</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>											
21	61150021-Burn	408.7	320 - Upland Shrub	Nonstocked		Immature	Burn	Opening	3105 - Mixed Upland Herbaceous		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, Mowing</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>											
24	61150024-Burn	128.5	3205 - Mixed Upland Shrub	Nonstocked	0		Burn	Opening	3105 - Mixed Upland Herbaceous		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, Mowing</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</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
25	61150025-Burn	75.0	310 - Herbaceous Openland	Nonstocked			Burn	Opening	3105 - Mixed Upland Herbaceous		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, Mowing</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>											
30	61150030-Burn	6.6	330 - Low-Density Trees	Nonstocked			Burn	Opening	3105 - Mixed Upland Herbaceous		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, Mowing</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>											
35	61150035-Burn	10.7	330 - Low-Density Trees	Nonstocked	47		Burn	Opening	3105 - Mixed Upland Herbaceous		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, Mowing</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</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
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

36	61150036-Burn	10.9	310 - Herbaceous Openland	Nonstocked		Burn	Opening	3105 - Mixed Upland Herbaceous		No
-----------	----------------------	------	---------------------------	------------	--	------	---------	--------------------------------	--	----

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, Herbaceous/Crop/Grass Planting

Acceptable Regen:

Other Comment: Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.

Site Condition

Proposed Start Date: 10/1 /2020

37	61150037-Burn	5.3	310 - Herbaceous Openland	Nonstocked		Burn	Opening	3105 - Mixed Upland Herbaceous		No
-----------	----------------------	-----	---------------------------	------------	--	------	---------	--------------------------------	--	----

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, Mowing

Acceptable Regen:

Other Comment: Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.

Site Condition

Proposed Start Date: 10/1 /2020

38	61150038-Burn	5.1	310 - Herbaceous Openland	Nonstocked		Burn	Opening	3105 - Mixed Upland Herbaceous		No
-----------	----------------------	-----	---------------------------	------------	--	------	---------	--------------------------------	--	----

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, Herbaceous/Crop/Grass Planting

Acceptable Regen:

Other Comment: Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.

Site Condition

Proposed Start Date: 10/1 /2020



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
40 61150040-Burn	9.7	310 - Herbaceous Openland	Nonstocked			Burn	Opening	3105 - Mixed Upland Herbaceous		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, Mowing</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>										
41 61150041-Burn	3.9	310 - Herbaceous Openland	Nonstocked			Burn	Opening	3105 - Mixed Upland Herbaceous		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, Herbaceous/Crop/Grass Planting</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>										
42 61150042-Burn	6.1	310 - Herbaceous Openland	Nonstocked			Burn	Opening	3105 - Mixed Upland Herbaceous		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, Herbaceous/Crop/Grass Planting</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</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
43 61150043-Burn	8.0	310 - Herbaceous Openland	Nonstocked			Burn	Opening	3105 - Mixed Upland Herbaceous		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, Mowing</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>										
44 61150044-Burn	3.7	310 - Herbaceous Openland	Nonstocked			Burn	Opening	3105 - Mixed Upland Herbaceous		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, Mowing</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Mechanically treat woody encroachment in conjunction with controlled burning to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Some areas within the Fletcher Grasslands may be maintained in Forest Certification approved food plots.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>										

Total Treatment Acreage Proposed: 1442.8

Report 4 – Site Conditions

Traverse City Mgt. Unit
Thomas Peterson III : Examiner

Compartment: 150
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2G	2H	3K	5E
		With Condition	Not Available					
66	66	0	0	Aspen				
128	128	0	0	Herbaceous Openland				
16	15	0	1	Jack Pine				1
307	307	0	0	Low-Density Trees				
22	22	0	0	Lowland Shrub				
53	53	0	0	Mixed Upland Deciduous				
13	5	0	7	Natural Mixed Pines		5	1	1
75	75	0	0	Oak				
17	5	0	13	Tamarack	13			0
15	15	0	0	Upland Mixed Forest				
979	979	0	0	Upland Shrub				
15	15	0	0	Urban				
1,706	1,685		21	Total Forested Acres	13	5	1	2
	99%		1%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3K: Rare or unique landforms	1	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments: Stand is 1.4 acres. Manton has cut everything to the south on this island in the middle of lowlands. Not worth the work to cut 1.4 acres of timber.							

Report 4 – Site Conditions

Traverse City Mgt. Unit
 Thomas Peterson III : Examiner

Compartment: 150
 Year of Entry: 2021

3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is upland stand surrounded by wetland. Not worth destroying wet land for 5.0 acres of timber.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	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	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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
1	4126 - White, Black, N. Pin Oak	Sapling Medium	65.9	5	Immature	N/A	2019- Stand stocking levels very across the stand with areas being fully stocked and other areas being poorly stocked. Over all stand should come back nicely with a large component of oak. Seed tree cut in 2014. Average red pine residual BA = 28 sf/acre. Heavy advanced oak regen in place before cut. Also removed some jack pine so will probably get some natural JP regen as well. Got bark beetle and rest of red pine residual was cut in 2016.																																			
<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/Red (Hybrid) Oak</td> <td>54</td> <td>Sapling</td> <td>1</td> <td>5</td> </tr> <tr> <td>White Oak</td> <td>28</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Black/Red (Hybrid) Oak	54	Sapling	1	5	White Oak	28	Sapling	1		Jack Pine	10	Sapling	1																					
Canopy Species	% Cover	Size Class	DBH	Age																																						
Black/Red (Hybrid) Oak	54	Sapling	1	5																																						
White Oak	28	Sapling	1																																							
Jack Pine	10	Sapling	1																																							
2	320 - Upland Shrub	Nonstocked	98.1	0		Managed Opening	Stand has scattered cherry and willow brush scattered throughout it. Stand has a few oak trees in it at this time. Stand was burned in 2016 under FTP # W62-818. Stand was also Burned spring 09. 98% U type killed.																																			
<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>Willow spp.</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>High</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>Low</td> <td>>20 feet</td> <td>Log</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Willow spp.		Low	< 5 feet	Sapling	Black Cherry	High	< 5 feet	Sapling	Black/Red (Hybrid) Oak	Low	>20 feet	Log																								
Sub-Canopy Species	Density	Avg. Height	Size																																							
Willow spp.	Low	< 5 feet	Sapling																																							
Black Cherry	High	< 5 feet	Sapling																																							
Black/Red (Hybrid) Oak	Low	>20 feet	Log																																							
3	42220 - Natural Jack Pine	Poletimber Well	13.3	48	51-80	N/A	2019 - Stand is in good shape and should hold for another 10 years. Stand is directly north of fletcher burn area. OI Stand Year Origin was 1971																																			
<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>85</td> <td>Pole/Sapling</td> <td>7</td> <td>48</td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Jack Pine	85	Pole/Sapling	7	48	Black Cherry	10	Pole/Sapling	5		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black/Red (Hybrid) Oak</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling															
Canopy Species	% Cover	Size Class	DBH	Age																																						
Jack Pine	85	Pole/Sapling	7	48																																						
Black Cherry	10	Pole/Sapling	5																																							
Sub-Canopy Species	Density	Avg. Height	Size																																							
Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling																																							
4	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	33.0	47	51-80	N/A	2019- Stand has few aspen clones scattered throughout it. There is more pine scattered in stand in the south and west portions of the stand. Oak is pretty clumpy with some single stems scattered throughout 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>Black/Red (Hybrid) Oak</td> <td>30</td> <td>Pole/Sapling</td> <td>7</td> <td>47</td> </tr> <tr> <td>White Oak</td> <td>25</td> <td>Pole/Sapling</td> <td>7</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>20</td> <td>Pole/Sapling</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Black/Red (Hybrid) Oak	30	Pole/Sapling	7	47	White Oak	25	Pole/Sapling	7		Bigtooth Aspen	20	Pole/Sapling	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 Cherry</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Hawthorn (spp.)</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	< 5 feet	Sapling	Hawthorn (spp.)	Low	< 5 feet	Tall Shrub						
Canopy Species	% Cover	Size Class	DBH	Age																																						
Black/Red (Hybrid) Oak	30	Pole/Sapling	7	47																																						
White Oak	25	Pole/Sapling	7																																							
Bigtooth Aspen	20	Pole/Sapling	7																																							
Sub-Canopy Species	Density	Avg. Height	Size																																							
Black Cherry	Low	< 5 feet	Sapling																																							
Hawthorn (spp.)	Low	< 5 feet	Tall Shrub																																							
5	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	11.2	10	Immature	N/A	2019 - stand has seeded in nicely with oak and various other valuable species. This stand appears to be an old seed tree cut with some scattered large oak left. There is also a stick nest in this stand, did not see any sign of nest being used. 2009 - DAH - Non-burned area. Scattered cherry.																																			
<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/Red (Hybrid) Oak</td> <td>35</td> <td>Sapling</td> <td>2</td> <td>10</td> </tr> <tr> <td>White Oak</td> <td>20</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>20</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Black/Red (Hybrid) Oak	35	Sapling	2	10	White Oak	20	Sapling	2		Jack Pine	20	Sapling	2																					
Canopy Species	% Cover	Size Class	DBH	Age																																						
Black/Red (Hybrid) Oak	35	Sapling	2	10																																						
White Oak	20	Sapling	2																																							
Jack Pine	20	Sapling	2																																							
6	4126 - White, Black, N. Pin Oak	Sawtimber Poor	4.1	82	1-50	N/A	2019 - Stand appears to be an old oak shelter wood. Stand has good advanced regeneration under it at this time. OI Stand Year Origin was 1937																																			
<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/Red (Hybrid) Oak</td> <td>60</td> <td>Log/XLog</td> <td>16</td> <td>82</td> </tr> <tr> <td>White Oak</td> <td>40</td> <td>Log/XLog</td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Black/Red (Hybrid) Oak	60	Log/XLog	16	82	White Oak	40	Log/XLog	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>Black/Red (Hybrid) Oak</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black/Red (Hybrid) Oak	High	5 - 10 feet	Sapling	White Oak	Medium	5 - 10 feet	Sapling	Bigtooth Aspen	Low	10 - 20 feet	Sapling	Black Cherry	Low	< 5 feet	Tall Shrub			
Canopy Species	% Cover	Size Class	DBH	Age																																						
Black/Red (Hybrid) Oak	60	Log/XLog	16	82																																						
White Oak	40	Log/XLog	14																																							
Sub-Canopy Species	Density	Avg. Height	Size																																							
Black/Red (Hybrid) Oak	High	5 - 10 feet	Sapling																																							
White Oak	Medium	5 - 10 feet	Sapling																																							
Bigtooth Aspen	Low	10 - 20 feet	Sapling																																							
Black Cherry	Low	< 5 feet	Tall Shrub																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
7	42220 - Natural Jack Pine	Sawtimber Well	1.0	55	81-110	N/A	OPIC - FMD: 2009 - DAH - Leave for retention purposes.																														
<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>75</td> <td>Log/Pole</td> <td>10</td> <td>55</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	75	Log/Pole	10	55	Black/Red (Hybrid) Oak	10	Log/Pole	12		White Pine	10	Log/Pole	12											
Canopy Species	% Cover	Size Class	DBH	Age																																	
Jack Pine	75	Log/Pole	10	55																																	
Black/Red (Hybrid) Oak	10	Log/Pole	12																																		
White Pine	10	Log/Pole	12																																		
8	4125 - Black, N. Pin Oak	Poletimber Well	5.1	47	51-80	N/A	2019 - oak island in middle of opening. OI Stand Year Origin was 1972																														
<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/Red (Hybrid) Oak</td> <td>50</td> <td>Pole/Sapling</td> <td>7</td> <td>47</td> </tr> <tr> <td>White Oak</td> <td>15</td> <td>Pole/Sapling</td> <td>7</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Pole/Sapling</td> <td>7</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Black/Red (Hybrid) Oak	50	Pole/Sapling	7	47	White Oak	15	Pole/Sapling	7		Jack Pine	10	Pole/Sapling	5		Red Maple	25	Pole/Sapling	7						
Canopy Species	% Cover	Size Class	DBH	Age																																	
Black/Red (Hybrid) Oak	50	Pole/Sapling	7	47																																	
White Oak	15	Pole/Sapling	7																																		
Jack Pine	10	Pole/Sapling	5																																		
Red Maple	25	Pole/Sapling	7																																		
9	4199 - Other Mixed Upland Deciduous	Sawtimber Well	9.1	82	51-80	N/A	Stand has some nice oak in it with a mix of aspen and red maple. Clearcut stand in order to optimize the amount of oak that will regenerate in 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>Bigtooth Aspen</td> <td>25</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>30</td> <td>Log/Pole</td> <td>13</td> <td>82</td> </tr> <tr> <td>White Oak</td> <td>20</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	25	Log/Pole	10		Red Maple	25	Log/Pole	10		Black/Red (Hybrid) Oak	30	Log/Pole	13	82	White Oak	20	Log/Pole	12						
Canopy Species	% Cover	Size Class	DBH	Age																																	
Bigtooth Aspen	25	Log/Pole	10																																		
Red Maple	25	Log/Pole	10																																		
Black/Red (Hybrid) Oak	30	Log/Pole	13	82																																	
White Oak	20	Log/Pole	12																																		
10	122 - Road/Parking Lot	Nonstocked	15.5			No	Pipeline / road. Mostly sand with very little vegetation. .																														
11	4133 - Aspen, Mixed Pine	Sapling Medium	6.7	10	Immature	N/A	Stand is moderately stocked aspen stand, stand is upland stand that has lowland in 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>50</td> <td>Sapling/Pole</td> <td>4</td> <td>10</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>15</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>White Pine</td> <td>20</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	50	Sapling/Pole	4	10	Black/Red (Hybrid) Oak	15	Sapling/Pole	4		White Pine	20	Sapling/Pole	4		Black Cherry	10	Sapling	2						
Canopy Species	% Cover	Size Class	DBH	Age																																	
Quaking Aspen	50	Sapling/Pole	4	10																																	
Black/Red (Hybrid) Oak	15	Sapling/Pole	4																																		
White Pine	20	Sapling/Pole	4																																		
Black Cherry	10	Sapling	2																																		
12	6121 - Tamarack	Poletimber Poor	4.5	47	1-50	N/A	Tamarack scattered with marsh grass.																														
<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>Tamarack</td> <td>75</td> <td>Pole/Sapling</td> <td>5</td> <td>47</td> </tr> <tr> <td>White Pine</td> <td>25</td> <td>Log/Pole/XLog</td> <td>14</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Tamarack	75	Pole/Sapling	5	47	White Pine	25	Log/Pole/XLog	14																
Canopy Species	% Cover	Size Class	DBH	Age																																	
Tamarack	75	Pole/Sapling	5	47																																	
White Pine	25	Log/Pole/XLog	14																																		
13	42290 - Natural Mixed Pine	Sawtimber Medium	1.8	85	111-140	N/A	Stand is an upland lowland mix. Allow short lived species to fall out of stand, allowing long lived species to protect wetland.																														
<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/Red (Hybrid) Oak</td> <td>10</td> <td>Pole/Sapling</td> <td>7</td> <td></td> </tr> <tr> <td>White Pine</td> <td>30</td> <td>Log/Pole/XLog</td> <td>16</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>8</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>42</td> <td>Log/Pole/XLog</td> <td>16</td> <td>85</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Black/Red (Hybrid) Oak	10	Pole/Sapling	7		White Pine	30	Log/Pole/XLog	16		Jack Pine	10	Log/Pole	10		Quaking Aspen	8	Pole/Sapling	6		Red Pine	42	Log/Pole/XLog	16	85
Canopy Species	% Cover	Size Class	DBH	Age																																	
Black/Red (Hybrid) Oak	10	Pole/Sapling	7																																		
White Pine	30	Log/Pole/XLog	16																																		
Jack Pine	10	Log/Pole	10																																		
Quaking Aspen	8	Pole/Sapling	6																																		
Red Pine	42	Log/Pole/XLog	16	85																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
14	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	1.4	85	51-80	N/A	Stand Is an island in the middle of a wet land. Manton has cut south of the county line. Stand is less then 2 acres. Not worth the damage to wetland to cut timber at this time.																														
<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>40</td> <td>Log/Pole/XLog</td> <td>14</td> <td>85</td> </tr> <tr> <td>Quaking Aspen</td> <td>30</td> <td>Pole/Sapling</td> <td>7</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log/Pole/XLog</td> <td>14</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	40	Log/Pole/XLog	14	85	Quaking Aspen	30	Pole/Sapling	7		Jack Pine	10	Pole/Log	8		Black/Red (Hybrid) Oak	10	Pole/Log	8		White Pine	10	Log/Pole/XLog	14	
Canopy Species	% Cover	Size Class	DBH	Age																																	
Red Pine	40	Log/Pole/XLog	14	85																																	
Quaking Aspen	30	Pole/Sapling	7																																		
Jack Pine	10	Pole/Log	8																																		
Black/Red (Hybrid) Oak	10	Pole/Log	8																																		
White Pine	10	Log/Pole/XLog	14																																		
15	3205 - Mixed Upland Shrub	Nonstocked	253.4			Managed Opening	Stand has scattered cherry and willow shrubs scattered throughout it. Stand is managed with fletcher burn rotation, FTP # W62-818. Fletcher Burns are part of the Sharp Tail Management Area. Burn units are Staggered this compartment.																														
<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 Cherry</td> <td>High</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Willow spp.</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>								Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	High	< 5 feet	Sapling	Willow spp.	Medium	< 5 feet	Sapling																		
Sub-Canopy Species	Density	Avg. Height	Size																																		
Black Cherry	High	< 5 feet	Sapling																																		
Willow spp.	Medium	< 5 feet	Sapling																																		
16	6229 - Mixed lowland shrub	Nonstocked	20.7			No	There are a few scattered large white pine in stand with some pockets of tamarack saplings.																														
<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>>20 feet</td> <td>Log</td> </tr> <tr> <td>Tamarack</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>								Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	>20 feet	Log	Tamarack	Low	< 5 feet	Sapling																		
Sub-Canopy Species	Density	Avg. Height	Size																																		
White Pine	Low	>20 feet	Log																																		
Tamarack	Low	< 5 feet	Sapling																																		
17	320 - Upland Shrub	Nonstocked	90.7			Managed Opening	Stand has scattered cherry and willow shrubs scattered throughout it. The cherry shrub brush is heavy in parts of this stand. Stand is managed with fletcher burn rotation, FTP # W62-818. Fletcher Burns are part of the Sharp Tail Management Area. Burn units are Staggered this compartment.																														
<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 Cherry</td> <td>Full</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>								Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Full	< 5 feet	Tall Shrub	Quaking Aspen	Low	< 5 feet	Sapling																		
Sub-Canopy Species	Density	Avg. Height	Size																																		
Black Cherry	Full	< 5 feet	Tall Shrub																																		
Quaking Aspen	Low	< 5 feet	Sapling																																		
18	330 - Low-Density Trees	Nonstocked	289.7			Managed Opening	Stand Was burned in 2017 under FTP # W62-818. Stand is made up of cherry and willow shrub brush. Stand has scattered clumps of oak with a few single oak scattered throughout the stand. Burned spring 09. 98% U type killed. This stand has scattered oak sawlogs in areas. Fletcher Burns are part of the Sharp Tail Management Area. Burn units are Staggered this compartment.																														
<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>Willow spp.</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>High</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>Low</td> <td>>20 feet</td> <td>Log</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>								Sub-Canopy Species	Density	Avg. Height	Size	Willow spp.	Low	< 5 feet	Sapling	Black Cherry	High	< 5 feet	Sapling	Black/Red (Hybrid) Oak	Low	>20 feet	Log	Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling										
Sub-Canopy Species	Density	Avg. Height	Size																																		
Willow spp.	Low	< 5 feet	Sapling																																		
Black Cherry	High	< 5 feet	Sapling																																		
Black/Red (Hybrid) Oak	Low	>20 feet	Log																																		
Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling																																		
19	4130 - Aspen	Sapling Medium	13.1	6	Immature	N/A	Thin aspen stand between Private property and Fletcher Burn area.																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>25</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>70</td> <td>Sapling/Pole</td> <td>3</td> <td>6</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	25	Sapling/Pole	3		Quaking Aspen	70	Sapling/Pole	3	6															
Canopy Species	% Cover	Size Class	DBH	Age																																	
Black Cherry	25	Sapling/Pole	3																																		
Quaking Aspen	70	Sapling/Pole	3	6																																	
20	4130 - Aspen	Poletimber Well	20.5	39	51-80	N/A	2019 - Fully stocked aspen stand has a few pockets of A3 mixed in it at this time. 2009 - Sharp-tail mgt. Area. OI Stand Year Origin was 1980																														
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>15</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>15</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>63</td> <td>Pole</td> <td>8</td> <td>39</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	15	Pole/Sapling	5		Black/Red (Hybrid) Oak	15	Pole/Sapling	5		Quaking Aspen	63	Pole	8	39										
Canopy Species	% Cover	Size Class	DBH	Age																																	
Black Cherry	15	Pole/Sapling	5																																		
Black/Red (Hybrid) Oak	15	Pole/Sapling	5																																		
Quaking Aspen	63	Pole	8	39																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
21	320 - Upland Shrub	Nonstocked	408.7		Immature	Managed Opening	Stand has scattered cherry and willow shrubs scattered throughout it. Stand is managed with fletcher burn rotation, FTP # W62-818. Fletcher Burns are part of the Sharp Tail Management Area. Burn units are Staggered this compartment.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Cherry	High	< 5 feet	Sapling	
								Willow spp.	Low	< 5 feet	Sapling	
Quaking Aspen	Low	5 - 10 feet	Sapling									
22	4311 - Pine, Aspen Mix	Sapling Medium	14.7	6	Immature	N/A	2019 - Stand has regenerated decent, there are some open pockets with no trees at this time. Stand has nice pockets of jack pine scattered throughout it, with an aspen component scattered throughout the stand with a mix of other upland species. Stand also has some scattered Large white and red pine in it. 3/27/2014 KKA: Clearcut except oak 61-049-11-01, 4 Minute Mile Mix, completed 8/2012. 2009 -DAH- Hodge podge stand. Goes between mainly aspen and jack pine. Heavy red maple regen in areas. East side red and white pine logs.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	35	Sapling	2	6
								Quaking Aspen	35	Sapling	2	6
								Black Cherry	10	Sapling	1	6
Black/Red (Hybrid) Oak	10	Sapling	2									
23	6229 - Mixed lowland shrub	Nonstocked	1.1			No	Stand is lowland with some scattered Tamarack and some scattered white pine saplings.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tamarack	Low	10 - 20 feet	Sapling	
White Pine	Low	10 - 20 feet	Sapling									
24	3205 - Mixed Upland Shrub	Nonstocked	128.5	0		Managed Opening	Stand has scattered cherry and willow shrubs scattered throughout it. Stand is managed with fletcher burn rotation, FTP # W62-818. Fletcher Burns are part of the Sharp Tail Management Area. Burn units are Staggered this compartment.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Cherry	Medium	< 5 feet	Tall Shrub	
25	310 - Herbaceous Openland	Nonstocked	75.0			Managed Opening	Stand has scattered cherry and willow shrubs scattered throughout it. Stand is managed with fletcher burn rotation, FTP # W62-818. Fletcher Burns are part of the Sharp Tail Management Area. Burn units are Staggered this compartment. Burned spring 09. 98% U type killed. This stand has scattered oak sawlogs in areas.					
26	4130 - Aspen	Sapling Well	25.4	6	Immature	N/A	2019 - Stand has regenerated nicely. Stand has some large scattered white and red pine in it. More residual was left from previous cut along south end of stand along the wetland to the south of stand 26. 3/27/2014 KKA: Removed all aspen > 6" dbh, 61-049-11-01, 4 Minute Mile Mix, completed 8/2012. Fairly heavy aspen regeneration.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	60	Sapling	3	6
								Black/Red (Hybrid) Oak	15	Sapling	2	
Black Cherry	15	Sapling	2									
27	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	5.0	85	81-110	N/A	Stand is an island in the middle of a wetland. Stand is 5 acres and is not big enough to justify crane mats and harvesting the timber. Unique feature for this area.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	35	Log/Pole/XLog	16	85
								Red Pine	35	Log/Pole/XLog	16	
Quaking Aspen	30	Pole/Log/Sap	8									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																									
28	6121 - Tamarack	Poletimber Medium	12.7	30	Immature	N/A	2019 - Large Scattered white pine with tamarack. The Tamarack is in-between pole and sapling with the higher percentage of the trees being in the pole size category. 2009-Scattered large white pine, tamarack saplings.																									
<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>Tamarack</td> <td>75</td> <td>Pole/Sapling</td> <td>5</td> <td>30</td> </tr> <tr> <td>White Pine</td> <td>25</td> <td>Log/Pole/XLog</td> <td>16</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Tamarack	75	Pole/Sapling	5	30	White Pine	25	Log/Pole/XLog	16											
Canopy Species	% Cover	Size Class	DBH	Age																												
Tamarack	75	Pole/Sapling	5	30																												
White Pine	25	Log/Pole/XLog	16																													
29	42290 - Natural Mixed Pine	Sawtimber Well	3.7	89	111-140	N/A	Good mixed stand adjacent to wetland. Allow short lived species to fall out of stand and use pine for corridor and protecting the wetland.																									
<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>30</td> <td>XLog/Log/Pole</td> <td>18</td> <td>89</td> </tr> <tr> <td>White Pine</td> <td>30</td> <td>Log/Pole/XLog</td> <td>16</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>20</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>20</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	30	XLog/Log/Pole	18	89	White Pine	30	Log/Pole/XLog	16		Quaking Aspen	20	Pole/Log	8		Tamarack	20	Pole/Log	8	
Canopy Species	% Cover	Size Class	DBH	Age																												
Red Pine	30	XLog/Log/Pole	18	89																												
White Pine	30	Log/Pole/XLog	16																													
Quaking Aspen	20	Pole/Log	8																													
Tamarack	20	Pole/Log	8																													
30	330 - Low-Density Trees	Nonstocked	6.6			Managed Opening	Stand Was burned in 2017 under FTP # W62-818. Stand is made up of cherry and willow shrub brush. Stand has scattered clumps of oak with a few single oak scattered throughout the stand. Burned spring 09. 98% U type killed. This stand has scattered oak sawlogs in areas. Fletcher Burns are part of the Sharp Tail Management Area. Burn units are Staggered this compartment.																									
<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>Willow spp.</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>High</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>Low</td> <td>>20 feet</td> <td>Log</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>								Sub-Canopy Species	Density	Avg. Height	Size	Willow spp.	Low	< 5 feet	Sapling	Black Cherry	High	< 5 feet	Sapling	Black/Red (Hybrid) Oak	Low	>20 feet	Log	Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling					
Sub-Canopy Species	Density	Avg. Height	Size																													
Willow spp.	Low	< 5 feet	Sapling																													
Black Cherry	High	< 5 feet	Sapling																													
Black/Red (Hybrid) Oak	Low	>20 feet	Log																													
Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling																													
32	42290 - Natural Mixed Pine	Sawtimber Well	0.9	72	111-140	N/A	OPIC - FMD: Leave for retention.																									
<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>25</td> <td>Log/Pole/XLog</td> <td>14</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>55</td> <td>Log/Pole</td> <td>10</td> <td>72</td> </tr> <tr> <td>Red Pine</td> <td>20</td> <td>XLog/Log/Pole</td> <td>18</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	White Pine	25	Log/Pole/XLog	14		Jack Pine	55	Log/Pole	10	72	Red Pine	20	XLog/Log/Pole	18						
Canopy Species	% Cover	Size Class	DBH	Age																												
White Pine	25	Log/Pole/XLog	14																													
Jack Pine	55	Log/Pole	10	72																												
Red Pine	20	XLog/Log/Pole	18																													
34	42220 - Natural Jack Pine	Poletimber Well	2.1	30	1-50	N/A	Stand is a pocket of Jack pine that appears to be inside the Fletcher burn. The jack pine is pole to sapling at this time.																									
<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>100</td> <td>Pole/Sapling</td> <td>6</td> <td>30</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	100	Pole/Sapling	6	30															
Canopy Species	% Cover	Size Class	DBH	Age																												
Jack Pine	100	Pole/Sapling	6	30																												
35	330 - Low-Density Trees	Nonstocked	10.7	47		Managed Opening	2019 - Stand is a mixture of cherry shrub brush and scattered oak / jack pine trees and a low density. 2009 - DAH - Non-burned area. Scattered cherry.																									
<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/Red (Hybrid) Oak</td> <td>Low</td> <td>10 - 20 feet</td> <td>Pole</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td>10 - 20 feet</td> <td>Pole</td> </tr> </tbody> </table>								Sub-Canopy Species	Density	Avg. Height	Size	Black/Red (Hybrid) Oak	Low	10 - 20 feet	Pole	Black Cherry	Medium	< 5 feet	Tall Shrub	Jack Pine	Low	10 - 20 feet	Pole									
Sub-Canopy Species	Density	Avg. Height	Size																													
Black/Red (Hybrid) Oak	Low	10 - 20 feet	Pole																													
Black Cherry	Medium	< 5 feet	Tall Shrub																													
Jack Pine	Low	10 - 20 feet	Pole																													
36	310 - Herbaceous Openland	Nonstocked	10.9			Managed Opening	Stand has been cultivated and planted by wildlife. Stand is a managed food plot at this time within the Fletcher Burn area.																									
37	310 - Herbaceous Openland	Nonstocked	5.3			Managed Opening	Stand has been cultivated and planted by wildlife. Stand is a managed food plot at this time within the Fletcher Burn area.																									
38	310 - Herbaceous Openland	Nonstocked	5.1			Managed Opening	Stand has been cultivated and planted by wildlife. Stand is a managed food plot at this time within the Fletcher Burn area.																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
40	310 - Herbaceous Openland	Nonstocked	9.7			Managed Opening	Stand has been cultivated and planted by wildlife. Stand is a managed food plot at this time within the Fletcher Burn area.
41	310 - Herbaceous Openland	Nonstocked	3.9			Managed Opening	Stand has been cultivated and planted by wildlife. Stand is a managed food plot at this time within the Fletcher Burn area.
42	310 - Herbaceous Openland	Nonstocked	6.1			Managed Opening	Stand has been cultivated and planted by wildlife. Stand is a managed food plot at this time within the Fletcher Burn area.
43	310 - Herbaceous Openland	Nonstocked	8.0			Managed Opening	Stand has been cultivated and planted by wildlife. Stand is a managed food plot at this time within the Fletcher Burn area.
44	310 - Herbaceous Openland	Nonstocked	3.7			Managed Opening	Stand has been cultivated and planted by wildlife. Stand is a managed food plot at this time within the Fletcher Burn area.