



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61139

Entry Year 2026

Acreage: 1,932

County Kalkaska

Management Area: High Sand Plains

Stand Examiner: Thomas Peterson III

Legal Description:

T25N R5W Sections: 10, 11 and 12

Identified Planning Goals:

Vegetation management in the AuSable Outwash management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character, threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on improving the age-class structure of aspen, harvesting older jack pine and regeneration of red pine and oak to help balance age-classes. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity and management of the state wildlife management areas. Expected trends within this 10-year planning period are an increase in non-native exotic plants, especially Phragmites in the wetland areas and increased recreational pressure.

Soil and topography:

The topography ranges from flat to slightly rolling hills. Poor, sandy Grayling Outwash soils are located within the compartment.

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

The entire compartment is state owned land, with leases to the military and gas companies within compartment. Gas company has most of its activities within the compartment in Section 12 but does have wells and well pads in section 10 and 11 as well. Section 12 does have above ground pipelines running throughout the section and is also a sour gas field.

The entire compartment is Military Board Lands which is leased by the Military for training purposes under the terms of a lease agreement.

Land use in and around the compartment is primarily recreational in nature. Snowmobiling and hunting are the main activities. Military training causes a uptick in use during training periods. There is daily traffic on the forest trails and county roads by service crews monitoring oil/gas facilities within the compartment.

Unique Natural Features:

Hill's Thistle is found in this compartment.

In the mid 1970's, two burial pits in Section 10 were developed to dispose of thousands of PBB contaminated cattle. In 1987 a 4' high fence was erected around the pit by the Military. In 2009, the Military replaced areas of the fence. Sixteen groundwater monitoring wells were drilled in stands adjacent to the burial pits. Wells are monitored by the DEQ.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

This compartment is part of a lease agreement with the Department of Military Affairs for the use by the Military for troop training.

Watershed and Fisheries Considerations:

No bodies of water within compartment boundaries.

Wildlife Habitat Considerations:

Compartment 139 is located in SE Kalkaska County and encompasses two different types of glacial landforms, a sandy outwash plain (5111) and parts of several ice contact ridges (3111). One hundred percent of this compartment is state owned.

This sandy outwash plain supports a mixture of oak, aspen, and grassland/brush communities. Stands of fire dependant conifers, once common on these plains, are minimally present within this compartment. Fire was a major disturbance on these dry soils and should be considered a valuable treatment tool in perpetuating these fire driven ecosystems. Several

upland brush stands have been prescribed for mechanical maintenance to set back woody encroachment; future burns should be used to stimulate native herbaceous vegetation. Timber harvests should be designed to mimic wildfires of various intensities, when possible. Several sales in this entry period should be designed to protect fruiting shrubs, leave various mast producing trees, and create dead and downed logs, while producing wood for consumer use and stimulating the regeneration of future forest habitats. Standing dead timber is usually left during harvest operations unless deemed a safety hazard. Species found in these early to mid-successional communities include white-tailed deer, ruffed grouse, eastern bluebird, smooth green snake, meadow vole, red-tailed hawk, along with a list of rarer plants and animals adapted to fire dependent ecosystems.

The northern tips of several sandy ice contact ridges extend into the south/central portion of the compartment. A portion of another set of sandy ridges extends from the west a short distance into section 10. These ridges once supported a variety of fire dependent communities, most notably, coniferous forests. Present habitat types found on these ridges within compartment 139 are oak, aspen, and an occasional stand of young northern hardwoods. All openings on this ridge are of oil and gas well origins, and most are still active. As with the adjacent outwash plains, sales on the ridges should be designed to mimic natural disturbances such as fire, which probably originated on the outwash plains and continued up the dry soils of the ice contact ridges. Various harvest prescriptions will be designed to leave white oak to promote diversity and for mast production. Prescribed fire should be used to promote early to mid-successional forest and non-forested types. Gray squirrel, wild turkey, red-eyed vireo, eastern screech owl, and northern brown snake are some of the many wildlife species one might find here.

Mineral Resource and Development Concerns and/or Restrictions

2013 Comments - Surface sediments consist of ice-contact and 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. The compartment is located between Garfield and Beaver Creek Fields. Garfield produces from the Devonian Richfield and Ordovician PdC. Beaver Creek produces from the Devonian Richfield and Detroit River Formations. Most of the State's minerals are leased.

Vehicle Access:

Vehicle access is good as is, with county roads, state two tracks and oil and gas well roads that are currently in place.

Survey Needs:

No Survey needs at this time. No private land within compartment or compartment boundary.

Recreational Facilities and Opportunities:

There are no designated recreational facilities within this compartment.

Fire Protection:

The greatest difficulty with fire control in this compartment is the fact that a lot of gas/oil related pipeline is laying on the surface or just below it in section 12. Section 12 is also a sour gas area. Response time is also a concern since heavy equipment is about 45 minutes away. Response time improves when units are stationed at Garfield Township but they are still 19 miles away. Fortunately, there is a lack of volatile pine fuels in the area of this compartment. During extended dry summer periods, the risk of fire is heightened in the compartment due to the heavy presence of military activity.

Additional Compartment Information:

Any logging activities in section 12 must have a representative from BreitBurn check for above ground pipelines.

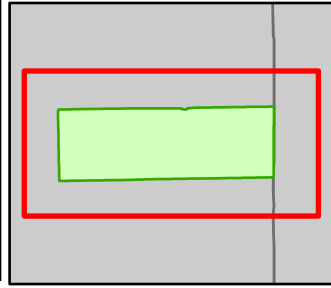
The following reports from the Inventory are attached:

- 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**

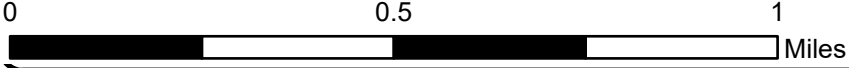
The following information is displayed, where pertinent, on the attached compartment maps:

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

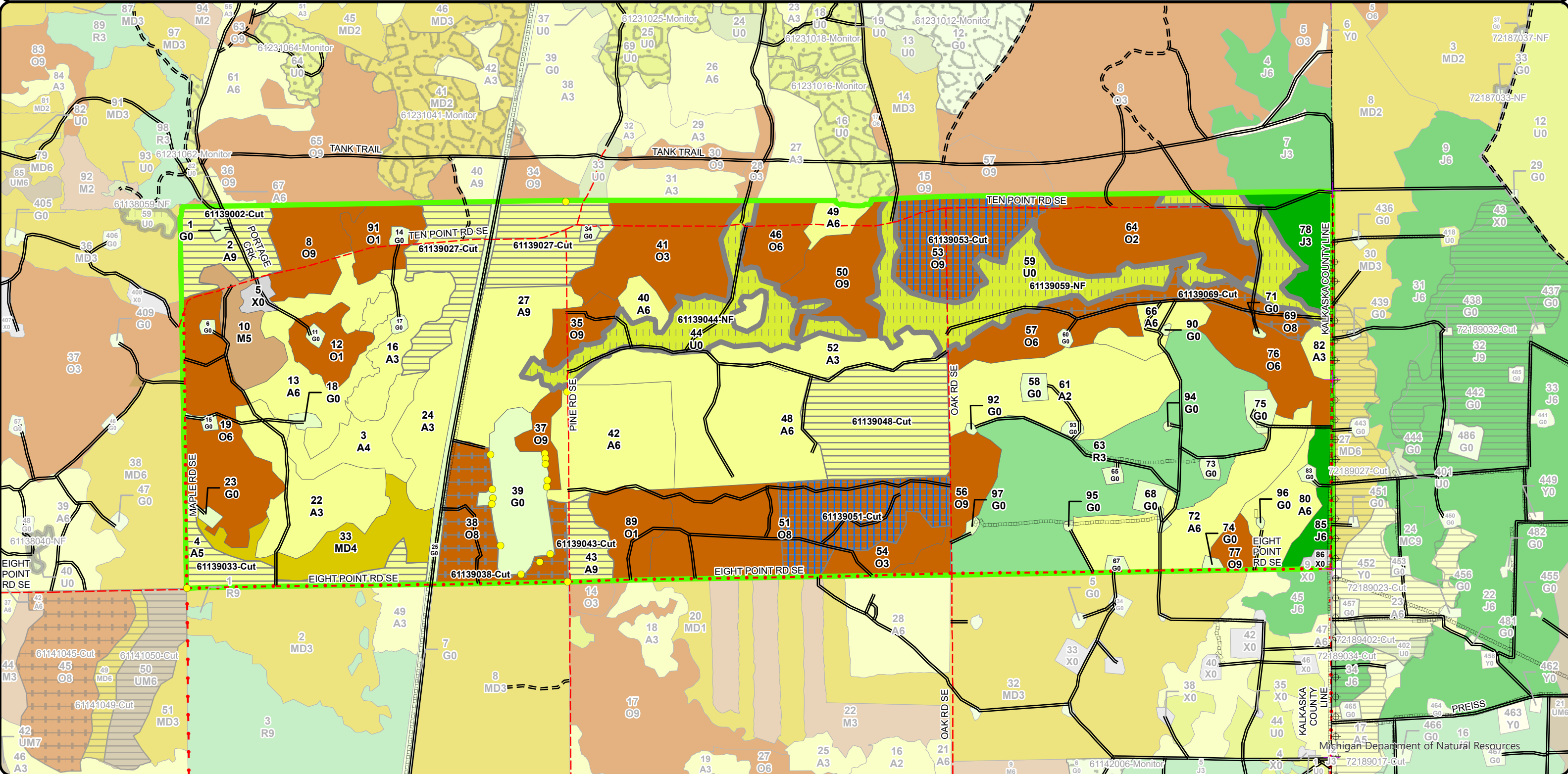
Cover Type & Treatments Map



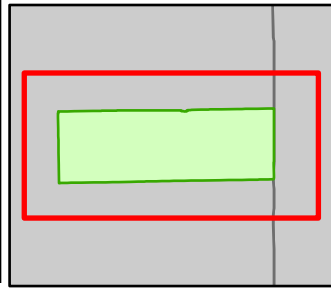
Compartment: 61139
 T25N, R5W, Sec: 10-12
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: High Sand Plains
 YOE: 2026
 Acres: 1931.8 GIS Calculated
 Examiner: Thomas Peterson III
 Map Revised: 07/09/2024
 Map Phase: Web-Post



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|-------------------------------------|----------------------------------|--------------------------------|-----------------------------|
| ▲ Berms | --- Private - Dirt / Gravel Road | ▤ Seed Tree (w/Reserves) | ■ 422 - Natural Pines |
| ● Survey Grade Corners | ▭ Pipeline | ▭ Opening Maintenance | ■ 110 - Low Intensity Urban |
| ✚ Remonumented Section Corners | ⊕ Powerline | ■ 411 - Northern Hardwood | ■ 310 - Herbaceous Openland |
| == DNR - Secondary Forest Road | ▭ Compartment Boundary | ■ 412 - Oak Types | ■ 330 - Low Density Trees |
| == DNR - Forest Access Route | ▭ Counties | ■ 413 - Aspen Types | |
| -.-.- County - Gravel Road | ▭ Clearcut (w/Reserves) | ■ 419 - Mixed Upland Deciduous | |
| - - - County - Dirt Road (Seasonal) | ▭ Harvest, Overstory Removal | ■ 421 - Planted Pines | |



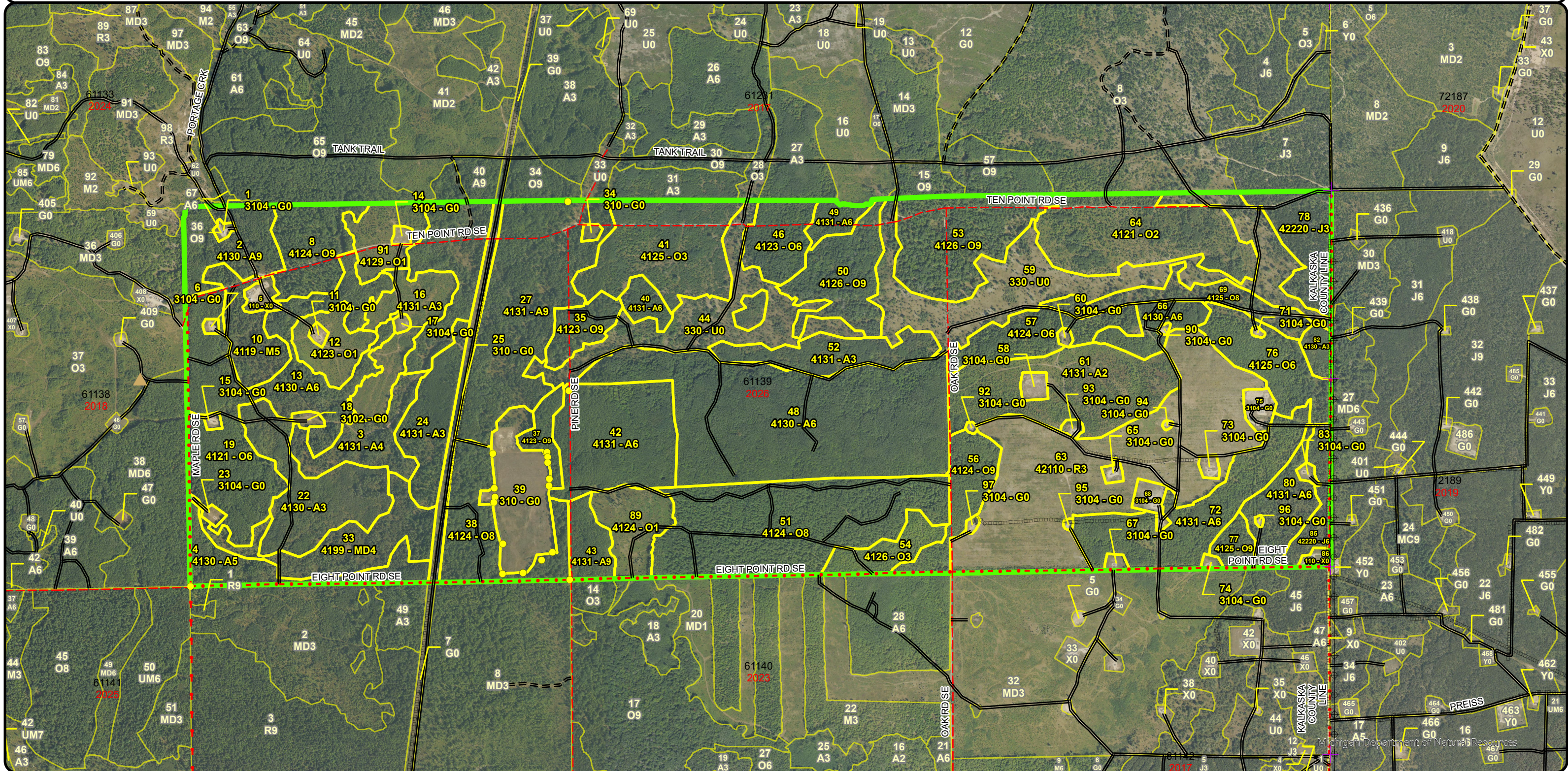
Stand Boundary Map



Compartment: 61139
 T25N, R5W, Sec: 10-12
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: High Sand Plains
 YOE: 2026
 Acres: 1931.8 GIS Calculated
 Examiner: Thomas Peterson III
 Map Revised: 07/09/2024
 Map Phase: Web-Post

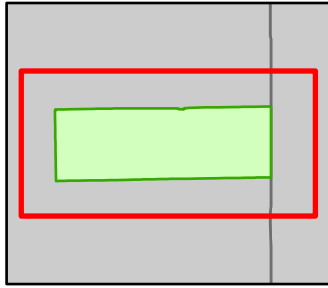


- ▲ Berms
- Survey Grade Corners
- ⊕ Remonumented Section Corners
- == DNR - Secondary Forest Road
- === DNR - Forest Access Route
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- ▬ Pipeline
- ⊕ Powerline
- ▬ Compartment Boundary
- ▭ Counties
- ▭ Stand Boundaries
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- ▭ State Forests



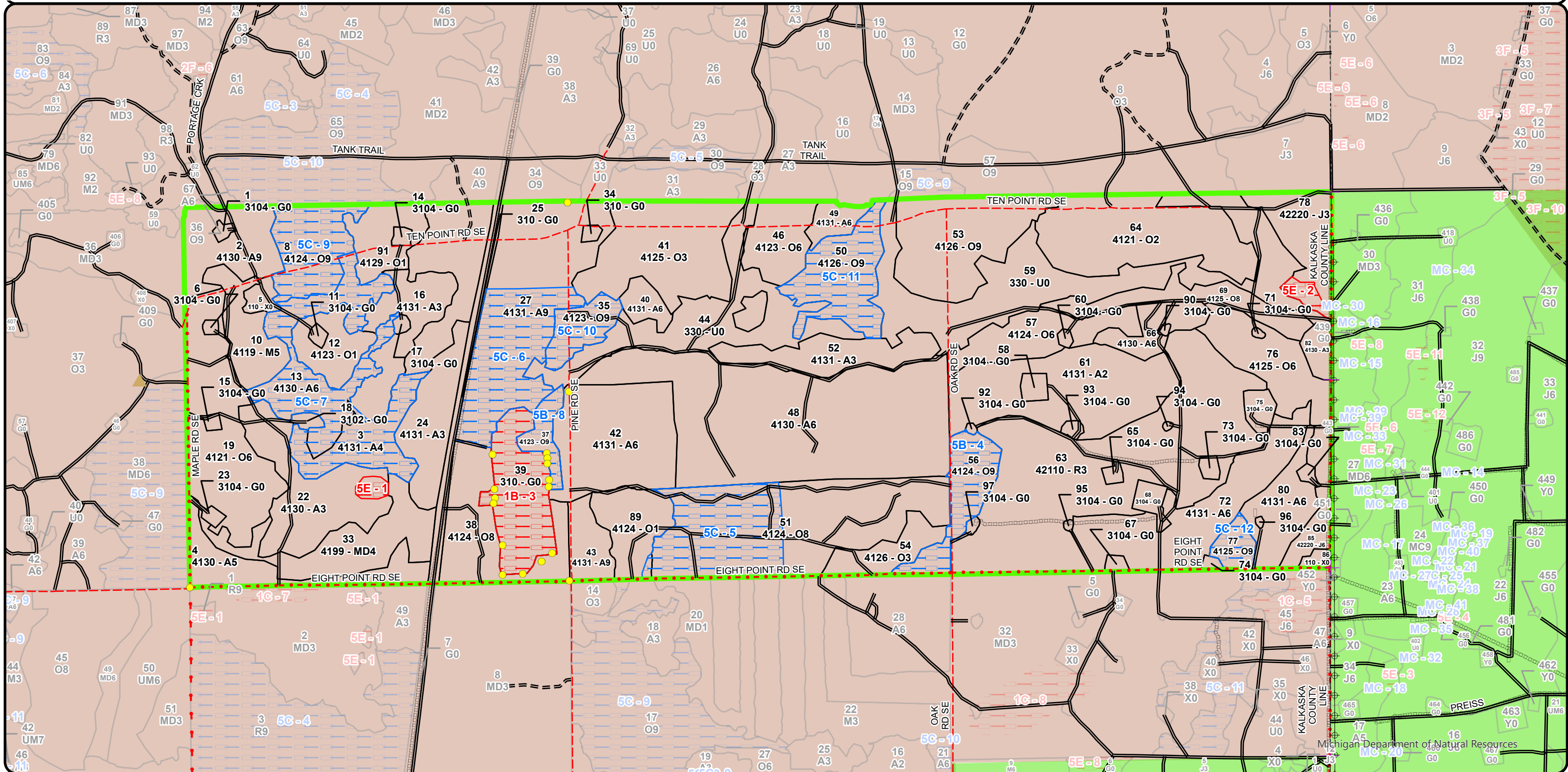
Special Conservation Areas & Site Conditions Map

Compartment: 61139
 T25N, R5W, Sec: 10-12
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: High Sand Plains
 YOE: 2026
 Acres: 1931.8 GIS Calculated
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 Map Phase: Web-Post



- ▲ Berms
- Survey Grade Corners
- + Remonumented Section Corners
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Pipeline
- Powerline
- Compartment Boundary
- Counties
- Available w/ Constraints
- Unavailable

- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1B: Non-DNR agency concerns (e.g. USFS)
- 5E: Long-Term Retention
- Stand Boundaries
- Kirtland Warbler Habitat
- Research, Development, and Military Lands



Report 1 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit

Compartment 139 Year of Entry 2026

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	94	106	28	141	302	73	14	0	0	0	0	0	0	0	0	0	0	758
Herbaceous Openland	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89
Jack Pine	0	0	0	28	0	0	14	0	0	0	0	0	0	0	0	0	0	0	42
Low-Density Trees	144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
Mixed Upland Deciduous	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	37
Northern Hardwood	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	21
Oak	0	59	72	62	80	60	0	0	0	31	68	175	49	9	0	0	0	0	664
Red Pine	0	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	145
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	239	298	178	118	221	420	87	14	0	31	68	175	49	9	0	0	0	0	1906



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 139
Total Compartment Acres: 1,932

Commercial Harvest - 372
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	208	0	0	0	0	0	0	0	0	208
Oak	0	0	0	102	0	0	62	0	0	164
Total	208	0	0	102	0	0	62	0	0	372

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	372	0	0	0	0	0	0	144	0	516
Next Step	0	51	0	0	246	0	310	0	0	607
Total	372	51	0	0	246	0	310	144	0	1124



Stand	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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Proposed Treatments:

2	61139002-Cut	28.8	4130 - Aspen	Sawtimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut stand with standard area retention. Leave retention where oak is present to keep oak seed source in stand. Cut all trees down to 2 inches in DBH except protect all white oak 6 inches or less within stand boundary and protect any pine within stand. Use oak wilt spec with restrictions, cutting out boundary of sale before oak wilt spec starts gives producer freedom to cut sale during oak wilt. Add Drumming log spec to sale during write up.

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

Acceptable Regen: Fully Stocked stand of aspen, with any component of white or red oak, and or red maple

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

27	61139027-Cut	72.8	4131 - Aspen, Oak	Sawtimber Well	49	51-80	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
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Prescription Clearcut a portion of stand 27 this year of entry. Leave standard area retention were there are oaks presents, to retain seed source in area.
Specs: Cut all trees 2 inches or more in DBH. Protect white oak and any pine in stand. Oak wilt with restrictions can be used if with doughnut hole method used to reduce oak wilt spread. Add Drumming log spec to sale during write up.

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

Acceptable Regen: Fully stocked stand of aspen, with any component of oak, black cherry, or red maple.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

4	61139033-Cut	25.5	4130 - Aspen	Poletimber Medium	42	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut stand with standard area retention. Leave retention in low density pocket in center of stand. Cut all tress down to 2 inches or more in DBH. Leave all pine in stand. Mark a handful of white oaks to leave for seed source. Use oak wilt with restrictions during harvest, if doughnut hole method is used to mitigate oak wilt from getting into stand. Add Drumming log spec to sale during write up.

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

Acceptable Regen: Fully to moderately stocked stand of aspen with any component of black cherry, oak or red maple. Expect northern part of stand to moderately stocked, since there are currently several openings in it. Goal of cut is to expand aspen at this time, no Non forested pockets.

Other Comment: See Documents in Stand Documents that address MNFI hit in compartment. Discuss Follow up Burn after harvest.

Site Condition

Proposed Start Date: 10/1 /2025



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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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38 61139038-Cut	39.0	4124 - Red with White Oak	Sawtimber Medium	95	1-50	Harvest	Overstory Removal	4121 - Oak, Aspen	Even-Aged	No
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Prescription Remove overstory. Cut all trees greater than 6 inches in DBH. Do not cut any pine, green tree mark a handful of white oak to leave. Protect all advance regeneration under 6 inches in DBH. Leave retention around PBB cattle fence to help with visual impact. Oak wilt with no exemptions to protect established regeneration.

Next Step
Treatments:

Acceptable Fully stocked stand of oak with any component of aspen, black cherry and red maple
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

43 61139043-Cut	13.6	4131 - Aspen, Oak	Sawtimber Well	60	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut stand with no retention due to small size of stand. Cut all trees 2 inches or more at DBH. Do not cut any pine during harvest. And Green tree mark an handful of white oak during harvest. Oak wilt with restrictions can be used. Doughnut hole method can be used to mitigate oak wilt in area.

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

Acceptable Fully Stocked aspen Stand with any oak, red maple or black cherry component.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

44 61139044-NF	54.6	330 - Low-Density Trees	Nonstocked		Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	3204 - Mast Producing Shrub		No
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Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex. Possibly also could seed in additional native grasses and forbs.

Next Step Burn, Opening
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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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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48	61139048-Cut	67.5	4130 - Aspen	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clear cut approximately 1/3 of stand 48. Leave standard area retention for clearcut area. Cut all trees 2 inch or more in DBH. Protect any white oak or pine within sale area. Oak wilt spec with restrictions can be used if doughnut hole method is used to address any oak wilt concerns. Add Drumming log spec to sale during write up.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Fully Stocked Stand of Aspen with any component of oak, red maple or pine

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

51	61139051-Cut	51.1	4124 - Red with White Oak	Sawtimber Medium	104	51-80	Harvest	Seed Tree with Retention	4121 - Oak, Aspen	Even-Aged	No
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Prescription Seed tree cut approximately 1/2 of stand 51. Leave standard area retention in stand 51. Protect all advanced regeneration in stand. Leave less than 2 trees per acre as a seed source, targeting white oak first. Use oak wilt spec no exemption to protect oak understory established in stand.

Next Step Burn, Understory; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Fully to moderately stocked stand of oak, with aspen clones located scattered throughout the stand and a mix of black cherry and red maple

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

53	61139053-Cut	51.0	4126 - White, Black, N. Pin Oak	Sawtimber Well	109	51-80	Harvest	Seed Tree with Retention	4125 - Black, N. Pin Oak	Even-Aged	No
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Prescription Mark to leave less than 2 trees per acre within stand boundary as seed source. Leave white oak first and the black/ pin oak second. Protect advance oak regeneration in spots it is present in stand with 4-inch DBH spec. Use oak wilt spec no exemptions.

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Scarification; Burn, Other

Treatments:

Acceptable Regen: Fully to moderately stand of Oak, with any mixture of black / pin oak, white oak, aspen, black cherry or pine,

Other Comment: With Parts of stand having no regeneration at this time, scarification or trenching stand to promote more oak regeneration is being prescribed. as follow up treatment

Site Condition

Proposed Start Date: 10/1 /2025

59	61139059-NF	89.3	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3204 - Mast Producing Shrub		No
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Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex. Possibly also could seed in additional native grasses and forbs.

Next Step Burn, Opening

Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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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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69	61139069-Cut	23.0	4125 - Black, N. Pin Oak	Sawtimber Medium	105	1-50	Harvest	Overstory Removal	4125 - Black, N. Pin Oak	Even-Aged	No
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Prescription Overstory removal with no overstory retention. Remove overstory of stand and protect advanced oak regeneration up to 5 inches in DBH.
Specs: Cut all aspen and black cherry within stand down to 2 inches at DBH. Use oak wilt spec no exceptions.

Next Step
Treatments:

Acceptable Regen: Stand has advanced Black / Pine oak established in stand. Fully to moderately stocked stand of Black / Pine with any mixture of black cherry, aspen and black cherry is acceptable..

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

Total Treatment 516.2
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit
Thomas Peterson III : Examiner

Compartment: 139
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C	1B	5E
		With Condition	Not Available					
783	663	118	3	Aspen		118		3
89	54	0	35	Herbaceous Openland			35	
41	37	0	4	Jack Pine				4
144	144	0	0	Low-Density Trees				
37	37	0	0	Mixed Upland Deciduous				
21	21	0	0	Northern Hardwood				
657	496	160	0	Oak	25	136		
145	145	0	0	Red Pine				
6	6	0	0	Urban				
1,924	1,603	278	42	Total Forested Acres	25	254	35	7
	83%	14%	2%	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	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	1B: Non-DNR agency concerns (e.g. USFS)	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
 Thomas Peterson III : Examiner

Compartment: 139
 Year of Entry: 2026

4	Available	5B: Maintain for regeneration purposes	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	70	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Thomas Peterson III : Examiner

Compartment: 139
Year of Entry: 2026

10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	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.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	3104 - Degraded	Nonstocked	1.3				2024 - Stand is currently an active well site
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2	4130 - Aspen	Sawtimber Well	28.8	56	81-110	N/A	2024 - Aspen stand with a few pockets of oak scattered throughout stand. Stand has some rolling hills.
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Canopy Species	% Cover	Size Class	DBH	Age
White Oak	5	Pole/Log	8	
Bigtooth Aspen	70	Log/Pole	11	56
Red Maple	10	Pole/Log	8	
Red Oak	5	Log/Pole	11	
Black Cherry	10	Pole	8	

3	4131 - Aspen, Oak	Poletimber Poor	25.3	49	1-50	N/A	2024 - Stand looks like old grass opening that has filled in. Clear cut stand with stand 13 next year of entry to expand aspen clones.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Sapling	6	
Bigtooth Aspen	40	Pole/Sapling	6	49
Black/Red (Hybrid) Oak	25	Pole/Sapling	6	
Black Cherry	25	Pole/Sapling	6	

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

4	4130 - Aspen	Poletimber Medium	25.3	42	51-80	N/A	2024 - Stand has some decent aspen clones scattered throughout it. Stand consists of several openings. Black cherry in some areas is more like a shrub than a tree.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	25	Pole	6	
Red Pine	5	Pole	8	
Bigtooth Aspen	62	Pole/Log	8	42
Red Oak	5	Pole	6	
Jack Pine	3	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Medium	Variable	Sapling
Black Cherry	Medium	Variable	Sapling

5	110 - Low Intensity Urban	Nonstocked	4.2				2024 - Stand is an Oil and Gas Facility
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6	3104 - Degraded	Nonstocked	1.0				2024 - Stand is currently an active well site
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8	4124 - Red with White Oak	Sawtimber Well	29.2	96	51-80	N/A	2023 - 2012 - Lawn Tractor Oak - (61-068-07) Stand was thinned under contract. 1998 - All species except oak was clearcut in stand. Oak was marked and only orange mark oak was cut, under contact Eight Point Road (61-066-96)
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Canopy Species	% Cover	Size Class	DBH	Age
White Oak	35	Log	13	
Red Oak	65	Log	13	96

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling
Red Oak	Low	Variable	Sapling
White Oak	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
10	4119 - Mixed Northern Hardwoods	Poletimber Medium	21.4	49	1-50	N/A	2024 - Timber is poor quality, stand is mostly a 2-stick black cherry stand with other small components of mixed deciduous trees.																																													
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11	3104 - Degraded	Nonstocked	1.3				2024 - Stand current is an active well site																																													
12	4123 - Red Oak	Sapling Poor	17.2	7	Immature	N/A	2023 - Stand has heavy deer browse, across it. Some trees are starting to get up above deer browse level, but overall stand has been hit hard. 2017 - Stand was final Harvested in 2017 'Worn Out Oak' 61-168-16. Stand was chip harvested and the ground was scarified well. Hopefully stand regenerates well after some more time.																																													
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13	4130 - Aspen	Poletimber Well	43.8	56	81-110	N/A	2024 - Stand could be final harvested or could be held for another 10 years.																																													
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14	3104 - Degraded	Nonstocked	1.5				no equipment appears to be plugged																																													
15	3104 - Degraded	Nonstocked	1.4				2024 - Stand is currently an Active well site																																													
16	4131 - Aspen, Oak	Sapling Well	29.2	6	Immature	N/A	2017 - Stand was final harvested in the summer of 2017 'Worn Out Oak' 61-168-16-01. Stand is already regenerating well.																																													
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17	3104 - Degraded	Nonstocked	1.2				2024 - Stand is an active well site																																													
18	3102 - Grass	Nonstocked	1.9				2024 - Stand is active well site at this time.																																													



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19	4121 - Oak, Aspen	Poletimber Well	60.4	49	81-110	N/A	2024 - Stand does have some nice aspen clones scattered throughout the it. Stand should transition to log stand next year of entry.																																						
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22	4130 - Aspen	Sapling Well	46.5	15	Immature	N/A	2024 - Stand is a fully stocked aspen stand with a cherry and oak component. 2008 - Stand was final harvested 10-8 Aspen (61-056-06)																																						
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23	3104 - Degraded	Nonstocked	1.8				2024 - Stand is currently an active well site																																						
24	4131 - Aspen, Oak	Sapling Well	28.5	14	Immature	N/A	2024 - Stand is fully stocked stand of aspen with some Scattered overstory oak scattered throughout stand. 2008 - Stand was final harvested under contact PBB Pit West (61-85-06)																																						
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25	310 - Herbaceous Openland	Nonstocked	15.3				2024 - Stand consists of pipeline and pipeline ROW																																						
27	4131 - Aspen, Oak	Sawtimber Well	121.4	49	51-80	N/A	2024 - Stand does have some gaps / openings throughout it. Stand does have pockets of oaks scattered throughout it. Heavy deer browse is visible throughout stand. Consider cutting north half of stand and leave southern half of stand for next year of entry.																																						
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33	4199 - Other Mixed Upland Deciduous	Poletimber Poor	37.1	42	51-80	N/A	2024 - Stand has some decent aspen clones scattered throughout it. Stand consists of several openings. Black cherry in some areas is more like a shrub than a tree.																																						
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35	4123 - Red Oak	Sawtimber Well	14.1	119	51-80	N/A	2024 - Stand has some oak decline in it. majority of stand has zero advantage regeneration. parts of stand have fully stocked understory																																							
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37	4123 - Red Oak	Sawtimber Well	9.1	129	141-170	N/A	2024 - Stand is nicest oak stand in compartment 61139. No dieback currently at this time. Stand has no advance regeneration at this time.																																							
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38	4124 - Red with White Oak	Sawtimber Medium	39.0	95	1-50	N/A	2023 - Stand does have some nice oak regeneration were it made it past the deer browse line. Allow stand to continue to fill in and consider removing top of stand in 10 years. 1998 - All species except oak was clearcut in stand. Oak was marked and only orange mark oak was cut, under contact Eight Point Road (61-066-96) NOTE: Monitoring wells are scattered through the stand for the PBB Cattle Burial Pit with is adjacent to the stand.																																							
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39	310 - Herbaceous Openland	Nonstocked	35.4				This is the site of the mass burial of PBB contaminated cattle from the 1970's. Area is fenced and a director's order was established to prohibit vehicular access to the area. Monitoring wells are located all around this site. The actual burial area is capped and vegetated with mostly knapweed and grasses.																																							
40	4131 - Aspen, Oak	Poletimber Well	7.5	36	1-50	N/A	Clearcut in 1987.																																							
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41	4125 - Black, N. Pin Oak	Sapling Well	56.2	15	Immature	N/A	2023 - Full stocked stand. stand has regenerated nicely 2008 - Stand was harvested in 2008 Under contract Combat zone (61-632-06) Scattered oaks were left during final harvest.																																							
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42	4131 - Aspen, Oak	Poletimber Well	56.6	34	1-50	N/A	2023 - Stand has transitioned from sapling stand to pole stand over the last 10 years. 1988 - Stand was Final Harvested under contract Heavy Acron Sale (61-047-85)																																									
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43	4131 - Aspen, Oak	Sawtimber Well	13.6	60	81-110	N/A	2024 - East side of stand is mostly aspen, the farther west you go stand turns more into an oak stand.																																									
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44	330 - Low-Density Trees	Nonstocked	54.6		Immature	Managed Opening	2024 - Stand is filling in with oak and cherry at this time. Black cherry is more shrub like within stand boundary. Stand will continue to fill in if left alone.																																									
46	4123 - Red Oak	Poletimber Well	21.0	36	1-50	N/A	2024 - Aspen larger than oak 1987 - Cut in 1987																																									
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48	4130 - Aspen	Poletimber Well	155.2	44	81-110	N/A	2024 - Stand is fully stocked stand of aspen stand with oak, red maple and black cherry component. Consider cutting portion of stand to help break up age class of aspen. 1978 Stand was final harvested. Cut in 1978																																									
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49	4131 - Aspen, Oak	Poletimber Well	7.6	35	1-50	N/A	2023 - merge with stand 46 1987 - Stand was Final Harvested under contract Grouser Sale (61-030-86)																																									
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50	4126 - White, Black, N. Pin Oak	Sawtimber Well	34.7	118	141-170	N/A	2024 - Stand has some oak decline. doesn't appear to have been thinned before with aspen that is located in stand																																									
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51	4124 - Red with White Oak	Sawtimber Medium	100.5	104	51-80	N/A	2024 - Portions of stand does have a nice established oak understory, other portions of stand do not have any sort of understory at this time. Some oak die back within stand. 2012 - Lawn Tractor Oak - (61-068-07) Stand was thinned under contract.																																									
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52	4131 - Aspen, Oak	Sapling Well	30.9	15	Immature	N/A	2023 - 2007 - Stand was final harvested under contact Nine Point Trail (61-031-06)																																									
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53	4126 - White, Black, N. Pin Oak	Sawtimber Well	51.0	109	51-80	N/A	2024 - Stand has a lot of oak decline at this time. Parts of stand has good regeneration at this time other parts of stand have no visible regeneration at this time. Stand Should be harvested due to oak decline, this stand has the most oak dieback in Compartment 61139. 2007 - Stand was Thinned in 2007 under contract Oak Road - Tank Trail (61-687-06). NOTE: Money refunded on East and SE part of sale because of steel-jacketed bullets in trees. 1999 - All Aspen, maple and dead oak was removed from the stand under contract Ten Point Road Sale. (61-050-96).																																									
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54	4126 - White, Black, N. Pin Oak	Sapling Well	15.6	15	Immature	N/A	2024 - Fully stocked sapling oak stand. 2007 - Stand was final harvested under contract Coyotee Oak (61-044-06)																																									
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56	4124 - Red with White Oak	Sawtimber Well	23.2	89	111-140	N/A																																										
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57	4124 - Red with White Oak	Poletimber Well	27.2	33	1-50	N/A	2024 - Stand has transitioned to pole stand this year of entry. 1989 - Stand was Final Harvested under contract Red Face Sale (61-017-86)																														
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58	3104 - Degraded	Nonstocked	3.2				2024 - Oil and Gas well site - no equipment on site. Plugged completed no date. MM - State George 3-12 - currently under restoration. It will be planted to RP in the fall of 2020.																														
59	330 - Low-Density Trees	Nonstocked	89.3		Unspecified	Managed Opening	2024 - Stand is mostly open but starting to be filling in with seedlings. Black cherry is more shrub like than tree like within stand boundary. Some larger oaks scattered through stand as well. Stand if left alone will continue to fill in with seedlings.																														
60	3104 - Degraded	Nonstocked	1.0				2024 - Temporarily abandoned well pad																														
61	4131 - Aspen, Oak	Sapling Medium	65.0	5	Immature	N/A	2023 - 2018 - Sale was final harvested in 2018 'Worn out oak' 61-168-16-01. Some of the advanced regen of red maple and aspen were left. Stand should fill in to a mix of oak, aspen and maple over time. Old well site (st58) has been rehabed. Some above ground pipelines along the south boundary of the stand. Some hilly terrain in spots. 2009 - Stand was thinned under contract North Face Oak (61-086-06)																														
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63	42110 - Planted Red Pine	Sapling Well	145.2	4	Immature	N/A	2023 - Year 3 Regeneration survey was completed 10/16/2023. There is currently 745 Trees per acre and stand is 96% free to grow at this time. 11/9/2021 - Year 1 regeneration survey completed. Stand has approximately 774 trees per acre. Stand is free to grow at this time no herbicide treatment is currently recommended. Check stand for year 3 regeneration survey is recommended. 5/4/2021 - Stand was replanted to red pine. Stand was planted to roughly 706 trees per acre. Stand was originally part of stand 61. 2021 - Stand was planted to red pine 2020 - Stand was herbicide to control vegetation 2019 - Stand was trenched 2018 - Stand was final harvested in the spring 2018 'Worn Out Oak' 61-168-16-01. Stand is now ready for herbicide application and trenching. Stands north end is on some hilly ground. Some above ground pipelines along the stands north and east boundary. Stumps were left higher along the pipeline to help identify its location. 2011 - Stand was Thinned Under Contract Southface Oak (61-089-06)																														
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64	4121 - Oak, Aspen	Sapling Medium	62.4	24	Immature	N/A	2023 - gully stocked stand several aspen clones throughout it2007 - Stand was final harvested under contract 10 Point Oak (61-055-06)1999 - All Aspen, maple and dead oak was removed from the stand under contract Ten Point Road Sale. (61-050-96).																														
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65	3104 - Degraded	Nonstocked	1.6				2024 - Currently an Active well site																														
66	4130 - Aspen	Poletimber Well	14.5	33	1-50	N/A	2024 - Stand has transitioned to pole stand this year of entry 1989 - Cut in 1989.																														
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67	3104 - Degraded	Nonstocked	1.5				2024 - Currently Active Well site																														
68	3104 - Degraded	Nonstocked	4.7				2024 - Currenty an Active well site																														
69	4125 - Black, N. Pin Oak	Sawtimber Medium	23.0	105	1-50	N/A	2024 - Stand has large, scattered oak throughout it. Stand has a lot of oak and black cherry regeneration at this time. Stand does have a few open areas in it as well. Could remove the top of stand and let oak regeneration go.																														
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Quaking Aspen	20	Pole	8		Black/Red (Hybrid) Oak	Medium	Variable	Sapling																													
71	3104 - Degraded	Nonstocked	0.5	2023			2024 - Temporarily abandoned well pad																														
72	4131 - Aspen, Oak	Poletimber Well	55.0	33	Immature	N/A	2024 - Aspen stand has transitioned into pole stand this year of entry. 1989 - Stand was Final Harvested under contract Red Face Sale (61-017-86)																														
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73	3104 - Degraded	Nonstocked	1.9		Immature		2024 - Currently an Active well site																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
74	3104 - Degraded	Nonstocked	1.1		Immature		2024 - Currently an active Well site
75	3104 - Degraded	Nonstocked	5.0				2024 Srand is currently an Active well site
76	4125 - Black, N. Pin Oak	Poletimber Well	31.7	33	Immature	N/A	2023 - Stand has some open areas with larger scattered oaks on the east side of the stand as you transition west stand turns into a fully stocked oak stand. Stand has also transitioned into pole stand this year of entry. 1989 - Stand was Final Harvested under contract Red Face Sale (61-017-86)
		Canopy Species	% Cover	Size Class	DBH	Age	
		Quaking Aspen	19	Pole/Sapling	5		
		Black/Red (Hybrid) Oak	2	Log/XLog	14		
		Black/Red (Hybrid) Oak	50	Pole/Sapling	5	33	
		Black Cherry	10	Pole/Sapling	5		
		Red Maple	2	Pole/Sapling	5		
		White Oak	15	Pole/Sapling	5		
		White Oak	2	Log/XLog	14		
77	4125 - Black, N. Pin Oak	Sawtimber Well	7.6	84	81-110	N/A	2024 - Stand has large canopy Pin oak which is poor quality with pole size red maple, aspen and red maple growing under oak.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Red Maple	15	Pole/Log	8		
		White Oak	2	Log/Pole	12		
		Northern Pin Oak	60	Log/Pole	13	84	
		Black Cherry	13	Pole/Log	8		
		Bigtooth Aspen	10	Pole/Log	8		
		Sub-Canopy Species	Density	Avg. Height	Size		
		Red Maple	Medium	Variable	Sapling		
78	42220 - Natural Jack Pine	Sapling Well	27.5	26	Immature	N/A	2023 - Stand has scattered large oak in it. stand should transition to pole stand next year of entry. 1997 - Stand was final harvested under contract County Line Jack Pine (61-057-96), Some scattered oaks were left throughout stand.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Black/Red (Hybrid) Oak	5	Log	14		
		Black/Red (Hybrid) Oak	20	Sapling	3		
		Jack Pine	75	Sapling/Pole	4	26	
80	4131 - Aspen, Oak	Poletimber Well	22.6	23	1-50	N/A	2024 - Stand has transitioned into a pole stand 1999 - Stand was final harvested under contract Stand 8 Jack Pine (61-091-96)
		Canopy Species	% Cover	Size Class	DBH	Age	
		Black Cherry	5	Sapling	3		
		Black/Red (Hybrid) Oak	25	Pole/Sapling	5		
		Bigtooth Aspen	70	Pole/Sapling	5	23	
		Sub-Canopy Species	Density	Avg. Height	Size		
		White Pine	Low	Variable	Sapling		
82	4130 - Aspen	Sapling Well	5.8	23	Immature	N/A	Cut in 1999.
		Canopy Species	% Cover	Size Class	DBH	Age	
		Black Cherry	5	Sapling	3		
		Bigtooth Aspen	80	Sapling	3	23	
		Black/Red (Hybrid) Oak	15	Sapling	3		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
83	3104 - Degraded	Nonstocked	1.3		Immature		2024 - Currently an Active well site																																	
85	42220 - Natural Jack Pine	Poletimber Well	13.6	54	51-80	N/A	2024 - Stand is in good shape. Stand has several aspen clones throughout it. Stand does turn more into an aspen stand the farther north you go in stand. No concerns can be held for another 10 years.																																	
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86	110 - Low Intensity Urban	Nonstocked	2.2				2024 - Active Oil & Gas Facility.																																	
89	4124 - Red with White Oak	Sapling Poor	23.0	5	Immature	N/A	2023 - East side of stand has no regeneration due to heavy deer browse, west side of stand does appear to have survived the deer browse. Stand has some scattered red pine in it. Might need to address east side of stand with no regeneration at this time. 2018 - Final Harvested in 2017 'Worn Out oak' 61-168-16-01. Some scattered young pine left. Hopefully over time the stand will fill in. 2012 - Lawn Tractor Oak - (61-068-07) Stand was thinned under contract.																																	
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90	3104 - Degraded	Nonstocked	0.5	2023			2024 - Currently an Active well pad																																	
91	4129 - Mixed Oak	Sapling Poor	18.6	6	Immature	N/A	2023 - Stand has heavy deer browse throughout it. Stand has some trees that have advanced pass deer browse line. Allow stand to sit 10 more years with anticipation stand will continue to fill in. 2017 - Final harvested in 2017 'Worn Out Oak' 61-168-16-01. Hopefully the stand will fill in more over time. 2012 - Lawn Tractor Oak - (61-068-07) Stand was thinned under contract. 1998 - All species except oak was clearcut in stand. Oak was marked and only orange mark oak was cut, under contact Eight Point Road (61-066-96)																																	
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Red Maple	20	Sapling	1																																					
92	3104 - Degraded	Nonstocked	0.4	2023			Temporarily abandoned oil well.																																	
93	3104 - Degraded	Nonstocked	1.4				2024 - Currently an Active well site																																	
94	3104 - Degraded	Nonstocked	0.3				2024 - Temporarily Abandoned well pad																																	
95	3104 - Degraded	Nonstocked	0.4	2023			2024 - Temporarily Abandoned well																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
96	3104 - Degraded	Nonstocked	0.3	2023			2024 - Temporarily abandoned well site
97	3104 - Degraded	Nonstocked	0.8				2024 - temporarily abandoned well site