

Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61144

Entry Year: 2027

Acreage: 1,930

County: Kalkaska

Management Area: High Sand Plains

Stand Examiner: Paul Roell

Legal Description:

T25N R6W; Sections 22, 23, 24

Identified Planning Goals:

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

Soil and topography:

The compartment is generally flat with some rolling hills. Soils are mainly Roselawn Sand with patches of Rubican and Grayling Sands.

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

No private lands are within this compartment. There are some small private parcels around the compartment mainly single family homes and vacation homes. Land use is mainly hunting, orv recreation with a few oil and gas sites.

Unique Natural Features:

There are some historical records for wood turtles and Kirtlands warbler within the area especially on the eastern half of the compartment.

Archeological, Historical, and Cultural Features:

Nothing that impacts forest management is known about at this time.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

None

Wildlife Habitat Considerations:

The majority of the compartment lies on an ice-contact ridge. Topography is usually steep and irregular. Soils are excessively drained loamy sand. The major forest types include aspen, red pine, and jack pine. Non-forested areas consist of cherry shrubland or little bluestem mixed with scattered jack pine. Through the center portion of Sec. 23 lies a finger of a broad outwash plain. This type of outwash plain is characterized by having excessively drained sandy soils. Within this compartment, a jack pine stand dominates this LTA. Ruffed grouse use different aged aspen throughout their life cycle. Younger stands provide cover while older stands provide catkins (food source) for the winter months. Clearcutting helps facilitate age class diversification of aspen by mimicking the necessary disturbances vital for regeneration. The creation of CWD trees for drumming logs and maintaining berry-producing shrubs is also desirable. The irregularly shaped cherry shrublands are important to many species of mammals, birds, and reptiles. Examples include red fox, northern flicker, and blue racer. The berries produced in these areas are a valuable food source. Where needed, openings should be maintained by using handfelling of woody encroachment or prescribed burning.

Mineral Resource and Development Concerns and/or Restrictions

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. A gravel pit is located less than two miles to the southwest, on the border of sections 33 and 34, and there is good potential in the compartment. Tiger's Garfield Field is located just north of this compartment. The field produces from the Ordovician PdC and the Devonian Richfield. The entire compartment is currently leased.

Vehicle Access:

There is sufficient vehicle access within the compartment.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

The Kalkaska ORV Route, designed for 72 inch wide ORV's runs North/South along the very Eastern edge of this compartment along a seasonal county road.

Fire Protection:

DNR Protection is provided by the Kalkaska Field Office.

Additional Compartment Information:

This compartment is leased to the Military (DMA) under the 20 year lease agreement.

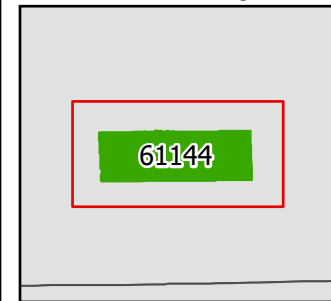
The following reports from the Inventory are attached:

- 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: 61144
T25N R06W 22-24
County: Kalkaska
Unit: Traverse City
Mgmt. Area: High Sand Plains
YOE: 2027
Acres: 1,930 GIS Calculated
Examiner: Paul Roell
Date Exported: 1/12/2026
Map Phase: Post Maps



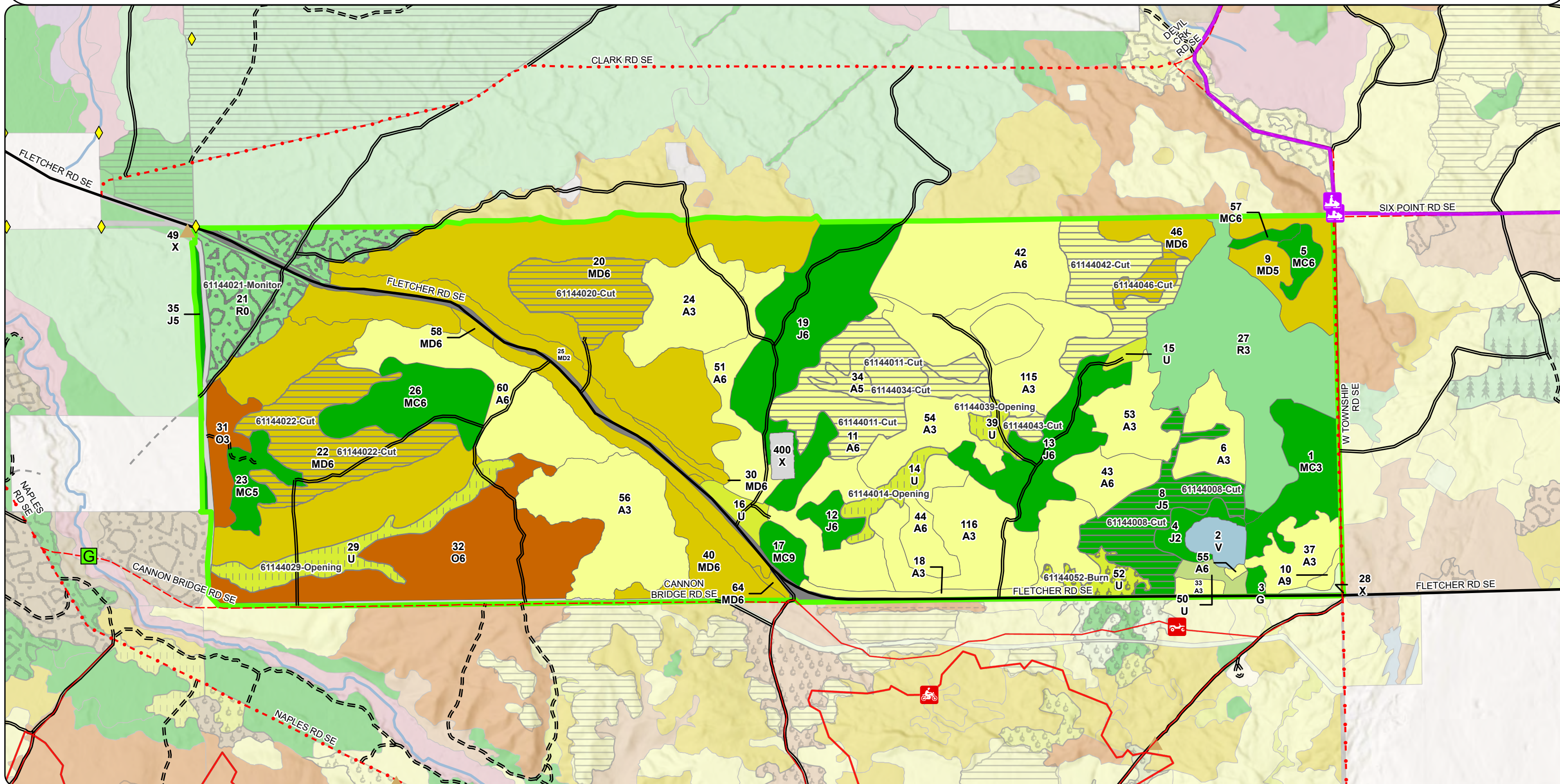
0 0.5 1 Miles

- Survey Grade Corners
- Berm
- Gate
- Designated ORV Routes
- Designated Motorcycle Trails
- Designated Snowmobile
- DNR - Secondary Forest Road

- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Compartment Boundary
- Clearcut

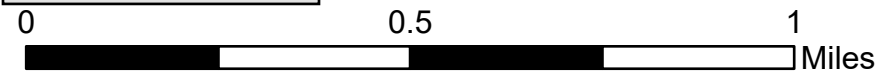
- Prescribed Burn
- Openings Mgmt.
- Monitoring - Regeneration
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines

- 110 - Low Intensity Urban
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub



Stand Boundary Map

Compartment: 61144
T25N R06W 22-24
County: Kalkaska
Unit: Traverse City
Mgmt. Area: High Sand Plains
YOE: 2027
Acres: 1,930 GIS Calculated
Examiner: Paul Roell
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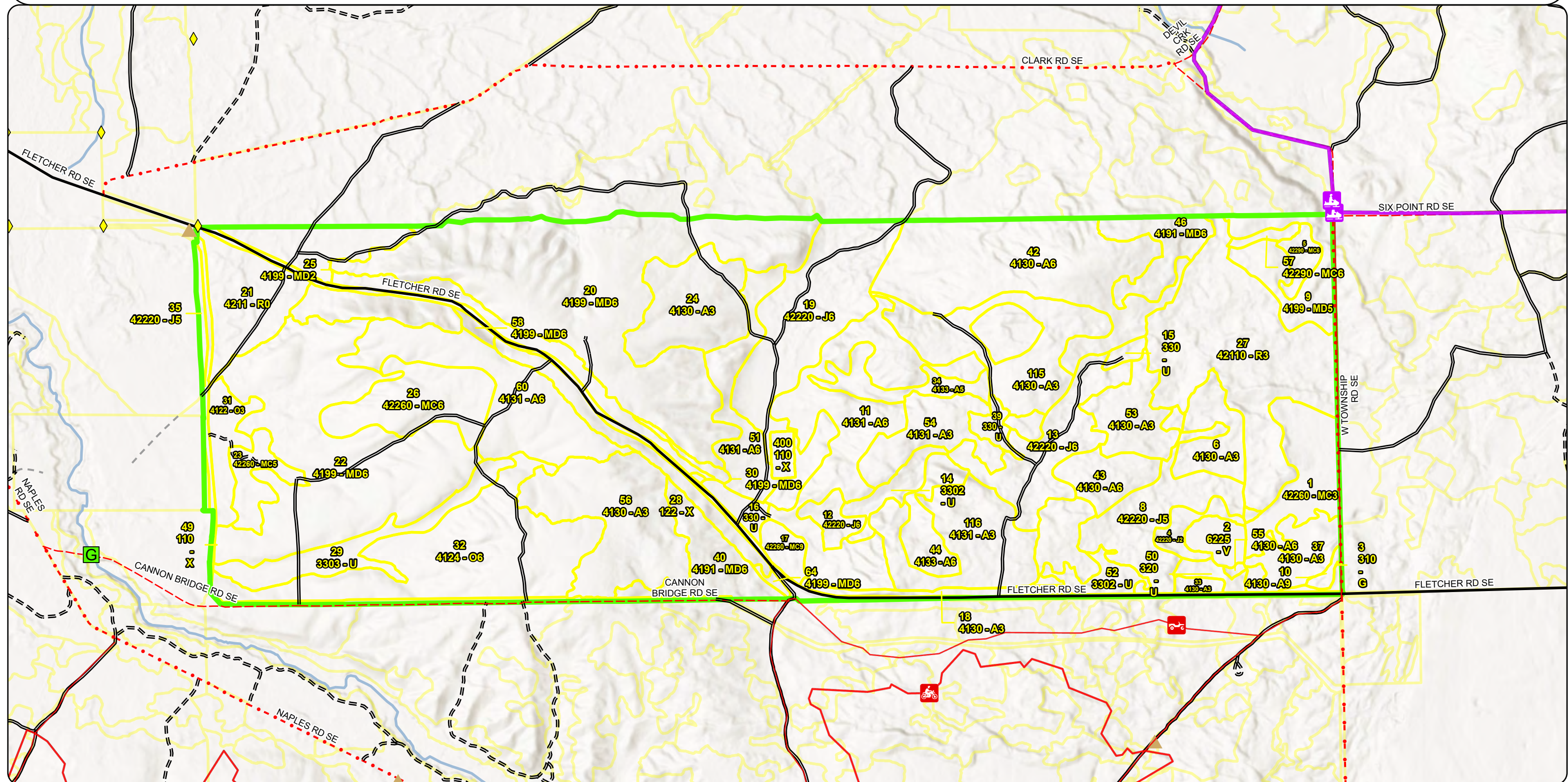


- Survey Grade Corners
- Berm
- Gate
- Designated ORV Routes
- Designated Motorcycle Trails
- Designated Snowmobile

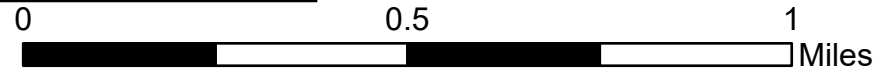
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
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- Private - Dirt / Gravel Road
- Streams

- Compartment Boundary
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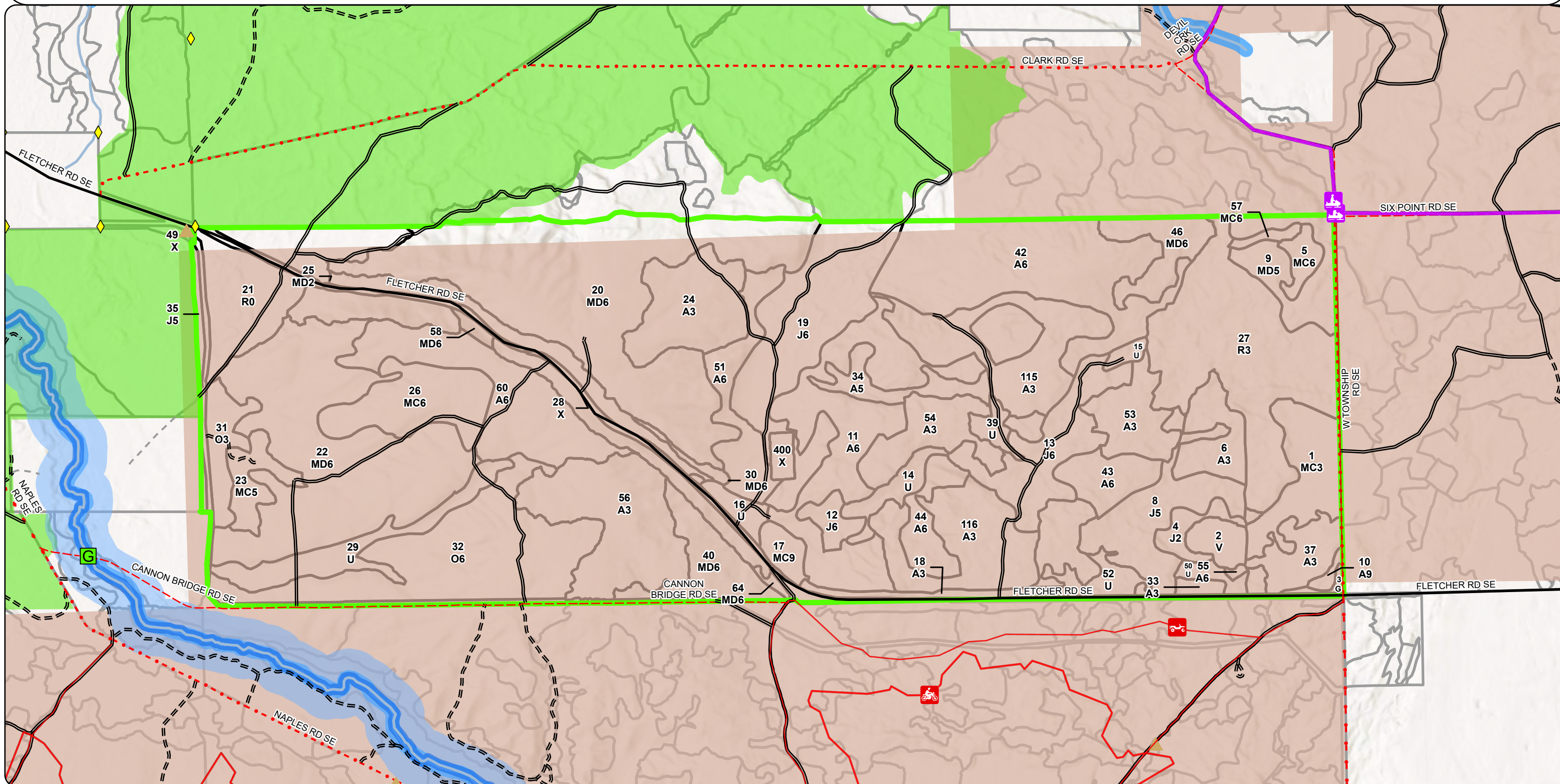
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- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub



61144



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|---|------------------------------|---|---------------------------------------|---|---|
|  | Survey Grade Corners |  | DNR - Forest Access Route |  | Stand Boundaries |
|  | Berm |  | Federal / State / County - Paved Road |  | Natural Rivers Vegetative Buffer |
|  | Gate |  | County - Gravel Road |  | Natural Rivers Zoning District |
|  | Designated ORV Routes |  | County - Dirt Road (Seasonal) |  | Cold Water Streams |
|  | Designated Motorcycle Trails |  | Private - Dirt / Gravel Road |  | High Priority Trout Stream Buffer |
|  | Designated Snowmobile |  | Streams |  | Kirtland's Warbler Habitat |
|  | DNR - Secondary Forest Road |  | Compartment Boundary |  | Research, Development, and Military Lands |



Report 1 – Total Acres by Cover Type and Age Class

	Age Class																		
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	
Aspen	0	194	126	20	0	0	355	2	0	0	0	0	0	0	0	0	0	0	697
Bog	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	0	9	0	0	44	135	0	5	0	0	0	0	0	0	0	0	0	193
Low-Density Trees	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
Mixed Upland Deciduous	0	68	0	0	0	0	375	0	22	31	4	0	0	0	0	0	0	0	500
Natural Mixed Pines	0	0	0	37	0	16	41	8	4	0	9	0	0	0	0	0	0	0	114
Oak	0	0	17	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	117
Red Pine	64	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	177
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Urban	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Total	195	375	152	57	0	60	1006	10	31	31	13	0	0	0	0	0	0	0	1929

Report 2 – Treatment Summary

Traverse City Mgt. Unit

Year of Entry: 2027

Acres of Harvest

Compartment 144

Total Compartment Acres: 1,930

Commercial Harvest - 572

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	Oversory Removal	Salvage	Other	Total Acres
Aspen	112	0	0	0	0	0	0	0	0	112
Jack Pine	44	0	0	0	0	0	0	0	0	44
Mixed Upland Deciduous	109	0	0	0	0	0	0	0	0	109
Total	265	0	0	0	0	0	0	0	0	265

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	265	0	0	0	10	0	57	0	0	379
Next Step	0	44	0	0	0	0	265	0	0	320
Total	265	44	0	0	10	0	322	0	0	699

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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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Approved Treatments:

8	61144008-Cut	44.4	42220 - Natural Jack Pine	5	56	1-50	Harvest	Clearcut	4222 - Natural Jack Pine	Planting Record	No
<u>Prescription</u> Final harvest stand. Require post harvest scarification. <u>Specs:</u> <u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> Moderately to fully stocked Jack pine, red or white pine, aspen and oaks, cherry and red maple. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
11	61144011-Cut	52.1	4131 - Aspen, Oak	6	52	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest stand. Leave all white oak. Mark to leave no more than one white pine per acre for seed and vertical structure. Include drum log spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, oak, pine and red maple <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
14	61144014-Opening	11.4	3302 - Low Density Conifer Trees	99			Openings Mgmt.	Openings Mgmt.	3303 - Mixed Low Density Trees	Previous Inventory	No
<u>Prescription</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Could plant native shrubs and trees. Should eventual <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											

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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
20 61144020-Cut	38.5	4199 - Other Mixed Upland Deciduous	6	52	111-140	Harvest	Clearcut	4131 - Aspen, Oak	Planting Record	No
<u>Prescription</u> Final harvest stand. Leave all white oak. Mark to leave no more than one white pine per acre for seed and vertical structure. Require oak wilt restrictions and drum log specs. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, oak, pine and red maple <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
21 61144021-Monitor	57.0	4211 - Planted Red Pine	0	2	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine		No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> red pine mixed with a little oak, maple and aspen is ok. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
22 61144022-Cut	62.1	4199 - Other Mixed Upland Deciduous	6	52	81-110	Harvest	Clearcut	4131 - Aspen, Oak	Planting Record	No
<u>Prescription</u> Final harvest stand. Leave all white oak. Mark to leave no more than one white pine per acre for seed and vertical structure. Require oak wilt restrictions and drum log specs. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, oak, pine and red maple <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
29 61144029-Opening	29.2	3303 - Mixed Low Density Trees	99			Openings Mgmt.	Openings Mgmt.	3303 - Mixed Low Density Trees	Previous Inventory	No
<u>Prescription</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Could plant native shrubs and trees. Should eventually <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
34 61144034-Cut	16.0	4133 - Aspen, Mixed Pine	5	52	1-50	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest stand. Leave all white oak. Mark to leave no more than one white pine per acre for seed and vertical structure. Include drum log spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, oak, pine and red maple <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
39 61144039-Opening	6.1	330 - Low-Density Trees	99			Openings Mgmt.	Openings Mgmt.	3303 - Mixed Low Density Trees	Previous Inventory	No
<u>Prescription</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Could plant native shrubs and trees. Should eventually <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
42 61144042-Cut	40.4	4130 - Aspen	6	52	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest stand. Leave all white oak. Mark to leave no more than one white pine per acre for seed and vertical structure. Include drum spec and oak wilt spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, oak, red maple and pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
43 61144043-Cut	3.5	4130 - Aspen	6	52	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest stand. Leave all white oak. Include grouse spec <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, oak, red maple and pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
46 61144046-Cut	8.4	4191 - Mixed Upland Deciduous with Conifer	6	76	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest stand. Leave all white oak. Include grouse specs <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, oak, red maple and pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
52 61144052-Burn	10.2	3302 - Low Density Conifer Trees	99			Burn	Prescribed Burn	3303 - Mixed Low Density Trees	Previous Inventory	No
<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 <u>Specs:</u> <u>Next Step</u> Openings Mgmt., Grass/Forb Planting <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

Total Treatment 379.3
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell: Examiner

Compartment: 144

Year of Entry: 2027

Availability for Management

Total Acres **Acres Avail** Acres
Acres Available **With Condition** Not Available

Dominant Site Conditions

5E

698	697	0	1	Aspen	1
10	10	0	0	Bog	
2	2	0	0	Herbaceous Openland	
194	188	0	5	Jack Pine	5
68	68	0	0	Low-Density Trees	
499	492	0	7	Mixed Upland Deciduous	7
114	110	0	4	Natural Mixed Pines	4
117	117	0	0	Oak	
176	177	0	0	Red Pine	
5	5	0	0	Upland Shrub	
46	46	0	0	Urban	
1,930	1,913		17	Total Forested Acres	17
	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	Unspecified
Comments:								
2	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long Term Retention from Stand 27 re-plant								
3	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from timber sale on stand 25								

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell: Examiner

Compartment: 144

Year of Entry: 2027

4	Unavailable	5E: Long-Term Retention	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	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
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Comments

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
1	42260 - Natural Pine, Mixed Deciduous	Sapling Well	37.0	27	Immature	N/A	Stand was cut under Leatherman Pine contract. There are a few pockets of mature red pine and oak																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>10</td><td>Sapling/Pole/Log</td><td>4</td><td>28</td></tr><tr><td>White Oak</td><td>5</td><td>Sapling</td><td>3</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>25</td><td>Sapling/Pole</td><td>4</td><td>28</td></tr><tr><td>Red Pine</td><td>10</td><td>Sapling/Pole/Log</td><td>4</td><td>26</td></tr><tr><td>Jack Pine</td><td>50</td><td>Sapling/Pole</td><td>4</td><td>27</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	10	Sapling/Pole/Log	4	28	White Oak	5	Sapling	3		Bigtooth Aspen	25	Sapling/Pole	4	28	Red Pine	10	Sapling/Pole/Log	4	26	Jack Pine	50	Sapling/Pole	4	27					
Canopy Species	% Cover	Size Class	DBH	Age																																						
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Bigtooth Aspen	25	Sapling/Pole	4	28																																						
Red Pine	10	Sapling/Pole/Log	4	26																																						
Jack Pine	50	Sapling/Pole	4	27																																						
2	6225 - Bog	None	10.3			No																																				
<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Jack Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>							Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	Low	Variable	Variable																												
Sub-Canopy Species	Density	Avg. Height	Size																																							
Jack Pine	Low	Variable	Variable																																							
3	310 - Herbaceous Openland	None	2.1			No																																				
4	42220 - Natural Jack Pine	Sapling Medium	9.0	17	Immature	N/A	Stand was harvested in 2009 under the Scattered Pine Contract. Retention was left on the east side.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>100</td><td>Sapling</td><td>1</td><td>17</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	100	Sapling	1	17																									
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Jack Pine	100	Sapling	1	17																																						
5	42290 - Natural Mixed Pine	Poletimber Well	7.7	65	111-140	N/A																																				
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6	4130 - Aspen	Sapling Well	21.8	14	Immature	N/A	Cut in the summer of 2012. Tremendouse aspen regeneration. Sale #045-11																																			
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8	42220 - Natural Jack Pine	Poletimber Medium	44.4	56	1-50	N/A																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
9	4199 - Other Mixed Upland Deciduous	Poletimber Medium	30.6	87	51-80	N/A	Stand was harvested in 2013 Tremendous aspen regeneration. Sale #045-11. All the oak was left which has shaded out some aspen.																																														
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10	4130 - Aspen	Sawtimber Well	2.4	64	81-110	N/A																																															
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11	4131 - Aspen, Oak	Poletimber Well	85.5	52	81-110	N/A																																															
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12	42220 - Natural Jack Pine	Poletimber Well	8.5	54	51-80	N/A																																															
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14	3302 - Low Density Conifer Trees	None	11.4			Yes																																															
15	330 - Low-Density Trees	None	3.3			Yes	OPIC - FMD: Stand 400 – 2005 SGG: Burn to promote existing little bluestem and other native herbaceous vegetation. OI Stand Year Origin was will this work???																																														

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
16	330 - Low-Density Trees	None	7.4			No	Scattered black cherry w.pine- juneberry, oak and red maple.																																															
17	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	8.5	98	81-110	N/A	Stand was thinned under the Scattered Pine contract in 2009.																																															
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18	4130 - Aspen	Sapling Well	9.3	7	Immature	N/A	Stand was final harvested in 2018 with some scattered white oak and pine left.																																															
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19	42220 - Natural Jack Pine	Poletimber Well	82.1	52	51-80	N/A																																																
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20	4199 - Other Mixed Upland Deciduous	Poletimber Well	192.0	52	111-140	N/A																																																
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21	4211 - Planted Red Pine	Unspecified	63.5	2	Immature		2025 - Year 1 Regeneration Survey was completed 9/23/2025. There is currently 719 Trees per Acre and stand is 100% Free to Grow at this time.5/8/2025 - Stand was planted to 816 Trees per Acre of Red Pine.2024 - Stand was site prep sprayed by contract helicopter 8/12/20242023 - Stand was trenched to Plant Red Pine 9/1/20232023 - Stand was harvested 2022-2023 Buck44 West Timber Sale.																																															

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
22	4199 - Other Mixed Upland Deciduous	Poletimber Well	150.9	52	81-110	N/A																																																	
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23	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	16.1	46	51-80	N/A	Sparse open grown stand filling in with white oak																																																
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White Oak	5	Sapling	1	4																																																			
Bigtooth Aspen	70	Sapling	1	4																																																			
25	4199 - Other Mixed Upland Deciduous	Sapling Medium	68.0	4	Immature	N/A	Stand was harvested 2022-2023 Buck44 West Timber Sale. There were a few red and white pine with the occasional white oak marked to remain for seed.																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>35</td><td>Sapling</td><td>1</td><td>4</td></tr><tr><td>Red Oak</td><td>25</td><td>Sapling</td><td>1</td><td>4</td></tr><tr><td>White Oak</td><td>10</td><td>Sapling</td><td>1</td><td>4</td></tr><tr><td>Bigtooth Aspen</td><td>30</td><td>Sapling</td><td>1</td><td>4</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	35	Sapling	1	4	Red Oak	25	Sapling	1	4	White Oak	10	Sapling	1	4	Bigtooth Aspen	30	Sapling	1	4	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	10 - 20 feet	10 - 20 feet																	
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White Pine	Medium	10 - 20 feet	10 - 20 feet																																																				
26	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	40.9	57	81-110	N/A	Red and white pine with pockets of aspen- oak																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>10</td><td>Pole</td><td>6</td><td></td></tr><tr><td>Red Oak</td><td>20</td><td>Pole</td><td>8</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>10</td><td>Pole</td><td>8</td><td></td></tr><tr><td>White Pine</td><td>30</td><td>Pole/Sap/Log</td><td>8</td><td>57</td></tr><tr><td>Red Pine</td><td>30</td><td>Pole/Log/Sap</td><td>8</td><td>57</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Pole	6		Red Oak	20	Pole	8		Bigtooth Aspen	10	Pole	8		White Pine	30	Pole/Sap/Log	8	57	Red Pine	30	Pole/Log/Sap	8	57	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	5 - 10 feet	5 - 10 feet												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
27	42110 - Planted Red Pine	Sapling Well	113.0	6	Immature	N/A	Some scattered oak present within stand 2023 - Year 3 Regeneration Survey was completed 10/13/2023. There is currently 750 Trees per acre and stand currently 83% free to grow at this time. 11/9/2021 - Year 1 regeneration survey completed. Stand has approximately 788 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. 5/4/21 - Stand was planted to red pine. 785 Trees per acre were planted. Stand was final harvested in 2018, trenched in 2019 and sprayed in 2020. Ready for initial plant in 2021.																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>10</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Red Pine</td><td>90</td><td>Sapling</td><td>1</td><td>6</td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Red Maple	10	Sapling	1		Red Pine	90	Sapling	1	6																																	
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28	122 - Road/Parking Lot	None	24.3			No	OPIC - FMD: Fletcher Rd.																																															
29	3303 - Mixed Low Density Trees	None	29.2			No	Scattered white pine and cherry																																															
30	4199 - Other Mixed Upland Deciduous	Poletimber Well	3.6	52	111-140	N/A	<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>30</td><td>Pole/Sapling</td><td>6</td><td></td></tr><tr><td>Red Oak</td><td>25</td><td>Pole</td><td>8</td><td></td></tr><tr><td>White Oak</td><td>5</td><td>Pole/Sapling</td><td>6</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>35</td><td>Pole</td><td>8</td><td>52</td></tr><tr><td>White Pine</td><td>3</td><td>Pole/Sap/Log</td><td>8</td><td></td></tr><tr><td>Red Pine</td><td>2</td><td>Pole/Sap/Log</td><td>8</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	30	Pole/Sapling	6		Red Oak	25	Pole	8		White Oak	5	Pole/Sapling	6		Bigtooth Aspen	35	Pole	8	52	White Pine	3	Pole/Sap/Log	8		Red Pine	2	Pole/Sap/Log	8		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	10 - 20 feet	10 - 20 feet	White Pine	Low	5 - 10 feet	5 - 10 feet
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31	4122 - Oak, Pine	Sapling Well	17.3	17	Immature	N/A	Stand was harvested in 2009 under the Scattered Pine contract. Green tree marked residual trees were left everything which met utilization spec 2.2 was cut.																																															
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>20</td><td></td><td>2</td><td>17</td></tr><tr><td>White Oak</td><td>40</td><td>Sapling/Pole</td><td>2</td><td>17</td></tr><tr><td>Bigtooth Aspen</td><td>10</td><td>Sapling</td><td>3</td><td>17</td></tr><tr><td>White Pine</td><td>5</td><td>Sapling</td><td>3</td><td></td></tr><tr><td>Jack Pine</td><td>25</td><td></td><td>2</td><td>17</td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Red Oak	20		2	17	White Oak	40	Sapling/Pole	2	17	Bigtooth Aspen	10	Sapling	3	17	White Pine	5	Sapling	3		Jack Pine	25		2	17																		
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Bigtooth Aspen	10	Sapling	3	17																																																		
White Pine	5	Sapling	3																																																			
Jack Pine	25		2	17																																																		
32	4124 - Red with White Oak	Poletimber Well	100.1	53	81-110	N/A	<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>20</td><td>Pole</td><td>6</td><td></td></tr><tr><td>Red Oak</td><td>40</td><td>Pole</td><td>6</td><td>53</td></tr><tr><td>White Oak</td><td>20</td><td>Pole</td><td>6</td><td>53</td></tr><tr><td>Bigtooth Aspen</td><td>15</td><td>Pole</td><td>8</td><td></td></tr><tr><td>White Pine</td><td>5</td><td>Pole</td><td>8</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Serviceberry (Juneberry)</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Pole	6		Red Oak	40	Pole	6	53	White Oak	20	Pole	6	53	Bigtooth Aspen	15	Pole	8		White Pine	5	Pole	8		Sub-Canopy Species	Density	Avg. Height	Size	Serviceberry (Juneberry)	Low	5 - 10 feet	5 - 10 feet	Red Maple	Low	5 - 10 feet	5 - 10 feet					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
33	4130 - Aspen	Sapling Well	3.4	7	Immature	N/A	Stand was final harvested in 2018.																																								
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Quaking Aspen	85	Sapling	1	7																																											
Bigtooth Aspen	10	Sapling	1	7																																											
34	4133 - Aspen, Mixed Pine	Poletimber Medium	16.0	52	1-50	N/A																																									
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Black Cherry	15	Pole	5																																												
35	42220 - Natural Jack Pine	Poletimber Medium	5.3	70	51-80	N/A	retention for stand 21																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>10</td><td>Pole/Log/Sap</td><td>8</td><td>96</td></tr><tr><td>White Oak</td><td>5</td><td>Pole/Log</td><td>8</td><td>96</td></tr><tr><td>White Pine</td><td>7</td><td>Pole/Log</td><td>9</td><td>76</td></tr><tr><td>Red Pine</td><td>3</td><td>Pole/Log</td><td>9</td><td>76</td></tr><tr><td>Jack Pine</td><td>75</td><td>Pole</td><td>8</td><td>70</td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Oak</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	10	Pole/Log/Sap	8	96	White Oak	5	Pole/Log	8	96	White Pine	7	Pole/Log	9	76	Red Pine	3	Pole/Log	9	76	Jack Pine	75	Pole	8	70	Sub-Canopy Species	Density	Avg. Height	Size	Red Oak	Medium	5 - 10 feet	5 - 10 feet		
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37	4130 - Aspen	Sapling Well	19.7	28	Immature	N/A																																									
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Bigtooth Aspen	80	Sapling	3	28																																											
Jack Pine	10	Sapling	2	28																																											
39	330 - Low-Density Trees	None	6.1			No	Mostly open, scattered jack OPIC - FMD: Old FIRE AREA																																								

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
40	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	28.8	53	111-140	N/A																																												
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42	4130 - Aspen	Poletimber Well	119.0	52	111-140	N/A																																												
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43	4130 - Aspen	Poletimber Well	22.4	52	111-140	N/A																																												
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44	4133 - Aspen, Mixed Pine	Poletimber Well	17.9	52	81-110	N/A																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
46	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	22.1	76	111-140	N/A																																																			
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49	110 - Low Intensity Urban	None	16.7				pipe line																																																		
50	320 - Upland Shrub	None	5.4			No	scattered cherry brush for the most part, few trees here and there																																																		
51	4131 - Aspen, Oak	Poletimber Well	30.4	55	51-80	N/A																																																			
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52	3302 - Low Density Conifer Trees	None	10.2			No	OPIC - FMD: SCATTERED JACK PINE & ASPEN WITHIN U TYPE																																																		
53	4130 - Aspen	Sapling Well	42.0	7	Immature	N/A	Stand was final harvested in 2019.																																																		
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White Pine	3	Log/Pole	10																																																						
Jack Pine	3	Sapling	1																																																						
54	4131 - Aspen, Oak	Sapling Well	28.4	7	Immature	N/A	Stand was final harvested in 2018																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
55	4130 - Aspen	Poletimber Well	0.9	52	81-110	N/A	Retention for stand 33. Sale was closed and updated by a former employee. Unable to locate the sale in the compartment folder.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	98	Pole	7	52	Jack Pine	Low		5 - 10 feet	5 - 10 feet
Red Pine	2	Pole/Sapling	7	52	Red Oak	Low		5 - 10 feet	5 - 10 feet
56	4130 - Aspen	Sapling Well	67.5	4	Immature	N/A	Was cut under the Buck 144 West timber sale		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Maple	15	Sapling	1	4					
Red Oak	10	Sapling	1	4					
White Oak	5	Sapling	1	4					
Bigtooth Aspen	70	Sapling	1	4					
57	42290 - Natural Mixed Pine	Poletimber Well	4.0	73	111-140	N/A	Mixed conifer stand, some is pretty small yet but most is pole sized, not very good quality.OPIC - FMD: MIXED STAND OF RED,JACK & WHITE PINE.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Maple	5	Pole/Sapling	6						
Quaking Aspen	5	Pole	6						
White Pine	30	Pole/Log	8	73					
Red Pine	40	Pole/Log	8	73					
Jack Pine	20	Pole	6						
58	4199 - Other Mixed Upland Deciduous	Poletimber Well	2.6	96	111-140	N/A	Retention from Buck44 West timber sale		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple	15	Pole	9		White Pine	Medium	10 - 20 feet	10 - 20 feet	
Red Oak	45	Log/Pole	12	96					
White Oak	10	Log/Pole	10						
Bigtooth Aspen	20	Log/Pole	12						
White Pine	5	Log/Pole	10						
Red Pine	5	Log/Pole	12						
60	4131 - Aspen, Oak	Poletimber Well	63.2	52	111-140	N/A			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple	15	Pole	6		Serviceberry (Juneberry)	Low	5 - 10 feet	5 - 10 feet	
Red Oak	15	Pole	8						
White Oak	5	Pole	6						
Bigtooth Aspen	60	Pole	8	52					
White Pine	5	Pole	8						

Stand	Level 4 Cover Type	Size Density			Acres	Stand Age	BA Range	Managed Site	General Comments	
64	4199 - Other Mixed Upland Deciduous	Poletimber Well			1.5	96	111-140	N/A	retention from Buck44 west sale for stand 25	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		15	Pole	9	96	White Pine		Medium	10 - 20 feet	10 - 20 feet
Red Oak		35	Log/Pole	12	96					
White Oak		10	Log/Pole	10	96					
Bigtooth Aspen		30	Log/Pole	12	76					
White Pine		5	Log/Pole	10	96					
Red Pine		5	Log/Pole	12	96					
115	4130 - Aspen	Sapling Well			53.2	15	Immature	N/A	All oak was left when cut in 2013 Tremendous aspen reproduction. Sale # 045-11	
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		25	Sapling/Pole	2						
Red Oak		15	Pole/Sap/Log	8						
Bigtooth Aspen		60	Sapling	2	15					
116	4131 - Aspen, Oak	Sapling Well			51.0	14	Immature	N/A		
Canopy Species		% Cover	Size Class	DBH	Age					
Red Oak		15	Pole/Sapling	6	56					
White Oak		5	Pole/Sapling	6						
Quaking Aspen		35	Sapling	2	14					
Bigtooth Aspen		45	Sapling	2	14					
400	110 - Low Intensity Urban	None			4.8	large well pad, knapweed and dirt				