



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61121

Entry Year 2025

Acreage: 1,599

County Kalkaska

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Paul Roell

Legal Description:

T27N R5W, Sections 34, 35 and W half of 36

Identified Planning Goals:

Management in the Kalkaska Sandy Moraines area will emphasize continuing to balance the age class of aspen on suitable sites and 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:

Most of the compartment lies on sandy soils of one type or another including Lindquist, Rubicon, Graycalm, Au Gres, Grayling, and Croswell. There is a limited extent of Roscommon mucky sand in the wetter areas of Section 35. The hardwood stand sits Island Lake-Blue Lake complex.

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

The compartment is surrounded by a mixture of state and private ownership. There is State land along the north boundary. The Black Creek Conservation Association owns land to the west. There is State and private ownership to the south. There are numerous small private parcels, most with year-round dwellings, to the east.

Unique Natural Features:

This compartment has no known element occurrences but there is potential for Hill's thistle and eastern Massasauga rattlesnake across some of the compartment.

Archeological, Historical, and Cultural Features:

There is the possibility of an archeological within this compartment.

Special Management Designations or Considerations:

Aesthetics should be considered when managing stands adjacent to M-72.

Watershed and Fisheries Considerations:

There are no flowing streams or rivers in this compartment.

Wildlife Habitat Considerations:

The bulk of this compartment lies on a large ice contact ridge. This land type is typically characterized by broken topography. Presettlement vegetation over this LTA consisted of nearly 75% beech/maple forests with the rest consisting of beech/hemlock or mixed conifer stands. Today, northern hardwoods remain dominant on about 70% of the LTA. However, the coniferous component from many of these stands has been largely eliminated. Natural openings within this LTA are normally the result of frost pockets and occasional fires, and typically need little maintenance. One of these openings have been scheduled for maintenance activities in order to promote their forage and edge components. Oak treatments should be designed to leave a component of white pine, mature mast producing oak, and standing dead timber for structural diversity within the stands. Aspen harvests have been scheduled this inventory cycle in order to increase age class diversity. The incorporation of snags, leave trees, and downed logs in these cuts will help to replicate a wildfire-altered forest and increase wildlife use by species like grouse, woodcock, golden-winged warbler, turkey, and deer. Harvest operations should be utilized to create some (approximately 1-2 trees per acre) coarse woody debris (CWD), preferably via timber sale specs.

A broad flat outwash plain occurs in the southeast corner of this compartment. This LTA is a fire driven ecosystem which historically supported a variety of forest types. The dominant cover types were fire dependant conifers like jack pine. This area should be managed for a variety of forest age classes, successional stages, and patch sizes. Species benefiting from this habitat type include Kirtland's warbler, ruffed grouse, upland sandpiper, white-tailed deer, and hog-nosed snakes.

Mineral Resource and Development Concerns and/or Restrictions

There is no known metallic mineral potential in this part of the state. No active sand/gravel pits are known to exist in the area. There may be potential for sand & gravel within the compartment. Some oil & gas test drilling has occurred in the area, but there has been no significant production for miles. Some testing and minor production from the Collingwood Formation occurred a few miles west, but the Collingwood has not been proven to be economical to produce. Nevertheless, all State-owned mineral rights in and around the compartment were recently nominated for oil & gas leasing by Lambda Energy. Lambda's intentions in the area are unknown.

Vehicle Access:

The numerous roads in this compartment are sufficient for timber sale and recreational access.

Survey Needs:

There are no survey needs at this time.

Recreational Facilities and Opportunities:

Approximately 1-1/2 miles of the Kalkaska ORV trail bisects the compartment in a north/south fashion. Proposed timber management activities should include trail protection specifications to reduce impacts, as well as serve as an example of how timber harvesting practices can co-exist and often improve recreation and hunting experiences for future generations.

Fire Protection:

Proximity to M-72 and numerous woods roads through this compartment afford good access in the event of a wildfire. Primary fire protection would come from the DNR's Kalkaska Field Office with additional help from the Grayling Field Office and the Bear Lake Township fire station which are relatively close. Risk of catastrophic wildfire is relatively low due to open nature of many oak or hardwood stands and relative lack of pine stands.

Additional Compartment Information:

The following reports from the Inventory are attached:

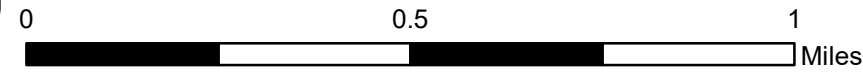
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

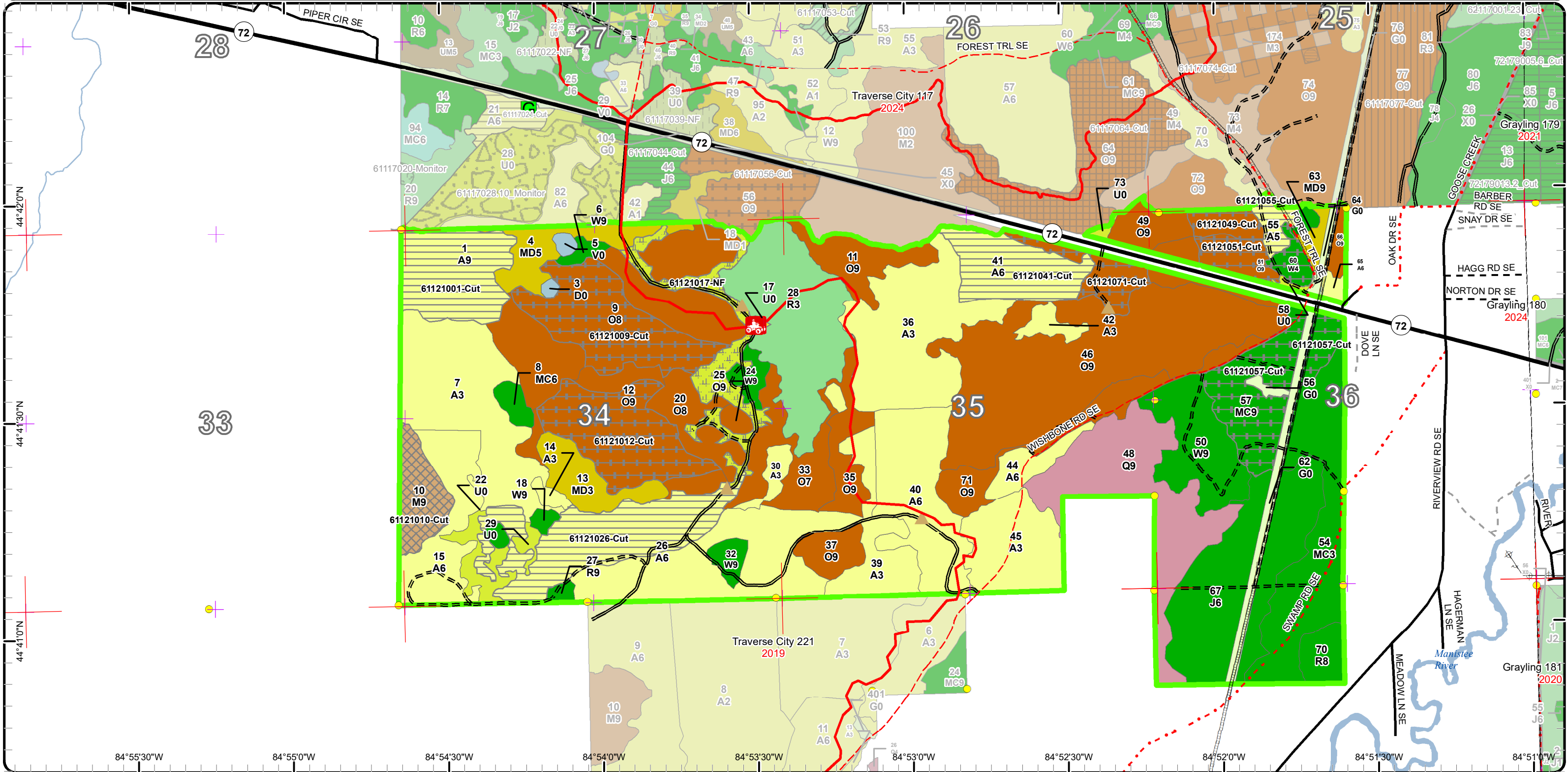
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 121
 T27N-R5W, Sections 34, 35, 36
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy
 Moraines
 YOE: 2025
 Acres: 1599.3 GIS Calculated
 Examiner: Paul Roell
 Map Revised: 5/2/2023
 Map Phase: Web-Post

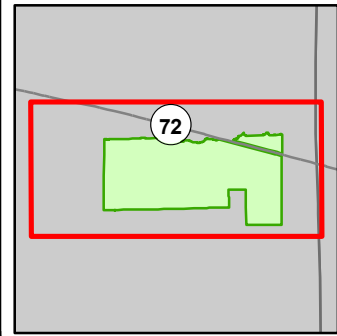
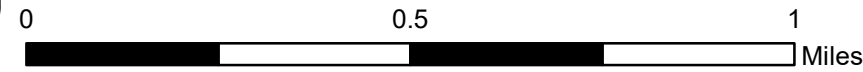


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ORV Trails
- Designated ATV Trails
- Berms
- Gate
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

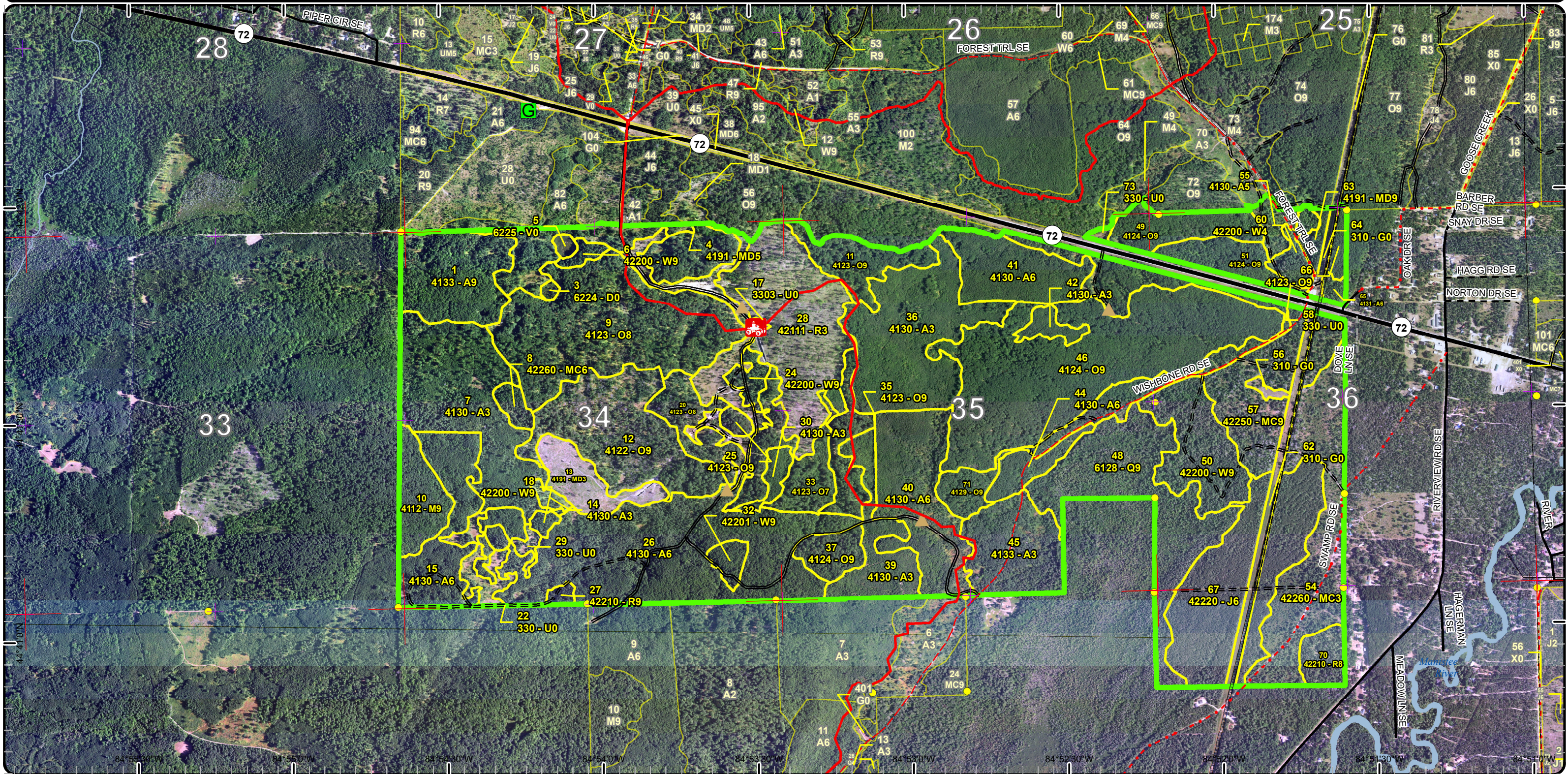


Stand Boundary Map

Compartment: 121
 T27N-R5W, Sections 34, 35, 36
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy
 Moraines
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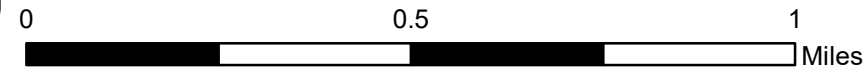


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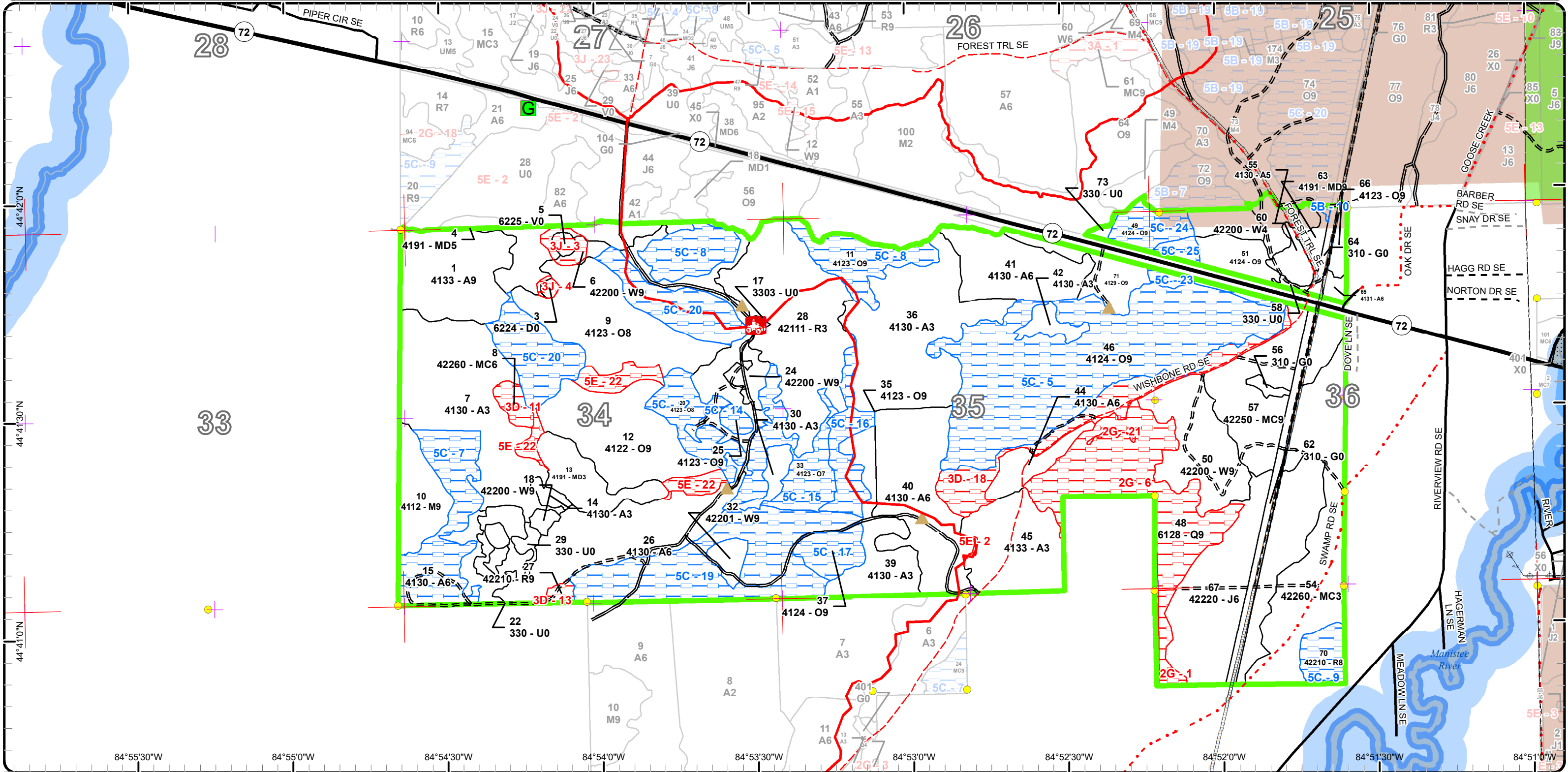


Special Conservation Areas

Compartment: 121
 T27N-R5W, Sections 34, 35, 36
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy
 Moraines
 YOE: 2025
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- ORV Trails
- Designated ATV Trails
- ▲ Berms
- ⬢ Gate
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands
- State Forest Campground



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	41	0	184	11	54	247	3	0	0	0	0	0	0	0	0	0	0	539
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Herbaceous Openland	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Jack Pine	0	0	0	0	0	77	0	0	0	0	0	0	0	0	0	0	0	0	77
Low-Density Trees	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Lowland Conifers	0	0	0	0	0	0	0	0	0	72	0	0	0	0	0	0	0	0	72
Mixed Upland Deciduous	0	20	0	0	0	22	0	0	0	4	0	0	0	0	0	0	0	0	46
Natural Mixed Pines	0	0	0	66	0	0	5	0	0	45	0	0	0	0	0	0	0	0	116
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	20
Oak	0	0	0	0	0	0	0	0	0	269	241	0	0	0	0	0	0	0	510
Red Pine	0	71	0	0	0	0	0	0	0	11	2	0	0	0	0	0	0	0	84
Treed Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	0	0	0	0	0	0	15	11	41	0	0	0	0	0	0	0	67
Total	68	132	0	250	11	153	252	3	15	412	304	0	0	0	0	0	0	0	1598



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 121
Total Compartment Acres: 1,599

Commercial Harvest - 353
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	144	0	0	0	0	0	0	0	0	144
Natural Mixed Pines	0	0	0	0	0	45	0	0	0	45
Northern Hardwood	0	20	0	0	0	0	0	0	0	20
Oak	0	0	0	0	0	138	0	0	0	138
White Pine	0	0	0	0	0	6	0	0	0	6
Total	144	20	0	0	0	189	0	0	0	353

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	353	0	0	0	0	0	0	29	0	382
Next Step	0	0	0	0	0	164	0	0	0	164
Total	353	0	0	0	0	164	0	29	0	546



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

1	61121001-Cut	41.8	4133 - Aspen, Mixed Pine	Sawtimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest all trees two inches and larger in diameter. Look at leave tree marking some scattered white oaks and pine while cruising the stand.
Specs: Minimal area retention.

Include grouse spec and oak wilt in timber sale specs.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, mixed oak, pine and hardwood which meet minimum stocking requirements.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

9	61121009-Cut	52.7	4123 - Red Oak	Sawtimber Medium	95	51-80	Harvest	Overstory Removal	4131 - Aspen, Oak	Even-Aged	No
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Prescription Harvest all trees four inches and larger in diameter. Remove the existing overstory and release the regeneration present along with
Specs: producing more regeneration. Look at leave tree marking some scattered white oaks and pine while cruising the stand. A site condition for area retention has been placed in MIFI.

Next Step

Treatments:

Acceptable aspen, oak, mixed pine and hardwood

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

10	61121010-Cut	20.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	98	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
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Prescription Follow the departments guide to mark the stand to a residual BA of 70-80 sqft per acre/establish 4 or 5 larger 1-2 acre regen gaps. Scarify
Specs: the gaps during the harvest if possible.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Sugar maple, Red maple, Red oak and Basswood

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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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12	61121012-Cut	49.0	4122 - Oak, Pine	Sawtimber Well	95	81-110	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
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Prescription Harvest all trees four inches and larger in diameter. Remove the existing overstory and release the regeneration present along with
Specs: producing more regeneration. Look at leave tree marking some scattered white oaks and pine while cruising the stand. A site condition for area retention has been placed in MIFI.

Next Step
Treatments:

Acceptable oak, pine, aspen and some hardwood
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

17	61121017-NF	28.8	3303 - Mixed Low Density Trees	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	3205 - Mixed Upland Shrub		No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and
Specs: 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.

Next Step
Treatments:

Acceptable
Regen:

Other Could augment herbaceous vegetation with low maintenance native spp via overseeding.
Comment: This could be a good area for Non Profit or wildlife club to plant shrubs.

Site Condition

Proposed Start Date: 10/1 /2024

26	61121026-Cut	61.2	4130 - Aspen	Poletimber Well	53		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest all trees two inches and larger in diameter. Look at leave tree marking some scattered white oaks and pine while cruising the stand.
Specs: Minimal area retention.

Include grouse spec and orv trail protection spec in timber sale

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

Acceptable aspen with a minor component of oaks, pine and hardwoods which meet minimum stocking level
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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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41	61121041-Cut	33.5	4130 - Aspen	Poletimber Well	58		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest all trees two inches and larger in diameter. Look at leave tree marking some scattered white oaks and pine while cruising the stand.
Specs: Minimal area retention.

Include Grouse spec in timber sale oak wilt spec too.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen with a minor component of red maple, pines and oaks which meet minimum stocking requirements

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

49	61121049-Cut	8.7	4124 - Red with White Oak	Sawtimber Well	83	81-110	Harvest	Overstory Removal	4190 - Mixed Upland Deciduous with Cedar	Even-Aged	No
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Prescription Harvest all trees four inches and larger in diameter. Remove the existing overstory and release the regeneration present along with producing more regeneration. Look at leave tree marking some scattered white oaks and pine while cruising the stand.

No retention regen concerns and small stand size include oak wilt specs

Next Step

Treatments:

Acceptable oaks and aspen mixed pine and red maple

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

51	61121051-Cut	11.8	4124 - Red with White Oak	Sawtimber Well	83	81-110	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Harvest all trees four inches and larger in diameter. Remove the existing overstory and release the regeneration present along with producing more regeneration. Look at leave tree marking some scattered white oaks and pine while cruising the stand.

No retention because of small stand size and regen concerns include oak wilt specs

Next Step

Treatments:

Acceptable oak, aspen, mixed pine and red maple

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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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55	61121055-Cut	7.2	4130 - Aspen	Poletimber Medium	55	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Harvest all trees two inches and larger in diameter. Look at leave tree marking some scattered white oaks and pine while cruising the stand.
Specs: No retention because of small stand size and regeneration concerns.

Protect the gas line during the harvest include grouse and oak wilt specs.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen with a minor component of oaks, pines and hardwoods which meet minimal stocking levels.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

57	61121057-Cut	44.9	42250 - Pine, Oak	Sawtimber Well	83	51-80	Harvest	Overstory Removal	4122 - Oak, Pine	Even-Aged	No
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Prescription Harvest all trees four inches and larger in diameter. Remove the existing overstory and release the regeneration present along with producing more regeneration. Look at leave tree marking some scattered white oaks and pine while cruising the stand. Minimal area retention.

Next Step
Treatments:

Acceptable oak, mixed pine, aspen and red maple.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

60	61121060-Cut	6.3	42200 - Natural White Pine	Poletimber Poor	77	1-50	Harvest	Overstory Removal	4131 - Aspen, Oak	Even-Aged	No
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Prescription Harvest all trees four inches and larger in diameter. Remove the existing overstory and release the regeneration present along with producing more regeneration. Look at leave tree marking some scattered white oaks and pine while cruising the stand. Protect the gas line.

No retention needed include oak wilt spec

Next Step
Treatments:

Acceptable Oak, pine and red maple.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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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71	61121071-Cut	15.5	4129 - Mixed Oak	Sawtimber	88	81-110	Harvest	Overstory Removal	4121 - Oak, Aspen	Even-Aged	No
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Prescription Harvest all trees four inches and larger in diameter. Remove the existing overstory and release the regeneration present along with
Specs: producing more regeneration. Look at leave tree marking some scattered white oaks and pine while cruising the stand. Minimal area retention.

Next Step
Treatments:

Acceptable oaks, pine, aspen and red maple
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

Total Treatment 381.6
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 121

Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
539	435	103	1

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions						
					5B	5C	2G	3D	3J	5E	
539	435	103	1	Aspen		103					1
2	0	0	2	Bog						2	
20	20	0	0	Herbaceous Openland	0						
77	77	0	0	Jack Pine							
44	44	0	0	Low-Density Trees		0					
71	0	0	71	Lowland Conifers			71				
46	43	1	3	Mixed Upland Deciduous	1					3	
117	111	0	5	Natural Mixed Pines				5			
20	20	0	0	Northern Hardwood							
510	142	326	42	Oak		326		27	0	14	
84	71	11	2	Red Pine		11		2			
1	0	0	1	Treed Bog						1	
66	64	0	2	White Pine						2	
1,599	1,030	441	129	Total Forested Acres	1	440	71	35	8	15	
	64%	28%	8%	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	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 121

Year of Entry: 2025

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: buffer for wet kettle hole with steep slopes							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: buffer for wet kettle hole with steep slopes							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	138	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	65	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 121

Year of Entry: 2025

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5B: Maintain for regeneration purposes	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This part was treated recently with Compartment 117.							
11	Unavailable	3D: Recreational / Scenic values	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3D: Recreational / Scenic values	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 121

Year of Entry: 2025

15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Allow this oak stand to develop naturally for a while longer since we are planning to treat so many other oak acres in this compartment.							
18	Unavailable	3D: Recreational / Scenic values	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	66	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 121

Year of Entry: 2025

21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: small pocket of the bigger stand that was harvested							
22	Unavailable	5E: Long-Term Retention	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	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	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	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	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
1	4133 - Aspen, Mixed Pine	Sawtimber Well	41.8	56	81-110	N/A																																																	
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3	6224 - Treed Bog	Nonstocked	1.2		Immature	No	Small kettle hole with standing water. Contains a clump of small black spruce and a few white pine.																																																
4	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	21.9	43	51-80	N/A	Very open, variable stand. Parts were typed as opening in last inventory but they are filling in. Some pockets of much younger regeneration.																																																
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5	6225 - Bog	Nonstocked	1.9			No	Small kettle hole with standing water. No vegetation visible above snow.																																																
6	42200 - Natural White Pine	Sawtimber Well	3.4	95	111-140	N/A	Most of stand sits on steep slope at edge of kettle hole.																																																
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7	4130 - Aspen	Sapling Well	71.3	21	Immature	N/A	Stand was cut as part of M-72 Aspen, 61-045-99-01, finished May 2002. Cut all trees greater than" DBH except oak and pine. Good regeneration: mostly aspen but some areas are more red maple. Oak is starting to reach pole size. Scattered pockets of white and red pine. Rolling hills.																																																
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8	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	5.2	53	171-200	N/A	Dense white pine with variable diameters. Trace of oak in the understory. Moderate slopes.																																														
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9	4123 - Red Oak	Sawtimber Medium	100.7	95	51-80	N/A	Good quality oak. Most of stand was cut as part of 121 Oak sale, 61-053-05-01, completed January 2008 (106 acres). Cut all aspen, paper birch and red maple and thin oak to shelterwood BA. Pockets of dense aspen, red maple and oak regeneration. Moderate browse levels. Trace of beech in understory. Rolling hills with scattered dry kettle hole depressions and scattered small openings.																																														
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10	4112 - Maple, Beech, Cherry Association	Sawtimber Well	20.2	98	111-140	N/A	Stand was cut as part of M-72 Hardwoods, 61-046-99-01, finished September 2000. Marked hardwood thinning, including aspen and oak.																																														
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11	4123 - Red Oak	Sawtimber Well	38.6	93	81-110	N/A	121 Aspen Sale, 61-055-99-01. Aspen removed. Good oak size diversity. Fair to good quality oak. Dense red maple in patches of understory. Knoll surrounded by opening.																																														
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12	4122 - Oak, Pine	Sawtimber Well	63.4	95	81-110	N/A	Stand was cut as part of Hops Oak Salvage, 61-065-94-01, finished May 1996. Marked oak and aspen was cut. Notes say oak was killed by insects. Now it is a two-aged stand with scattered log-sized canopy trees and good advanced oak regeneration and pockets of dense aspen. Heavy browse.																																														
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13	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	19.7	6	Immature	N/A	Left less than 1 oak/acre. Trenched in fall 2016. Planted May 2017. 3-0 RP, 902 TPAWAs supposed to be release-sprayed in 2019 and then 2020 but it wasn't done and competition got too tall to spray with skidder and this is too small for helicopter so we will have to accept mixed stand.																																			
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14	4130 - Aspen	Sapling Well	2.8	6	Immature	N/A	Cut spring 2016. Should come back to mix of aspen, white pine and oak. Had a decent amount of advanced oak regeneration before cutting. Left scattered pine and oak.																																			
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15	4130 - Aspen	Poletimber Well	37.1	50	81-110	N/A																																				
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17	3303 - Mixed Low Density Trees	Nonstocked	28.8			No	Winding, open valley between oak hills. Scattered trees including open-grown white pine, cherry and oaks. Poor dirt road and ORV trail run through or cross opening so there are some hill climb areas. Widest part is a bowl-shaped depression which is dry.																																			
18	42200 - Natural White Pine	Sawtimber Well	4.4	86	141-170	N/A																																				
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20	4123 - Red Oak	Sawtimber Medium	18.8	95	51-80	N/A	Scattered canopy gaps. Low BA log stand with pockets of younger regeneration. Small patch of decent red pine in north part. Heavy browse.																																			
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22	330 - Low-Density Trees	Nonstocked	10.5			No	Meandering opening with various levels of tree cover. Some aspen, cherry, and white pine, all sapling/pole size.																																			



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24	42200 - Natural White Pine	Sawtimber Well	6.6	88	81-110	N/A																																										
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25	4123 - Red Oak	Sawtimber Well	3.2	94	81-110	N/A	Small knoll of oak mostly surrounded by openings or stands with sparser canopies. Fair quality oak with patches of good advanced regeneration. Red maple in understory is reaching pole size. ORV use/hill climbs.																																									
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26	4130 - Aspen	Poletimber Well	127.6	53		N/A	Scattered small openings and shallow, dry bowl-shaped depressions. A few pockets of white pine and good advanced oak regeneration in pockets. Gradual transition into adjacent stands.																																									
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27	42210 - Natural Red Pine	Sawtimber Well	2.3	92	111-140	N/A	Small pocket of red pine with aspen filling in underneath and in canopy gaps. Some large, fire-scarred red pine. Pine is relatively short.																																									
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28	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	71.1	7	1-50	N/A	Much of stand was cut as part of 121 Aspen, 61-055-99-01, finished October 2002. Cut all trees greater than 2" DBH except oak and pine. Cut as Spring Break Oak, 61-118-15-01, in spring 2016. Residual oak BA -0-50 sf/ac. Rolling hills. ORV trail bisects stand. Trenched in 2016. Underplanted May 2017, 3-0 RP, 834 TPA																																									
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29	330 - Low-Density Trees	Nonstocked	2.7			No	Meandering opening with various levels of tree cover. Some aspen, cherry, and white pine, all sapling/pole size.																																									
30	4130 - Aspen	Sapling Well	7.5	21	Immature	N/A	Stand was cut as part of 121 Aspen, 61-055-99-01, finished October 2002. Cut all trees greater than 2" DBH except oak and pine. Good regeneration. A few larger white pine, red pine and red maple trees.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
32	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	5.5	78	141-170	N/A	Dense, relatively limby white pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		70	Log/Pole	10	78	Oak (spp.)	
Red Oak		10	Log/Pole	12		White Pine	
Bigtooth Aspen		20	Pole	6		Density	
						Avg. Height	
						Size	
33	4123 - Red Oak	Sawtimber Poor	28.9	88	1-50	N/A	Stand was cut as part of 121 Aspen, 61-055-99-01, finished October 2002. Cut all trees greater than" DBH except oak and pine. Stand is now two-aged with a sparse log-sized canopy and patchy regeneration underneath. Rolling hills.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole/Sapling	6		Red Maple	
Red Oak		60	Log/Pole	10	88	Quaking Aspen	
White Oak		15	Log/Pole	10		White Pine	
White Pine		15	Pole/Log	8		Oak (spp.)	
						Density	
						Avg. Height	
						Size	
35	4123 - Red Oak	Sawtimber Well	17.0	88	81-110	N/A	Much of stand was cut as part of 121 Aspen, 61-055-99-01, finished October 2002. Cut all trees greater than 2 inches except oak and pine. Decent quality oak with thick red maple underneath. Small canopy gaps at south end. Rolling hills. ORV trail runs through stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		90	Log/Pole	10	88	Red Maple	
White Oak		10	Log/Pole	10		Witch Hazel	
						Density	
						Avg. Height	
						Size	
36	4130 - Aspen	Sapling Well	71.3	21	Immature	N/A	Stand was cut as part of 121 Aspen, 61-055-99-01, finished October 2002. Cut all trees greater 2" DBH except oak and pine. Oak within aspen pockets was also removed. Most of this stand is sapling sized except for a few 1-2 acre patches of older, log-sized oak totalling about 4 acres. ORV trail runs along west side of stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		80	Sapling/Pole	4	21		
Red Oak		5	Sapling/Pole	3			
Red Maple		15	Sapling	2			
37	4124 - Red with White Oak	Sawtimber Well	11.9	93	81-110	N/A	Variable stand. Canopy is mostly log-sized oak but there are patches of good oak and red maple regen.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		50	Log/Pole	12	93	Oak (spp.)	
White Oak		25	Log/Pole	12		Witch Hazel	
Red Pine		5	Log	14		Red Maple	
Quaking Aspen		10	Pole	6		White Pine	
Red Maple		10	Pole	8		Density	
						Avg. Height	
						Size	
39	4130 - Aspen	Sapling Well	27.4	21	Immature	N/A	Stand was cut as part of 121 Aspen, 61-055-99-01, finished October 2002. Cut all trees greater than 2" DBH except oak and pine. Oak within aspen pockets was also removed. ORV trail runs on edge of or through stand. Somewhat steep hills at south end of stand.
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		5	Sapling	2			
Red Maple		20	Sapling	2			
Quaking Aspen		10	Sapling	3			
Bigtooth Aspen		50	Sapling	3	21		
Red Pine		5	Sapling	2			
Red Oak		10	Sapling	2			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
40	4130 - Aspen	Poletimber Well	54.1	46	81-110	N/A	Variable stand with some areas of mediocre aspen and some areas of U-type opening. Rolling hills. Clearcut, sale 61-021-77. ORV trail runs through stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		5	Pole/Sapling	6		Black Cherry		
Quaking Aspen		30	Pole/Sapling	5	46	Oak (spp.)		
Bigtooth Aspen		55	Pole	6	46	Density		
Black Cherry		10	Pole	6		Avg. Height		
						Size		
41	4130 - Aspen	Poletimber Well	33.5	58		N/A	Cut as part of 121 Aspen, 61-055-99-01, finished October 2002. Cut all trees except pine and oak. Good regeneration.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		80	Pole/Log	9	58	Oak (spp.)		
White Pine		3	Pole/Log	8		White Pine		
Red Oak		2	Log	12		Density		
White Oak		5	Log	12		Avg. Height		
Red Maple		10	Pole	8		Size		
42	4130 - Aspen	Sapling Well	6.1	21	51-80	N/A	Cut as part of 121 Aspen, 61-055-99-01, finished October 2002. Cut all trees except pine and oak. Good regeneration.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Oak		10	Sapling	2				
Red Maple		25	Sapling	3				
Bigtooth Aspen		65	Sapling/Pole	4	21			
44	4130 - Aspen	Poletimber Well	11.3	33	81-110	N/A	Stand was cut as part of Hunt Club Sale, 61-002-99-01, clearcut finished July 1990. Good regeneration.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		10	Sapling/Pole	3		White Pine		
White Pine		5	Sapling/Pole	4		Oak (spp.)		
Quaking Aspen		10	Pole/Sapling	5		Density		
Black Cherry		5	Sapling	2		Avg. Height		
Red Maple		20	Sapling/Pole	3		Size		
Bigtooth Aspen		50	Pole/Sapling	5	33			
45	4133 - Aspen, Mixed Pine	Sapling Well	37.7	7	Immature	N/A	Cut as part of Wishbone Woods, 61-124-15-01. Previous stand had good oak and white pine in understory. Mostly excluded short section of ORV trail on west side of stand.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		15	Pole/Log	8				
Red Maple		15	Sapling	1				
White Oak		5	Pole/Sapling	5				
Red Pine		5	Pole/Log	8				
Quaking Aspen		10	Sapling	1				
Red Oak		5	Pole/Log	8				
Bigtooth Aspen		45	Sapling	1	7			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
46	4124 - Red with White Oak	Sawtimber Well	138.2	88	51-80	N/A	Sale 61-055-99-01, completed October 2002. Remove aspen and thin oak. Not a lot of oak in understory. Some pole/sapling red maple. Heavy browse. Moderately hilly. Adjacent to M-72. Cut more oak as part of Duck and Cover Oak, 61-103-15-01. Residual BA 30-80 sf/acre. Probably should have clearcut, in hindsight.																																																												
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48	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	71.5	88	81-110	N/A	Variable stand. Pockets of cedar and mixed conifer surrounded by more typical E-type of sapling/pole size. Patchy canopy. Red maple in canopy is log-sized in places. Wet, hummocky stand but drier to north.																																																												
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49	4124 - Red with White Oak	Sawtimber Well	21.3	83	81-110	N/A	Good quality oak with minimal mortality. Stand is two-aged in places. Red maple in understory ranges from 1/2 - 2" DBH or has thick stump sprouts in a few places. White pine in understory is patchy but thick in a few places. Topography is rolling hills with generally south aspect. Heavy browse on seedlings. All aspen and maple and some oak were removed from this stand in 1994, M72 Oak Salvage, 61-059-93. (Sale in comp 117.) If this stand is treated in 2025 YOЕ, consider including 61117072 to the north. Canopy data from 3/15/2013.																																																												
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51	4124 - Red with White Oak	Sawtimber Well	15.5	83	81-110	N/A	Good quality oak stand. Similar to stand to north except white pine is more uniformly present in the understory of this stand. This stand also has slightly more red maple in the canopy and oak diameters might be slightly smaller. More aspen and less oak at eastern end. Rolling hills with generally northern or eastern aspect. Heavy browse on seedlings.																																																												
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54	42260 - Natural Pine, Mixed Deciduous	Sapling Well	66.4	22	51-80	N/A	Stand was cut as part of M-72 Jack Pine, 61-061-99-01, finished August 2001. Cut all trees greater than 2" DBH except oak, red pine and white pine. Sale was chipped. Scattered canopy gaps. Good oak seedlings in places.																																																						
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55	4130 - Aspen	Poletimber Medium	7.2	55	51-80	N/A	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling	White Pine	Low	Variable	Sapling																																										
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56	310 - Herbaceous Openland	Nonstocked	1.8			No	old oil and gas site or sand trap dump																																																						
57	42250 - Pine, Oak	Sawtimber Well	44.9	83	51-80	N/A	South part of stand was cut as part of M-72 Jack Pine, 61-061-99-01, finished August 2001. Cut all trees greater than 2" DBH except oak, red pine and white pine. Sale was chipped. More red pine than stand to south. BA is patchy. Some pole-sized oak in understory. Some old, fire-scarred red pine. Stand is adjacent to M-72.																																																						
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58	330 - Low-Density Trees	Nonstocked	1.1			No	Small opening between M-72 and woods road. Scattered trees including cherry, red pine, oak and shrubs.																																																						
60	42200 - Natural White Pine	Poletimber Poor	8.7	77	1-50	N/A	Small mixed aspen and pine stand. Clump of old, large, fire-scarred red pine at southwest edge of stand. Middlin' Mix, 61-123-15-01. Prepped by summer student. Cut early spring 2019. Shelterwood cut, leaving mostly white pine. Oak declined significantly since sale was prepped. Modified contract to remove oak.																																																						
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62	310 - Herbaceous Openland	Nonstocked	15.0		Immature	No	Consumers Energy gas pipeline.																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
63	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	4.4	88	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		35	Log/Pole	10	88	Oak (spp.)	
White Oak		20	Log/Pole	10		White Pine	
White Pine		10	Pole/Log	8		Red Maple	
Bigtooth Aspen		5	Pole	8	63		
Red Pine		10	Pole/Log	8			
Red Maple		20	Pole/Log	8			
64	310 - Herbaceous Openland	Nonstocked	3.7		Immature	No	Consumers Energy gas pipeline and facility near M-72. Pipeline also runs along Forest Trail.
65	4131 - Aspen, Oak	Poletimber Well	2.7	63	111-140	N/A	Small, mixed stand along M-72. Mostly poor quality with heavy browse on seedlings.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Bigtooth Aspen		70	Pole/Log	8	63	Oak (spp.)	
White Pine		10	Log/Pole	10		White Pine	
Red Oak		20	Log/Pole	10			
66	4123 - Red Oak	Sawtimber Well	4.5	96	81-110	N/A	Middlin' Mix, 61-123-15-01. Prepped by summer student. Cut early spring 2019.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		15	Pole	6		Red Maple	
White Oak		5	Log/Pole	10		Red Pine	
Red Oak		80	Log/Pole	12	96	Red Oak	
67	42220 - Natural Jack Pine	Poletimber Well	77.4	44	81-110	N/A	A few oaks and larger white pine and red pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		96	Pole	7	44	Black Cherry	
White Pine		2	Pole/Sapling	6		Oak (spp.)	
Red Pine		2	Pole/Log	8			
70	42210 - Natural Red Pine	Sawtimber Medium	10.8	83	1-50	N/A	Stand was cut as part of M-72 Jack Pine, 61-061-99-01, finished August 2001. Cut all trees greater than" DBH except oak, red pine and white pine. Sale was chipped. Regeneration has been patchy. Stand is mostly sapling and pole-sized with clumps of log-sized pine and oak. Denser canopy left along M-72. Small opening at southeast corner is filling in.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		10	Pole/Sapling	7		Jack Pine	
White Pine		30	Pole/Sapling	6		Quaking Aspen	
Red Pine		60	Log/Pole	10	83	Black Cherry	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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71	4129 - Mixed Oak	Sawtimber Well	48.1	88	81-110	N/A	Sale 61-055-99-01, completed October 2002. Remove aspen and thin oak. Not a lot of oak in understory. Some pole/sapling red maple. Heavy browse. Moderately hilly. Adjacent to M-72.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	Pole/Log	8	
Red Oak	35	Log/Pole	12	88
White Oak	35	Pole/Log	8	
White Pine	15	Log/Pole	10	
Quaking Aspen	10	Pole	8	21

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	Pole
White Pine	Low	>20 feet	Sapling
Oak (spp.)	Low	Variable	Sapling

73	330 - Low-Density Trees	Nonstocked	1.3	0		No	
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