



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61166

Entry Year 2025

Acreage: 1,346

County Kalkaska

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Paul Roell

Legal Description:

T27N, R8W, Sec. 4 & 5. T28N, R8W, S1/2 of Sec. 32 & 34.

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:

Kalkaska, Rubicon and Island Lake sandy soils. The terrain is steep to rolling hills, anywhere between 6-18% slope.

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

State Land is intermixed with private property throughout this compartment and also the neighboring compartments. Skegemog Lake Wildlife Area is just to the north and there is some commercial development to the north along M-72. Land use in this area is primarily hunting, ORV's and some hiking.

Unique Natural Features:

none listed at this time

Archeological, Historical, and Cultural Features:

There are known locations within the compartment to protect.

Special Management Designations or Considerations:

Skegemog Lake Wildlife Area is the compartment to the north.

Watershed and Fisheries Considerations:

No water within compartment.

Wildlife Habitat Considerations:

Compartment 166 is situated on a series of steep moraine ridges with well drained soils. This type of geology typically supported beech/maple forests. Much of the current cover types consist of northern hardwoods, which is consistent with presettlement records. Hardwood treatments should be designed to save mature beech (if any are left living) and oaks for denning, nesting, and mast producing trees. Many species of wildlife utilize mature northern hardwoods, such as scarlet tanagers, gray fox, four toed salamanders, white-tail deer, and wild turkeys.

Wildfires occasionally made there way into this community from adjacent outwash plains potentially creating pockets of early successional communities. Little bluestem is found in most openings and is a major component of several larger openings, which are proposed for burning to promote the native grasses. Most of the openings found in this compartment are the results of frost pockets, some showing signs of vernal wetlands at the bottom. Several other openings are the result of homesteads, gaps between pine plantations, or a combination of the two. Most of the openings are self maintaining and need no attention. Many wildlife species take advantage of these natural and man-made openings, including white-tail deer, red fox, cottontails, Eastern garter snakes, and broad-winged hawks.

Mineral Resource and Development Concerns and/or Restrictions

There is no known metallic mineral potential in this part of the state. An active sand/gravel operation is just north of the compartment, in Sec 33, on the north side of M-72. There is good potential for sand & gravel within the compartment. Active hydrocarbon production is occurring one mile to the southeast. The compartment is on the edge of both the Antrim Shale gas play and the northern Silurian reef trend. There may be potential for hydrocarbons from both formations beneath the compartment. However, future additional development of Antrim gas wells is unlikely. There may be potential for

additional reef discoveries beneath the compartment, but due to the location relative to the main reef trend, potential is considered to be diminished. Two wells were previously drilled within the compartment to test the Silurian Guelph (Niagaran) Formation, but they were both dry holes. No active State mineral leases exist in the compartment, and there has been no recent well permit activity in the compartment. The state does not own much of the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Vehicle access is good with some two-track roads having erosion problems due to the steep terrain.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

There are no developed recreation facilities within this compartment.

Fire Protection:

Fire protection is provided by the Michigan DNR Kalkaska Field Office and Rapid City Fire Department. Due to the cover types in the compartment, fire danger is relatively low, but some areas have more public interface than others, which could increase potential.

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:

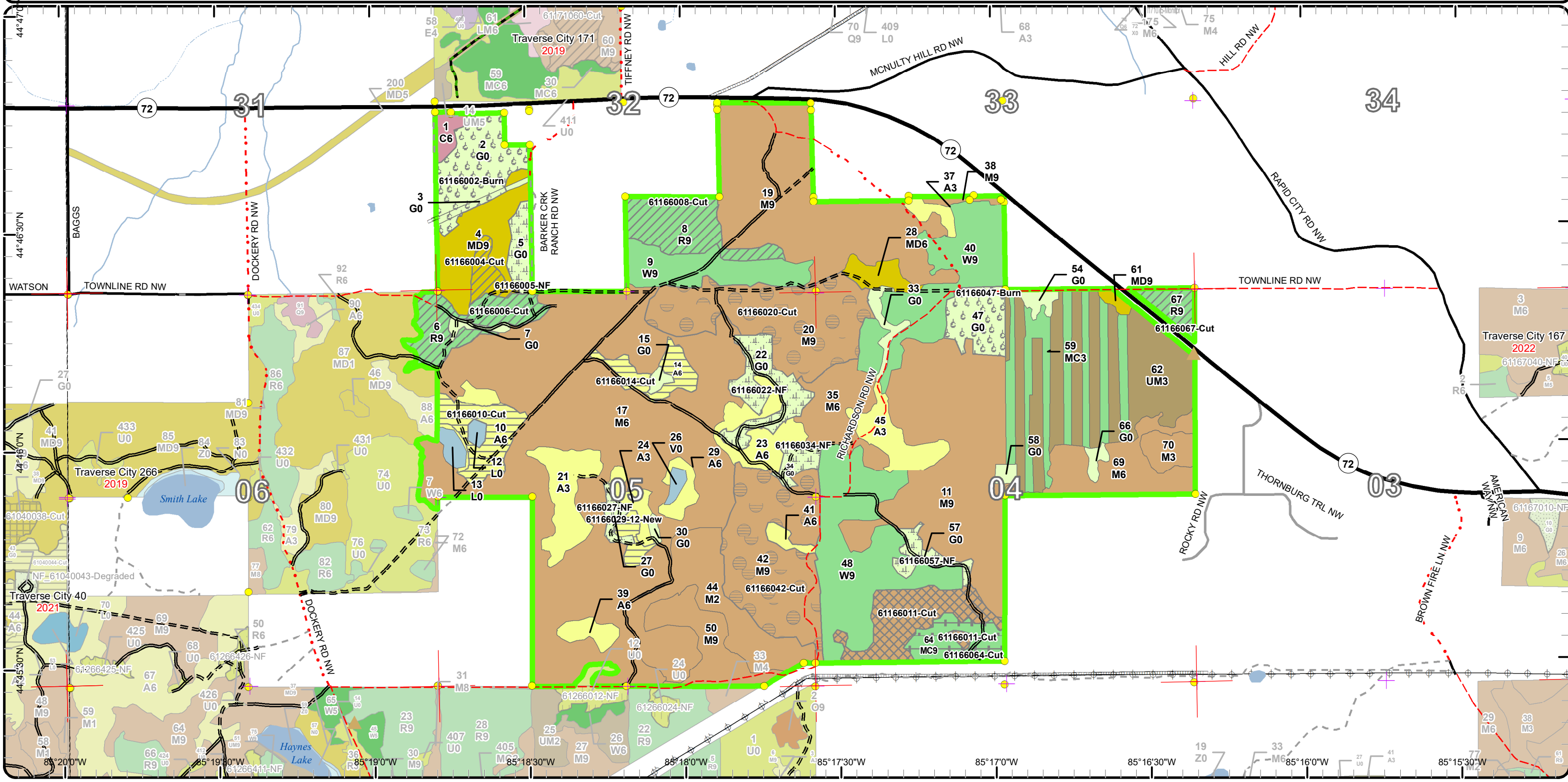
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 166
 T27N, R08W, Sec. 4-6
 T28N, R08W, Sec. 32, 33
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy
 Moraines
 YOE: 2025
 Acres: 1346.3 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
- .- County - Gravel Road
- .- County - Dirt Road (Seasonal)
- Private - Paved Road
- .- Private - Dirt / Gravel Road
- .- Designated Hiking Trails
- Designated Multi-Use Trails
- Designated RailTrail
- ▲ Berms
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Patch/Strip Cut (Femelschlag)
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub

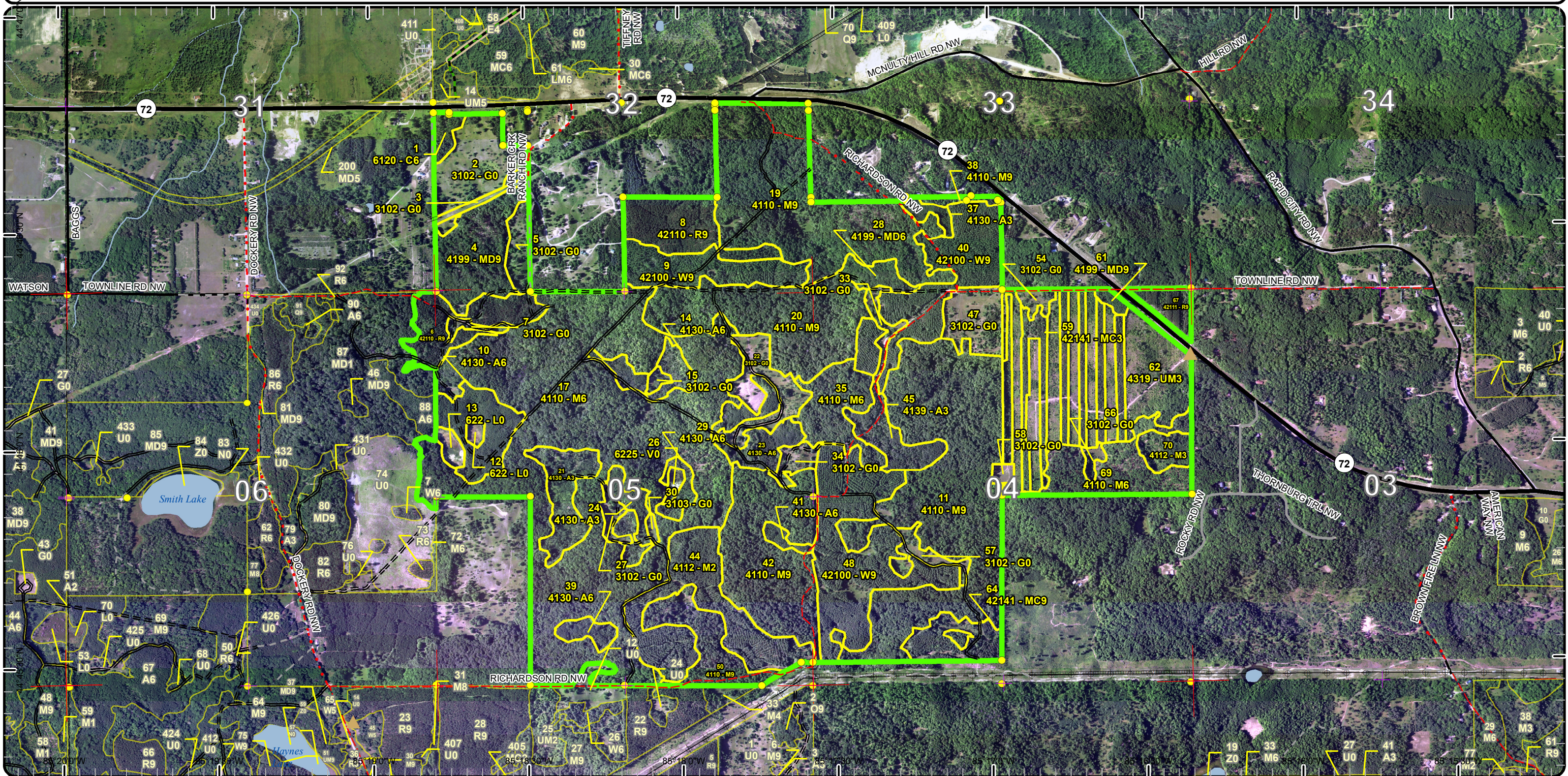


Stand Boundary Map

Compartment: 166
 T27N, R08W, Sec. 4-6
 T28N, R08W, Sec. 32, 33
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy
 Moraines
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- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
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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+	Unnever-Aged	Total
Aspen	0	14	19	10	20	36	11	0	0	0	0	0	0	0	0	0	0	0	109
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Herbaceous Openland	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106
Lowland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	0	0	0	7	0	0	0	2	0	0	0	0	0	0	0	32	41
Northern Hardwood	0	0	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	702	758
Planted Mixed Pines	0	0	0	39	0	0	0	15	0	0	0	0	0	0	0	0	0	0	54
Red Pine	0	0	0	0	0	0	0	48	8	0	0	0	0	0	0	0	0	0	56
Upland Mixed Forest	0	0	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
White Pine	0	0	0	0	0	0	0	133	0	0	0	0	0	0	0	0	0	0	132
Total	113	14	151	49	20	43	11	196	8	2	5	0	0	0	0	0	0	734	1344



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 166
Total Compartment Acres: 1,346

Commercial Harvest - 261
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	32	0	0	0	0	0	0	0	0	32
Mixed Upland Deciduous	0	0	0	0	7	0	0	0	0	7
Northern Hardwood	0	28	123	0	0	0	0	0	0	151
Planted Mixed Pines	0	0	0	0	0	15	0	0	0	15
Red Pine	0	0	0	0	56	0	0	0	0	56
Total	32	28	123	0	63	15	0	0	0	261

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	261	0	0	0	45	0	0	0	43	350
Next Step	0	0	0	0	0	0	183	0	45	228
Total	261	0	0	0	45	0	183	0	88	578



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:

2	61166002-Burn	29.2	3102 - Grass	Nonstocked		Unspec ified	Burn	Opening	31022 - Warm Season Grass		No
<p><u>Prescription</u> Burn at least once per entry cycle. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Maintain as needed with mowing, seeding of native grasses and forbs, burning, or removal of woody encroachment. May need to seed additional native grasses and forbs first to establish a diverse grass stand that will score high enough to burn. Burn line should exclude planted red pine and the several clumps of hardwoods along the north line and at the SW corner. Burn prescription also includes the part of stand 2 south of utility ROW.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
4	61166004-Cut	6.8	4199 - Other Mixed Upland Deciduous	Sawtimber Well	87	81-110	Harvest	Crown Thinning	4116 - Mixed N. Hardwood - Aspen	Uneven- Aged	No
<p><u>Prescription</u> area of heavy storm damage, the topography allows harvest to clean up down timber and release established regen. Mark stand to a residual BA of 60-70 square feet per acre remove, down trees, poorer formed trees and trees suppressing established regeneration.</p> <p><u>Specs:</u></p> <p>Include oak wilt spec during timber sale.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
5	61166005-NF	8.1	3102 - Grass	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Could augment herbaceous vegetation with low maintenance native spp via overseeding.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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6	61166006-Cut	23.0	42110 - Planted Red Pine	Sawtimber Well	61 141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription reduce stand BA to an average of 120 square feet per acre. Possible include oak wilt spec as well as bark slippage
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

8	61166008-Cut	25.3	42110 - Planted Red Pine	Sawtimber Well	62 171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription reduce stand BA to an average of 120 square feet per acre. Possible include oak wilt spec as well as bark slippage
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

10	61166010-Cut	17.3	4130 - Aspen	Poletimber Well	48 81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees 2 inches or larger in diameter. Buffer the bog stands according to BMP this will also serve as retention.
Specs:

Include grouse spec and oak wilt spec during timber sale.

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

Acceptable Aspen with a minor component of oak and mixed hardwood which meet minimum stocking requirements.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

11	61166011-Cut	27.6	4110 - Sugar Maple Association	Sawtimber Well	89 81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
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Prescription Mark stand to a residual BA of 80 square feet per acre by way of the states compleat marker guidelines. Put in 5-6 1 acre regen gaps.
Specs:

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

Acceptable sugar maple, red maple, basswood, oak
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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14	61166014-Cut	10.5	4130 - Aspen	Poletimber Well	50	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription cut all trees 2 inches or larger in diameter no retention to maximize regeneration.

Specs:

Include grouse spec and oak wilt specs for the harvest

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen with a minor component of oak and hardwood which meet minimal stocking requirements.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

20	61166020-Cut	61.2	4110 - Sugar Maple Association	Sawtimber Well	88	111-140	Harvest	Strip/Patch/Gap Cut (Femelschlag)	411 - Northern Hardwood	Uneven-Aged	No
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Prescription systematically establish regeneration gaps of 1-1.5 acres in size throughout the stand. Treat 20 percent of the stand roughly 10-12 gaps.

Specs:

Establish the skid trail to connect the gaps. Do not thin the stand between gaps. Cut all trees within the gap move brush to the outside perimeter

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable sugar maple and oak with a minor component of beech, red maple, basswood.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

22	61166022-NF	18.9	3102 - Grass	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Could augment herbaceous vegetation with low maintenance native spp via overseeding.

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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27	61166027-NF	4.0	3102 - Grass	Nonstocked		NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.

Next Step
Treatments:

Acceptable
Regen:

Other Could augment herbaceous vegetation with low maintenance native spp via overseeding.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

29	61166029-12-New	4.4	4130 - Aspen	Poletimber Well	47 51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all trees 2 inches or more in diameter. A large portion of this stand is on a very steep hill that hill side will serve as retention.
Specs:

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

Acceptable Aspen with a minor component of oak and mixed hardwood
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

34	61166034-NF	5.4	3102 - Grass	Nonstocked		NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.

Next Step
Treatments:

Acceptable
Regen:

Other Could augment herbaceous vegetation with low maintenance native spp via overseeding.
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
42	61166042-Cut	62.0	4110 - Sugar Maple Association	Sawtimber Well	86	111-140	Harvest	Strip/Patch/Gap Cut (Femelschlag)	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> systematically establish regeneration gaps of 1-1.5 acres in size throughout the stand. Treat 20 percent of the stand roughly 10-12 gaps.</p> <p><u>Specs:</u> Establish the skid trail to connect the gaps. Do not thin the stand between gaps. Cut all trees within the gap move brush to the outside perimeter. Work with the road commission to establish and cut the ROW.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Sugar maple, aspen, oak with a minor component of beech, basswood, iron wood and cherry.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
47	61166047-Burn	16.1	3102 - Grass	Nonstocked			Burn	Opening	31022 - Warm Season Grass		No
<p><u>Prescription</u> Burn at least once per entry cycle. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.</p> <p><u>Next Step</u> NonForestMgt, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Remove some woody vegetation to support establishment of diverse grass stand. May need to seed additional native grasses and forbs first to establish a diverse grass stand that will score high enough to burn. Would FRD include merchantable timber in a nearby sale?</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
57	61166057-NF	6.6	3102 - Grass	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Could augment herbaceous vegetation with low maintenance native spp via overseeding.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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64	61166064-Cut	15.2	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	61	51-80	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Cut all trees 6 inches and larger to Remove the existing stand overstory releasing established regeneration and promote more. Treat the entire stand to maximize regeneration.

Specs: Include oak wilt spec during timber sale

Next Step
Treatments:

Acceptable pines, hardwood and aspen
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

67	61166067-Cut	7.9	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	71	171- 200	Harvest	Crown Thinning	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
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Prescription Systematically thin the red pine strips making them one individual payment unit. Cut all Jack Pine. Mark the hardwood areas promoting growth on the residual stems to become good seed producing trees favor sugar maple.. Protect advanced maple regeneration.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

Total Treatment 349.5
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell : Examiner

Compartment: 166

Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions		
Acres	Available	With Condition	Not Available	2F	3J	
110	101	0	9	Aspen	8	1
2	2	0	0	Bog	0	
5	5	0	0	Cedar		
107	107	0	0	Herbaceous Openland		
5	5	0	0	Lowland Shrub		
42	42	0	0	Mixed Upland Deciduous		
758	731	0	27	Northern Hardwood	26	1
54	54	0	0	Planted Mixed Pines		
56	56	0	0	Red Pine		
76	76	0	0	Upland Mixed Forest		
133	133	0	0	White Pine		
1,347	1,311		36	Total Forested Acres	34	1
	97%		3%	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	2F: Too steep	2	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Steep hill above MDOT Lake Skegemog scenic overlook. This is the approximate area that could not be cut as part of Badger Pass Hardwoods.							
3	Unavailable	2F: Too steep	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Paul Roell : Examiner

Compartment: 166
Year of Entry: 2025

5	Unavailable	2F: Too steep	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2F: Too steep	17	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 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.
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	6120 - Lowland Cedar	Poletimber Well	4.7	90		N/A																																				
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2	3102 - Grass	Nonstocked	27.1		Unspecified	No	few scattered white pine, aspen, cherry, sugar maple, red pine and apple trees WLD 4/6/23 - Little bluestem, skw, poverty grass, cladonia, cherry, rubus spp, goldenrod, apple. Little bluestem field would make a good burn. Next to M-72
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3	3102 - Grass	Nonstocked	2.7			Managed Opening	Electric line.
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4	4199 - Other Mixed Upland Deciduous	Sawtimber Well	32.4	87	81-110	N/A																																																																									
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5	3102 - Grass	Nonstocked	8.1			No	
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6	42110 - Planted Red Pine	Sawtimber Well	23.0	61	141-170	N/A	3rd row thinned with adjacent compartment in 2007. Sale #077-05.																		
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7	3102 - Grass	Nonstocked	2.5			No	
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8	42110 - Planted Red Pine	Sawtimber Well	25.3	62	171-200	N/A	Thinned in 2002. Sale #53-99.																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
9	42100 - Planted White Pine	Sawtimber Well	25.1	62	51-80	N/A	-Thinned in 2002. Sale #53-99.- Row thinned in 2019, take 2 rows and leave 2. Quite a bit of maple in the understory.																																										
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10	4130 - Aspen	Poletimber Well	21.1	48	81-110	N/A																																											
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11	4110 - Sugar Maple Association	Sawtimber Well	134.3	89	81-110	N/A	Thinned in 2009. Sale #61-001-05-01 Townline Road Hardwood. Several large areas of blow down from storms throughout 2015-2018.																																										
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12	622 - Lowland Shrub	Nonstocked	1.8		Immature	No																																											
13	622 - Lowland Shrub	Nonstocked	3.5			No																																											
14	4130 - Aspen	Poletimber Well	10.5	50	81-110	N/A																																											
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15	3102 - Grass	Nonstocked	1.7			No	Steep hill																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
17	4110 - Sugar Maple Association	Poletimber Well	265.7	86	51-80	N/A	Stand was cut under 8 Wide Hardwoods 61-133-15-01 between 2017 and 2020. Stand has been opened up by recent harvest and all of the storm damage. Understory is full of iron wood and beech																																										
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19	4110 - Sugar Maple Association	Sawtimber Well	99.8	86	51-80	N/A	Thinned as part of Badger Pass Hardwoods, 61-148-15, in 2015-2018. Also suffered severe wind damage from storm in August 2015 after marking. Contract was modified to include damaged trees so BAs will be lower in some areas. Excluded one hillside south of scenic overlook because it was too steep. Dense beech and ironwood regeneration issues.																																										
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20	4110 - Sugar Maple Association	Sawtimber Well	61.2	88	111-140	N/A	Thinned in 2001. Sale #58-99.																																										
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21	4130 - Aspen	Sapling Well	18.7	13	Immature	N/A	Cut as Richardson Rd Aspen 61-075-05-01 some oak were left																																										
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Red Oak	5	Pole/Sapling	6																																														
22	3102 - Grass	Nonstocked	18.9			No																																											
23	4130 - Aspen	Poletimber Well	16.9	32	51-80	N/A	Cut in 1990. Sale #12-89. Small finger of a hardwood on north tip. Should hold ten more years expand where possible into the adjacent hardwood																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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24 4130 - Aspen Sapling Well 6.1 22 Immature N/A Sale #44-99

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	5	Sapling	3	
Red Oak	10	Sapling	3	
Bigtooth Aspen	60	Sapling	4	22
Beech	10	Sapling	2	
Black Cherry	5	Sapling	3	
Ironwood	10	Sapling	2	

26 6225 - Bog Nonstocked 2.0 No

27 3102 - Grass Nonstocked 4.0 No

28 4199 - Other Mixed Upland Deciduous Poletimber Well 7.1 47 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Ironwood	25	Sapling	4	
Red Oak	30	Pole/Log/Sap	8	
Sugar Maple	40	Pole/Sapling	6	47
Bigtooth Aspen	5	Pole	8	

29 4130 - Aspen Poletimber Well 9.5 47 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	10	Pole/Sapling	6		Beech	Low	Variable	Sapling
Red Oak	10	Pole/Log	8					
Bigtooth Aspen	75	Pole	8	47				
Ironwood	5	Sapling	4					

30 3103 - Rubus-Fern Nonstocked 1.1 No

33 3102 - Grass Nonstocked 4.6 No

34 3102 - Grass Nonstocked 5.4 No

35 4110 - Sugar Maple Association Poletimber Well 23.2 90 51-80 N/A

Stand thinned in 2020 as a part of '8 Wide Hardwoods' Some rolling to steep terrain. Pretty good quality sugar maple. Concerns of beech and ironwood taking over the understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Log	12		Ironwood	Medium	Variable	Sapling
Sugar Maple	90	Pole/Log	8	90	Beech	Medium	Variable	Sapling
Basswood	7	Log/Pole	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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37 4130 - Aspen Sapling Well 4.0 21 Immature N/A Sale #44-99

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	100	Sapling/Pole	4	21	Red Oak	Low	5 - 10 feet	Sapling
					Beech	Low	5 - 10 feet	Sapling
					Sugar Maple	Low	5 - 10 feet	Sapling

38 4110 - Sugar Maple Association Sawtimber Well 2.6 70 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	83	Log/Pole	14	70	Sugar Maple	High	Variable	Sapling
Basswood	10	Log/Pole	16		Ironwood	Medium	Variable	Sapling
Red Oak	5	XLog/Log	18		Beech	Medium	Variable	Sapling
Beech	2	Log/Pole	12					

39 4130 - Aspen Poletimber Well 5.6 45 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	5	Log/Pole	12		Beech	Low	Variable	Sapling
Beech	5	Sapling	3					
Bigtooth Aspen	70	Pole/Log	8	45				
Ironwood	10	Sapling	3					
Black Cherry	10	Sapling	3					

40 42100 - Planted White Pine Sawtimber Well 45.1 61 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	100	Log/Pole	10	61	Beech	Medium	Variable	Sapling
					Oak (spp.)	Low	Variable	Sapling
					Sugar Maple	Low	Variable	Sapling

- Stand thinned for a second time 2019. Used a cut 2 rows leave 2 pattern. Some maple regen present. The cut rows are mostly raspberry and beech hopefully more desirable regeneration starts to establish itself. look at in ten years might have to restart to red pine

41 4130 - Aspen Poletimber Well 2.9 34 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	75	Pole	7	34	Beech	Low	< 5 feet	Sapling
Red Oak	5	Pole	6		Ironwood	High	10 - 20 feet	Sapling
Black Cherry	5	Sapling	3					
White Ash	2	Pole	6					
Ironwood	13	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
42	4110 - Sugar Maple Association	Sawtimber Well	62.0	86	111-140	N/A	Thinned in 91 and then Thinned in 2010. Sale #030-09.																																						
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44	4112 - Maple, Beech, Cherry Association	Sapling Medium	48.3	13	Immature	N/A	- First thinning in 2009. Sale #076-05.- Overstory removal in 2021, loggers did a pretty good job saving the maple understorey. . Hilly terrain.																																						
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45	4139 - Aspen, Mixed Deciduous	Sapling Well	14.3	3	Immature	N/A	Stand had heavy wind damage from a wind storm in 2015. Stand was final harvested in 2020 '8 wide Hardwoods'. We tried to save as much of the advanced maple regen as possible.																																						
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47	3102 - Grass	Nonstocked	16.1			No																																							
48	42100 - Planted White Pine	Sawtimber Well	62.3	61	51-80	N/A	- Stand was thinned for a second time in 2019. Used a cut 2 row leave 2 pattern. Quite a bit of maple in the understorey. Fairly hilly terrain.																																						
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50	4110 - Sugar Maple Association	Sawtimber Well	22.9	84	81-110	N/A	Thinned in 2011. Sale #030-09.																																						
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54	3102 - Grass	Nonstocked	3.5		Immature	No																																							
57	3102 - Grass	Nonstocked	6.6			No																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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58	3102 - Grass	Nonstocked	1.9		Unspecified	No	Dry hole well site. Abandon fall 2001.
59	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	38.9	28	Immature	N/A	Red pine was planted in 1994. Jack pine seeded in and dominates the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Oak	5	Sapling/Pole	4	
Jack Pine	45	Sapling/Pole	4	28
Black Cherry	15	Sapling	3	
Black Cherry	5	Sapling/Pole	4	
Red Pine	30	Sapling	3	

61	4199 - Other Mixed Upland Deciduous	Sawtimber Well	2.2	81	111-140	N/A	Along M-72.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	2	Pole	8	
Sugar Maple	3	XLog/Log	18	
Black Locust	95	Log/Pole	12	81

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	Variable	Sapling

62	4319 - Mixed Upland Forest	Sapling Well	76.0	14	Immature	N/A	cut in 2006-2007 Townline Red Pine and Planted in 2008 & 2010.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	5	Sapling	1	
Ironwood	5	Sapling	1	
Sugar Maple	5	Sapling	1	
Beech	30	Sapling	1	
Black Cherry	10	Sapling	1	
Red Pine	45	Sapling	2	14

64	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	15.2	61	51-80	N/A	- Very hilly terrain. - Stand was thinned for a second time in 2019. Used a cut 2 rows leave 2 pattern.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	15	Pole	8	
Sugar Maple	5	XLog/Log	18	
Red Pine	35	Log/Pole	11	
White Pine	45	Log/Pole	12	61

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
Beech	Low	< 5 feet	Sapling
White Pine	Low	Variable	Sapling

66	3102 - Grass	Nonstocked	2.2			No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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67 42111 - Planted Red Pine, Mixed Deciduous Sawtimber Well 7.9 71 171-200 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	10	Pole/Log	8	
Sugar Maple	5	Log/Pole	10	
Red Pine	65	Log/Pole	12	71
Black Locust	20	Pole/Log	8	

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

69 4110 - Sugar Maple Association Poletimber Well 29.8 86 81-110 N/A

Thinned with Badger Pass, 61-148-15-01. Spring 2016. Significant wind damage from storm in August 2015.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	80	Pole/Log	8	86
Basswood	10	Pole/Log	8	
Beech	5	Pole/Log	8	
Black Cherry	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	High	Variable	Sapling
Beech	High	Variable	Sapling

70 4112 - Maple, Beech, Cherry Association Sapling Well 8.0 15 Immature N/A

Red pine was removed in 2007, Sale#18-05.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	20	Sapling	2	
Beech	30	Sapling	3	
Ironwood	15	Sapling	1	
Sugar Maple	35	Sapling/Pole	2	15