



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61105

Entry Year 2025

Acreage: 2,004

County Kalkaska

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Thomas Peterson III

Legal Description:

T28N, R5W, Sec's. 10, 11 & 12

Identified Planning Goals:

Located in the Grayling Ice Contact Management Area, and includes Kalkaska, Crawford and Otsego counties and contains 55,348 acres of state forest. Management in the Grayling Ice Contact management area (MA) 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 timber products, enhance game and non-game wildlife habitat, protect areas of unique character, such as the historic Deward Tract, and provide for forest-based recreational uses. With about 3% of the MA being lowland, management activities will be minimally constrained. Expected trends within the next decade are increased recreational pressure, managing oil and gas development, introduced pests and diseases and the difficulty in regenerating oak.

Soil and topography:

Soils are Island Lake, Rubicon and Kalkaska Sands. The terrain is flat to very steep, ranging anywhere from 6 - 35% slope.

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

This compartment is a solid block of State Land. There is oil and gas development in the eastern edge of the compartment along Deward Road. Land use is recreation with the ATV trail and route running through the compartment and the snowmobile trail just south of the compartment. South Crooked Lake is in the western edge of the compartment, just west of Blue Lake Road and is a very shallow lake, ~15 feet.

Unique Natural Features:

None listed within compartment.

Archeological, Historical, and Cultural Features:

Old logging camps.

Special Management Designations or Considerations:

Whithin the Deward tract, East side of Deward Road, it is unlawful to use or operate a motorized vehicle except on designated forest roads & to camp further than 50 feet from roads open to motorized vehicle use.

Watershed and Fisheries Considerations:

South Crooked Lake lies within Compartment 105. It is a small natural lake, with populations of largemouth bass, bluegill, and pumpkinseed sunfish. BMPs should be used if working near the lake.

Wildlife Habitat Considerations:

The bulk of this compartment falls on a series of ice contact ridges characterized by steep slopes and well drained sandy soils. Records of presttlement vegetation show this type of surface geology supported beech/maple forests (with some upland conifer dominated) forests. Northern hardwoods with scattered den and mast producing trees and shrubs provide habitat for a variety of wildlife species including pileated woodpeckers, broad-winged hawks, gray fox, four toed salamanders, white-tail deer, and wild turkeys.

Most of the openings and shrub communities in these ice contact ridges are the result of frost pockets and cold air drainages and typically need no maintenance. However, fire most likely ran through some of these low spots helping to reduce cold-resistant woody encroachment. Several openings that have a good cover of little bluestem and other grasses are prescribed for burning. As well, several shrub stands have been prescribed removal of select trees to set back encroachment. One of these latter stands was a Wildlife Division created opening from the 1970s. Many wildlife species take advantage of open and semi-open habitat, including white-tail deer, red fox, badger, Eastern bluebird, Eastern hognose snake, and broad-winged hawk.

The east and west ends of the compartment drop off into narrow outwash channels. Well drained sands in these formations typically supported mixed white pine forests with some northern hardwoods and scattered wetlands. Fires occasionally ran through outwash channels with the potential to sustain early successional communities.

Mineral Resource and Development Concerns and/or Restrictions

Sections 10-12, T28N–R5W, Kalkaska County

There is no known metallic mineral potential in this part of the state. The nearest active sand/gravel pit is more than five miles away. There may be some potential for sand & gravel within the compartment, but demand for aggregate material may be low in the area. The compartment is on the edge of the current extent of the Antrim Shale gas play. No Antrim production has occurred in the compartment and future Antrim wells are unlikely. There has been extensive exploration for and production from Silurian reefs in the area. Most of the test wells in the compartment were dry holes, but there were four that were successful, three of which have since been plugged and the third is shut in. Potential for additional reef discoveries beneath the compartment is considered low but cannot be ruled out without access to industry data. There may be potential for future underground gas storage and/or CO2 sequestration projects. All State-owned mineral rights are currently leased and held by the one aforementioned shut-in well.

Vehicle Access:

No new roads needed

Survey Needs:

No surveys needed.

Recreational Facilities and Opportunities:

A large segment of the Kalkaska ORV trail runs East/West & North/South in this compartment. Proposed timber management activities should include trail protection specifications to reduce impacts, as well as serve as an example of how silviculturally sound timber harvesting practices can co-exist, and often improve recreation and hunting experiences for future generations. Treatments proposed directly adjacent to the ORV trail tread should include either a “flush cut” specification, or be stumped high enough (3 feet) to avoid being hidden by perennial flora (ferns).

Fire Protection:

Fire Protection is out of Kalkaska Field Office. Compartment is on Kalkaska County / Crawford County Line. Grayling Field Office is nearby for any extra needs for fire suppression.

Additional Compartment Information:

The following reports from the Inventory are attached:

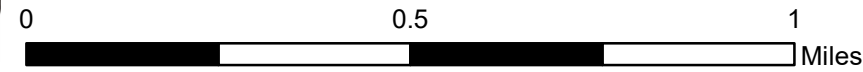
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

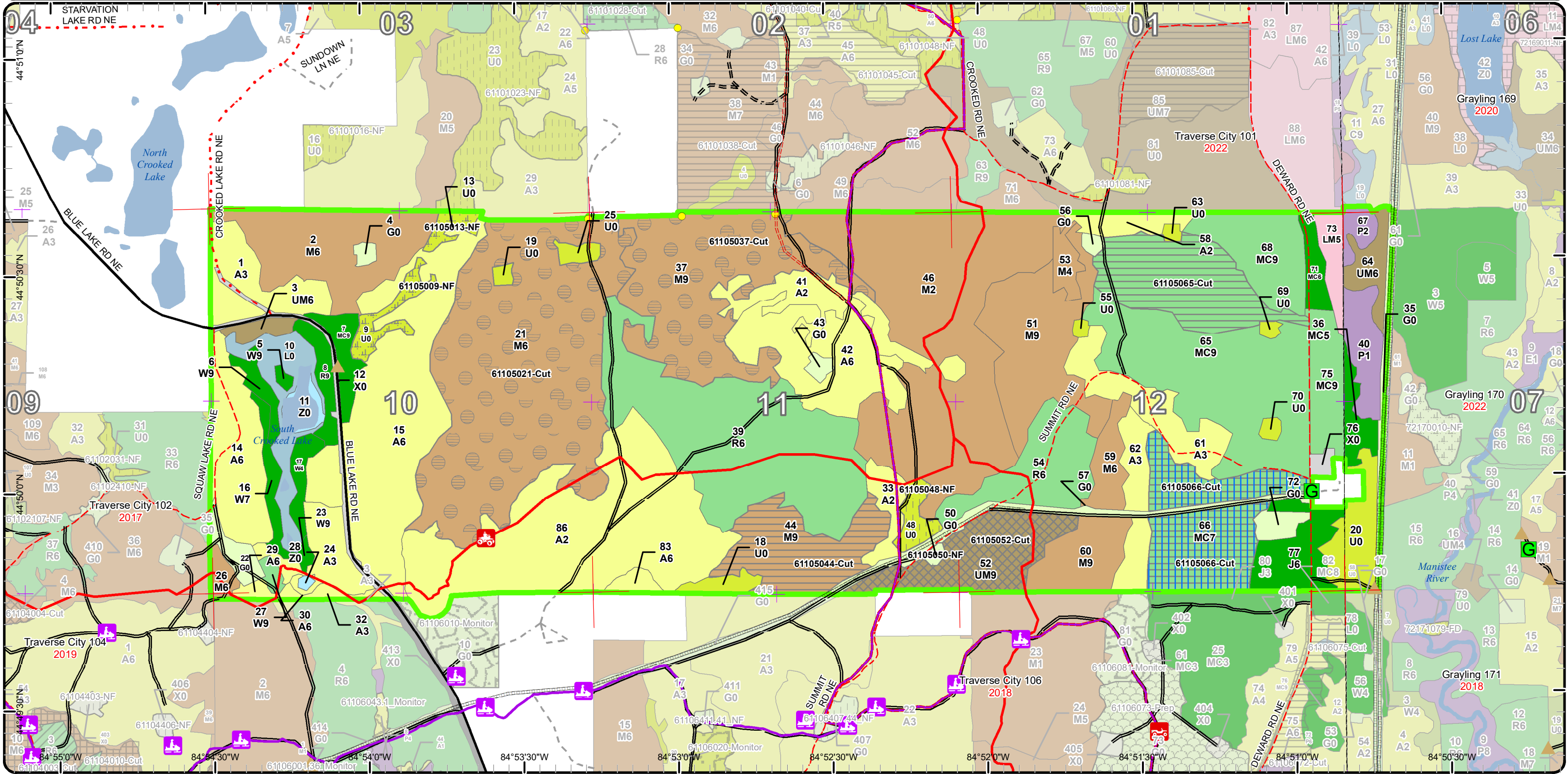
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 105
 T28N-R5W, Sec. 10, 11 & 12
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy
 Moraines
 YOE: 2025
 Acres: 2003.7 GIS Calculated
 Examiner: Thomas Peterson III
 Map Revised: 5/2/2023
 Map Phase: Web-Post

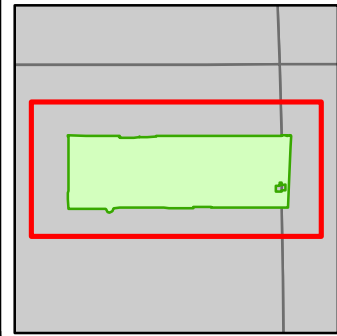
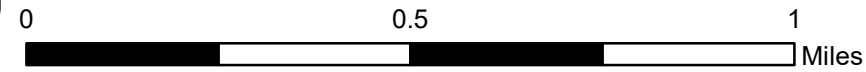


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🚲 ORV Trails
- 🚲 ORV Routes
- 🚲 Snowmobile Trails
- Designated ATV Trails
- - - Designated ORV Route
- Designated Snowmobile Trails
- ▲ Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Patch/Strip Cut (Femelschlag)
- Seed Tree (w/Reserves)
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

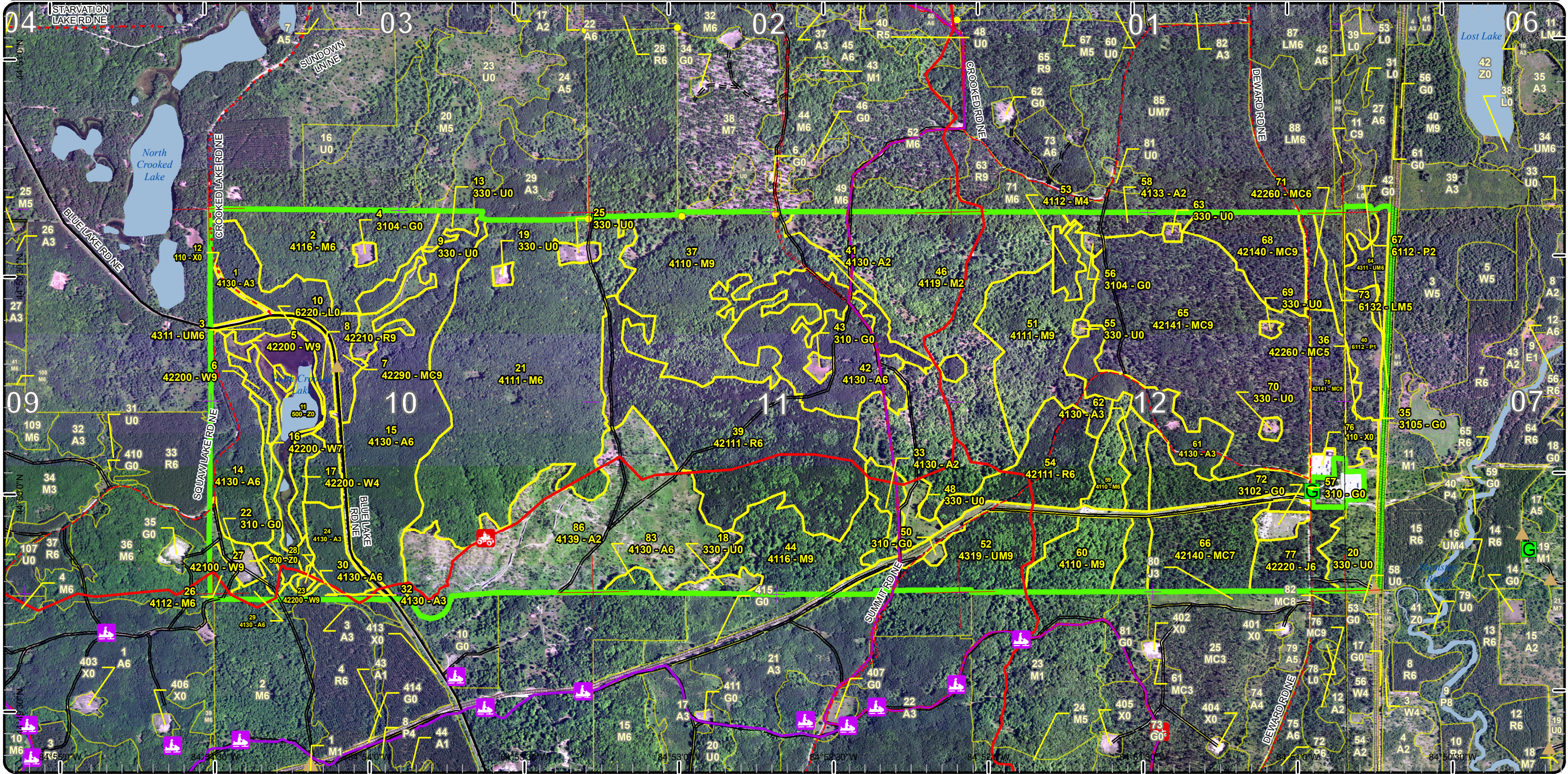


Stand Boundary Map

Compartment: 105
 T28N-R5W, Sec. 10, 11 & 12
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 Mgmt Area: Kalkaska Sandy
 Moraines
 YOE: 2025
 Acres: 2003.7 GIS Calculated
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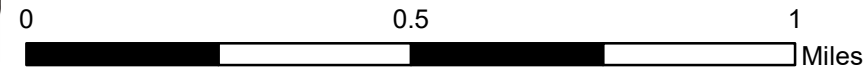


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- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Stand Boundaries
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
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- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines

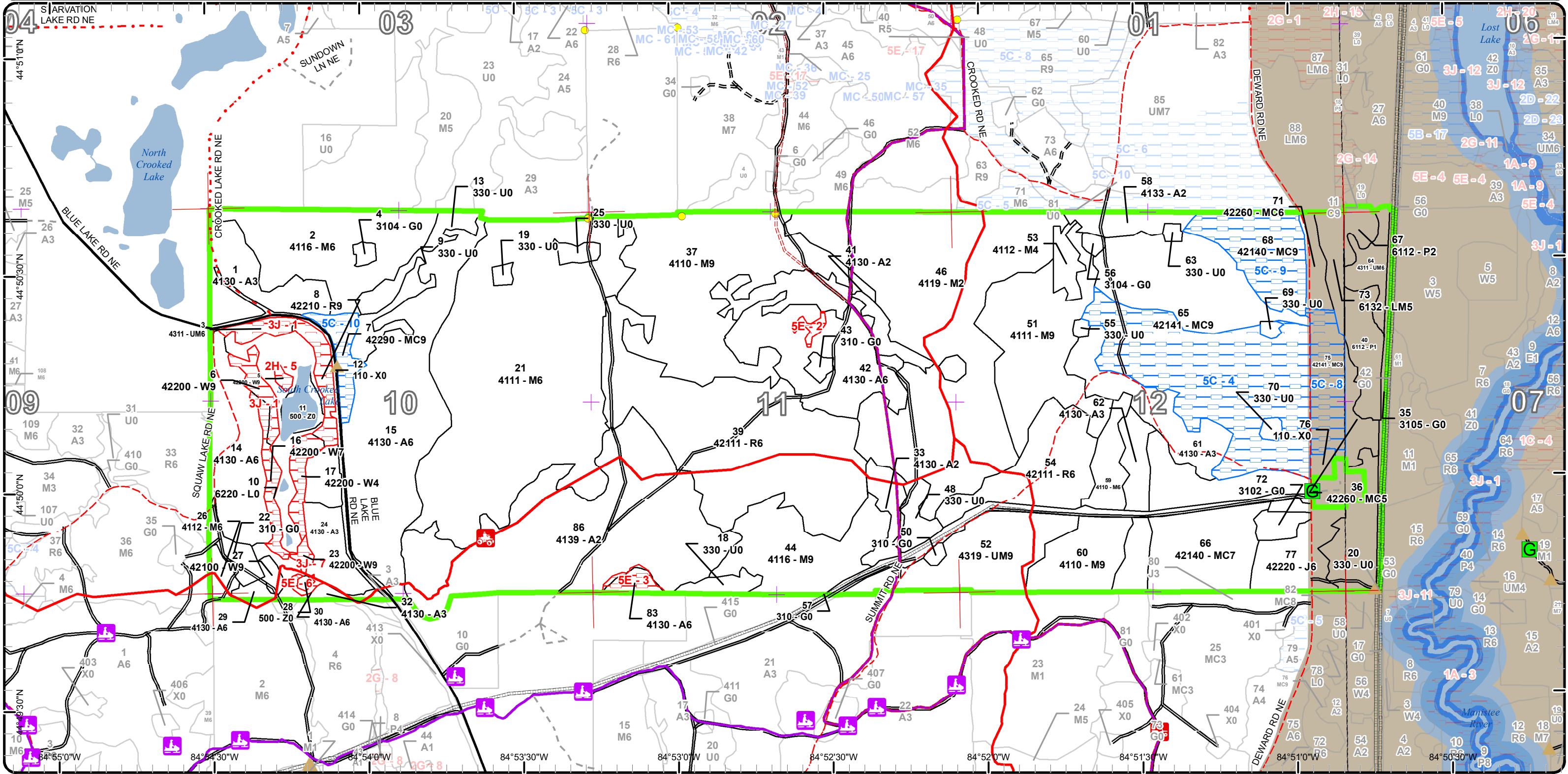


Special Conservation Areas

Compartment: 105
 T28N-R5W, Sec. 10, 11 & 12
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy
 Moraines
 YOE: 2025
 Acres: 2003.7 GIS Calculated
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- Designated ATV Trails
- - - Designated ORV Route
- Designated Snowmobile Trails
- ▲ Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Dedicated Management Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention



Report 1 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit

Compartment 105 Year of Entry 2025

Thomas Peterson III : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	214	4	48	198	41	1	4	0	0	0	0	0	0	0	0	0	3	513
Herbaceous Openland	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Jack Pine	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	24
Low-Density Trees	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61
Lowland Aspen/Balsam Poplar	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Lowland Mixed Forest	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Shrub	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Natural Mixed Pines	0	0	0	0	0	8	9	10	0	0	0	0	0	0	0	0	0	0	27
Northern Hardwood	0	0	0	0	0	176	0	0	0	33	0	0	0	0	0	0	0	501	710
Planted Mixed Pines	0	0	0	0	0	0	0	0	275	0	0	0	0	0	0	0	0	0	275
Red Pine	0	0	0	0	131	40	9	0	0	0	0	0	0	0	0	0	0	0	180
Upland Mixed Forest	0	0	0	0	0	0	17	44	0	0	0	0	0	0	0	0	0	0	60
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
White Pine	0	0	0	0	0	15	11	0	0	0	1	0	0	0	0	0	0	0	27
Total	154	214	4	48	352	315	47	58	0	308	1	0	0	0	0	0	0	504	2003



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 105
Total Compartment Acres: 2,004

Commercial Harvest - 523
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
Northern Hardwood	47	0	314	0	0	0	0	0	0	361
Planted Mixed Pines	56	0	0	63	0	0	0	0	0	119
Upland Mixed Forest	0	44	0	0	0	0	0	0	0	44
Total	102	44	314	63	0	0	0	0	0	523

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	523	0	0	0	0	0	0	24	0	547
Next Step	0	524	210	0	10	0	733	0	0	1476
Total	523	524	210	0	10	0	733	0	24	2023



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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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Proposed Treatments:

9	61105009-NF	9.5	330 - Low-Density Trees	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	3205 - Mixed Upland Shrub	No
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Prescription This opening is a WLD opening created in the 1970s. Selectively fell woody encroachment to maintain upland brush/grassland community.
Specs: Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. As needed, treat site to remove exotics. Then seed to site appropriate grasses for wildlife food and cover. Consider seeding in native grasses and forbs.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

13	61105013-NF	5.3	330 - Low-Density Trees	Nonstocked			NonForestMgt	Fruit Tree/Shrub Planting	3205 - Mixed Upland Shrub	No
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Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. As needed, treat site to remove exotics. Then seed to site appropriate grasses for wildlife food and cover. Consider seeding in native grasses and forbs.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

21	61105021-Cut	209.8	4111 - S.Maple, Hard Mast Association	Poletimber Well	60	81-110	Harvest	Strip/Patch/Gap Cut (Femelschlag)	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Create gaps in stand. The total acreage of the gaps should be between 8-15 % of total acres of the stand. These gaps should be spaced out systematically throughout stand, target beech regeneration pockets / beech overstory pockets for gap placement. Gaps should vary in size from 1 acre to no bigger than 4 acres. All tops must be removed from gaps during harvest. These tops can be piled on edge of gaps in order to promote hardwoods and protect sugar maple regeneration from browsing or chipped and used by producer. After harvesting the gaps, the gaps will be put on the cultivation plan of work for planting. Any of the following treatments are approved and can be utilized after harvest; roller chopping, site prep spray, release spray, trenching, or scarification. These gaps will be planted with any combination of red pine, white pine, or oak.

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Not a regeneration cut, except for gaps created during timber sale. These gaps will be planted to any combination of white pine, red pine, or 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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37	61105037-Cut	104.2	4110 - Sugar Maple Association	Sawtimber Well	60	81-110	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 12-18 percent of the stand roughly 12-18 gaps.
Specs: Establish the skid trail to connect the gaps. Do not thin the stand between gaps. Cut all trees within the gap. Tops can be stacked outside of gap or chipped by producer. Any of the following treatments can be implemented after harvest to get desirable species: Scarification, trenching, roller chopping, spraying to kill beech / ironwood regeneration or any other means needed to accomplish reforestation goals.

Next Step SitePrep, Scarification; Monitoring, Other - Specify

Treatments:

Acceptable Regen: Fully Stocked Regeneration gaps, with sugar maple, basswood, red maple, Black Cherry or any other desirable species.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

44	61105044-Cut	46.8	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	60	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Clearcut stand with retention. Clearcut stand leave retention on ridge with decent hardwood crop trees established in it. Cut all tree 2 inches or more in DBH. In addition to retention leave all maple trees 8 inches and under and mark to leave some big wolfy sugar maples as seed source for stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Fully Stocked Aspen Stand, With any component of sugar maple, red maple, cherry or basswood.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

48	61105048-NF	8.1	330 - Low-Density Trees	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
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Prescription In previous years this opening had an excellent crop of little bluestem. Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs, burning, or removal of woody encroachment.

Next Step Burn, Opening

Treatments:

Acceptable 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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50	61105050-NF	1.4	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous	No
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Prescription Specs: In previous years this opening had an excellent crop of little bluestem. Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs, burning, or removal of woody encroachment.

Next Step Treatments: Burn, Opening

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

52	61105052-Cut	43.6	4319 - Mixed Upland Forest	Sawtimber Well	60	111-140	Harvest	Single Tree Selection	42211 - Natural Red Pine, Mixed Deciduous	Uneven-Aged	No
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Prescription Specs: Thin stand down to an average of 80 BA. Red Pine areas where BA is currently very high do not take over half the volume out at any given spot within stand. Where the stand is dominated to hardwoods thin stand down to 80. Some spots are currently at 80 walk through these areas. Add 3-6 gaps in hardwood portion of stand that are between 1/2 to 1 acre in size. Shoot for all gaps to equal about 10 % of the stand removed.

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

Acceptable Regen: Minimal stocking of Red Pine, Sugar Maple, Basswood, cherry, aspen or white pine.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

65	61105065-Cut	55.6	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	84	1-50	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Specs: Clearcut stand with retention. Clearcut stand and leave standard area retention in stand. Cut all trees down to 2 inches in stand, except do not cut any pine or oak under 6 inches in stand. Oak and pine should be protected during harvest. In addition, mark to leave a few scattered trees for seed source in stand.

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

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

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
66 61105066-Cut	63.1	42140 - Planted Mixed Pine	Sawtimber Poor	84	1-50	Harvest	Seed Tree with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Seed Tree with retention. Leave standard area retention in stand. Protect all advanced regeneration during harvest. Mark to leave less than</p> <p><u>Specs:</u> 1 tree per acre as a seed source and vertical structure.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fully Stocked stand of aspen, oak, red maple and any amount of pine is acceptable.</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>										

Total Treatment Acreage Proposed: 547.4

Report 4 – Site Conditions

Traverse City Mgt. Unit
Thomas Peterson III : Examiner

Compartment: 105
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2H	3J	5E
		With Condition	Not Available					
513	505	0	8	Aspen				8
47	47	0	0	Herbaceous Openland				
24	24	0	0	Jack Pine				
62	62	0	0	Low-Density Trees				
23	23	0	0	Lowland Aspen/Balsam Poplar				
10	10	0	0	Lowland Mixed Forest				
23	23	0	0	Lowland Shrub				
28	17	10	0	Natural Mixed Pines	10			
709	709	0	0	Northern Hardwood				
275	119	156	0	Planted Mixed Pines	156			
180	170	0	9	Red Pine			9	
60	55	0	5	Upland Mixed Forest			5	
14	14	0	0	Urban				
9	9	0	0	Water				
27	3	0	25	White Pine		1	23	
2,004	1,790	167	47	Total Forested Acres	167	1	37	8
	89%	8%	2%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Thomas Peterson III : Examiner

Compartment: 105
Year of Entry: 2025

3	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	102	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	3K: Rare or unique landforms	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments: Stand is Island in Crooked Lake.							
6	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Thomas Peterson III : Examiner

Compartment: 105
Year of Entry: 2025

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	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.
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	4130 - Aspen	Sapling Well	28.4	25	Immature	N/A	2023 - Stand has some scattered larger white pine. Aspen still sapling size at this time. 2013 - Cut in 1997. Sale #66-95.																																																																	
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2	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	59.5	60	81-110	N/A	2023 - Lots of aspen clones scattered throughout stand. Stand has rolling hills. Hardwood is mostly multi stem trees with some nice poles coming in. Stand should bump up to log size next year of entry.																																																																	
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3	4311 - Pine, Aspen Mix	Poletimber Well	5.0	57	1-50	N/A	2023 - Stand is in-between Blue Lake Road and South Crooked Lake Road. Stand appears to have all aspen and maple cut out from past treatment with white pine and oak being much larger at this time. No records could be found of past cut. Small inlet stream to crooked lakes runs through this stand.																																																																	
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4	3104 - Degraded	Nonstocked	2.0				2023 - Abandon oil well pad.																																																																	
5	42200 - Natural White Pine	Sawtimber Well	1.3	90	111-140	N/A	2023 - Stand is an island in South Crooked Lake. Stand in accessible to cut. Stand Vegetation was a guess from shore of Crooked Lake																																																																	
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7	42290 - Natural Mixed Pine	Sawtimber Well	10.3	69	111-140	N/A	2023 - Stand is sitting at a basal area around 120. Leave stand till it hits basal area of 160 than thin it.																																						
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8	42210 - Natural Red Pine	Sawtimber Well	9.2	57	111-140	N/A	2023 - Stand is between Blue Lake Road and South Crooked Lake. Stand drops off on steep hill to South Crooked Lake. Maybe could thin the flat top with stand nearby in future. BMP guidelines will need to be followed for any future harvest in this stand.																																						
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9	330 - Low-Density Trees	Nonstocked	9.5			Managed Opening	2023 - Stand has trees slowly seeding in. Scattered black cherry with some steep bowls within it.																																						
10	6220 - Alder/willow	Nonstocked	23.3		Unspecified	No	2023 - Wetland that surround South crooked lake. Stand does have a few scattered trees on edge of it.																																						
11	500 - Water	Nonstocked	7.9			No	2023 - South Crooked Lake.																																						
12	110 - Low Intensity Urban	Nonstocked	10.7		Unspecified	No	2023 - Blue lake road																																						
13	330 - Low-Density Trees	Nonstocked	5.3			Managed Opening	2023 aspen is creeping into stand. stand has scattered black cherry in it.																																						
14	4130 - Aspen	Poletimber Well	40.9	47	51-80	N/A	2023 - Stand is 47 years old and could be harvested at this time. Stand should be fine for another 10 years putting on good growth.																																						
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15	4130 - Aspen	Poletimber Well	114.3	38	51-80	N/A	2023 - Stand has transitioned into pole stand this year of entry. Parts of stand look like failed red pine planting.																																						
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16	42200 - Natural White Pine	Sawtimber Poor	7.9	40	1-50	N/A	2023 - Stand is adjacent to South Crooked Lake. Part of stand is steep hill down to lake. Stand cannot be cut do to BMP guidelines and protecting South Crooked Lake.																																						
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17	42200 - Natural White Pine	Poletimber Poor	7.1	40	1-50	N/A	2023 - Stand is adjacent to South Crooked Lake. Part of stand is steep hill down to lake. Stand cannot be cut do to BMP guidelines and protecting South Crooked Lake.																																						
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18	330 - Low-Density Trees	Nonstocked	5.8	0	Unspecified	Managed Opening	2023 - Stand has a few scattered trees and his is hilly.																																						
19	330 - Low-Density Trees	Nonstocked	1.7				2023 - Abandon oil well pad																																						
20	330 - Low-Density Trees	Nonstocked	21.5	0	Immature	Managed Opening	2023 - Stand is filling in with White Pine, Jack Pine and black cherry. Stand has old large pine stumps in it. 2013 - Sedge field with scattered stunted black cherry and bushy white pine. There are a few small aspen clones on the north end. Manistee river fishing access with parking area on the south end.																																						
21	4111 - S.Maple, Hard Mast Association	Poletimber Well	209.8	60	81-110	N/A	2023 - Stand current Basal Area is 87. Stand has some areas of decent sugar maple poles scattered throughout it. Stand has a good amount of beech in it as well, beech is starting to show mortality at this time. The understory has a high amount of beech in some areas as well. Stand has rolling hills throughout it. The quality of timber is better on the east side of stand, with more of an aspen component on the western side of stand.																																						
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22	310 - Herbaceous Openland	Nonstocked	7.6				2023 - Abandon oil well pad.plugged in 2003																																						
23	42200 - Natural White Pine	Sawtimber Well	1.9	57	111-140	N/A	2023 - Stand is adjacent to South Crooked Lake. Part of stand is steep hill down to lake. Stand cannot be cut do to BMP guidelines and protecting South Crooked Lake.																																						
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24	4130 - Aspen	Sapling Well	19.3	25	Immature	N/A	2023 - Stand is pole size aspen with some scattered large white pine2013- Cut in 1997. Sale #66-95.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
25	330 - Low-Density Trees	Nonstocked	3.6		Unspecified		2023 - Stand is old gas well site. Stand has a few trees seeding in.																																									
26	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.0	60	81-110	N/A	2023 - Lots of beech in understory																																									
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27	42100 - Planted White Pine	Sawtimber Well	2.7	57	81-110	N/A	2023 - Very small stand of planted white pine.																																									
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28	500 - Water	Nonstocked	0.8			No	2023 - No Name Small Lake.																																									
29	4130 - Aspen	Poletimber Well	2.8	52	51-80	N/A	2023 - Fully Stocked aspen with a white pine and red maple component.																																									
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30	4130 - Aspen	Poletimber Well	1.2	52	51-80	N/A	2023 - Retention area around a wet area left when stand 32 was final harvested.																																									
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32	4130 - Aspen	Sapling Well	4.3	14	Immature	N/A	2023 Sapling aspen with some larger white pine, red maple and black cherry. 2013 - Recently cut with adjacent compartment. Sale #56-08.																																									
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33	4130 - Aspen	Sapling Medium	10.7	5	Immature	N/A	2023 - North Part of Stand is fully Stocked Aspen Stand. South Part has some aspen clones, but also has a few open areas located in it. 2018 - stand cut winter of 2017/18. small area of aspen taken out of larger maple stand, worked around understory maple where they could, should be mostly aspen with some maple pockets as well.																																									
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35	3105 - Mixed Upland Herbaceous	Nonstocked	7.8				2023 - Trans Canada Pipeline. Has Trees Seeding in on it.																																		
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36	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	9.2	50	1-50	N/A	2023 - Stand is poor quality bushy white pine at this time. Aspen is starting to compete with white pine at this time as well. Depending on how aspen grows aspen might start to over take pine by next year of entry.																																		
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37	4110 - Sugar Maple Association	Sawtimber Well	104.2	60	81-110	N/A	2023 - Stand has Beech and Ironwood in understory. Basal area around 101 at this time.																																		
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39	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	130.9	37	81-110	N/A	2023 - Planted red pine with hardwood component scattered throughout it. Basal area is low from last cut. Stand has filled in with beech regeneration with some desirable regeneration.																																		
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40	6112 - Lowland Aspen	Sapling Poor	17.2	30	Immature	N/A	2023 - Stand has scattered larger Aspen throughout it of various sizes. Lots of open spots in stand due to standing water at certain times of year. Stand has a few larger legacy white pine trees in it. There is tag alder throughout most of stand.																																		
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41	4130 - Aspen	Sapling Medium	28.2	5	Immature	N/A	2023 - West end of stand is fully stocked at this time. East Side of Stand is poorly stocked at this time. Stand should continue to fill in over the next 10 years.																																																							
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42	4130 - Aspen	Poletimber Well	53.6	39	51-80	N/A	2023 - Fully stocked aspen stand with maple coming up under it.																																																							
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43	310 - Herbaceous Openland	Nonstocked	2.5				2023 - Abandon oil well pad.																																																							
44	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	46.8	60	111-140	N/A	2023 - Stand has several different aspen clones throughout stand. Larger sugar maple and basswood are clumpy poor quality trees. Stand does have some decent sugar maple poles in it as well.																																																							
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46	4119 - Mixed Northern Hardwoods	Sapling Medium	175.5	40	1-50	N/A	2023- Stand appears to be some sort of old Shelter wood / Seed Tree Cut. Stand has a lot of open areas in it but these opening are filling in nicely. Stand has a lot of desirable regeneration scattered throughout it. Stand should reach pole size by next year of entry. Stand has rolling hills; hillsides contain more desirable regeneration than other spots of the stand.																																																							
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48	330 - Low-Density Trees	Nonstocked	8.1			Managed Opening	2023 - Stand has some Scattered Black Cherry and Pine seeding in at this time.																																																							



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50	310 - Herbaceous Openland	Nonstocked	1.4				2023 - Abandon oil well pad																																											
51	4111 - S.Maple, Hard Mast Association	Sawtimber Well	62.1	60	51-80	N/A	2023 - Stand has some very steep hills in it. Stand has a good amount of sugar maple regeneration on the hillsides, as where beech has dominated the other areas. Stand basal area varies from 30 to 100 at this time depending on where you are in the stand.																																											
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52	4319 - Mixed Upland Forest	Sawtimber Well	43.6	60	111-140	N/A	2023 - Stand is planted red pine that is converting to hardwoods. We're there is red pine planted the basal area is 150- 160, red pine has never been third row thinned. Hardwoods pockets are much lighter with basal areas ranging from 50 -120 2013 - Areas of this stand is planted red pine, but hardwoods has taken over most of stand.																																											
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53	4112 - Maple, Beech, Cherry Association	Poletimber Poor	7.1	84	1-50	N/A	2023 - Stand does not have much desirable regeneration at this time. Stand has several open areas with some overstory trees left. Stand should fill in more as time goes by. 2018 - Stand was clear cut as part of Sale Hogenose Jaw (61-150-15).																																											
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54	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	39.5	45	81-110	N/A	2023 - Stand appears to be thinned only once at this time. leave 4 or 5 remove 2 rows. Beech seedling throughout stand. Some areas do have sugar maple seedling as well. Some big pockets of log size Hardwoods located throughout stand as well. Stand is very hilly. 2013 - cut half the red pine out... this area will be pushed to maple regen over the course of next 10-20 years. likely take the top off after the site has fully regenerated, some areas of aspen as well that will likely push to aspen eventually.																																											
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55	330 - Low-Density Trees	Nonstocked	1.2				2023 - Abandon oil well pad.																																											
56	3104 - Degraded	Nonstocked	1.8				Abandon oil well site.																																											



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57	310 - Herbaceous Openland	Nonstocked	17.8		Immature		2023 - TC energy Pipeline runs through stand																																													
58	4133 - Aspen, Mixed Pine	Sapling Medium	10.9	5	Immature	N/A	2023 - Stand has some nice aspen clones. Stand has some open areas. Jack Pine seedling starting to poke up through snow. 2018 - Stand was clear cut as part of Sale Hogenose Jaw (61-150-15).																																													
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59	4110 - Sugar Maple Association	Poletimber Well	13.6	40	1-50	N/A	2023 - Stand is on steep hill. Stand has transitioned to pole size stand since last year of entry.																																													
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60	4110 - Sugar Maple Association	Sawtimber Well	25.6	84	81-110	N/A	2023 - Entire stand on steep hill. This is the transition stand between hardwoods and pine /oak flats in compartment. Most trees are poor quality being multi stem tress. lots of beech in understory. Hold stand for skyline considerations till adjacent stands have put on growth.																																													
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61	4130 - Aspen	Sapling Well	29.8	37	1-50	N/A	2023- Just over half the the aspen is sapling size at this time. Stand will be pole stand next year of entry. Scattered larger red pine throughout stand.																																													
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62	4130 - Aspen	Sapling Well	20.1	5	Immature	N/A	2023 - Fully stocked aspen stand with some white pine and oak left in overstory from clearcut 5 years ago. 2018 - Stand was clear cut as part of Sale Hogenose Jaw (61-150-15).																																													
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63	330 - Low-Density Trees	Nonstocked	1.4				2023 - Abandon oil well site.																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
64	4311 - Pine, Aspen Mix	Poletimber Well	11.5	55	51-80	N/A	2023 - Stand has a lot of Legacy White Pine in stand. These White pines need to be protected in future if stand is every prescribed. Due to small size of stand this might be a good place to let old growth trees grow and not disturb this stand in future.																																															
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65	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	157.3	84	1-50	N/A	2023 - Stand is a planted red pine stand with a fully stocked understory under it. Part of understory are merchantable part are not merchantable. Cut 1/3 of stand this year, 1/3 of stand in 10 years and the rest of the stand in 20 years to give 3 different age classes. 2013 - Very old plantation. Planted as a mix of red, jack and white in 1938. Aspen, hardwoods, white and jack pine were cut out in 1986, sale #002-85.																																															
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66	42140 - Planted Mixed Pine	Sawtimber Poor	63.1	84	1-50	N/A	2023 - Aspen clones established throughout stand. We're there is aspen stand is fully stocked. Jack pine seedlings sticking up through snow in open areas. Stand should continue to fill in nicely. Some parts of stand are open, other parts have overstory pine. 2018 - 2018 - Stand had all jack pine, aspen and red maple removed during Sale Hogenose Jaw (61-150-15). 2012 - Very old plantation. Planted as a mix of red, jack and white in 1938.																																															
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67	6112 - Lowland Aspen	Sapling Medium	6.2	30	Immature	N/A	2023 - Stand has indicators that it is wet at certain times of the year. Stand has larger aspen of various sizes scattered throughout it. Stand has a lot of Tag Alder.																																															
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68	42140 - Planted Mixed Pine	Sawtimber Well	33.2	84	81-110	N/A	2023 - Planted stand with mostly red and white pine in overstory. Stand does have a lot of desirable species in understory. Consider Removing top of stand in the future. 2013 - Very old plantation. Planted as a mix of red, jack and white in 1938. Lots of old stumps in stand.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
71	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	8.3	48	1-50	N/A	2023 - Stand could be clearcut this year of entry but is in good shape at this time. Hold stand 10 years and clearcut it. Consider cutting part of stand 73 that are not to wet to cut during future harvest.																																															
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72	3102 - Grass	Nonstocked	5.7		Immature		2023 Jack pine trees slowly seeding in. Some fenced off trees in site. Wildlife planted apple trees in fenced areas? 2013 - Abandon oil well pad with monitoring wells.																																															
73	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	9.9	47	1-50	N/A	2023 - Tag alder throughout stand. Cut portions of stand that are not to wet when stand 71 is harvested next time.																																															
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75	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Well	21.5	84	111-140	N/A	2023 - Stand basal area various throughout stand. Were Red and White Pine are the more dominate species it is much higher than aspen / jack pine dominated areas.																																															
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76	110 - Low Intensity Urban	Nonstocked	2.8				2023 - Fenced off Oil facility																																															
77	42220 - Natural Jack Pine	Poletimber Well	24.5	49	51-80	N/A	2023 - Jack Pine is in Good Shape at this time. Stand can hold for another 10 years. Consider Clearcutting net year of entry.																																															
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83	4130 - Aspen	Poletimber Well	4.3	65		N/A	2023 - Retention from 105 Aspen Hill stand 86																																															
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86	4139 - Aspen, Mixed Deciduous	Sapling Medium	144.4	8	Immature	N/A	2023 - A few scattered saw log size sugar maples throughout stand. Stand has regenerated to mostly aspen with a hardwood component in several areas of stand. Stand does have a few open spots in it but these should continue to fill in nicely over the next 10 years. 2017 - Stand was clear cut sale 105 Aspen Hil (61-171-15).																																			
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