



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61116

Entry Year 2026

Acreage: 2,058

County Kalkaska

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Thomas Peterson III

Legal Description:

T27N R5W Sections 21, 22, 23, and 24

Identified Planning Goals:

Compartment 116 is part of the Grayling Ice Contact management area. 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. Much of the topography in this management area was sculpted by melting glaciers that dissected some of the ice-contact ridges into steep ridges with flat sandy outwash plains between. These ice contact ridges now support northern hardwood and oak stands while jack pine, red pine and mixed stands can be found on the plains. Specifically, forest management will aim to balance the age classes of aspen on suitable sites, thin northern hardwood stands, balance age classes of red pine and jack pine, and regenerate the aging oak resource. Much of Sections 23 and 24 are comprised of good quality northern hardwood and/or fair quality oak stands. Similar stands in the compartment to the north recently experienced a period of maple decline, stemming from being thinned then stressed by drought and multiple years of insect defoliation. There is evidence of some maple and oak mortality in the northern part of this compartment and the hardwood stands will be monitored for evidence of similar decline.

Soil and topography:

With the exception of the Black Creek corridor and other isolated depressions which have muck soils, the entire compartment is sandy soils. Slightly better soils are found in Sections 23 and 24. The topography in this compartment ranges from flat to slightly rolling. There are scattered kettle depressions, some of which are wet or seasonally wet.

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

This compartment is mostly surrounded by State land with a few exceptions. The entire west and north boundary of Section 21 adjoins private lands. Much of the west boundary is seasonal residences along Lake Valley Road. Some of the private land in Section 21 has been managed for timber. Much of the north boundary of Section 21 is shared with Camp Gan Israel, a 600-acre children's camp affiliated with a congregation in Walled Lake, MI. Section 21 SESW adjoins undeveloped private property to the south. Section 23 SESW and SWSE join private property to the south, which is multiple year-round and seasonal residences accessed from North Forest Trail.

Unique Natural Features:

There are two observations of Hill's thistle (state SC) and most of the compartment is potential habitat for the Massasauga rattlesnake.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Section 24 is part of the long-term lease with Camp Grayling for military training. As a tributary of the Manistee River, Black Creek and its tributaries are protected by Natural Rivers designation.

Watershed and Fisheries Considerations:

South Black Lake is partially within the compartment and Black Creek, a tributary of the upper Manistee River, flows through the compartment. Black Creek is a Designated Trout Stream that contained brook trout at one time. Recent fish surveys have failed to find any trout. Beavers have had a significant impact on Black Creek and may have destroyed any potential trout habitat. There are two small kettle lakes in Section 21.

Wildlife Habitat Considerations:

The bulk of compartment 116 encompasses two ice contact ridge complexes. Also, there is a narrow north/south band of outwash plain through section 21 near the west end of the compartment. State land in this compartment is contiguous with the only private land being concentrated at the west end.

The ridges and hills in this compartment are generally steep with a sandy, dry soil. Northern hardwoods are the dominate

community of this glacial landform. However, in this portion of state forest you can also find aspen, oak, grassland, shrubland, as well as several red pine plantations. Final harvests of deciduous species should leave residuals of conifers and/or mast producing vegetation, either in clumps or scattered, for the benefit of wildlife. The shrub and grass communities can be found in the draws and gullies between the ridges where wildfires were more apt to occur. These "open" communities should be maintained by periodic burning. Wildlife species likely to be found in these hilly forests and open ravines could include white-tailed deer, northern flicker, rose-breasted grosbeak, hog-nosed snake, and broad-winged hawk.

The outwash plain follows Black Creek, which drains the Black Lakes into the Manistee River. Open water, marshes, lowland brush, and stands of lowland conifers can be found along this riparian corridor. No activities are proposed in these communities, for several reasons, including limited access because of high water tables and stream crossings, lack of necessity for treatment, and the fragile nature of these wetland communities. The natural dynamics of these systems will be left to their own schedule.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and post-glacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. The Coldwater does not have an economic use. A gravel pit is located one mile to the south and potential is considered good. This area is located four miles south of Niagaran reef trend and the Antrim Shale gas play, but potential is limited for these plays. There are no State leases at this time.

Vehicle Access:

There is sufficient vehicle access throughout the compartment, although many of the seasonal county roads (Forest Trail and Black Lake Road) are in poor condition and could not support truck traffic. Black Creek flows through a culvert under Black Lake Road and this culvert needs attention before supporting truck traffic.

Survey Needs:

There are no survey needs at this time.

Recreational Facilities and Opportunities:

The Kalkaska ORV trails runs through Sections 22 and 24. This ORV trail is 50 inches in width, designed for ATV and motorcycle use. Appropriate trail protection specifications should be used to protect the trail where treatments are prescribed. Snowmobile use is relatively high along the Blue Lake Road corridor and coming off the pipeline in the east half of Section 24. (T.M.N. 5/15/14) .

Fire Protection:

The potential for catastrophic wildfire in this compartment is relatively low due to its timber types. Open spaces, sparser canopies in mixed stands, and northern hardwood stands would also serve as natural firebreak. Numerous fire-scarred stumps and tree trunks throughout the compartment, however, suggest that past fire was critical in shaping its current composition. Fire protection would be provided by the Kalkaska FRD office and the Bear Lake Fire Department.

Additional Compartment Information:

OI noted evidence of old settlements and fruit trees in Section 23 and there are multiple old railroad grades.

The following reports from the Inventory are attached:

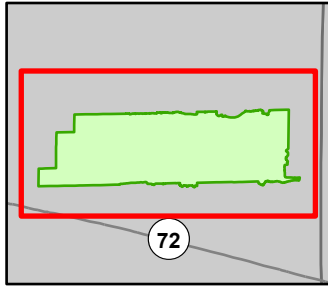
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

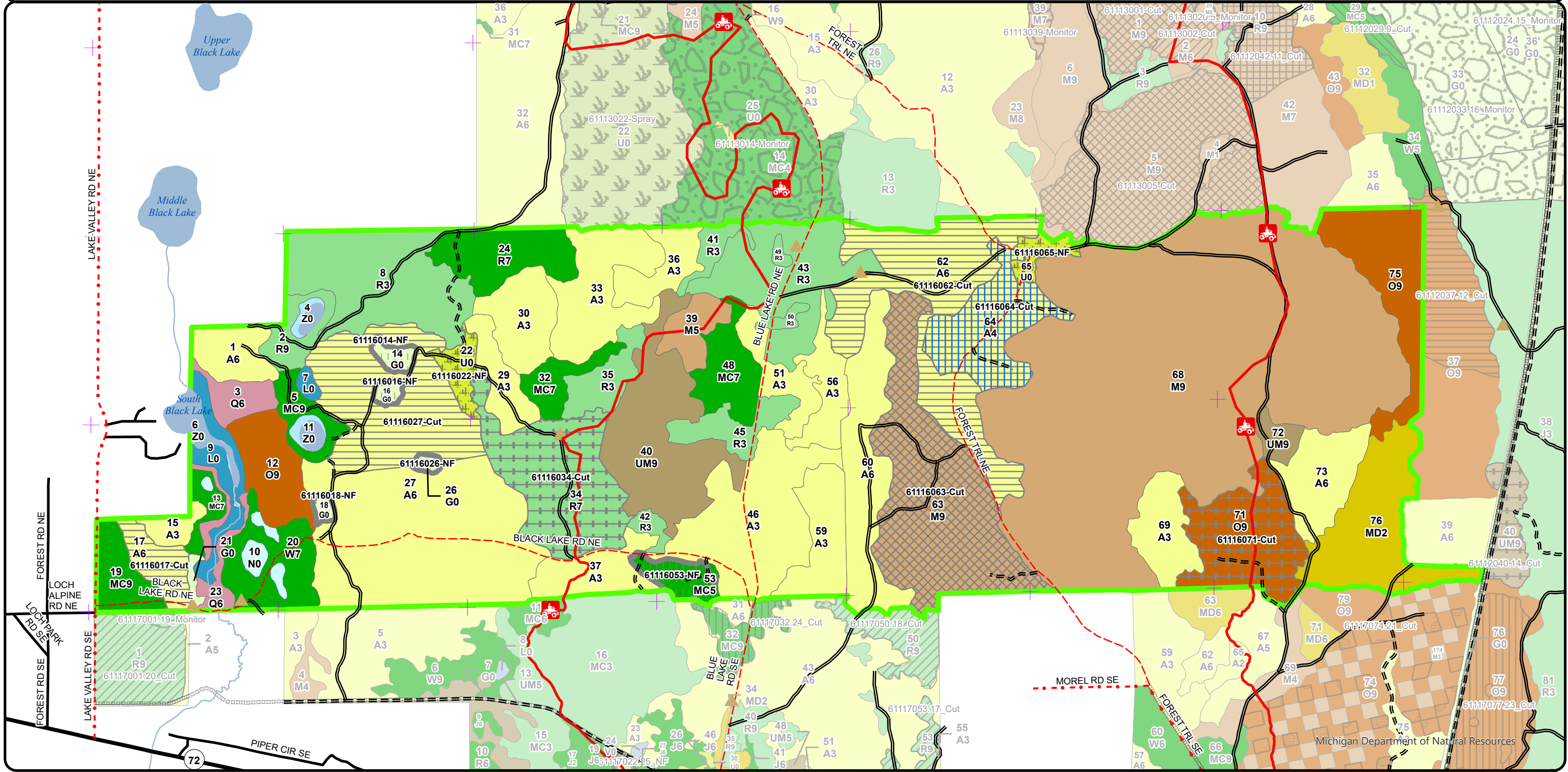
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

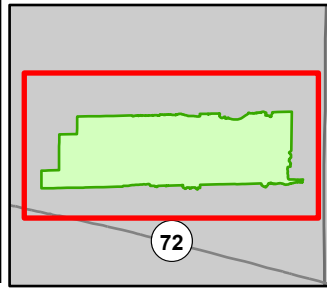
Compartment: 61116
 T27N, R5W, Sec: 21-24, 25, 26
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy
 Moraines
 YOE: 2026
 Acres: 2058.5 GIS Calculated
 Examiner: Thomas Peterson III
 Map Revised: 07/08/2024
 Map Phase: Pre-Review



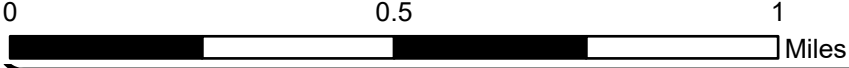
- | | | | |
|---|-----------------------------------|--------------------------------|------------------------------------|
| ▲ Berms | --- County - Dirt Road (Seasonal) | ▨ Clearcut (w/Reserves) | ■ 422 - Natural Pines |
| ⊕ Remonumented Section Corners | — Lake/Pond | ▩ Harvest, Overstory Removal | ■ 430 - Upland Mixed Forest |
| 🛵 ORV Trails | — Perennial River | ▨ Seed Tree (w/Reserves) | ■ 612 - Lowland Coniferous Forest |
| — Designated ATV Trails | — Lakes and Rivers | ▩ Opening Maintenance | ■ 310 - Herbaceous Openland |
| — DNR - Secondary Forest Road | — Pipeline | ■ 411 - Northern Hardwood | ■ 330 - Low Density Trees |
| == DNR - Forest Access Route | — Compartment Boundary | ■ 412 - Oak Types | ■ 500 - Water |
| — Federal / State Highway | — Counties | ■ 413 - Aspen Types | ■ 623 - Emergent Wetland |
| — Federal / State / County - Paved Road | ▨ Other Treatment - See Comments | ■ 419 - Mixed Upland Deciduous | ■ 629 - Mixed Non-forested Wetland |
| — County - Gravel Road | ▨ Selection (Group, Single Tree) | ■ 421 - Planted Pines | |



Stand Boundary Map

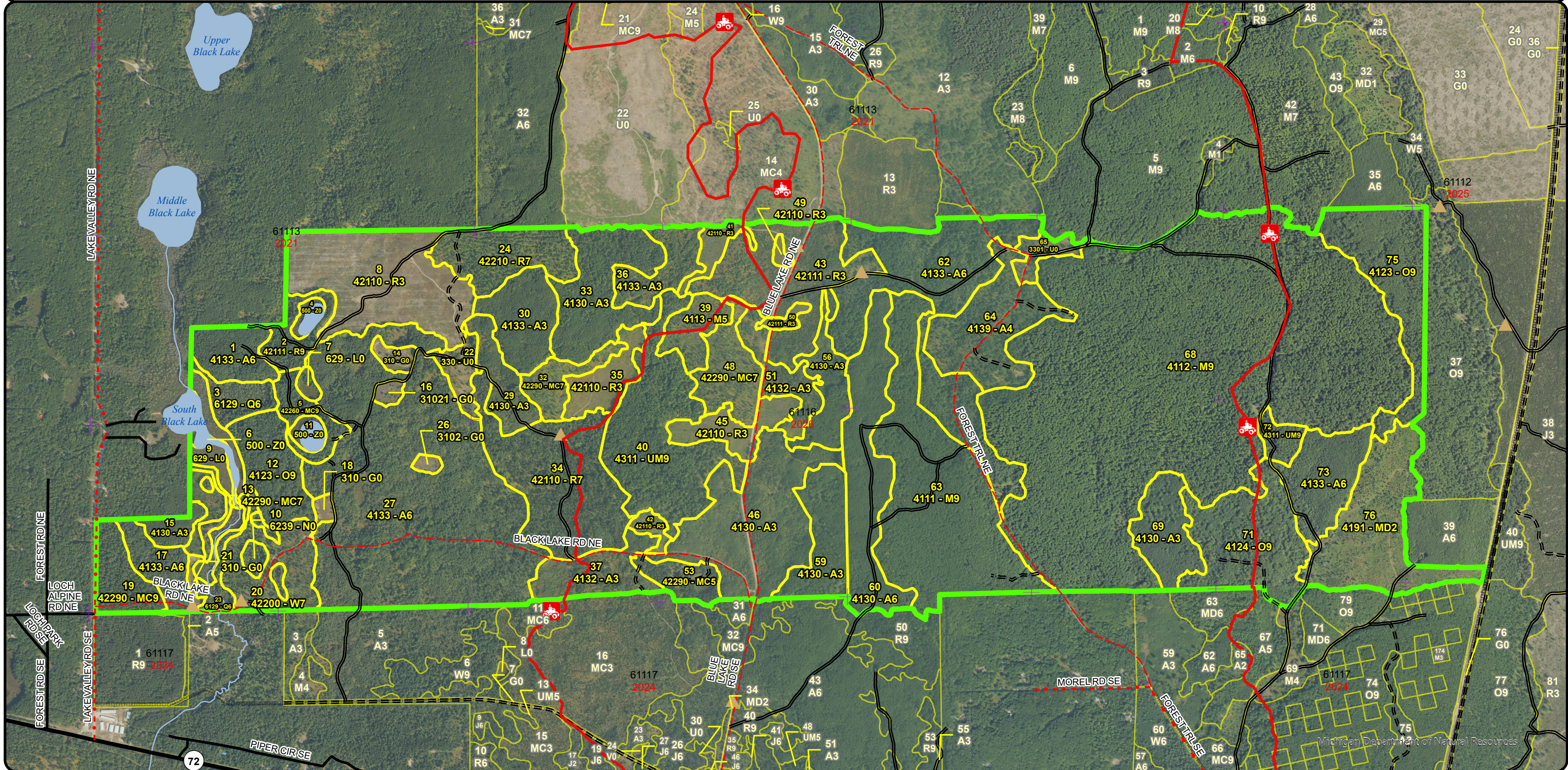


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 Map Revised: 07/08/2024
 Map Phase: Pre-Review



- Berms
- Remonumented Section Corners
- ORV Trails
- Designated ATV Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Lake/Pond
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Counties

- Stand Boundaries
- 612 - Lowland Coniferous Forest
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
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- 629 - Mixed Non-forested Wetland
- State Forests



**Special Conservation Areas
& Site Conditions Map**

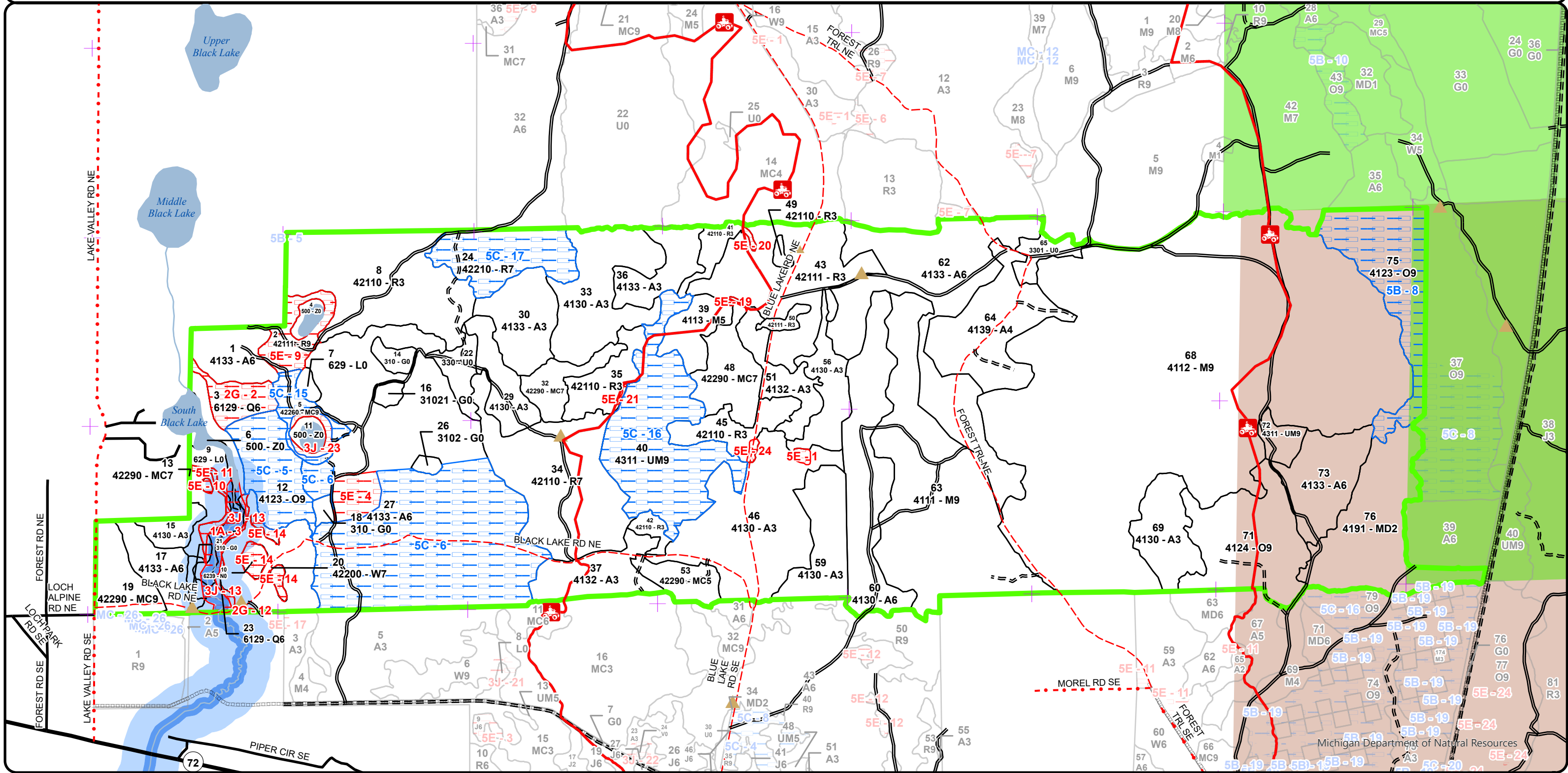
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- Berms
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- ORV Trails
- Designated ATV Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)

- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Counties
- Available w/ Constraints
- Unavailable

- 1A: Federal/State/Local Law
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Research, Development, and Military Lands



Report 1 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit

Compartment 116 Year of Entry 2026

Thomas Peterson III : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	145	119	108	356	15	0	0	0	0	0	0	0	0	0	0	0	742
Herbaceous Openland	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Low-Density Trees	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Conifers	0	0	0	0	0	0	0	11	10	0	0	0	0	0	0	0	0	0	21
Lowland Shrub	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Marsh	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	0	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
Natural Mixed Pines	0	0	0	0	0	0	0	12	0	38	35	0	0	0	0	0	0	0	85
Northern Hardwood	0	0	0	0	0	0	0	0	14	0	550	0	0	0	0	0	0	0	564
Oak	0	0	0	0	0	0	0	0	0	51	75	0	0	0	0	0	0	0	126
Red Pine	0	119	58	0	0	0	0	0	0	111	0	0	0	0	0	0	0	0	288
Upland Mixed Forest	0	0	0	0	0	0	7	0	0	69	0	0	0	0	0	0	0	0	75
Water	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
White Pine	0	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0	29
Total	71	177	203	119	108	356	22	52	24	269	660	0	0	0	0	0	0	0	2059



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 116
Total Compartment Acres: 2,058

Commercial Harvest - 449
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	177	0	0	44	0	0	0	0	0	221
Northern Hardwood	0	109	0	0	0	0	0	0	0	109
Oak	0	0	0	0	0	0	51	0	0	51
Red Pine	0	0	0	0	0	0	67	0	0	67
Total	177	109	0	44	0	0	118	0	0	449

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	449	0	0	0	0	0	0	39	0	487
Next Step	0	436	109	0	0	109	330	218	0	1203
Total	449	436	109	0	0	109	330	218	39	1690



Stand Name	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:

14	61116014-NF	4.4	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
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Prescription This opening is a traditional wildlife planting. Plant to annual rye. Consider alternative seed mixes as soil conditions allow. Resulting forage
Specs: should be suitable for early spring and late fall grazing. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

16	61116016-NF	2.8	31021 - Cool Season Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
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Prescription This opening is a traditional wildlife planting. Plant to annual rye. Consider alternative seed mixes as soil conditions allow. Resulting forage
Specs: should be suitable for early spring and late fall grazing. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

17	61116017-Cut	15.4	4133 - Aspen, Mixed Pine	Poletimber Well	56	51-80	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Clearcut with no retention due to stand being under 20 acres. Cut all trees down to 2 inches or more in DBH. Protect all pine under 4 inches
Specs: in DBH during harvest. Add Drumming log spec to sale during write up.

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

Acceptable Fully stocked stand of aspen with component of white and red pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
18 61116018-NF	2.3	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> This opening is a traditional wildlife planting. Plant to annual rye. Consider alternative seed mixes as soil conditions allow. Resulting forage</p> <p><u>Specs:</u> should be suitable for early spring and late fall grazing. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.</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>Proposed Start Date: 10/1 /2025</p>										
22 61116022-NF	9.3	330 - Low-Density Trees	Nonstocked		Immature	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs</p> <p><u>Specs:</u> 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. Could also seed in native grasses and forbs.</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>Proposed Start Date: 10/1 /2025</p>										
26 61116026-NF	1.9	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> This opening is a traditional wildlife planting. Plant to annual rye. Consider alternative seed mixes as soil conditions allow. Resulting forage</p> <p><u>Specs:</u> should be suitable for early spring and late fall grazing. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.</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>Proposed Start Date: 10/1 /2025</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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27	61116027-Cut	75.0	4133 - Aspen, Mixed Pine	Poletimber Well	49	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut around 1/3 to 1/2 of stand 27. Standard area retention is mapped out in MIFI around two unique kettle holes in order to protect them. In addition to standard area retention mark to leave less than one tree per acre scattered white pine, white oak in addition to any legacy trees within stand for vertical structure / seed source for stand. Add Drumming log spec to sale during write up.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Fully stocked stand of aspen, with any component of pine or mixed deciduous

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

34	61116034-Cut	67.2	42110 - Planted Red Pine	Sawtimber Poor	85	1-50	Harvest	Overstory Removal	4132 - Aspen, Jack Pine	Even-Aged	No
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Prescription Remove overstory from stand. Cut all trees greater than 4.5 inches in DBH that you can get at least one pulp stick out of. Leave standard area retention in stand. Protect all advance regeneration during harvest. Pockets with no merchantable trees should be avoided and no equipment in them during harvest.

Next Step
Treatments:

Acceptable Regen: Fully Stocked Stand of Aspen, with Pockets of Jack pine. Stand can have any mixture of red pine, white pine and/ or mixed deciduous trees.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

53	61116053-NF	10.0	42290 - Natural Mixed Pine	Poletimber Medium	60	51-80	NonForestMgt	Brush Cutting	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. 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. Could also seed in native grasses and forbs.

Next Step
Treatments:

Acceptable Regen:

Other Comment: Part of stand 53 was an upland brush stand but woody encroachment has continued in the absence of opening maintenance or natural disturbance. This stand has herbaceous species that will benefit from removing some woody vegetation.

Site Condition

Proposed Start Date: 10/1 /2025



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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62	61116062-Cut	86.9	4133 - Aspen, Mixed Pine	Poletimber Well	48	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Clear cut stand with standard area retention. Mark to leave Less than one tree per acre, these trees species should consist of white pine, red pine or oak trees. Protect all red pine, white pine and oak under 5 inches in DBH during harvest. Add Drumming log spec to sale during write up.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Fully to moderately stocked stand of aspen, with pine and oak component.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

63	61116063-Cut	109.1	4111 - S.Maple, Hard Mast Association	Sawtimber Well	92	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Two-Aged	No
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Prescription Mark stand down to average basal area of 90. Use hardwood marking guidelines to mark stand.

Specs: Leave larger sugar maple as seed source for stand. In addition to marking stand add 10 gaps that are no smaller than 1 acre in size and no bigger than 1.5 acres in size. Target gap areas where there is sugar maple regeneration present or where there is beech in overstory.

Next Step Pesticide, Skidder - Site Prep; Planting, Hardwood - Sapling; Other, Pre-Commercial Thinning - Hand; SitePrep, Trenching; SitePrep,

Treatments: Scarification; SitePrep, Roller Chopping; SitePrep, Other - Specify; Other, Pre-Commercial Thinning - Hand;

Acceptable Any Combination of sugar maple, red maple, basswood, cherry, oak, or pine.

Regen:

Other If gaps fail to regenerate to acceptable regeneration, use any means necessary to get them to desirable regeneration. This includes but is

Comment: not limited to: scarification, trenching, mastication, roller chopping, burning, planting (of species such as hardwood, oak, pine), spraying to kill unwanted species, or TSI cut to remove unwanted species.

Site Condition

Proposed Start Date: 10/1 /2025

64	61116064-Cut	43.9	4139 - Aspen, Mixed Deciduous	Poletimber Poor	46	1-50	Harvest	Seed Tree with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Leave all pine and oak in stand as seed source. Cut all other tree species down to 2 inches in DBH. Leave standard area retention in stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderately Stocked stand of aspen, black cherry with pine component. Trying to expand aspen clones in stand.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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65	61116065-NF	7.9	3301 - Low Density Deciduous Trees	Nonstocked	Immature	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
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Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex. Could also seed in native grasses and forbs.

Specs:
Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

71	61116071-Cut	51.2	4124 - Red with White Oak	Sawtimber Well	88	81-110	Harvest	Overstory Removal	4139 - Aspen, Mixed Deciduous	Even-Aged	No
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Prescription Remove Overstory of Stand with standard area retention left along ORV trail. Cut all trees greater than 6 inches in DBH. Protect advance regeneration during harvest. Do not cut any pine during harvest. Mark less than 1 white oak per acre for seed source. Use oak wilt spec no exemptions and ORV trail protection spec in timber sale contract.

Specs:
Next Step
Treatments:

Acceptable Fully to Moderately stocked stand of aspen, with component of red maple, pine and oak.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

Total Treatment 487.3
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit
Thomas Peterson III : Examiner

Compartment: 116
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions								
		With Condition			5B	5C	1A	2G	3J	5E			
743	610	123		10	Aspen		123						10
13	13	0		0	Herbaceous Openland			0					0
17	17	0		0	Low-Density Trees								
22	1	0		20	Lowland Conifers			5	11	2			3
19	14	0		5	Lowland Shrub			5					
7	0	0		7	Marsh								7
58	58	0		0	Mixed Upland Deciduous								
84	72	9		3	Natural Mixed Pines		9				3		1
564	564	0		0	Northern Hardwood								0
126	51	75		0	Oak	47	28				0		0
287	242	31		14	Red Pine		31						14
76	7	68		0	Upland Mixed Forest		68						0
13	12	0		0	Water			0					
29	29	0		0	White Pine			0	0	0	0		0
2,058	1,691	306		61	Total Forested Acres	47	259	10	12	5			34
	82%	15%		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	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Compartment: 116
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3	Unavailable	1A: Federal/State/Local Law	10	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Natural Rivers buffer							
4	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	123	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5B: Maintain for regeneration purposes	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Thomas Peterson III : Examiner

Compartment: 116
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11	Unavailable	5E: Long-Term Retention	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small bogs.							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
 Thomas Peterson III : Examiner

Compartment: 116
 Year of Entry: 2026

17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



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	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
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	Poletimber Well	17.8	46	51-80	N/A	2024 - Stand has larger pine with aspen growing under it. Clearcut stand in 10 years. 1978 - Stand was harvested.																																																		
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2	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	12.8	85	111-140	N/A	2024 - Stand was left as retention for stand 8 to protect wet kettle hole. Steep drop off to kettle hole and rolling terrain throughout stand. 1939 - Stand was planted to red and Jack Pine.																																																		
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3	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	11.3	64	51-80	N/A	2024 - Small depression between 2 ridges. Very wet ground with leatherleaf. More red pine along edges and slopes, including some pockets that appear very old. Portions of stand are lowland shrub with no trees in it at this time.																																																		
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4	500 - Water	Nonstocked	3.6		Unspecified	No	2024 - Kettle lake with steep banks down to lakes edge. Water in stand during inventory. Lowland shrub surrounds small lake with pines growing on steep banks.																																																		
5	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	11.5	93	111-140	N/A	2024 - Unique stand, drops down into kettle lake and kettle bog areas. stand is on slope. most of stand would not be able to be harvested due to bmp guidelines.																																																		
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6	500 - Water	Nonstocked	4.5		Unspecified	No	2024 - Part of South Black Lake 2014 - This is a tributary of the Manistee River, subject to Natural Rivers regulations.																																																		
7	629 - Mixed non-forested wetland	Nonstocked	2.5		Unspecified	No	2024 - Two kettle-like depressions. No visible water in stand. Mostly leatherleaf and other shrubs. A few scattered pine saplings and tag alder around the edges. Small forested patch in between them.																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
8	42110 - Planted Red Pine	Sapling Well	69.7	4	Immature	N/A	2023 - Year 3 Regeneration survey was completed 10/12/2023. There are currently 768 trees per acre and stand is 99% Free to Grow at this time. 11/9/2021 - Year 1 regeneration survey completed. Stand has approximately 813 trees per acre. Stand is free to grow at this time no herbicide treatment is currently recommended. 5/3/2021 - Stand was planted to red pine. 794 Trees per acre at time of planting. WWGD Red Pine, 61-157-16-01. FTP -C62-879 2020 - Stand was site prep sprayed. 2019 - Stand was Roller chopped in June and Trenched last summer 2019.																																																							
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9	629 - Mixed non-forested wetland	Nonstocked	17.0		Unspecified	No	2024 - Corridor for Black Creek, which is a tributary of the Manistee River.																																																							
10	6239 - Mixed Emergent Wetland	Nonstocked	6.6	0	Unspecified	No	2024 - Stand all contain vernal pools, with lowland shrubs and pine surrounding them. These stands were left as retention for stand 20 shelterwood harvest. 2014 - Vernal pool areas excluded from treatment on Stand 20.																																																							
11	500 - Water	Nonstocked	4.5		Unspecified	No	2024 - Kettle lake with steep banks to water's edge. Stand has lowland shrubs surrounding it.																																																							
12	4123 - Red Oak	Sawtimber Well	27.6	95	81-110	N/A	2024 - Stand has heavy understory of white pine, could use white pine as nurse crop for oak during harvest. Stand is hilly drops into black lake / black creek on one side and kettle hole with standing water on other side. Stand does have some oak showing signs of die back. 1996 - Stand was harvested under sale Stand 8 Oak, sale 61-062-96-01, completed 12/1996. Removed bigtooth aspen, thinned oak and cut some red maple and red pine. Heavy white pine or aspen understory in places. Stand is on a north-south ridge. West side slopes down to creek on a relatively steep incline. North end is local high spot. More red and white pine at bottom of slope near wetter areas. Residual BA is variable.																																																							
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13	42290 - Natural Mixed Pine	Sawtimber Poor	7.1	88	51-80	N/A	2024 - Stand was thinned 8 years ago, understory starting to fill back in. Consider removing the top in 10 years. 2018 - Stand was thinned as part of sale Honeymoon Cabin Mix 61-147-16 2014 - Transitional stand between upland and lowland along creek. Mostly upland but slopes towards water and may contain isolated wet spots. Variable stand; parts are almost all white pine in canopy and other parts are almost all red pine. Short-lived species (paper birch, aspen) used to be part of canopy. Evidence of past fire.																																																							
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14	310 - Herbaceous Openland	Nonstocked	4.4		Unspecified	Managed Opening	2024 - Wildlife has signs up as managed food plots.																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
15	4130 - Aspen	Sapling Well	7.2	28	Unspecified	N/A	2024 - Stand is fully stocked sapling aspen stand. 1996 - Stand was final harvested under sale Lake Valley Road Aspen, sale 61-006-96-01. Removed everything > 2" DBH> Good regeneration. Fully stocked aspen stand, with a few pole-sized oak left and scattered advanced oak saplings. A few small openings along the edges. Evidence of beaver chewing on the east edge of stand. Old railroad grade runs through the western part of stand.																																																														
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16	31021 - Cool Season Grass	Nonstocked	2.8		Unspecified	Managed Opening	2024 - Wildlife planted opening.																																																														
17	4133 - Aspen, Mixed Pine	Poletimber Well	15.4	56	51-80	N/A	2024 - Stand has variable size aspen from sapling to Log size. Stand has a lot of white pine in understory.																																																														
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19	42290 - Natural Mixed Pine	Sawtimber Well	18.0	86	81-110	N/A	2024 - Stand has fully stocked understory of aspen at this time. 2008 - Stand has all red pine removed that was greater than 12 Inches in DBH under sale Lake Valley Red, sale # 61-078-06-01.																																																														
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20	42200 - Natural White Pine	Sawtimber Poor	29.1	64	51-80	N/A	2018 - Stand was shelterwood harvested under sale - Honeymoon Cabin Mix 61-147-161986 - Part cut as Upper Black Creek Sale, 61-025-86-01, removed all aspen plus marked white pine, red pine and jack pine. Slopes toward creek on west side of stand. Has some low and/or wet areas, especially north central part of stand and along eastern border. Mostly dense understory.																																																														
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22	330 - Low-Density Trees	Nonstocked	9.3		Immature	Managed Opening	2024 - Giant kettle hole with some scattered black cherry and jack pine in it.																																																													
23	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	10.4	78	51-80	N/A	2024 - Stand adjacent to Black creek 2014 - Corridor for Black Creek, which is a tributary of the Manistee River. This southern part of the corridor is more forested than the northern part closer to the beaver dams. Understory is thick with tag alder and shrub trees. It appears that the culvert where the creek flows under Black Lake Road may have been crushed.																																																													
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24	42210 - Natural Red Pine	Sawtimber Poor	30.9	87	1-50	N/A	2024 - Old shelter wood cut. Remove pine and release aspen in 10 years. 2018 - Stand was shelter wood harvested under sale - WWGD Red Pine 61-157-16 2014 - Western portion has the red maple in canopy and a more diverse understory (heavy soft maple, beech, cherry oak, white pine). BA is slightly lower in treated part (130, 140). Pine is mediocre quality. 1997 - Eastern 2/3 (Section 22) treated as Halloween Pines, 61-012-96-01																																																													
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27	4133 - Aspen, Mixed Pine	Poletimber Well	207.2	49	51-80	N/A	2024 - Stand is poor quality aspen ranging from sapling to log size depending on what area of stand you are in. Aspen seems to be a little higher quality at north end of stand. 1975 - Stand was final harvested.																																																													
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29	4130 - Aspen	Sapling Well	16.6	16	Immature	N/A	2024 - Fully stocked sapling aspen stand 2008 - Stand was final harvested under sale Blue Lake M72 Pine, 61-084-06-01. Small depression on southwest side.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
30	4133 - Aspen, Mixed Pine	Sapling Well	25.9	37	1-50	N/A	2024 - Stand has turned to poles size stand this year of entry. 2014 - Good regeneration, some trees just starting to reach pole size. Scattered overstory red and white pine, left as residual. Relatively flat terrain. 1987 - Middle Black Lake Sale, 61-031-86-01, clearcut completed 7/1987.																																																				
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32	42290 - Natural Mixed Pine	Sawtimber Poor	12.9	87	1-50	N/A	2024 - Stand has fully stocked aspen and red maple understory. Not sure if there is enough overstory pine to go after. 2017 - Stand was Crown Thinned Under Sale - No Red Pine Left Behind 61-133-16.																																																				
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34	42110 - Planted Red Pine	Sawtimber Poor	67.2	85	1-50	N/A	2024 - A lot of red pine left during last harvest. remove red pine to releases aspen and jack pine. 1997 - Stand was final harvested under sale Blind Porky Jack Pine, 61-064-96-01, completed 6/1997. Removed all jack pine except for a 50' wide buffer along the ORV trail. This stand is a mixture of pure regeneration and patchy areas with higher residual. ORV trail runs through stand. 1939 - Planting Records shows stand was planted																																																				
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35	42110 - Planted Red Pine	Sapling Well	16.2	4	Immature	N/A	2024 - Aspen and red maple on edges of stand encroaching. some scattered jack pine and oak growing in main part of red pine stand. Red pine planting was completed under - FTP C62-878. Trenched summer 2017. Planted May 2018. 1-year regen survey 10/24/2018. 28% mortality. 63% FTG. Recommend release. Release spray was requested but not completed due to higher priorities. Regen survey 9/21/20. 33% mortality. 632 surviving TPA. 87% FTG. Contractor recommends no replant and no release. Primary competition oaks & red maple.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
36	4133 - Aspen, Mixed Pine	Sapling Well	17.8	16	Immature	N/A	2024 - Stand does have trenches and appears to be planted red pine. However, at this time red pine is almost all out competed by aspen. Portions of stand the red pine has not survived. 2014 - Stand Also contains scattered taller oak, red maple, cherry and aspen. Red maple (up to 2" dbh) is fairly heavy and aspen is thick in places. May need release. 2013 - Stand was replanted 2008 - Stand was planted to red pine 2008 2007 - Stand was trenched 2007 Under FTP C62-750 2007 - Stand was final harvest under sale - Blue Lake M72 Pine, 61-084-06-01,	
Canopy Species		% Cover	Size Class	DBH	Age			
Bigtooth Aspen		50	Sapling	2	16			
Red Oak		3	Sapling	2				
Red Pine		32	Sapling	2	16			
Black Cherry		5	Sapling	2				
Red Maple		10	Sapling	2				
37	4132 - Aspen, Jack Pine	Sapling Well	23.2	16	Immature	N/A	2024 - Some open areas in stand, but stand has regenerated to aspen with Jack Pine Clumps scattered throughout it. 2008 - Stand was final harvested under sale, Blue Lake - M72 Pine.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		10	Sapling	1				
Bigtooth Aspen		50	Sapling	1	16			
Jack Pine		25	Sapling	1				
Northern Pin Oak		5	Sapling	1				
Black Cherry		10	Sapling	1				
39	4113 - R.Maple, Conifer	Poletimber Medium	14.2	75	1-50	N/A	2024 - Stand is filling with aspen, not enough timber to go after. Stand will most likely be an A3 stand next year of entry. 2017 - Stand was thinned under contract - No Red Pine Left Behind 61-133-16. It was cut winter 2016. There was scattered maple and pine Left.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		40	Log	10				
Red Maple		60	Pole/Log	8	75			
Sub-Canopy Species		Density	Avg. Height	Size				
Red Maple		Low	Variable	Sapling				
White Pine		Low	Variable	Sapling				
Jack Pine		Trace	Variable	Sapling				
Bigtooth Aspen		High	Variable	Sapling				
Beech		Low	Variable	Sapling				
40	4311 - Pine, Aspen Mix	Sawtimber Well	68.5	85	111-140	N/A	2024 - Red Pine in stand is clearly planted in rows. Stand has aspen clones scattered throughout it. Basal area is variable throughout stand depending if you are in denser pine portion or aspen / red maple pockets. 1939 - Planting Records show stand was planted to pine in 1939.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		15	Log/Pole	12				
Bigtooth Aspen		20	Log/Pole	10	68			
Red Pine		35	Log/XLog	16	85			
Red Oak		8	Log/Pole	12				
Jack Pine		2	Pole	8				
White Pine		20	Log/Pole	12				
Sub-Canopy Species		Density	Avg. Height	Size				
Beech		Medium	5 - 10 feet	Sapling				
White Pine		Medium	Variable	Sapling				
Red Maple		Low	10 - 20 feet	Sapling				
41	42110 - Planted Red Pine	Sapling Well	7.4	4	Immature	N/A	2024 - Stand appears to be in good shape at this time 2021 - Stand was released sprayed. 2018 - 1-year regen survey 10/23/2018. 2018 - Stand was planted to red pine 2017 - Stand was trenched FTP C62-8782016 - Cut winter 2016-17	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		100	Sapling	1	4			



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42	42110 - Planted Red Pine	Sapling Well	4.2	4	Immature	N/A	2021 - Stand was released sprayed. 2018 - Year 1 regen survey - 10/24/2018 by Armstrong & Crigier. 28% mortality. 57% FTG. Recommend release. 2018 - Stand was planted to red pine. 2017 - Stand was trenched. 2016 - Cut winter 2016-17. T																																																					
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43	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	57.5	16	Immature	N/A	2024 - Stand is fully stocked with a lot of competition competing with red pine at this time. 2013 - Stand was replanted 2008 - Stand was planted to red pine 2008 2007 - Stand was trenched 2007 Under FTP C62-750 2007 - Stand was final harvest under sale - Blue Lake M72 Pine, 61-084-06-01,																																																					
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45	42110 - Planted Red Pine	Sapling Well	16.5	4	Immature	N/A	2024 - Fully stocked planted red pine with some oak and jack pine scattered throughout it. East side of blue lake road has aspen clone established in it. 2021 - Stand was released sprayed. 2020 - Contract regen survey 9/21/20. 576 surviving TPA, 62% FTG. Primary competition oak + secondary cherry. Contractor recommends release. Contradictory data about replant. 2018 - 10/24/2018 by Armstrong & Crigier. 22% mortality and 55% FTG. Recommend release. Primary competition is aspen 2018 - Planted to red pine 2017 - Stand was trenched.																																																					
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46	4130 - Aspen	Sapling Well	69.9	16	Immature	N/A	2024 - Fully stocked aspen stands with some pockets of Jack Pine Throughout it. 2014 - Good aspen regeneration, although it is somewhat patchy and not many overstory red pine are left. A few pockets of denser jack pine and scattered advanced oak regeneration. 2007 - Stand was final harvested under sale Blue Lake Road Aspen, Sale #61-062-06-01. The sale was clearcut and chipped, with scattered pine left.																																																					
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48	42290 - Natural Mixed Pine	Sawtimber Poor	22.6	93	1-50	N/A	2024 - Stand is boarder lined whether the pine overstory should be taken off (enough wood to go after). Stand has several aspen clones scattered throughout it. Stand does have some rolling hills throughout it. 2017 Stand was thinned under sale - No Red Pine Left Behind 61-133-16.																																																					
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49	42110 - Planted Red Pine	Sapling Well	1.7	4	Immature	N/A	2024 - Stand is in good shape at this time. 2021 - Release Spray completed. 2020 - 3 Year Regeneration 25% survival. 50-75% FTG. Recommend release. Primary competition = oak. Fall 2018 - Year 1 Regeneration 20-25% survival. 50-75% FTG. 2018 - Planted May 2017 - Trenched summer 2016 - Stand was final harvested under sale - No Red Pine Left Behind 61-133-16																																			
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50	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	2.9	4	Immature	N/A	2024 - Small planted red pine stand, red pine seedlings are doing good. 2021 - Release Spray completed. 2020 - 3 Year Regeneration 25% survival. 50-75% FTG. Recommend release. Primary competition = oak. Fall 2018 - Year 1 Regeneration 20-25% survival. 50-75% FTG. 2018 - Planted May 2017 - Trenched summer 2016 - Stand was final harvested under sale - No Red Pine Left Behind 61-133-16																																			
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51	4132 - Aspen, Jack Pine	Sapling Well	17.0	17	Immature	N/A	2024- Aspen is dominant species in stand at this time. Stand could slowly convert to Mixed Pine stand depending how pine and aspen compete in the future. 2007 Stand was clearcut under sale Blue Lake M72 Pine, Sale # 61-084-06-01.																																			
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53	42290 - Natural Mixed Pine	Poletimber Medium	11.9	60	51-80	N/A	2024 - Stand has kettle hole with wetland in bottom of it. Stand has steep terrain going to down to kettle hole. Pine is slowly filling in stand.																																			
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56	4130 - Aspen	Sapling Well	18.4	28	Immature	N/A	2024 - Stand should covert to pole size next year of entry. 1996 - Sale was final harvested under sale Big Doe Aspen sale, 61-009-96-01.																																			
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59	4130 - Aspen	Sapling Well	26.6	28	Immature	N/A	2024 - Fully Stocked Aspen Stand. Stand should convert to pole size next year of entry. 1996 - Sale was final harvested under sale Big Doe Aspen sale, 61-009-96-01, completed 8/1996. Removed everything > 2" DBH except oak. Good regeneration. Scattered overstory oak of decent quality and condition and a few pines. Gentle slope with western aspect.																																																											
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60	4130 - Aspen	Poletimber Well	52.7	37	1-50	N/A	2024- Stand is pole sized fully stocked aspen stand. 1987 Stand was final harvested under sale Regeneration Sale, 61-001-86-01.																																																											
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62	4133 - Aspen, Mixed Pine	Poletimber Well	86.9	48	51-80	N/A	2024 - Aspen is variable in stand. Aspen ranges from log size to sapling size. Aspen is poor quality at best. There is pine scattered throughout sale. With rolling hills and some opening throughout stand.																																																											
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63	4111 - S.Maple, Hard Mast Association	Sawtimber Well	109.1	92	141-170	N/A	2024 - Stand contain small amounts of sugar maple in its understory. average basal area is around 145 at this time. 1996 - Stand 36 Hardwoods, sale 61-065-96-01, thinning completed January 1998. Contains a small pocket of healthy hemlock just north and west of North Forest Trail and two-track intersection. Northeastern edge is aspen that used to be typed as U0.																																																											
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64	4139 - Aspen, Mixed Deciduous	Poletimber Poor	43.9	46	1-50	N/A	2024 - Stand is open area filling in. Could cut aspen and try expanding aspen clones. Stand has rolling hills, with some open areas still scattered throughout it.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
65	3301 - Low Density Deciduous Trees	Nonstocked	7.9		Immature	No	2024 - Opening with scattered pole/log cherry trees and some shrubby red maple.			
68	4112 - Maple, Beech, Cherry Association	Sawtimber Well	441.2	93	81-110	N/A	2024 - Stand has typical heavy beech understory after the harvest. Basal area is currently right around 82 square feet this year of entry. 2017 - Stand was Thinned January 2017-November 2017 under sale Deja Vu Hardwoods 61-102-16. Southeast part of stand had the most oak and beech, most of which was removed. BA will be lower there. 1996 - Comp 16 Hardwoods, sale 61-181-96-01, cut 7/1998-8/2000. Some very good quality hardwood, especially sugar maple. Some mortality in north part of stand, north of 2-track and west of ORV trail, similar to salvage sales in Compartment 113. Part of northeast part of stand was marked but not cut. ORV trail runs through stand.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Sugar Maple	70	Log/Pole	12	93	Bigtooth Aspen	Low	Variable	Sapling
		Red Oak	5	Log	14		Ironwood	Medium	Variable	Sapling
		Black Cherry	5	Pole	6		Serviceberry (Juneberry)	Low	Variable	Sapling
		Red Maple	20	Log/Pole	10		Sugar Maple	Low	10 - 20 feet	Sapling
							Beech	High	Variable	Sapling
							Red Maple	Medium	5 - 10 feet	Sapling
							Black Cherry	Low	5 - 10 feet	Sapling
69	4130 - Aspen	Sapling Well	23.6	28	Immature	N/A	2024 - Should transition into pole stand next year of entry. 1996 - Part of Section 23 Aspen sale, 61-003-96-01. Removed everything except oak and hemlock in April 1996 with in interest in getting birch regeneration. That does not appear to have happened. Hemlock from previous stand has all but died out. This part of treatment responded very differently from east half, perhaps due to more overstory oak in east half.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		White Pine	5	Sapling	2					
		Black Cherry	5	Sapling	1					
		Red Oak	10	Log	12	86				
		Red Maple	15	Sapling	2					
		Bigtooth Aspen	65	Sapling	3	28				
71	4124 - Red with White Oak	Sawtimber Well	51.2	88	81-110	N/A	2024- Typical species removal from past. Stand understory full of aspen and red maple. Some beech in area, and an oak seedling here and there mostly white oak seedlings if any. 1996 - Portion of stand west of ORV trail was harvested under sale Section 23 Aspen sale, 61-003-96-01. Removed everything except oak and hemlock in April 1996 with in interest in getting birch regeneration. That does not appear to have happened. Hemlock from previous stand has all but died out. This part of treatment responded very differently from west half, perhaps due to more overstory oak here. Stand is two-storied: older oak over mixed regeneration. ORV trail runs through the stand.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		White Oak	20	Log	13		White Pine	Low	Variable	Sapling
		Red Oak	80	Log	13	88	Red Oak	Low	Variable	Sapling
							Beech	Low	5 - 10 feet	Sapling
							White Oak	Low	Variable	Sapling
							Red Maple	High	10 - 20 feet	Sapling
							Bigtooth Aspen	Medium	Variable	Sapling
72	4311 - Pine, Aspen Mix	Sawtimber Well	7.1	52	111-140	N/A	2024 - Larger pine scattered throughout stand			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Oak	10	Log	12		Red Maple	Low	10 - 20 feet	Sapling
		White Pine	50	Log/Pole	10	52	White Pine	High	Variable	Sapling
		Bigtooth Aspen	20	Pole	8					
		Red Maple	20	Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
73	4133 - Aspen, Mixed Pine	Poletimber Well	29.8	38	1-50	N/A	2024 - Stand has transitioned into pole stand this year of entry. Stand has larger scattered pine. 1986 - Habitat cut in 1986. White pine is mostly in discrete patches.																																																						
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75	4123 - Red Oak	Sawtimber Well	47.5	91	81-110	N/A	2024 - Very steep terrian, top of stand is flat dropping off to Jack Pine KW grounds. Some spots might be too steep to operate. Not much oak in almost fully stocked undetstory																																																						
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76	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	58.1	7	Immature	N/A	2024 - Scattered large oak, parts of stand open otherws are fully stocked. Lots of deer browse issues 2017 - Stand was clearcut under sale - Obata Oak, 61-152-16-01. Left ~1 oak/acre and scattered pine and all white pine and oak less than 4" DBH.2014 - Some oak is fairly good quality. Rolling hills with western aspect. Steeper hill leads to pipeline at southeast end. O1997 - Everything except oak and hemlock removed in 1997 as part of 61-010-95-01 (with Comp 112).																																																						
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