

Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61109
Entry Year 2026
Acreage: 1,806
County Kalkaska

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Paul Roell

Legal Description:

T27N, R6W, Sec's 1 & 12. T27N, R5W, Sec. 7

Identified Planning Goals:

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

Soil and topography:

Upland areas of the compartment consist of Rubicon sands and island lake sands surrounded by Kalkaska sandy loams. Lowland areas are Tawas-Lupton Mucks and Ausable-Bowstring Mucks.

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

Fairly large blocks of State Land are intermixed with private property throughout the larger area around the compartment. To the west of the compartment is The Grand Traverse Regional Land Conservancy's Upper Manistee Headwaters: The Milock Family Preserve.

Unique Natural Features:

None known at this time.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

None known at this time.

Watershed and Fisheries Considerations:

The North Branch of the Manistee River flows through Compartment 109, and the East Lakes lie just to the north. All nessary procautions should be taken to protect these watersheds.

Wildlife Habitat Considerations:

Located within the northeastern region of Kalkaska County, the glacial geology underlying this Compartment 109 consists of ice-contact ridges, a broad flat outwash plain with sandy soils, and a broad flat outwash plain with peat/muck. State ownership within this compartment is almost entire, except for two blocks of private land within Sec. 01. Also, within this section, there is an old beaver flooding. The north branch of the Manistee River flows through this compartment, while East Lakes are just outside the boundary.

An ice-contact ridge with few kettle lakes comprises the west part of section 01 and the NW portion of section 12. Presettlement vegetation was mostly hardwoods forests of beech and sugar maple. Current vegetation saw a decrease in hardwoods, while also an increase of aspen. Management practices should reflect on keeping the forested stands at a mid-successional stage, which would be a common situation on this land type association. Inclusion of large course woody debris (CWD) is also desirable. These practices will benefit several species such as white-tailed deer, ruffed grouse, woodcock, and red-tailed hawk.

The jack pine stands, grasslands, and shrublands found within the pitted outwash plain are fire-dependent. Large wildfires were once reported by GLO surveyors. From presettlement times, there has been an increase of aspen. When applicable, management practices should mimic wildfires of various intensities. Timber sales should include dead and dying logs and the creation of leave-strips. Prescribed burning is an acceptable and essential part of maintaining the current open lands. Smaller openings can be maintained by felling encroachment.

The east parts of Section 1 & Section 12, and the northwest portion of Section 7 are comprised of a broad outwash plain with very poorly drained peat or muck. Lowland conifer forests dominate both presettlement and current vegetation. Maintaining these areas while mimicking natural disturbances may be a practical management objective. Windthrows were reported, so habitat cuts could be utilized to mimic these disturbances. Animals often found in this community may include white-tailed deer, red-shouldered hawk, black bear, spotted salamander, and massasauga rattlesnake.

The southeast half of Section 7 is comprised of an ice contact ridge with many kettle lakes. Topography includes steep, large, ridges. Soils are excessively drained sand. Conifer forests once dominated these areas during presettlement times. Within this compartment, present vegetation is comprised of aspen stands with mixed hardwoods, and pine plantations. GLO surveys reported an occasional wildfire. Wildlife considerations may include prescribed burning, maintaining the mixed aspen/shrubland stands, and timber practices that maintain tree species diversification and coarse woody debris (CWD).

Mineral Resource and Development Concerns and/or Restrictions

There is no known metallic mineral potential in this part of the state. The closest known active sand/gravel pit is approximately two miles north. There is some potential for sand & gravel within the compartment on the uplands, but demand for aggregate in the area may be limited to local road maintenance. The compartment occurs at the southern margin of the northern Silurian reef hydrocarbon play. Some test wells have been drilled in and around the compartment targeting Silurian reefs but limited production. There has been some minor production from the Antrim Shale and Traverse Group. In addition, there continues to be some production of hydrocarbons from the Collingwood Formation just south of the compartment. The Collingwood, however, has not been proven to be a successful economic play in the state, and there has not been any significant interest in further development of the formation in recent years. New oil & gas leases were issued to Lambda Energy in the compartment in 2023 but no well permit applications have been submitted for the area to date. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

There is adequate access throughout the compartment.

Survey Needs:

None known at this time.

Recreational Facilities and Opportunities:

Both the Blue Bear snowmobile trail and Kalkaska ORV route run through sections 1, 12, and 7. Both these motorized trails utilize a portion of Sunset Trail Road (County Road). Section 7 also has a small section of the North Country Trail (NCT) non-motorized recreational trail, and a section of Kalkaska ORV Trail, which is 50 inch width designed for ATV use. Appropriate trail protection specifications should be included in the timber sale contracts to reduce impacts on all of these recreational trails.

Fire Protection:

Fire response will be provided from the Kalkaska Field Office. Just a few red pine stands scattered throughout the compartment are the only real concern, plus most have good access along main roads

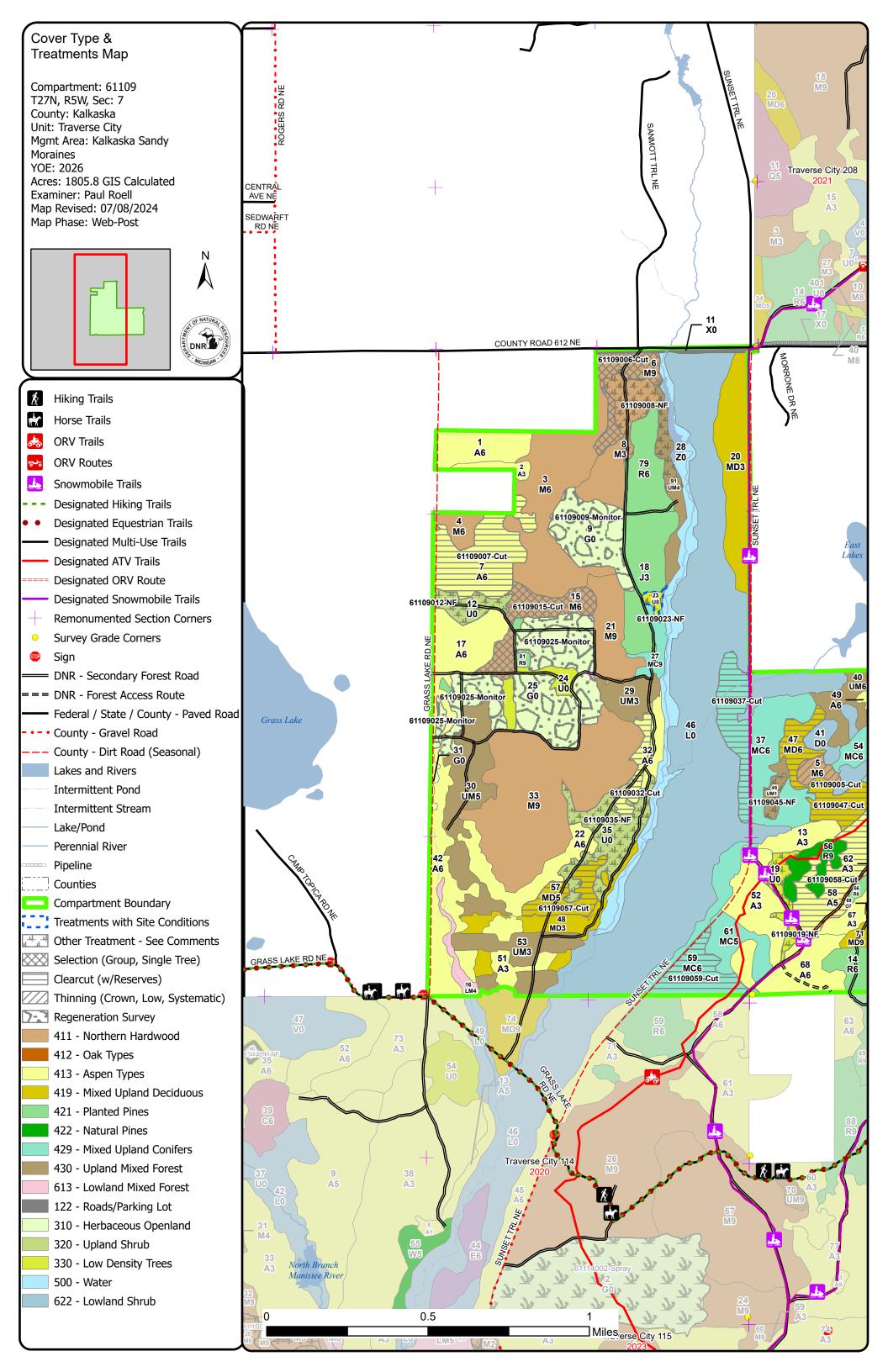
Additional Compartment Information:

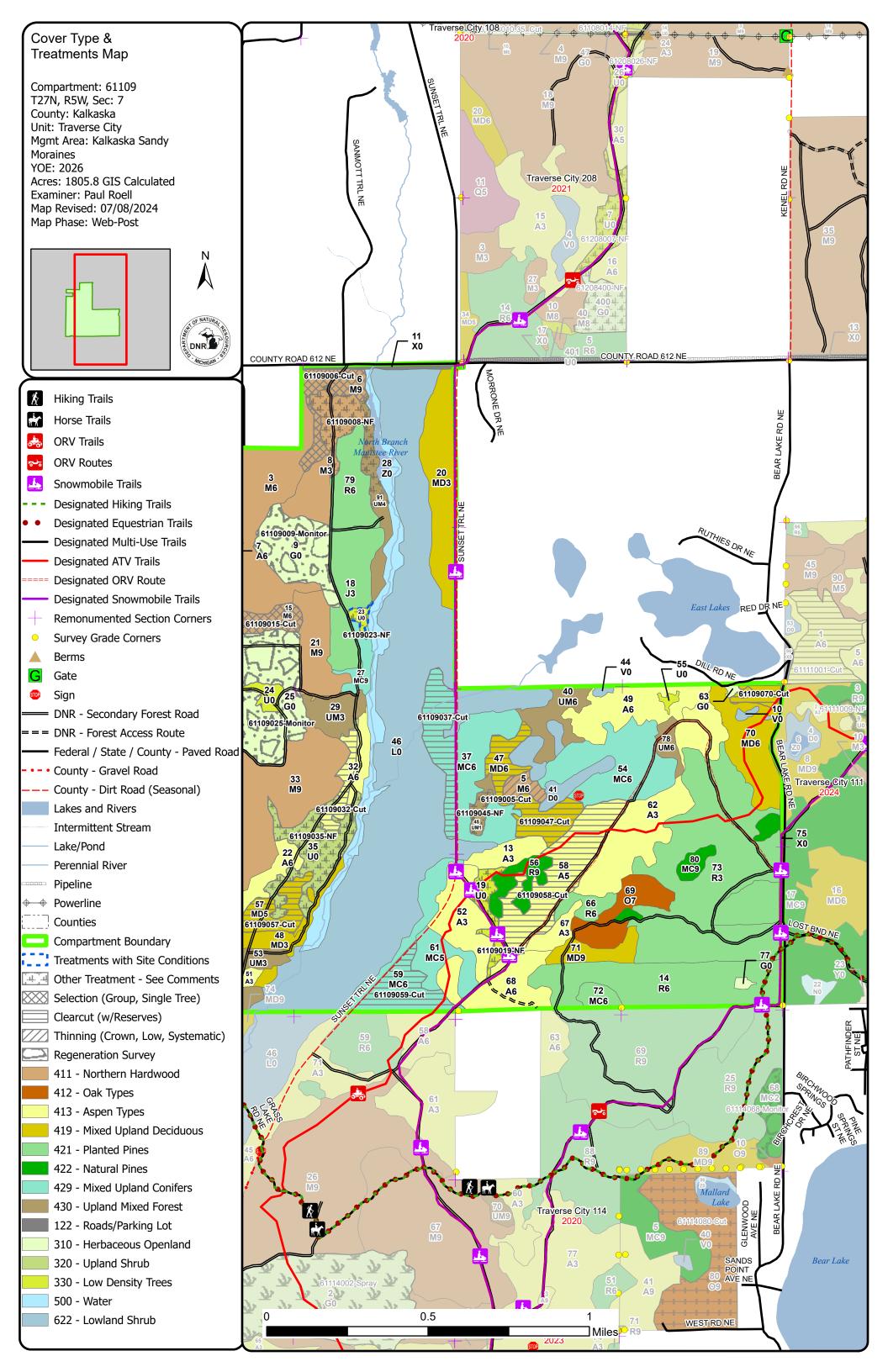
The following reports from the Inventory are attached:

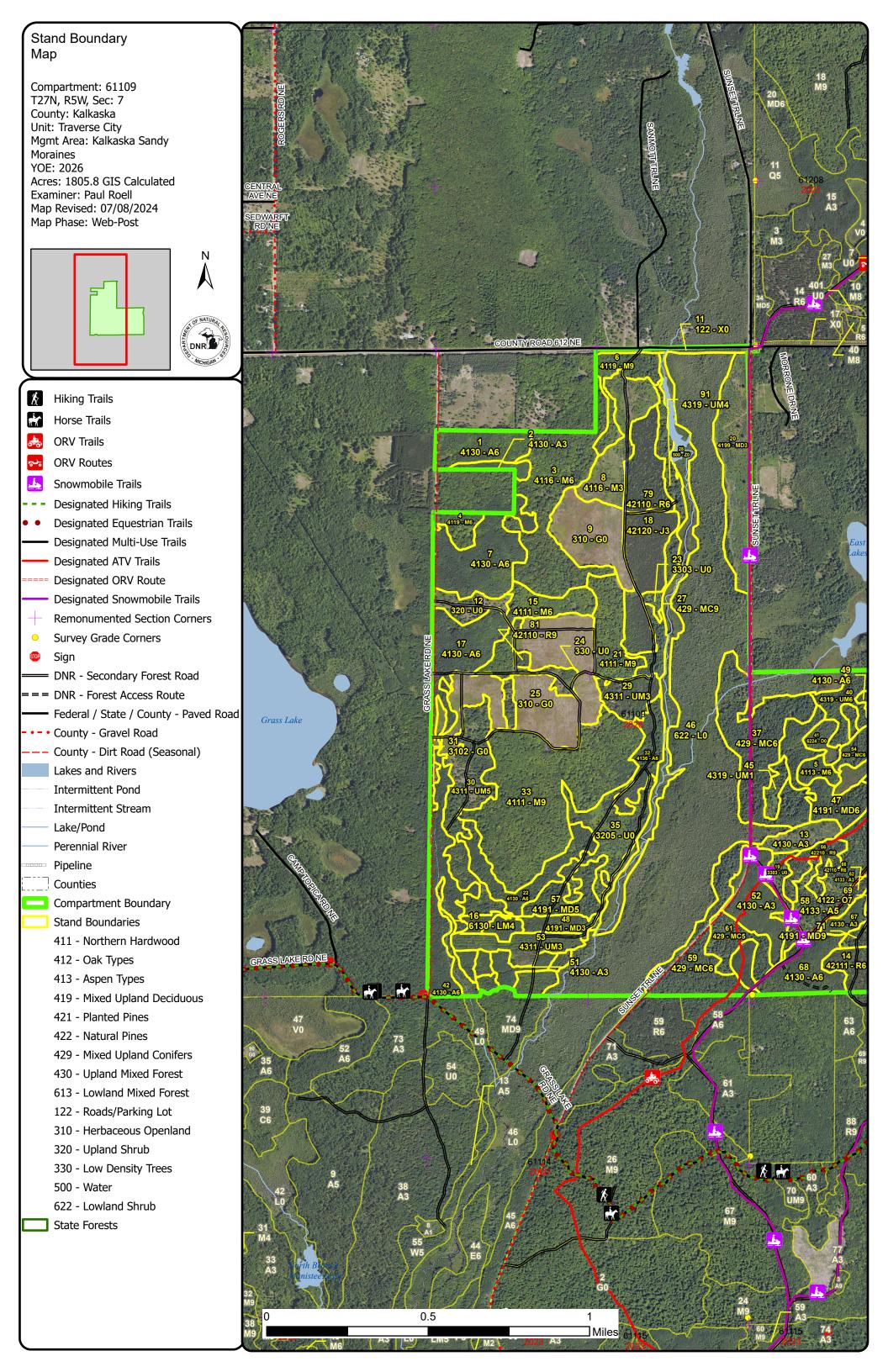
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

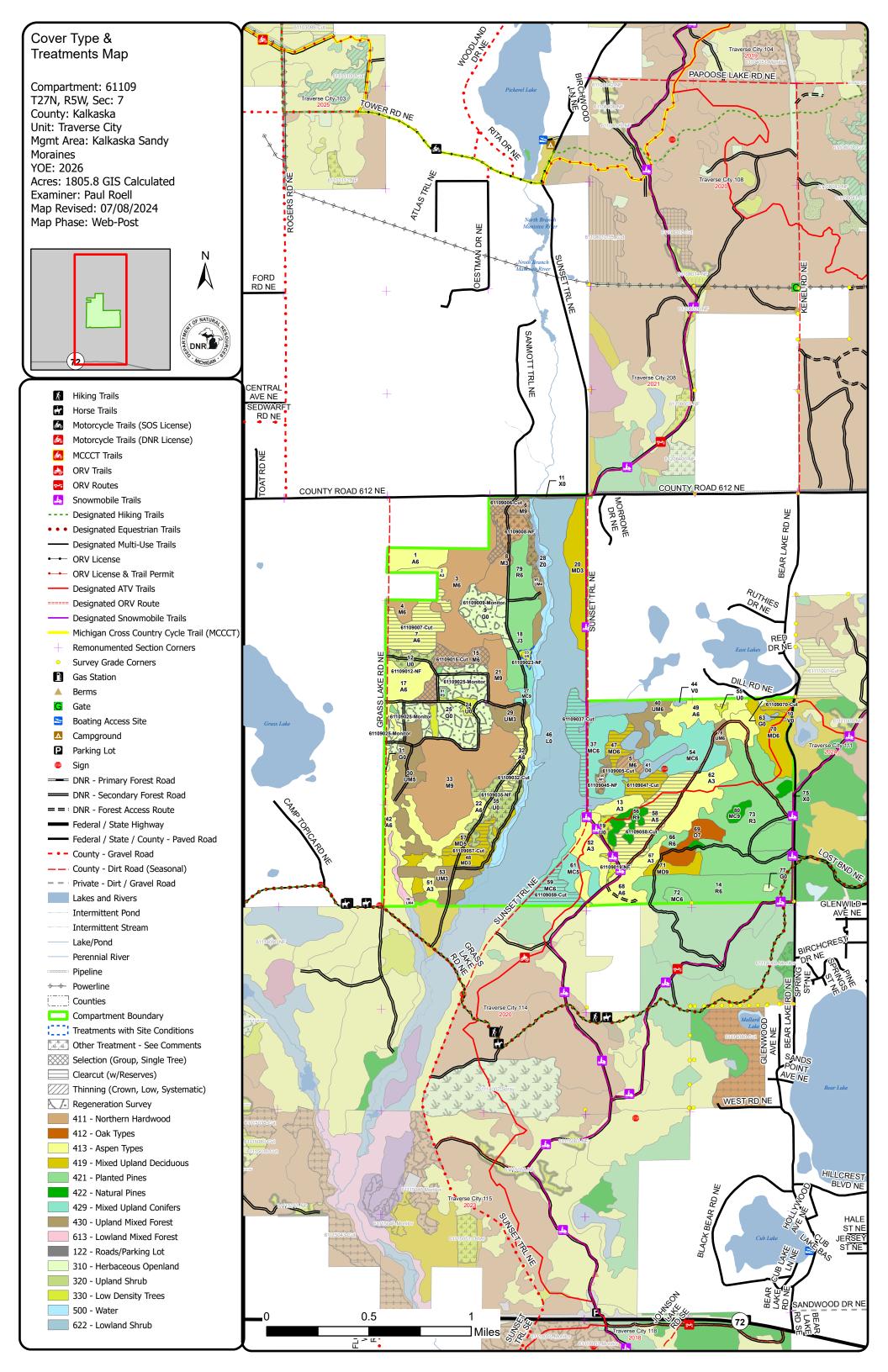
The following information is displayed, where pertinent, on the attached compartment maps:

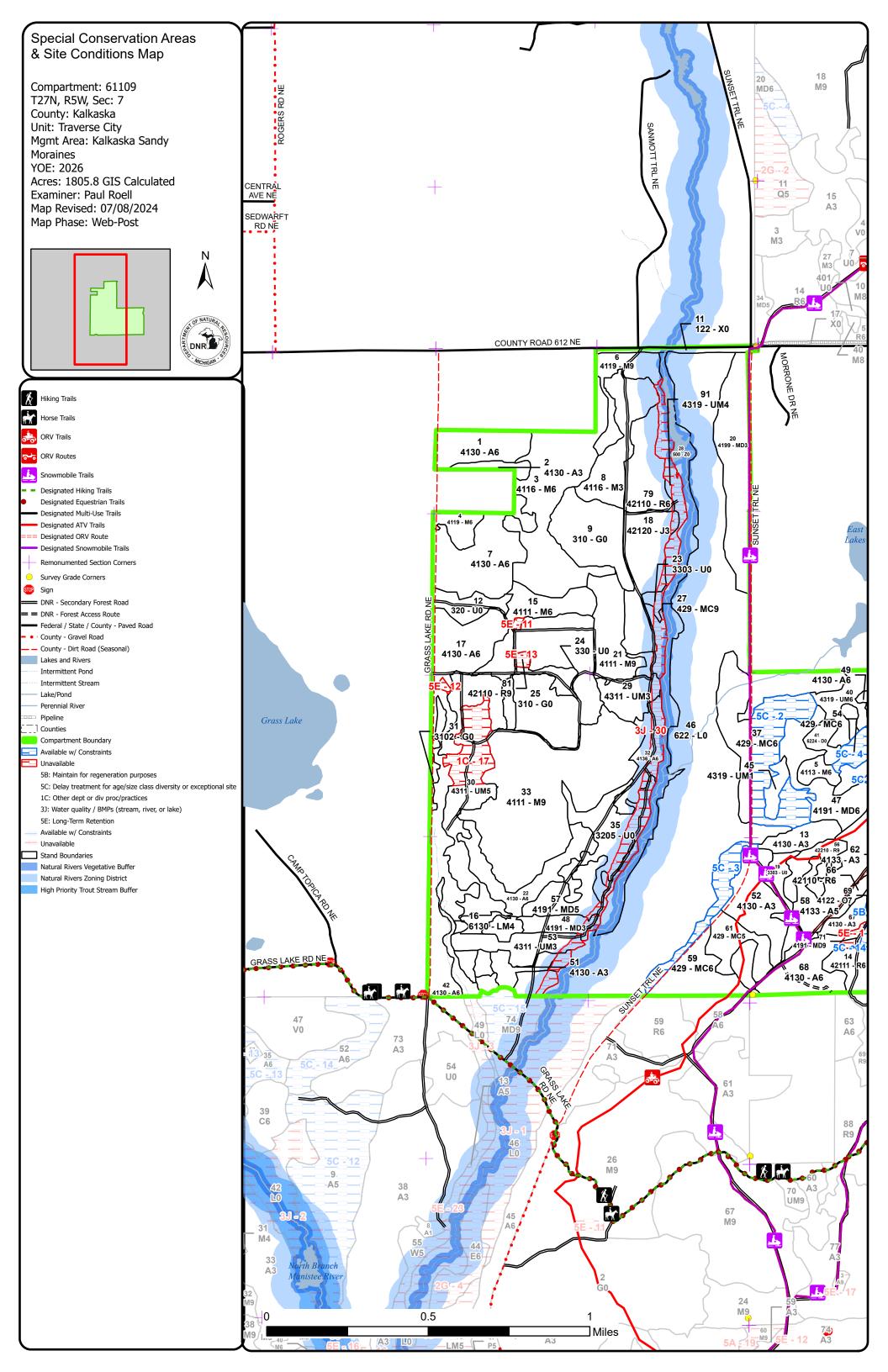
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

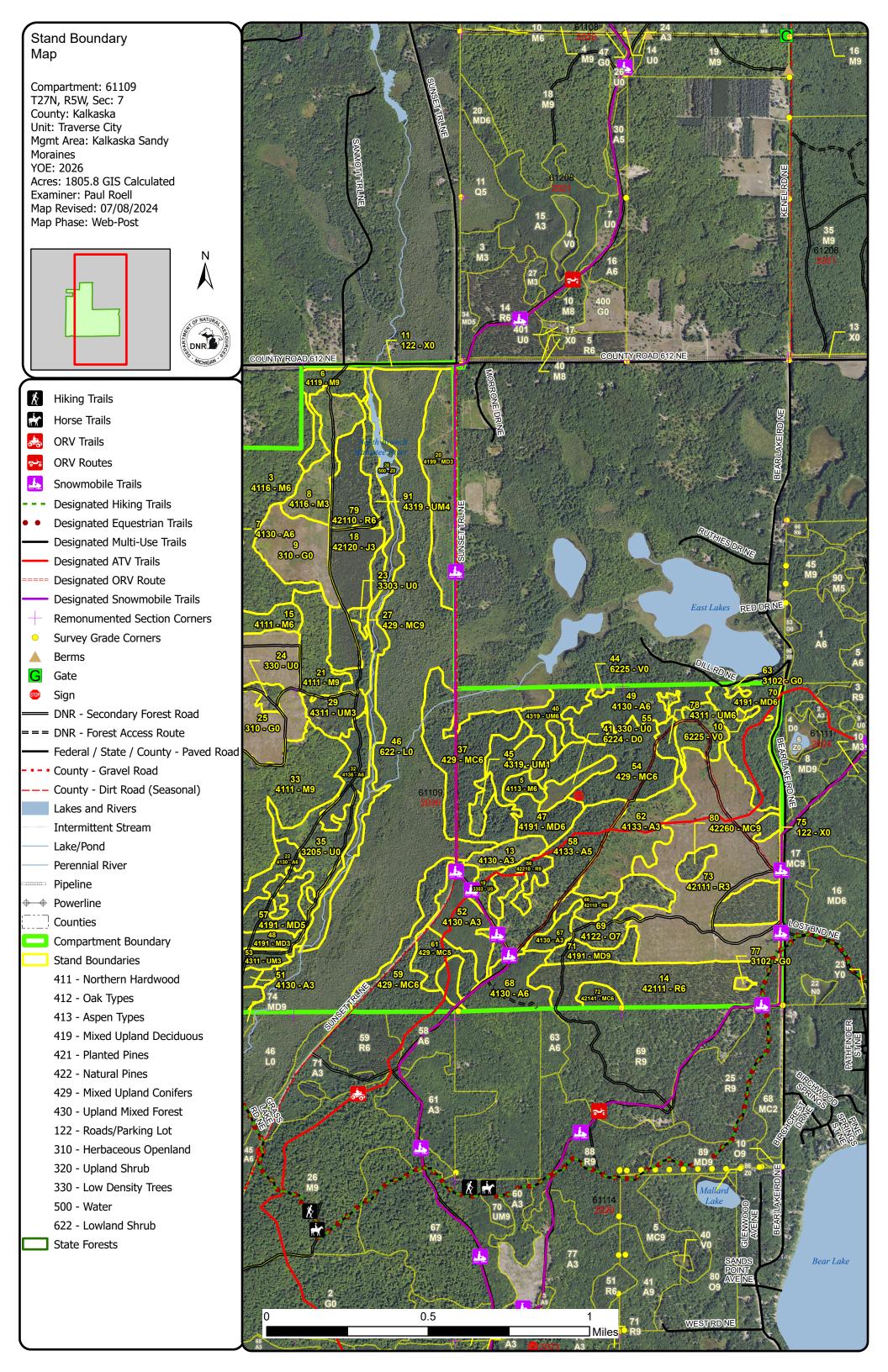


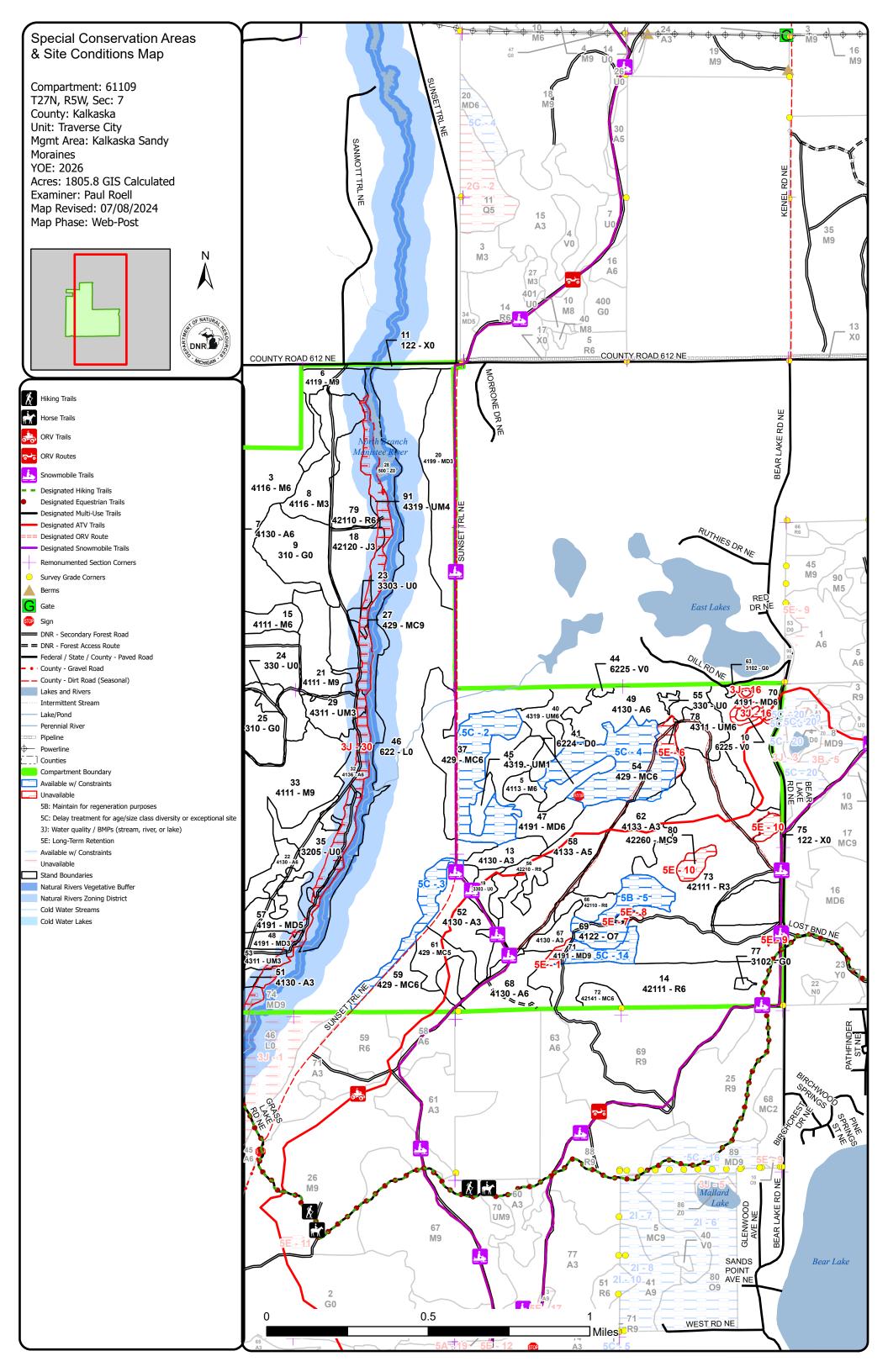












Paul Roell: Examiner



Age Class

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Aspen	0	58	11	43	72	170	0	0	0	0	0	0	0	0	0	0	0	0	354
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Herbaceous Openland	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
Jack Pine	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Low-Density Trees	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Mixed Forest	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Shrub	263	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	263
Mixed Upland Deciduous	0	37	0	15	18	33	24	0	0	0	11	0	0	0	0	0	0	0	138
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Northern Hardwood	0	26	0	0	7	0	0	5	57	56	103	0	0	0	0	0	0	0	253
Oak	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	19
Planted Mixed Pines	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Red Pine	0	117	0	21	0	0	80	3	11	0	0	0	0	0	0	0	0	0	232
Treed Bog	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Upland Conifers	0	0	0	0	0	14	0	33	94	7	0	0	0	0	0	0	0	0	147
Upland Mixed Forest	0	0	41	0	38	19	0	0	15	0	0	0	0	0	0	0	0	0	113
Upland Shrub	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Urban	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Water	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Total	497	238	52	110	141	236	109	41	177	72	133	0	0	0	0	0	0	0	1804



Report 2 - Treatment Summary

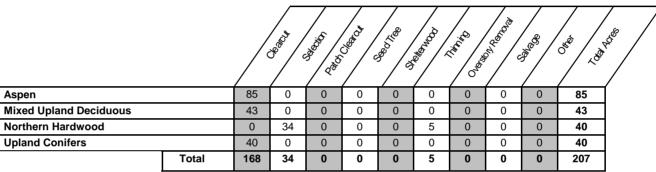
Traverse City Mgt. Unit Year of Entry: 2026

Acres of Harvest

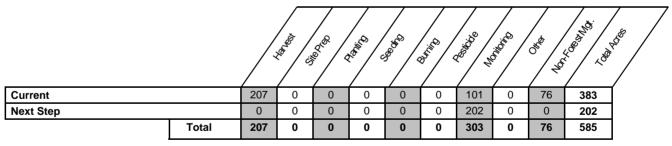
Compartment 109
Total Compartment Acres: 1,806

Commercial Harvest - 207 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Report 3 -- Treatments

Compartment: 109
Year of Entry: 2026

Habitat

Cut

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Treatment Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Method Objective Structure Name CoverType Density Age Range Type

Proposed Treatments:

5 61109005-Cut 5.1 4113 - R.Maple, Poletimber 65 111- Harvest Crown Thinning 411 - Northern Uneven-Conifer Well 140 Hardwood Aged

<u>Prescription</u> mark to cut the stand down to a residual basal area of 70-80 square feet per acre. Target the trees with top dieback or poor form for harvest. <u>Specs:</u>

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

61109006-Cut Harvest 411 - Northern Uneven-14.3 4119 - Mixed Sawtimber 111-Single Tree No Northern Hardwoods Well 140 Selection Hardwood Aged

<u>Prescription</u> mark to cut the stand down to a residual basal area of 70-80 square feet per acre. Target the trees with top dieback or poor form for harvest. <u>Specs:</u> Create some 150'-200' regen gaps. It would be probably best to line these out and try to get 3 of these in the sale area.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable hard and soft maple, cherry, and some oak or basswood

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

7 61109007-Cut 36.9 4130 - Aspen Poletimber 45 81-110 Harvest Clearcut with 413 - Aspen Even-Aged No Well Retention

<u>Prescription</u> Final harvest stand to regenerate aspen. Mark to leave no more than 2 trees per acre of large pine or oak if desired and feasible.

Specs:

Protect the rec trails, include drumming log spec and have considerations for oak wilt in mind during sale prep.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, red maple, mixed hardwood and pine

Regen:

<u>Other</u>

Comment:

Site Condition

Report 3 -- Treatments

Compartment: 109 Year of Entry: 2026

Treatment Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Habitat n CoverType Method Objective Name Density Age Range Type Structure Cut d 8 61109008-NF 21.2 4116 - Mixed N. Sapling Immatu NonForestMgt Fruit Tree/Shrub 3204 - Mast Nο Well Hardwood - Aspen Planting **Producing Shrub**

Specs:

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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 some native grasses and forbs.

Next Step **Treatments:**

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

61109012-NF 9.6 320 - Upland Shrub Nonstocked Unspec NonForestMgt Fruit Tree/Shrub 3204 - Mast No ified **Planting** Producing Shrub

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 Specs: need to fertilize plantings and protect with wire cages or tubex.

Could also seed in some native grasses and forbs.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

4111 - S.Maple, 85 61109015-Cut 20.1 Poletimber 111-Harvest Single Tree 411 - Northern Uneven-No Hard Mast Well 140 Selection Hardwood Aged Association

Prescription mark to cut the stand down to a residual basal area of 70-80 square feet per acre. Target the trees with top dieback or poor form for harvest. Create some 150'-200' regen gaps. It would be probably best to line these out and try to get about 4 of these in the sale area. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable sugar and red maple, cherry, oak and some basswood

Regen: <u>Other</u>

Comment:

Site Condition

Acres

Report 3 -- Treatments

Compartment: 109 Year of Entry: 2026

Objective

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Cover Type Age Habitat

Cut

Structure

3204 - Mast 19 61109019-NF 10.0 3303 - Mixed Low Nonstocked Immatu NonForestMgt Fruit Tree/Shrub Nο

BA

Range

Density Trees

Stand

CoverType

Size

Density

Stand

Age

Producing Shrub Planting

Treatment

Method

Specs:

Treatment

Name

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 some native grasses and forbs.

Treatment

Type

Next Step **Treatments:**

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

61109023-NF 2.3 3303 - Mixed Low Nonstocked Unspec NonForestMgt Fruit Tree/Shrub 3204 - Mast No **Density Trees** ified **Planting** Producing Shrub

Specs:

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 some native grasses and forbs.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition **BMPs**

Proposed Start Date: 10/1 /2025

32 61109032-Cut Poletimber 49 81-110 Clearcut with No 8.0 4136 - Aspen, Harvest 413 - Aspen Even-Aged Mixed Conifer Well Retention

Prescription Final harvest stand to regenerate aspen. Leave white pine under 6 inch in diameter. Mark to leave no more than 2 trees per acre of large Specs: pine or oak if desired and feasible.

area retention is accounted for within the river buffer site condition.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, red maple, pine and oak

Regen: **Other** Comment:

Site Condition

Report 3 -- Treatments

Compartment: 109 Year of Entry: 2026

а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Habitat n Method Density Objective Structure Name CoverType Age Range Type Cut d 3204 - Mast 35 61109035-NF 28.6 3205 - Mixed Nonstocked Immatu NonForestMgt Fruit Tree/Shrub Nο Producing Shrub **Upland Shrub** Planting

Specs:

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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 some native grasses and forbs.

Next Step **Treatments:**

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

37 61109037-Cut 20.6 429 - Mixed Upland Poletimber 111-Harvest Clearcut with 4133 - Aspen, Even-Aged No Mixed Pine Conifers Well 140 Retention

Prescription Final harvest stand to regenerate aspen. Leave white pine under 6 inch in diameter. Mark to leave no more than 2 trees per acre of large

Specs: pine or oak if desired and feasible.

sign and protect rec trail during the harvest. if cut in the wintertime encourage producer to haul wood south to 72

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, red maple and mixed pine

Regen: Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

4319 - Mixed Immatu NonForestMgt Fruit Tree/Shrub 3204 - Mast No 61109045-NF 3.9 Sapling 15 **Upland Forest** Poor **Planting** Producing Shrub

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 Specs:

need to fertilize plantings and protect with wire cages or tubex.

Could also seed in some native grasses and forbs.

Next Step Treatments:

<u>Acceptable</u> Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2025

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109 2026	OF NATURAL PROPERTY OF NAT
A ~ ~	Habitat

S t									Year of Entr	//	DNR
a n d	Treatment Name	Acres	Stand CoverType		Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
47	61109047-Cut	23.8	4191 - Mixed Upland Deciduous with Conifer	Poletimbe Well	r 52	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
Presc Specs	<u>s:</u>	d protect	and to regenerate as								wood
Next S Treat			ıral Regen (Re-Inver	ntory)							
Accer Rege		red mapl	e, and mixed pine								
Other Comr	-										
Site C	<u>Condition</u>										
Propo	osed Start Date	<u>:</u> 10/1 /2	025								
57	61109057-Cut	14.0	4191 - Mixed Upland Deciduous with Conifer	Poletimbe Medium	r 38	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
Presc Specs			and to regenerate as sired and feasible.	pen. Leave	all whit	e pine un	der 6 inch in dia	ameter. Mark to leav	ve no more than 2	trees per acre	e of large
	Include	Drummir	ng log spec								
Next S Treat	<u>Step</u> Monito <u>ments:</u>	ring, Natu	ıral Regen (Re-Inver	ntory)							
Accer Rege		red mapl	e, cherry and mixed	pine							
Other Comm	-										
Site C	<u>Condition</u>										
Propo	osed Start Date	<u>:</u> 10/1 /2	025								
58	61109058-Cut	39.6	4133 - Aspen, Mixed Pine	Poletimbe Medium	r 46	1-50	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
Presc Specs			and to regenerate as pine or oak if desire			pine und	er 6 inch in diar	meter and all white	oak. Mark to lea	ve no more tha	n 2 trees
	sign ar 72	d protect	rec trail during the h	narvest inclu	ide the	drumming	g log spec. if cu	at in the wintertime of	encourage produc	er to haul woo	d south to
Next S Treat	Step Monito ments:	ring, Natu	ıral Regen (Re-Inver	ntory)							
Accer Rege		red mapl	e, cherry, oak and p	ine							
Other Comr											

Site Condition

Report 3 -- Treatments

Compartment: 109 Year of Entry: 2026

4211 - Planted

Artificial

DNR DNR

t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Habitat n Method Range Objective Name CoverType Density Age Type Structure Cut d 59 61109059-Cut 19.6 429 - Mixed Upland Poletimber 81-110 Harvest Clearcut with 4133 - Aspen, Even-Aged No Mixed Pine Conifers Well Retention Prescription Final harvest stand to regenerate aspen. Leave white pine under 6 inch in diameter. Mark to leave no more than 2 trees per acre of large pine or oak if desired and feasible. Specs: Protect rec trail during harvest. Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable aspen, red maple, mixed hardwood and pine Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2025 70 61109070-Cut 5.0 4191 - Mixed Poletimber 43 51-80 Harvest Clearcut with 413 - Aspen Even-Aged No **Upland Deciduous** Well Retention with Conifer Prescription Final harvest stand to regenerate aspen. Mark to leave no more than 2 trees per acre of large pine or oak if desired and feasible. . Specs: Retention for this harvest and future harvests on stand 70 has been put in site condition layer. sign and protect rec trail during the harvest. Next Step Monitoring, Natural Regen (Re-Inventory) Treatments: Acceptable aspen, red maple, oak, and pine Regen:

Other

S

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

28.9 310 - Herbaceous

Nonstocked

Approved Treatments:

61109009-

Monitor Openland ified Regen(3yr) Red Pine **Prescription** Specs: Next Step **Treatments:** planted red pine which meets minimum stocking requirements Acceptable Regen: Percent to Treat = 100% Other Comment: Site Condition Proposed Start Date: 10/1 /2025

Unspec

Monitoring

Nο

Even-Aged

S t	Tr	averse Ci	ty Mgt. Unit		Repo	rt 3 ⁻	Treatments		Compartmer Year of Entr		DNR DNR
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
25	61109025- Monitor	71.8	310 - Herbaceous Openland	Nonstocke	ed 0	Unspec ified	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	d No
Next Treat Acce Rege	Step ments: ptable fully sten:	tocked sta	nd of red pine that n	neets minim	num reç	gen levels					
Site (Condition osed Start Date	<u>e:</u> 10/1/2	025								

Total Treatment 383.3 Acreage Proposed:

Paul Roell: Examiner

Availa	ability for	Managemer	nt						
Total	Acres	Acres Avail	Acres		Domina	nt Site	e Con	dition	s
Acres	Available	With Condition	Not Available		5B	5C	1C	3J	5E
353	345	0	7	Aspen		0		7	0
3	3	0	0	Bog					
105	105	0	0	Herbaceous Openland					0
31	29	0	2	Jack Pine				2	
22	21	0	1	Low-Density Trees				1	
6	6	0	0	Lowland Mixed Forest					
263	263	0	0	Lowland Shrub					
138	118	9	12	Mixed Upland Deciduous		9		10	2
9	0	0	9	Natural Mixed Pines					9
254	254	0	0	Northern Hardwood				0	0
19	0	19	0	Oak	19				0
5	5	0	0	Planted Mixed Pines					
232	230	0	2	Red Pine				0	2
15	15	0	0	Treed Bog					
148	57	86	4	Upland Conifers		86		4	
113	74	0	39	Upland Mixed Forest			16	17	5
38	31	0	8	Upland Shrub				8	
11	11	0	0	Urban					
40	40	0	0	Water				0	
1,806	1,607	115	84	Total Forested Acres	19	95	16	49	18
	89%	6%	5%	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.

ite Dominant Site lo. Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						

Report 4 – Site Conditions

Traverse City Mgt. Unit

Paul Roell: Examiner

2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Report 4 – Site Conditions

Traverse City Mgt. Unit
Paul Roell: Examiner

8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
10	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
(Comments:						
11	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
13	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Report 4 – Site Conditions

Traverse City Mgt. Unit

Compartment: 109 Year of Entry: 2026 Paul Roell: Examiner

16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
С	omments:						
17	Unavailable	1C: Other dept or div proc/practices	16	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
30	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	46	Unspecified	Unspecified	Unspecified	Unspecified

7/3/2024 3:54:42 PM - Page 4 of 4 SAJJ 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
Comments				

Traverse City Mgt. Unit Compartment: 109 Year of Entry 2026





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.

Conservation Area	n Type	Description	HCVA = High Conservation Value Area SCA = Special Conservation Area
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived approved distance from the river centerlines. The Natura most Natural Rivers. The Vegetative Buffer ranges from	I Rivers Zoning District is a 400 foot buffer for



_		over Type	S	ize De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
1	4130	- Aspen	Po	oletimb	er Well	18.7	37	51-80	N/A		Cut in 1986 using a green tree method.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Ironwood	5	Sapling/Pole	3		Mar	ole (spp.)	High	Variable	Sapling	
	Beech	5	Log/Pole	10							
	Bigtooth Aspen	40	Pole	7	37						
	Quaking Aspen	20	Pole/Sapling	6	37						
	Basswood	5	Log/Pole	10							
	Sugar Maple	25	Pole/Log	9							
2	4130	- Aspen	5	Saplin	y Well	4.4	16 I	Immature	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age						
	Red Maple	20	Sapling	2							
	Sugar Maple	15	Sapling	1							
	Bigtooth Aspen	65	Sapling	3	16						
3	4116 - Mixed N. Canopy Species		- Aspen Po		er Well	57.0	75 nopy Species	81-110 Density	N/A Avg. Height	Size	
	Sugar Maple	25	Pole/Log/Sap	7	75		gar Maple	Medium	Variable	Sapling	
	Beech	10	Pole/Log	8	73		d Maple	Low	Variable	Sapling	
	Bigtooth Aspen	20	Pole	8		110	a mapio	2011	Variable	Caping	
	Basswood	15	Pole/Log/Sap	6							
	Paper Birch	10	Pole/Sapling	5							
	Red Maple	20	Pole/Log/Sap	7							
4	4119 - Mixed No	orthern Har		oletimb	er Well	7.3	34	51-80	N/A		Good acess of Grass Lake Rd NE to the west. Good sugar maple and
	Canopy Species	% Cover	Size Class	DBH	l Age						aspen regen.
	Bigtooth Aspen	15	Pole/Log	8	52						
	White Pine	10	Sapling/Pole	3							
	Sugar Maple	50	Sapling/Pole/Log	g 4	34						
				_							
	Ironwood	5	Pole/Sapling	6							
	Ironwood Basswood	5	Pole/Sapling Pole/Log	6							



Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	ite	General Comments
5	4113 - R.N	laple, Conif	er P	oletimb	er Well	5.1	65	111-140	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	White Pine	10	Pole	6		W	hite Pine	Low	Variable	Sapling	
	Black Cherry	10	Pole/Log	8		Ва	ılsam Fir	Low	Variable	Sapling	
	Red Maple	50	Pole/Log	8	65	Re	ed Maple	Low	Variable	Sapling	
	Balsam Fir	15	Pole/Sap/Log	5							_
	Paper Birch	5	Pole	5							
	Bigtooth Aspen	10	Log	10							
6	4119 - Mixed No	orthern Hard	dwoods S	awtimbe	er Well	14.3	87	111-140	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Sugar Maple	30	Log/Pole	10	87	Ma	ple (spp.)	Low	Variable	Sapling	
	Red Maple	30	Log/Pole	10			Beech	Low	Variable	Sapling	
	Basswood	30	Log/Pole	10	65						-
	Beech	5	Log/Pole	10							
	Ironwood	5	Sapling/Pole	4							
7	4130	- Aspen	Р	oletimb	er Well	36.9	45	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Paper Birch	5	Pole	8	45	Re	ed Maple	Medium	Variable	Sapling	
	Quaking Aspen	15	Pole	8	45	Ir	onwood	Low	Variable	Sapling	
	Bigtooth Aspen	60	Pole/Log	8	45						
	Red Maple	15	Pole	7							
	Sugar Maple	5	Pole/Sapling	6							
8	4116 - Mixed N.	Hardwood	- Aspen	Sapling	Well	26.4	4	Immature	N/A		Stand was harvested fall/winter of 2020/21
	Canopy Species	% Cover	Size Class	DBH	Age						
	Black Cherry	5	Sapling	1							
	White Pine	5	Sapling/Pole	4							
	Red Maple	25	Sapling/Pole	3							
	Bigtooth Aspen	35	Sapling	1	4						
	Sugar Maple	30	Sapling	3							
9	310 - Herbac	eous Open	land	Nonsto	cked	28.9	U	Inspecified	4211 - Planted	Red Pine	2023 - Stands Year 1 Regeneration Survey was completed 10/16/202 Stand is currently 863 trees per acre and 97% Free to Grow at this tim 2023 - Stand was planted to red pine, 922 TPA 2022 - July 2022 Stand was Site Prep Sprayed with Contract Helicopt 2021 - Stand was trenched
10	622	5 - Bog		Nonsto	cked	1.5	L	Inspecified	No		



Stand	Level 4 C	Level 4 Cover Type			Size Density		Stand Age	BA Range	Managed S	Site	General Comments
11	122 - Roa	d/Parking L	ot	Nonsto	cked	5.1		Unspecified	No		
12	320 - Up	oland Shrub		Nonsto	cked	9.6		Unspecified	No		
13	4130	- Aspen		Sapling	Well	9.7	5	Immature	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age						
	White Pine	5	Log/Pole	10	75						
	Red Pine	5	Log	12							
	Red Maple	30	Sapling	1	5						
	Quaking Aspen	25	Sapling	1	5						
	Bigtooth Aspen 35 Sapling		Sapling	1	5						
14	35 Sapling 42111 - Planted Red Pine, Mixed Deciduous		Mixed F	Poletimber Well		73.0	58	81-110	N/A		Planted in 1966. Planting records mention that due to oak slash ro may be variable. VERY VARIABLE. Thinned in 2020 sale went go
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	
	Red Maple	10	Pole/Log	7		R	ed Oak	Low	Variable	Sapling	
	Red Pine	65	Pole	8	58					1	
	Red Oak	15	Pole/Log	7							
	Bigtooth Aspen	10	Pole/Log	8							
15	4111 - S.Maple, H	ard Mast As	ssociation F	Poletimb	er Well	20.1	85	111-140	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	
	Beech	15	Pole/Log	8		Sug	gar Maple	Low	Variable	Sapling	
	Bigtooth Aspen	5	Log/XLog	14			Beech	Medium	Variable	Sapling	
	White Pine	5	Pole/Log	8							_
	Basswood	5	Pole/Log	9							
	Sugar Maple	55	Pole/Log	8	85						
	Red Maple	15	Pole/Log	8							
16	6130 - Fir,	Aspen, Mar	ole F	Poletimb	er Poor	5.6	36	1-50	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	
No	rthern White Cedar	15	Pole	6	65	Re	ed Maple	Low	Variable	Sapling	
	Red Maple	10	Pole/Log/Sap	5		Ta	ag Alder	Low	5 - 10 feet	Tall Shrub	ıb
	Quaking Aspen	35	Sapling/Pole	4	36						
	White Pine	10	Log	10							
	Balsam Fir	25	Pole	6							
	Black Cherry	5	Sapling/Pole	5							



Stand	d Level 4 C	over Type		Size De	ensity	Acres	Stand Age E	BA Range	Managed S	iite	General Comments
17	4130	- Aspen		Poletimb	er Well	28.5	45	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
No	orthern White Cedar	2	Pole	8		Re	d Maple	High	Variable	Sapling	
	Quaking Aspen	10	Pole	7						1	
	White Pine	8	Log/Pole	13							
	Red Maple	5	Pole	6							
	Bigtooth Aspen	65	Pole	8	45						
	Black Cherry	5	Pole	6							
	Sugar Maple	5	Pole	6							
18	42120 - Pla	nted Jack F	Pine	Saplin	g Well	30.8	22	Immature	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age						
	Jack Pine	98	Sapling	4	22						
	Red Maple	2	Sapling/Pole	e 4							
19	3303 - Mixed L			Nonsto		10.0		Immature	No		
20	4199 - Other Mixe			Sapling		37.4	6	Immature	N/A		Sale closed fall of 2019. There were a few large maples, one beech and some pines left
	Canopy Species		Size Class		l Age						como pinos ion
	Bigtooth Aspen	15	Sapling	1							
	Black Cherry	20	Sapling	1	6						
	Balsam Fir	5	Sapling	3							
	Red Maple	30	Sapling	1	6						
	Quaking Aspen	20	Sapling	1	6						
	White Pine	10	Sapling	3							
21	4111 - S.Maple, H	ard Mast A	ssociation	Sawtimb	er Well	21.4	88	81-110	N/A		This stand was last thinned in 2009
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Sugar Maple	55	Log/Pole	10	88	Irc	nwood	Full	5 - 10 feet	Sapling	
	Red Maple	20	Log/Pole	10		Е	Beech	Medium	Variable	Sapling	
	Basswood	10	Log/Pole	10		Sug	ar Maple	Low	Variable	Sapling	
	Beech	15	Log/Pole	10							-



Stand	d Level 4 C	over Type	(Size De	ensity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
22	4130	- Aspen	Р	oletimb	er Well	21.1	36	81-110	N/A		Previously final harvested around 1986. Great access off N Grass Lake
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	s Density	Avg. Height	Size	Rd NE. Wet stand with fingers of wet drainage areas throughout the stand.
	Quaking Aspen	40	Pole	6	36	Е	Beech	Low	Variable	Sapling	otalia.
	White Pine	10	Log	10		Bal	sam Fir	Low	Variable	Sapling	
	Black Cherry	5	Pole/Sapling	5							
	Balsam Fir	5	Sapling/Pole	4							
	Bigtooth Aspen	30	Pole	7	36						
	Red Maple	10	Pole/Log/Sap	5							
23	3303 - Mixed L	ow Density	/ Trees	Nonsto	ocked	2.3	ı	Unspecified	No		
24	330 - Low-	Density Tre	ees	Nonsto	ocked	8.4		Immature	No		
25	310 - Herbac	ceous Oper	nland	Nonsto	ocked	71.8	0	Unspecified	4211 - Planted	Red Pine	2023 -Stand was planted to 922 TPA of Red Pine. Stands year 1 regeneration survey was completed 10/16/2023. There currently is 881 trees per acre and stand is 99% free to grow at this time. 2023 - Stand was Planted to Red Pine, 922 TPA 2022 - July 2022 Stand was Site Prep Sprayed with Contract Helicopter Stand was trenched spring of 2021
27	429 - Mixed l	Upland Cor	nifers S	Sawtimb	er Well	7.2	89	111-140	N/A		
	Canopy Species	% Cover	Size Class	DBF	I Age	Sub-Car	nopy Species	s Density	Avg. Height	Size	
	Bigtooth Aspen	5	Pole/Log	8		Wh	ite Pine	Low	Variable	Sapling	
	Sugar Maple	10	Pole/Log	8		Мар	ole (spp.)	Low	Variable	Sapling	
	Red Pine	5	Log/Pole	12		Bal	sam Fir	Medium	Variable	Sapling	
	Balsam Fir	10	Pole/Sapling	7		Е	Beech	Low	Variable	Sapling	
	Black Cherry	5	Pole/Sapling	5							_
	White Pine	50	Log/XLog/Pole	14	89						
	Red Oak	5	Log/Pole	12							
	Red Maple	10	Pole/Sapling	7							
28	500	- Water	_	Nonsto	ocked	40.2	l	Unspecified	No		river/creek corridor with lowland shrubs



and	Level 4 Co									
9	4311 - Pind	e, Aspen M	lix S	Saplin	g Well	12.8 17	Immature	N/A		Well stocked, Planted to the west with possible natural seeding in on t east side.
	Canopy Species	% Cover	Size Class	_	l Age					east side.
	Red Maple	5	Sapling	3						
	Sugar Maple	20	Sapling	4						
	Jack Pine	40	Sapling	4	17					
	White Pine	10	Sapling	4						
	Red Pine	5	Pole	6						
	Red Oak	5	Sapling/Pole	4						
	Bigtooth Aspen	15	Sapling	3	18					
30	4311 - Pine	e, Aspen M	lix Pole	timbe	r Mediur	n 37.5 35	51-80	N/A		
	Canopy Species		Size Class		I Age	Sub-Canopy Spe		Avg. Height	Size	
	White Pine		Sapling/Pole/Log	j 4	35	Bigtooth Aspen	Low	5 - 10 feet	Sapling	
	Black Cherry	15	Pole/Sap/Log	5		White Pine	Low	5 - 10 feet	Sapling	
	Quaking Aspen	15	Sapling/Pole	4						
	Balsam Fir	5	Pole/Sapling	6						
	Red Maple	5	Pole/Sapling	7						
	Bigtooth Aspen	5 10 - Grass	Sapling/Pole	4 Nonst	ocked	1.9	Immature	No		
31	Bigtooth Aspen	- Grass	Sapling/Pole	4 Nonst	ocked er Well	1.9	Immature 81-110	No N/A		Some beaver activity on the east side along the two track. Larger white
31 32	Bigtooth Aspen 3102	- Grass	Sapling/Pole	4 Nonst			81-110		Size	Some beaver activity on the east side along the two track. Larger white pine throughout stand.
B1 B2	Bigtooth Aspen 3102 4136 - Aspen	- Grass	Sapling/Pole Note: The same of the same o	4 Nonst	er Well	14.7 49	81-110	N/A	Size Sapling	
31	3102 4136 - Aspen Canopy Species	- Grass , Mixed Co	Sapling/Pole N nifer Po Size Class	4 Nonste	er Well	14.7 49 Sub-Canopy Spec	81-110	N/A Avg. Height		
31	3102 4136 - Aspen Canopy Species Balsam Fir	- Grass n, Mixed Co Cover 15	Sapling/Pole nifer Po Size Class Pole/Sapling	4 Nonstelletimb	er Well	14.7 49 Sub-Canopy Specific Red Maple	81-110 cies Density Low	N/A Avg. Height Variable	Sapling	
31	3102 4136 - Aspen Canopy Species Balsam Fir Bigtooth Aspen	10 - Grass 1, Mixed Co ** Cover 15 40	Sapling/Pole nifer Po Size Class Pole/Sapling Pole/Log	4 Nonstelletimb	er Well	14.7 49 Sub-Canopy Spec Red Maple White Pine	81-110 Cies Density Low Low	N/A Avg. Height Variable Variable	Sapling Sapling	
31	3102 4136 - Aspen Canopy Species Balsam Fir Bigtooth Aspen White Pine	- Grass a, Mixed Co ** Cover 15 40 5	nifer Po Size Class Pole/Sapling Pole/Log Log	4 Nonste	er Well Age	14.7 49 Sub-Canopy Sper Red Maple White Pine Beech	81-110 Cies Density Low Low Low	N/A Avg. Height Variable Variable Variable	Sapling Sapling Sapling	
31	3102 4136 - Aspen Canopy Species Balsam Fir Bigtooth Aspen White Pine Quaking Aspen	- Grass n, Mixed Co **Cover* 15 40 5 20	nifer Po Size Class Pole/Sapling Pole/Log Log Pole/Log	4 Nonste	er Well Age	14.7 49 Sub-Canopy Sper Red Maple White Pine Beech	81-110 Cies Density Low Low Low	N/A Avg. Height Variable Variable Variable	Sapling Sapling Sapling	
31	3102 4136 - Aspen Canopy Species Balsam Fir Bigtooth Aspen White Pine Quaking Aspen Black Cherry	10 - Grass a, Mixed Co Cover 15 40 5 20 5	nifer Po Size Class Pole/Sapling Pole/Log Log Pole/Log Pole	4 Nonste	er Well Age	14.7 49 Sub-Canopy Sper Red Maple White Pine Beech	81-110 Cies Density Low Low Low	N/A Avg. Height Variable Variable Variable	Sapling Sapling Sapling	
332	3102 4136 - Aspen Canopy Species Balsam Fir Bigtooth Aspen White Pine Quaking Aspen Black Cherry Red Maple	10 - Grass a, Mixed Co % Cover 15 40 5 20 5 10 5	Sapling/Pole Note: Pole Size Class Pole/Sapling Pole/Log Log Pole/Log Pole Pole/Log Pole	4 4	er Well Age	14.7 49 Sub-Canopy Sper Red Maple White Pine Beech	81-110 Cies Density Low Low Low	N/A Avg. Height Variable Variable Variable	Sapling Sapling Sapling	Good acess to the west off N Grass Lake Rd NE. North of this stand is
332	3102 4136 - Aspen Canopy Species Balsam Fir Bigtooth Aspen White Pine Quaking Aspen Black Cherry Red Maple Paper Birch	10 - Grass n, Mixed Co **Cover* 15 40 5 20 5 10 5 ard Mast A	Sapling/Pole Note: The property of the pole of the po	4 4 Nonstruction 4 1 1 1 1 1 1 1 1 1	eer Well Age 49 37	14.7 49 Sub-Canopy Specific Red Maple White Pine Beech Balsam Fir	81-110 Density Low Low Low Low 81-110	N/A Avg. Height Variable Variable Variable Variable	Sapling Sapling Sapling	Good acess to the west off N Grass Lake Rd NE. North of this stand is red pine plantation and to the west is a non-forested area that is the sit
32	3102 4136 - Aspen Canopy Species Balsam Fir Bigtooth Aspen White Pine Quaking Aspen Black Cherry Red Maple Paper Birch 4111 - S.Maple, Ha	10 - Grass n, Mixed Co **Cover* 15 40 5 20 5 10 5 ard Mast A	Sapling/Pole nifer Po Size Class Pole/Sapling Pole/Log Log Pole/Log Pole Pole/Log Pole Sociation Sa	4 4 Nonstruction 4 1 1 1 1 1 1 1 1 1	er Well 49 37 er Well	14.7 49 Sub-Canopy Spee Red Maple White Pine Beech Balsam Fir	81-110 Density Low Low Low Low 81-110	N/A Avg. Height Variable Variable Variable Variable N/A	Sapling Sapling Sapling Sapling Sapling	Good acess to the west off N Grass Lake Rd NE. North of this stand is red pine plantation and to the west is a non-forested area that is the sit of an old Civilian Conservation Corp (CCC) camp. This stand was last
31 32 333	3102 4136 - Aspen Canopy Species Balsam Fir Bigtooth Aspen White Pine Quaking Aspen Black Cherry Red Maple Paper Birch 4111 - S.Maple, Ha	10 - Grass n, Mixed Co % Cover 15 40 5 20 5 10 5 ard Mast A	Sapling/Pole nifer Po Size Class Pole/Sapling Pole/Log Log Pole/Log Pole Pole/Log Size Class Pole Sapling	4	er Well 49 37 er Well	14.7 49 Sub-Canopy Spee Red Maple White Pine Beech Balsam Fir 102.5 90 Sub-Canopy Spee	81-110 Cies Density Low Low Low Low 81-110 81-110 Density	N/A Avg. Height Variable Variable Variable Variable Variable	Sapling Sapling Sapling Sapling Sapling	
32	A136 - Aspen Canopy Species Balsam Fir Bigtooth Aspen White Pine Quaking Aspen Black Cherry Red Maple Paper Birch 4111 - S.Maple, Ha Canopy Species Basswood	10 - Grass 1, Mixed Co Cover 15 40 5 20 5 10 5 ard Mast A: Cover 20	Sapling/Pole nifer Po Size Class Pole/Sapling Pole/Log Log Pole/Log Pole Pole/Log Size Class Log Size Class	4 4	er Well 49 37 er Well	14.7 49 Sub-Canopy Specific Red Maple White Pine Beech Balsam Fir 102.5 90 Sub-Canopy Specific Red Maple White Pine Beech Balsam Fir	81-110 Cies Density Low Low Low Low Density Medium	N/A Avg. Height Variable Variable Variable Variable N/A Avg. Height 5 - 10 feet	Sapling Sapling Sapling Sapling Sapling	Good acess to the west off N Grass Lake Rd NE. North of this stand is red pine plantation and to the west is a non-forested area that is the sit of an old Civilian Conservation Corp (CCC) camp. This stand was last
31 32 333	3102 4136 - Aspen Canopy Species Balsam Fir Bigtooth Aspen White Pine Quaking Aspen Black Cherry Red Maple Paper Birch 4111 - S.Maple, Ha Canopy Species Basswood Red Maple	10 - Grass a, Mixed Co Cover 15 40 5 20 5 10 5 ard Mast A: Cover 20 20	Sapling/Pole nifer Po Size Class Pole/Sapling Pole/Log Log Pole/Log Pole Pole/Log Size Class Log Pole Pole/Log	4	er Well 49 37 er Well I Age	14.7 49 Sub-Canopy Specific Red Maple White Pine Beech Balsam Fir 102.5 90 Sub-Canopy Specific Red Maple Ironwood Sugar Maple	81-110 Cies Density Low Low Low Low Density Medium Low Low	N/A Avg. Height Variable Variable Variable Variable N/A Avg. Height 5 - 10 feet Variable	Sapling Sapling Sapling Sapling Sapling Sapling Size Sapling Sapling	Good acess to the west off N Grass Lake Rd NE. North of this stand is red pine plantation and to the west is a non-forested area that is the sit of an old Civilian Conservation Corp (CCC) camp. This stand was last



Stand	Level 4 C	over Type	S	ize De	ensity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
37	429 - Mixed l	Jpland Con	ifers Po	oletimb	er Well	52.5	75	111-140	N/A		Stand has wet areas throughout
(Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Maple	15	Pole/Sapling	6		Asp	en (spp.)	Low	Variable	Sapling	
	Paper Birch	5	Pole/Sapling	5		Ва	lsam Fir	Medium	5 - 10 feet	Sapling	
C	Quaking Aspen	15	Pole/Sap/Log	6		W	nite Pine	Low	Variable	Sapling	
	White Pine	30	Log/Pole	10	75						
	Red Pine	5	Log/Pole	10							
	Balsam Fir	30	Pole	6							
40	4319 - Mixed	d Upland Fo	rest Po	oletimb	er Well	15.1	73	51-80	N/A		
(Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
В	Bigtooth Aspen	20	Pole/Log	8		Ва	lsam Fir	Medium	Variable	Sapling	
	Red Maple	20	Pole	6	66	Re	ed Maple	Low	Variable	Sapling	
C	Quaking Aspen	5	Pole/Log	8		W	nite Pine	Low	Variable	Sapling	
	Balsam Fir	15	Pole	7							
	Paper Birch	5	Pole	6							
	White Pine	35	Pole/Log	8	73						
41	6224 -	Treed Bog		Nonsto	ocked	15.1	I	mmature	No		
						Sub-Ca	nopy Species	Density	Avg. Height	Size	
						Blac	ck Spruce	Low	10 - 20 feet	Sapling	
						Ва	llsam Fir	Low	10 - 20 feet	Sapling	
						Ta	amarack	Low	10 - 20 feet	Sapling	
						Northern	n White Cedar	Low	Variable	Sapling	
42	4130	- Aspen	Po	oletimb	er Well	32.3	36	81-110	N/A		Previously final harvested around 1986. Great access off N Grass Lak
(Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Rd NE. Wet stand with fingers of wet drainage areas throughout the stand.
	White Pine	10	Log	10		Ва	llsam Fir	Low	Variable	Sapling	
	Black Cherry	5	Pole/Sapling	5			Beech	Low	Variable	Sapling	
	Balsam Fir	5	Sapling/Pole	4							
В	Bigtooth Aspen	30	Pole	7	36						
	Red Maple	10	Pole/Log/Sap	5							
C	Quaking Aspen	40	Pole	6	36						
44	6225	5 - Bog		Nonsto	ocked	1.1	U	nspecified	No	_	



Stand					nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
45	4319 - Mixed	d Upland Fo	prest	Sapling	Poor	5.2	15	Immature	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age						
	Black Cherry	15	Pole/Sapling	6							
	Red Maple	25	Sapling/Pole	4							
	White Pine	50	Sapling/Pole	4	15						
	Bigtooth Aspen	10	Sapling/Pole	4							
46	622 - Lov	vland Shrub)	Nonsto	cked	262.6		Unspecified	No		With low density mix decidous trees
47	4191 - Mixed Upla Co	and Decidu onifer	ous with P	oletimb	er Well	23.8	52	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Speci	es Density	Avg. Height	Size	
	Quaking Aspen	10	Log/XLog	15		Ва	lsam Fir	Low	Variable	Sapling	
	Balsam Fir	15	Pole/Sap/Log	5		Wh	nite Pine	Low	Variable	Sapling	
	White Pine	25	Pole/Log	8	52	Re	d Maple	Low	Variable	Sapling	
	Paper Birch	5	Pole	5							
	Bigtooth Aspen	25	Pole/Log	8	52						
	Red Maple	20	Pole/Sap/Log	6							
48	4191 - Mixed Upla Co	and Decidu onifer	ous with	Sapling	ı Well	15.2	20	Immature	N/A		Mixed stand that varies in density. Red pine strip plantation through the center of this stand. Good acess off Grass Lake Rd NE.
	Canopy Species	% Cover	Size Class	DBH	Age						
	Red Maple	30	Sapling	3	20						
	Red Oak	5	Sapling/Pole	4	20						
	Bigtooth Aspen	25	Sapling	4							
	Jack Pine	30	Sapling/Pole	4	20						
	Quaking Aspen	10	Sapling/Pole	4	20						
49	4130	- Aspen	Р	oletimb	er Well	28.2	44	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Speci	es Density	Avg. Height	Size	
	Bigtooth Aspen	55	Pole/Log	8	44	Мар	ole (spp.)	Low	Variable	Sapling	
	Balsam Fir	5	Pole	6		Wh	nite Pine	Low	Variable	Sapling	
	White Pine	5	Log/Pole	10				'			•
	Black Cherry	5	Pole	6							
	Black Cherry Quaking Aspen	5 25	Pole Pole	7	44						



tand	Level 4 Co	over Type	8	ize De	nsity	Acres	Stand Age	BA Range	Managed Si	General Comments	MICHIGAN
51	4130	- Aspen	;	Saplin	y Well	13.9	26	Unspecified	N/A	Well stocked, easy access, stand splits a young red pine strip pla	antation
	Canopy Species	% Cover	Size Class	DBH	l Age						
	Black Cherry	20	Sapling	3							
	Bigtooth Aspen	30	Sapling/Pole	4	26						
(Quaking Aspen	30	Sapling/Pole	4	26						
	Red Maple	20	Sapling	3							
52	4130	- Aspen	:	Saplin	y Well	28.7	23	Immature	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age						
	White Pine	5	Sapling/Pole	3							
	Balsam Fir	5	Sapling	3							
	Black Cherry	5	Sapling	3							
	Red Maple	5	Sapling	3	23						
	Bigtooth Aspen	50	Sapling	4	23						
(Quaking Aspen	30	Sapling	3	23						
53	4311 - Pine	e, Aspen M	ix	Sapling	y Well	23.6	16	Immature	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age						
	Red Pine	% Cover 55	Size Class Sapling	DB F	16						
	Red Pine	55	Sapling	2							
	Red Pine Bigtooth Aspen	55 10	Sapling Sapling	3	16						
	Red Pine Bigtooth Aspen Red Maple	55 10 15	Sapling Sapling Sapling	3 2	16						
I	Red Pine Bigtooth Aspen Red Maple Black Cherry	55 10 15 5	Sapling Sapling Sapling Sapling	2 3 2 2	16						
I	Red Pine Bigtooth Aspen Red Maple Black Cherry Sugar Maple	55 10 15 5 5 10	Sapling Sapling Sapling Sapling Sapling Sapling Sapling	2 3 2 2 2 2 3	16	41.8	78	111-140	N/A		
54	Red Pine Bigtooth Aspen Red Maple Black Cherry Sugar Maple Quaking Aspen	55 10 15 5 5 10	Sapling Sapling Sapling Sapling Sapling Sapling Sapling	2 3 2 2 2 3 3 Deletimb	16		78 nopy Specie		N/A Avg. Height	Size	
54	Red Pine Bigtooth Aspen Red Maple Black Cherry Sugar Maple Quaking Aspen	55 10 15 5 5 10	Sapling Sapling Sapling Sapling Sapling Sapling Sapling	2 3 2 2 2 3 3 Deletimb	16 16 16 er Well	Sub-Ca				Size Sapling	
54	Red Pine Bigtooth Aspen Red Maple Black Cherry Sugar Maple Quaking Aspen 429 - Mixed L Canopy Species	55 10 15 5 5 10 Jpland Coni % Cover	Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	2 3 2 2 2 3 Deletimb	16 16 16 er Well	Sub-Ca Ba	nopy Specie	es Density	Avg. Height		
64	Red Pine Bigtooth Aspen Red Maple Black Cherry Sugar Maple Quaking Aspen 429 - Mixed U Canopy Species Balsam Fir	55 10 15 5 10 Jpland Coni % Cover 15	Sapling	2 3 2 2 2 3 Soletimb DBH 6	16 16 16 er Well	Sub-Ca Ba	nopy Specie Isam Fir	Density Low	Avg. Height Variable	Sapling	
54	Red Pine Bigtooth Aspen Red Maple Black Cherry Sugar Maple Quaking Aspen 429 - Mixed L Canopy Species Balsam Fir Bigtooth Aspen	55 10 15 5 10 Jpland Coni 15 15 15 15	Sapling Sapling Sapling Sapling Sapling Sapling Size Class Pole/Sap/Log Pole/Log	2 3 2 2 2 3 3 Deletimb	16 16 16 er Well	Sub-Ca Ba	nopy Specie Isam Fir	Density Low	Avg. Height Variable	Sapling	
54	Red Pine Bigtooth Aspen Red Maple Black Cherry Sugar Maple Quaking Aspen 429 - Mixed L Canopy Species Balsam Fir Bigtooth Aspen White Pine	55 10 15 5 10 Jpland Coni 15 15 35	Sapling Sapling Sapling Sapling Sapling Sapling Size Class Pole/Sap/Log Pole/Log/Sap	2 3 2 2 2 3 3 5 5 6 8 8 8 8	16 16 16 er Well	Sub-Ca Ba	nopy Specie Isam Fir	Density Low	Avg. Height Variable	Sapling	



Stand	Level 4 C	evel 4 Cover Type 210 - Natural Red Pine		Size De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
56	42210 - Na	tural Red P	ine S	Sawtimb	er Well	11.4	75	81-110	N/A		Adjacent to the snowmobile trail. Access off Sunset Trail.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Maple	5	Pole	6		Ма	ple (spp.)	Low	Variable	Sapling	
	Red Oak	5	Pole/Log	8				,			•
	Quaking Aspen	10	Pole	6							
	White Pine	10	Log/Pole	11							
	Red Pine	65	Log	11	75						
	Balsam Fir	5	Pole	6							
57	4191 - Mixed Upl C	and Decidu onifer	ous with Po	letimbe	r Mediur	m 18.0	38	51-80	N/A		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Bigtooth Aspen	10	Pole	8		W	hite Pine	Low	Variable	Sapling	
	Black Cherry	15	Sapling/Pole	4		Ма	ple (spp.)	Low	Variable	Sapling	
	Red Oak	5	Pole/Log	8		Asp	pen (spp.)	Low	Variable	Sapling	
	White Pine	15	Log	11							
	Quaking Aspen	25	Pole/Sap/Log	j 6	38						
	Balsam Fir	10	Sapling/Pole	4							
	Red Maple	20	Sapling/Pole	4							
58	4133 - Asp	en, Mixed P	ine Po	letimbe	r Mediur	n 39.6	46	1-50	N/A		This stand has low density and is mostly low qaulity aspen and open
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	grown pine mixed throughout. There are a few red oaks scattered throughout and the black cherry is very shruby with mulitple stems.
	White Pine	25	Pole/Sap/Log	9 6		W	hite Pine	Medium	Variable	Sapling	a moughout and the black orienty to very smally with maniple stems.
	Red Pine	5	Log/Pole	10		Re	ed Maple	Low	Variable	Sapling	
	Black Cherry	20	Pole/Sapling	5				-			•
	Bigtooth Aspen	20	Pole/Log	8	53						
	Red Oak	5	Sapling/Pole	4							
	Balsam Fir	5	Pole/Sapling	5							
	Quaking Aspen	20	Pole	6	46						
59	429 - Mixed	Upland Con	ifers F	Poletimb	er Well	32.5	60	81-110	N/A		Cedar found towards the west side and moving into a lowland covertype
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Good acess of Sunset Trail.
	Balsam Fir	25	Pole/Sap/Log	5		Re	ed Maple	High	Variable	Sapling	
	Black Spruce	15	Pole/Sap/Log	9 6		W	hite Pine	Low	Variable	Sapling	
	Bigtooth Aspen	20	Pole/Log	8		Ва	alsam Fir	Low	Variable	Sapling	
	White Pine	30	Pole/Log/Sap	7	60			,			•
	Red Maple	10	Pole/Sap/Log	9 6							



tand	d Level 4 Cover Type		Size Density		Acres	Stand Age B	A Range	Managed S	ite	General Comments	MICHIG	
61	429 - Mixed L	Jpland Con	nifers Pole	timbe	r Mediu	m 14.3	42	51-80	N/A			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size		
	Black Cherry	5	Pole/Log	8		Bals	sam Fir	Low	Variable	Sapling		
	White Pine	25	Pole/Sapling	6	42	Whi	ite Pine	Low	Variable	Sapling		
	Quaking Aspen	20	Pole/Sapling	6								
	Balsam Fir	30	Pole/Sapling	6	42							
	Black Spruce	5	Pole/Sapling	6								
	Red Maple	15	Pole/Sapling	6								
62	4133 - Aspe	en, Mixed P	rine S	Saplin	g Well	48.3	8 I	mmature	N/A		Timber sale was completed in 2016 regen looks good	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	opy Species	Density	Avg. Height	Size		
	Quaking Aspen	20	Sapling	1	8	Whi	ite Pine	Low	Variable	Sapling		
	White Pine	25	Sapling/Pole/Log	4		Bals	sam Fir	Low	Variable	Sapling		
	Red Maple	10	Sapling	1		Mapl	le (spp.)	Low	Variable	Sapling		
	Bigtooth Aspen	30	Sapling	2	8							
	Red Oak	15	Sapling/Pole	1								
	2102	Cross	,	Monet	aakad	1 1	1.16	agagified	No			
63 66	3102 42110 - Plar	- Grass		Nonsto	ocked oer Well	1.1	U 58	nspecified 81-110	No N/A		thinned in 2018	
63 66	42110 - Plar	nted Red P	Pine Po	letimb	er Well	6.9	58	81-110	N/A	Size	thinned in 2018	
	42110 - Plan	nted Red P	Pine Po	letimb DBH	er Well	6.9 Sub-Can	58	81-110 Density	N/A Avg. Height	Size Sapling	thinned in 2018	
66	42110 - Plan Canopy Species Red Pine	nted Red P	Pine Po Size Class Pole/Log	DBH 8	er Well	6.9 Sub-Can	58	81-110	N/A	Size Sapling	thinned in 2018	
66	42110 - Plar Canopy Species Red Pine Quaking Aspen	nted Red P % Cover	Pine Po Size Class Pole/Log Pole/Sap/Log	letimb DBH	er Well	6.9 Sub-Can	58	81-110 Density	N/A Avg. Height		thinned in 2018	
66	42110 - Plan Canopy Species Red Pine	nted Red P % Cover 85 5	Pine Po Size Class Pole/Log	DBH 8	er Well	6.9 Sub-Can	58	81-110 Density	N/A Avg. Height		thinned in 2018	
66	42110 - Plan Canopy Species Red Pine Quaking Aspen Red Maple Red Oak	**Note of Red P **** Cover	Size Class Pole/Log Pole/Sap/Log Pole/Log XLog/Log	B 5 8 18	er Well	6.9 Sub-Can	58 nopy Species eech	81-110 Density	N/A Avg. Height		thinned in 2018 Harvested in 2010.	
66	42110 - Plan Canopy Species Red Pine Quaking Aspen Red Maple Red Oak	nted Red P **Cover* 85 5 5 5 5 5	Pine Po Size Class Pole/Log Pole/Sap/Log Pole/Log XLog/Log	DBH 8 5 8 18	er Well	6.9 Sub-Can B	58 nopy Species neech	81-110 Density Low	N/A Avg. Height Variable			
66	42110 - Plan Canopy Species Red Pine Quaking Aspen Red Maple Red Oak	**Note	Pine Po Size Class Pole/Log Pole/Sap/Log Pole/Log XLog/Log	DBH 8 5 8 18	ber Well	6.9 Sub-Can B	58 nopy Species neech	81-110 Density Low	N/A Avg. Height Variable			
66	42110 - Plan Canopy Species Red Pine Quaking Aspen Red Maple Red Oak 4130	nted Red P % Cover 85 5 5 - Aspen % Cover	Pine Po Size Class Pole/Log Pole/Sap/Log Pole/Log XLog/Log	DBH 8 5 8 18 Sapline	per Well 58 58 G Well	6.9 Sub-Can B	58 nopy Species neech	81-110 Density Low	N/A Avg. Height Variable			
66	42110 - Plan Canopy Species Red Pine Quaking Aspen Red Maple Red Oak 4130 Canopy Species Quaking Aspen	nted Red P % Cover	Size Class Pole/Log Pole/Sap/Log Pole/Log XLog/Log Size Class Sapling	DBH 8 5 8 18 Capling DBH 2	ber Well 1 Age 58 G Well 1 Age 14	6.9 Sub-Can B	58 nopy Species neech	81-110 Density Low	N/A Avg. Height Variable			
66	42110 - Plan Canopy Species Red Pine Quaking Aspen Red Maple Red Oak 4130 Canopy Species Quaking Aspen Bigtooth Aspen	nted Red P % Cover	Size Class Pole/Log Pole/Sap/Log Pole/Log XLog/Log Size Class Sapling Sapling	Bletimb BBH 8 5 8 18 Capling DBH 2 3	ber Well 1 Age 58 G Well 1 Age 14	6.9 Sub-Can B	58 nopy Species neech	81-110 Density Low	N/A Avg. Height Variable			
66	42110 - Plan Canopy Species Red Pine Quaking Aspen Red Maple Red Oak 4130 Canopy Species Quaking Aspen Bigtooth Aspen Red Maple Black Cherry	nted Red P % Cover	Pine Po Size Class Pole/Log Pole/Sap/Log Pole/Log XLog/Log Size Class Sapling Sapling Sapling Sapling	BB	ber Well 1 Age 58 G Well 1 Age 14	6.9 Sub-Can B	58 nopy Species neech	81-110 Density Low	N/A Avg. Height Variable			
66	42110 - Plan Canopy Species Red Pine Quaking Aspen Red Maple Red Oak 4130 Canopy Species Quaking Aspen Bigtooth Aspen Red Maple Black Cherry	## Aspen Aspen 25 50 20 5 - Aspen	Pine Po Size Class Pole/Log Pole/Sap/Log Pole/Log XLog/Log Size Class Sapling Sapling Sapling Sapling	DBH 8 5 8 18 18 Capling DBH 2 3 3 2 2 2 Capling DBH 18 Capling DBH	ber Well 58 G Well 14 14	6.9 Sub-Can B	58 sopy Species eech	81-110 Density Low mmature	N/A Avg. Height Variable N/A			
66	42110 - Plan Canopy Species Red Pine Quaking Aspen Red Maple Red Oak 4130 Canopy Species Quaking Aspen Bigtooth Aspen Red Maple Black Cherry	## Aspen Aspen 25 50 20 5 - Aspen	Pine Po Size Class Pole/Log Pole/Log XLog/Log Size Class Sapling Sapling Sapling Sapling Sapling Po	DBH 8 5 8 18 18 Capling DBH 2 3 3 2 2 2 Capling DBH 18 Capling DBH	over Well 1 Age 58 Well 1 Age 14 14 Der Well	6.9 Sub-Can B 6.5	58 hopy Species heech	81-110 Density Low mmature 81-110	N/A Avg. Height Variable N/A	Sapling		
67	42110 - Plan Canopy Species Red Pine Quaking Aspen Red Maple Red Oak 4130 Canopy Species Quaking Aspen Bigtooth Aspen Red Maple Black Cherry 4130 Canopy Species	nted Red P % Cover	Size Class Pole/Log Pole/Sap/Log Pole/Log XLog/Log XLog/Log Size Class Sapling Sapling Sapling Sapling Sapling Sapling Sapling	DBH 2 3 2 2 DBH	over Well 1 Age 58 Well 1 Age 14 14 Der Well	6.9 Sub-Can B 6.5 21.3 Sub-Can Whi	58 hopy Species heech 14 I 46 hopy Species	81-110 Density Low mmature 81-110 Density	N/A Avg. Height Variable N/A N/A Avg. Height	Sapling		
67	42110 - Plan Canopy Species Red Pine Quaking Aspen Red Maple Red Oak 4130 Canopy Species Quaking Aspen Bigtooth Aspen Red Maple Black Cherry 4130 Canopy Species Red Oak	**Note of the image of the imag	Pine Po Size Class Pole/Log Pole/Sap/Log Pole/Log XLog/Log Size Class Sapling Sapling Sapling Sapling Sapling Sapling Sapling Po Size Class Pole/Sap/Log	DBH	oer Well 1 Age 58 G Well 1 Age 14 14 14 Der Well	6.9 Sub-Can B 6.5 21.3 Sub-Can Whi	58 popy Species peech 14 46 popy Species pite Pine	81-110 Density Low mmature 81-110 Density Low	N/A Avg. Height Variable N/A N/A Avg. Height Variable	Sapling Size Sapling		
67	42110 - Plan Canopy Species Red Pine Quaking Aspen Red Maple Red Oak 4130 Canopy Species Quaking Aspen Bigtooth Aspen Red Maple Black Cherry 4130 Canopy Species Red Oak Bigtooth Aspen	**Note of the image of the imag	Pine Po Size Class Pole/Log Pole/Sap/Log Pole/Log XLog/Log Size Class Sapling Sapling Sapling Sapling Sapling Sapling Pole/Sap/Log Pole/Sap/Log	BBH 7 8	oer Well 1 Age 58 G Well 1 Age 14 14 14 Der Well	6.9 Sub-Can B 6.5 21.3 Sub-Can Whi	58 popy Species peech 14 46 popy Species pite Pine	81-110 Density Low mmature 81-110 Density Low	N/A Avg. Height Variable N/A N/A Avg. Height Variable	Sapling Size Sapling		



Stand	Level 4 Co	over Type	;	Size Deı	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
69	4122 - 0	Oak, Pine	S	Sawtimbe	r Poor	19.3	94	1-50	N/A		Stand was harvested in 2018. Rx was to cut all red maple, aspen, white
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	pine, and red pine unless marked with green paint. Leave all Oak.
	White Pine	15	Log/Pole	10		R	ed Oak	High	Variable	Sapling	
	Red Pine	15	Log	12	94	Re	ed Maple	Low	< 5 feet	Sapling	
	Red Oak	70	Pole/Log	8	94	W	hite Pine	Low	Variable	Sapling	
70	4191 - Mixed Upla Co	and Decidu	ous with P	oletimbe	er Well	33.3	43	51-80	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Pine	10	Pole/Sap/Log	8		W	hite Pine	Low	Variable	Sapling	
	Red Maple	15	Pole	6		Re	ed Maple	Low	Variable	Sapling	
	Bigtooth Aspen	30	Pole/Log	8	43						
	White Pine	15	Pole/Sap/Log	8							
	Red Oak	30	Pole/Log	8							
71	4191 - Mixed Upla Co	and Decidu	ous with S	Sawtimbe	er Well	10.7	94	111-140	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Maple	10	Pole/Log	8		R	ed Oak	Low	Variable	Sapling	
	Red Oak	45	Log/Pole	10	94	W	hite Pine	Low	Variable	Sapling	
	Quaking Aspen	10	Pole/Log	8							
	White Pine	10	Log/Pole	10							
	Red Pine	25	Log/Pole	10	75						
72	42141 - Planted I Deci	Mixed Pine duous	, Mixed P	Poletimbe	er Well	5.4	56	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age						
	White Pine	10	Pole	8							
	White Oak	20	Sapling	3							
	Red Oak	15	Log/Pole	10							
	Red Pine	55	Pole/Log	8	56						
73	42111 - Planted Deci	Red Pine, iduous	Mixed	Sapling	Well	117.4	8 I	mmature	N/A		Regeneration Survey completed Fall of 2020 results showed 19% mortality 669 TPA and 90 percent free to grow trees. Average tree heigh
	Canopy Species	% Cover	Size Class	DBH	Age						was 1.7 ft.
	Bigtooth Aspen	5	Sapling	1							Did a quantitative regeneration survey on 10/24/2018 the stand average
	Red Oak	10	Sapling	1							20 percent mortality. We need to release spray the stand and do another
	Red Pine	80	Sapling	1	8						regen survey next fall.
75	122 - Road	d/Parking L	ot	Nonsto	cked	5.9	U	nspecified	No		



Stand	Level 4 Cover Type			Size Density			Stand Age	BA Range	Managed S	ite	General Comments	MICHIGAN .
77	3102	- Grass		Nonstocked		1.1	I	Unspecified	No			
78	4311 - Pin	e, Aspen M	lix I	Poletimbe	er Well	5.2	44	111-140	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size		
	Bigtooth Aspen	45	Pole	6	44	Re	ed Maple	Low	Variable	Sapling		
	White Pine	45	Log	12		W	hite Pine	Low	Variable	Sapling		
	Red Maple	10	Pole	6								
79	42110 - Pla	nted Red P	ine I	Poletimbe	er Well	20.8	28	1-50	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age							
	Red Maple	6	Sapling	3								
	Red Pine	94	Pole/Sapling	g 5	28							
80	42260 - Natural Pi	ne, Mixed [Deciduous	Sawtimbe	er Well	9.3	87	141-170	N/A		Retention from when stand 73 was harvested.	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size		
	Red Oak	20	Log/Pole	11		Ва	ılsam Fir	Low	Variable	Sapling		
	Red Pine	25	Log/Pole	11	87	Ма	ple (spp.)	Low	Variable	Sapling		
	Red Maple	10	Pole	6		Asp	en (spp.)	Low	Variable	Sapling		
	White Pine	35	Pole/Log	9	87	W	hite Pine	Low	Variable	Sapling		
	Quaking Aspen	10	Log/Pole	11								
81	42110 - Pla	nted Red P	ine	Sawtimbe		2.7	69	111-140	N/A		Retention pocket	
	Canopy Species	% Cover	Size Class	DBH		Sub-Ca	nopy Species	s Density	Avg. Height	Size		
	Red Pine	100	Log	12	69		ed Pine	Low	Variable	Sapling		
							ed Oak	Low	Variable	Sapling		
							ed Maple	Low	Variable	Sapling		
							hite Pine	Low	Variable	Sapling		
							Beech	Medium	Variable	Sapling		
91	4319 - Mixed			Poletimbe			49	1-50	N/A		1	
	Canopy Species		Size Class	DBH	Age		nopy Species		Avg. Height	Size		
	Red Oak	5	Log/Pole	10			ck Cherry	Medium	Variable	Sapling		
	Quaking Aspen	10	Pole/Sapling			W	hite Pine	Medium	5 - 10 feet	Sapling		
	Red Maple	15	Pole	6								
	Balsam Fir	20	Pole/Sapling		40							
	Black Cherry	25	Pole/Sap/Log	-	49							
	White Pine	25	Pole/Log	8	49							