

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:

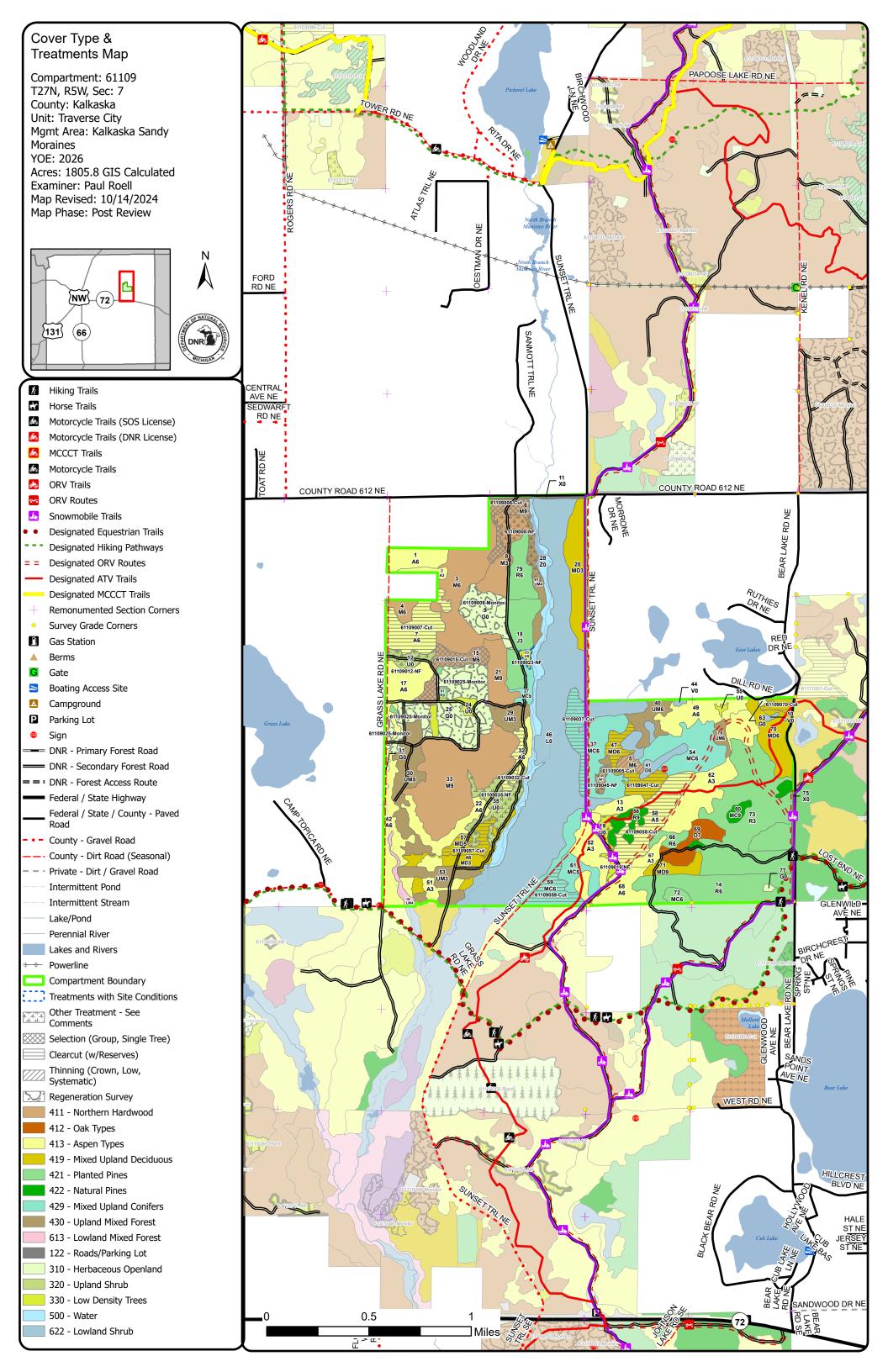
The following reports from the Inventory are attached:

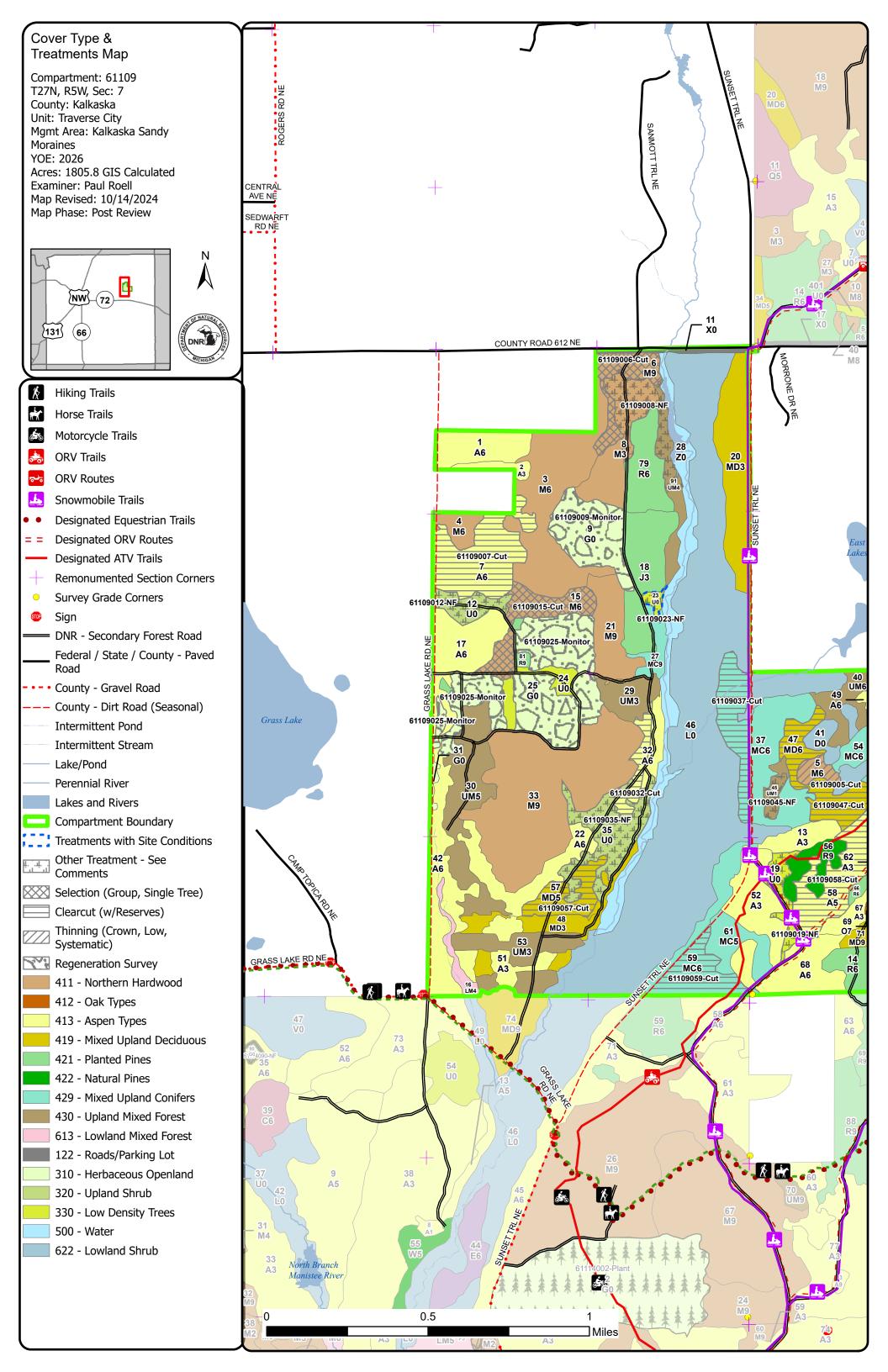
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

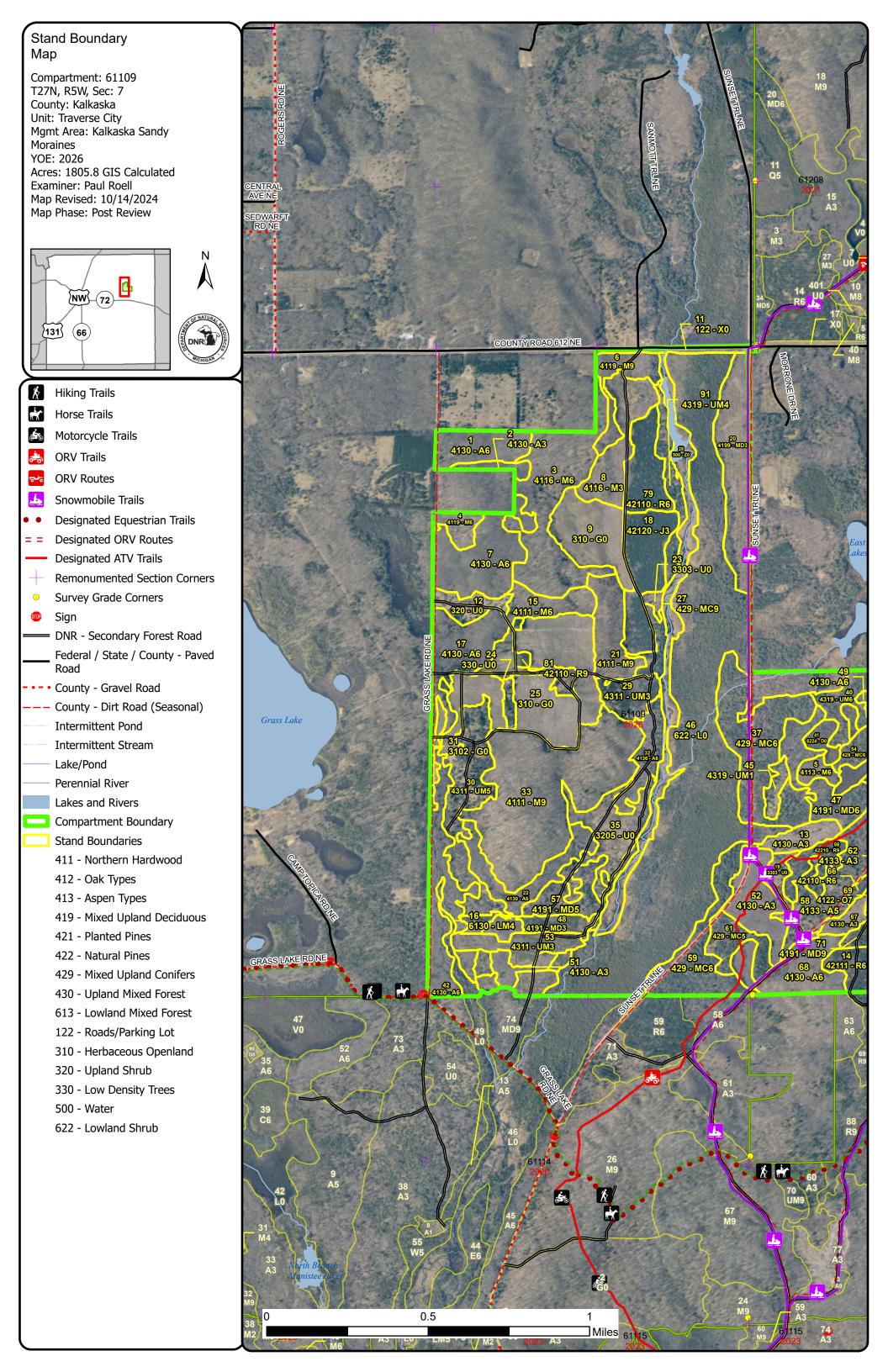
The following information is displayed, where pertinent, on the attached compartment maps:

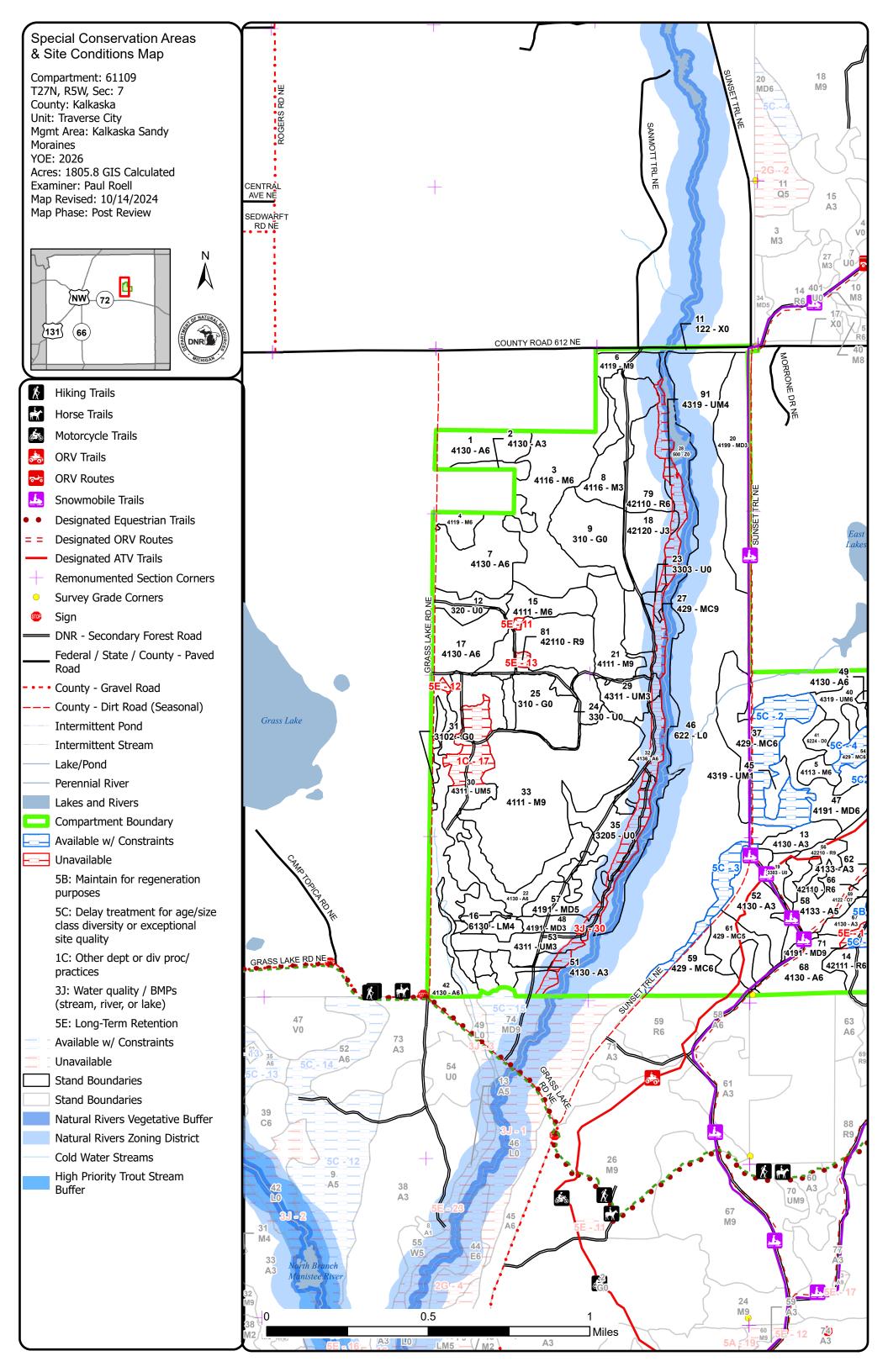
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries

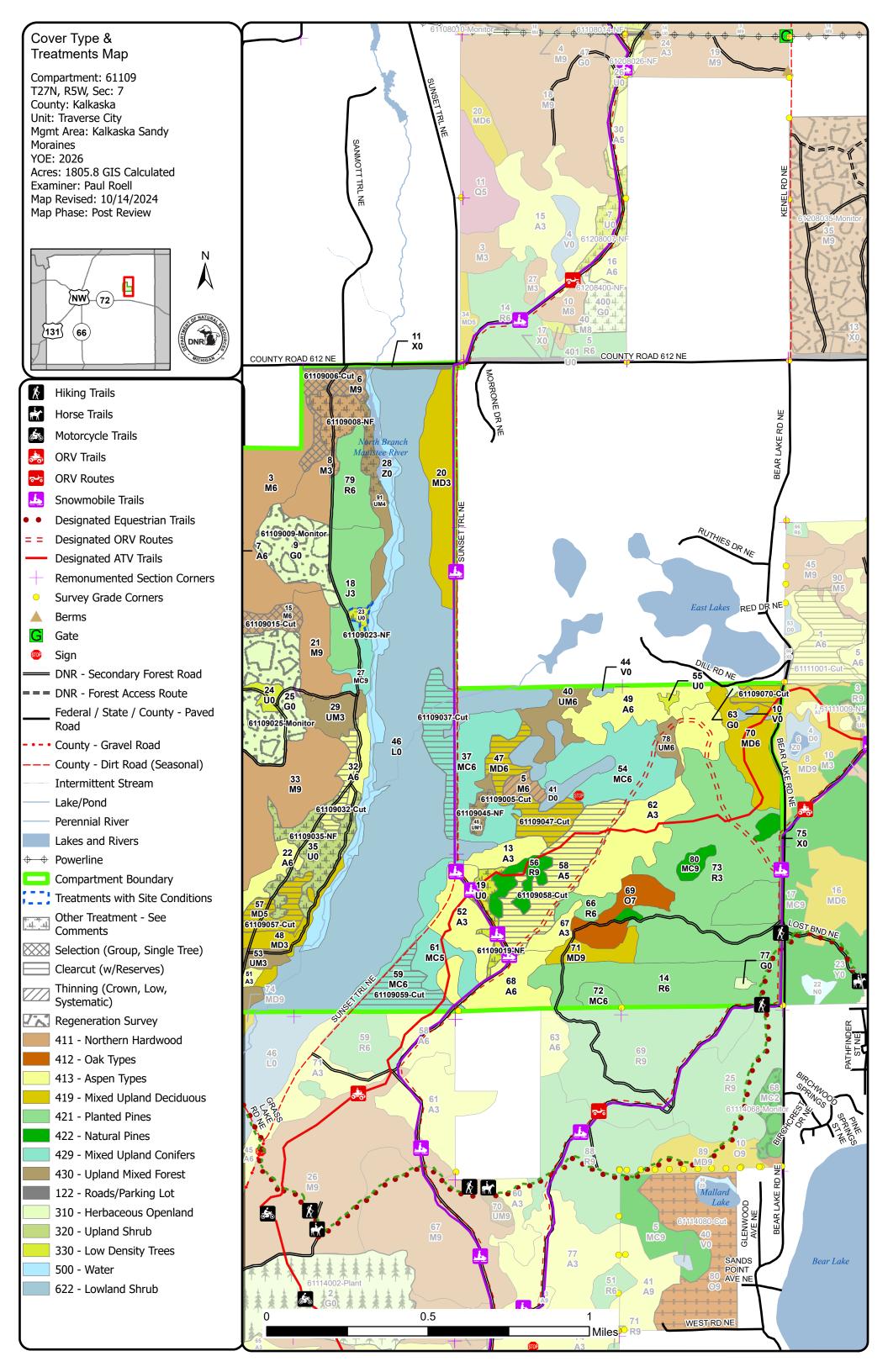
Details on the road access system

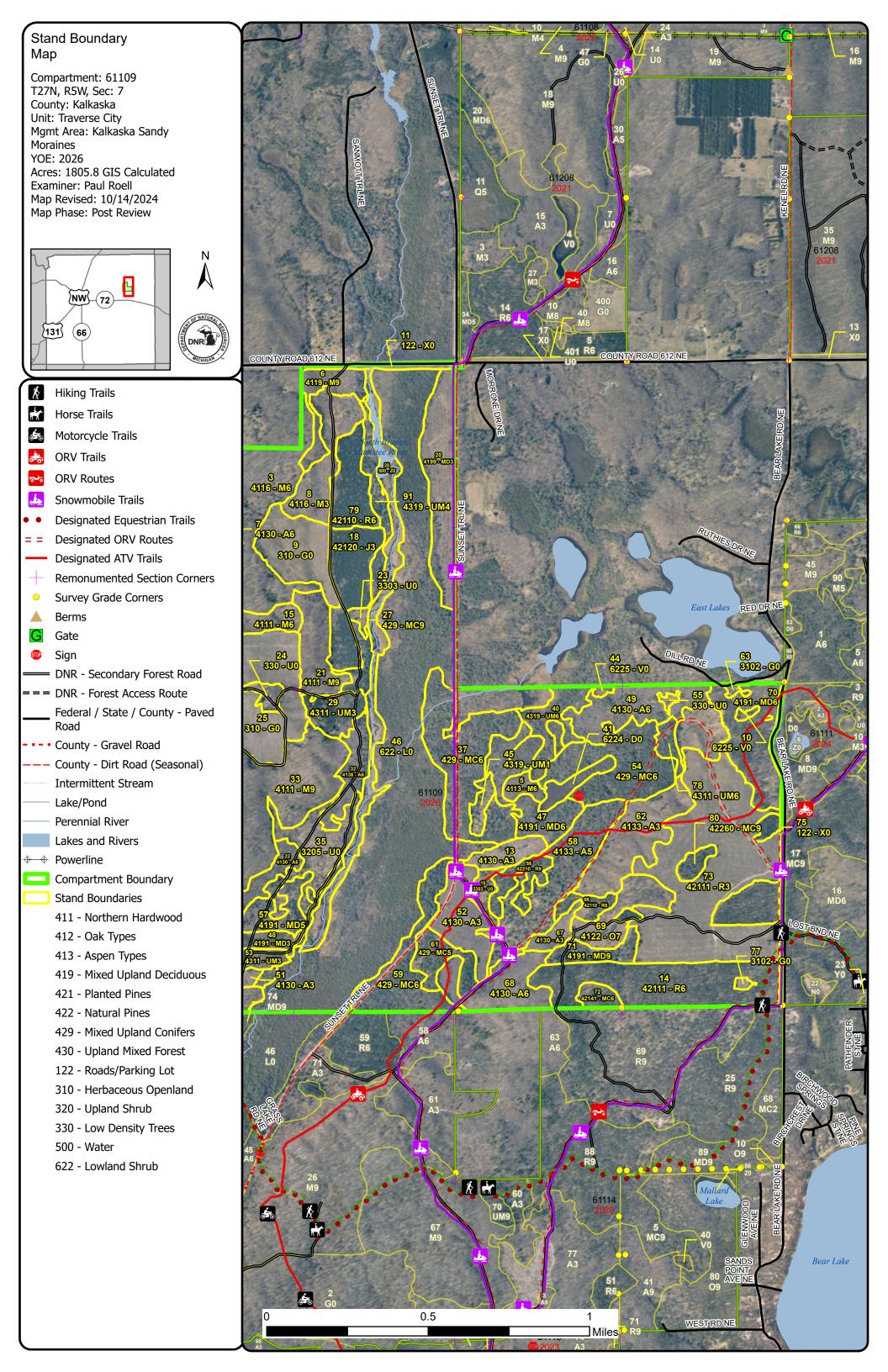


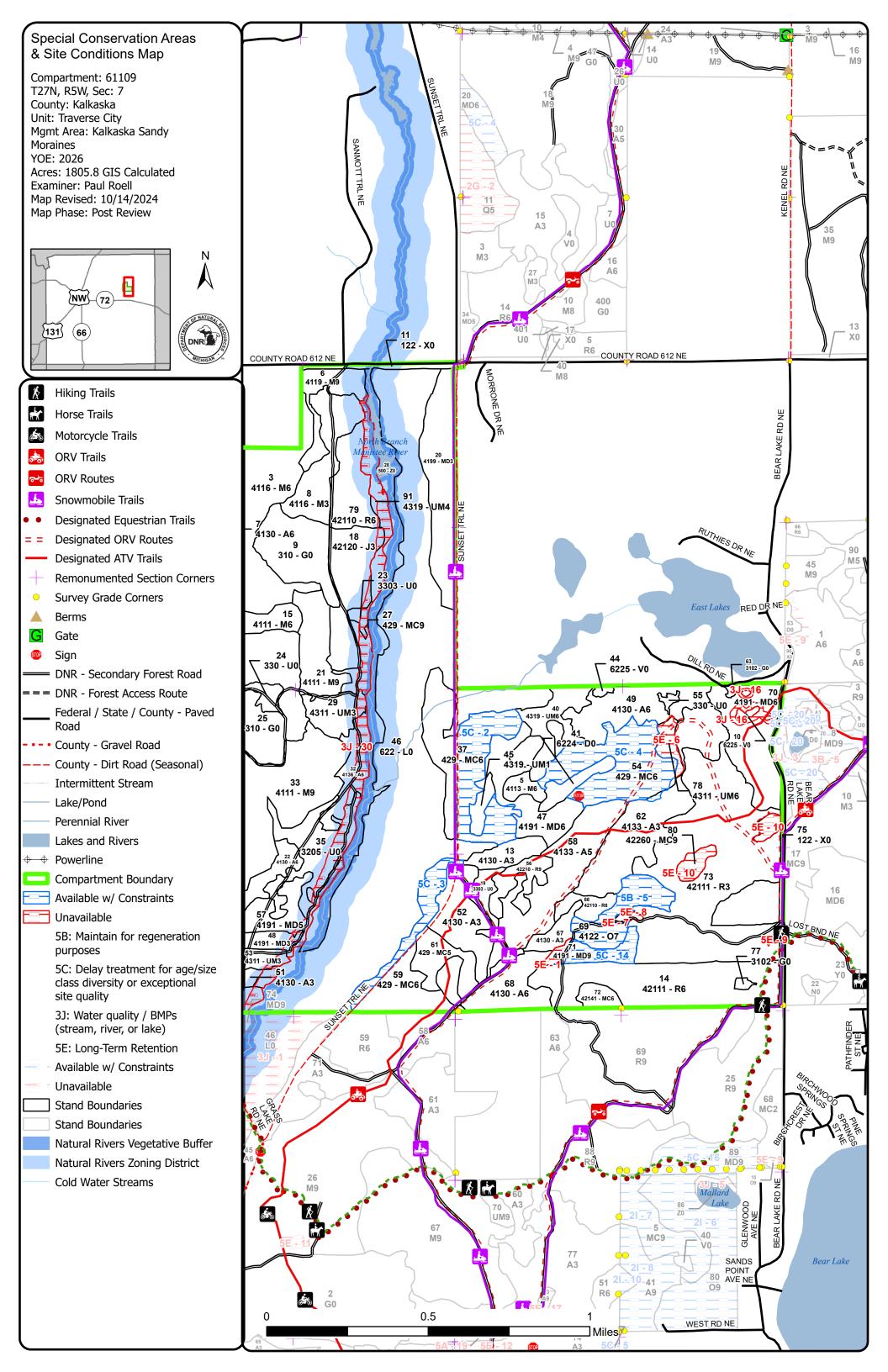












Report 1 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit

Compartment 109 Year of Entry 2026

DNR DNR

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

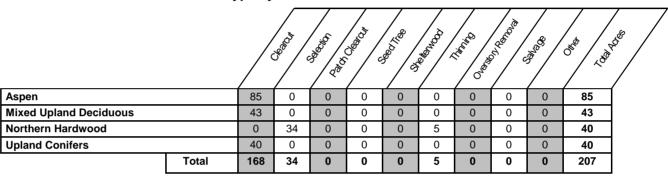
Traverse CityMgt. Unit Year of Entry: 2026

Acres of Harvest

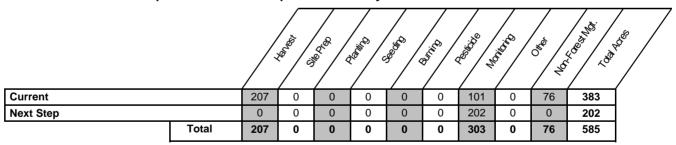
Compartment 109
Total Compartment Acres: 1,806

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



Traverse City Mgt. Unit

Report 3 -- Treatments

Compartment: 109 Year of Entry: 2026



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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

Approved Treatments:

5 61109005-Cut 5.1 4113 - R.Maple, Poletimber 65 111- Harvest Crown Thinning 411 - Northern Uneven-No 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

6 61109006-Cut 14.3 4119 - Mixed Sawtimber 87 111- Harvest Single Tree 411 - Northern Uneven- 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:

Other Comment:

Site Condition:

Traverse City Mgt. Unit Report 3 -- Treatments Compartment: 109 S Year of Entry: 2026 t а **Treatment** Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age Habitat n Name CoverType Density Age Range Type Method Objective Structure Cut Ч 8 61109008-NF 21.2 4116 - Mixed N. Sapling Immatu NonForestMgt Fruit Tree/Shrub 3204 - Mast No Hardwood - Aspen Well **Planting** Producing Shrub Prescription Selectively fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs Specs: 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: <u>Acceptable</u> Regen: Other Comment: Site Condition: Proposed Start Date: 10/1 /2025 61109009-28.9 310 - Herbaceous Nonstocked 4211 - Planted Unspec Monitoring Artificial Even-Aged Nο Monitor Openland ified Regen(3yr) Red Pine **Prescription** Specs: Next Step **Treatments:** Acceptable planted red pine which meets minimum stocking requirements Regen: Other Percent to Treat = 100% 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 **Planting** Producing Shrub ified 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:

S t	t a				Repo	rt 3 '	Treatments		Compartmer Year of Entr		OF NATURAL ASSOCIATION
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
15	61109015-Cut	20.1	4111 - S.Maple, Hard Mast Association	Poletimbe Well	er 85	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
Specific Spe	cs: Create t Step Monito ttments: eptable sugar a en:	some 150 ring, Natur	tand down to a resi 0'-200' regen gaps. ral Regen (Re-Inver aple, cherry, oak ar	It would be	probat	oly best to					for harvest.
19	61109019-NF	10.0	3303 - Mixed Low Density Trees	Nonstocke	ed	Immatu re	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrul	b	No
Pres Spec	cs: and/or need to	conifers fo o fertilize p	oody encroachment or wildlife food and o plantings and protect in some native gras	cover. Plan	it site a _l cages c	ppropriate					
	t Step htments:										
Acce Rege	eptable en:										
Othe	<u>er</u>										

Comment:

2.3 3303 - Mixed Low Nonstocked **Density Trees**

Unspec NonForestMgt Fruit Tree/Shrub ified **Planting**

3204 - Mast Producing Shrub No

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:**

<u>Acceptable</u> Regen:

Other Comment:

Site Condition: BMPs

S t	Tra	averse City	y Mgt. Unit		Repo	rt 3 '	Treatments		Compartmer Year of Entr		DNR DNR
11	ment me	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habita Cut
-	09025- onitor	71.8	310 - Herbaceous Openland	Nonstocke	ed 0	Unspec ified	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
Prescription Specs:	Į.										
Next Step Treatments	<u>.</u>										
Acceptable Regen:	fully st	ocked stan	d of red pine that n	neets minim	num reg	gen levels					
Other Comment:	Percer	nt to Treat =	= 100%								
Site Conditi	on:										
Proposed S	tart Date	<u>:</u> 10/1 /20	25								
32 61109	032-Cut	8.0	4136 - Aspen, Mixed Conifer	Poletimbe Well	er 49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
Prescription Specs:			nd to regenerate as red and feasible.	pen. Leave	white p	oine under	6 inch in diame	ter. Mark to leave	no more than 2 to	rees per acre	of large
	area re	etention is a	accounted for withi	n the river b	ouffer si	te conditio	on.				
Next Step Treatments		ring, Natur	al Regen (Re-Inve	ntory)							
Acceptable Regen:	aspen	red maple	, pine and oak								
Other Comment:											
Site Conditi	on:										
Proposed S	tart Date	<u>:</u> 10/1 /20	25								
35 61109	035-NF	28.6	3205 - Mixed Upland Shrub	Nonstocke	ed	Immatu re	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub)	No
Prescription Specs:	and/or need t	conifers fo fertilize pl	ody encroachmen r wildlife food and antings and proted n some native gras	cover. Plan t with wire	nt site a _l cages c	ppropriate					
Next Step Treatments											

Acceptable Regen:

Other Comment:

Site Condition:

S t	Tra	iverse City	/ Mgt. Unit		Repo	rt 3 '	Treatments		Compartmer Year of Entr		DNR MATURAL PROPERTY OF MA
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
37	61109037-Cut	20.6 4	29 - Mixed Upland Conifers	Poletimbe Well	r 75	111- 140	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	d No
Spe	cs: pine or sign an t Step Monitor	oak if desi	d to regenerate aspred and feasible. ec trail during the hall Regen (Re-Inven	arvest. if cu	·					ees per acre	of large
Acce Reg		red maple	and mixed pine								
	Condition: cosed Start Date 61109045-NF	3.9	25 4319 - Mixed	Conling	15	Immatu	NonForcetMat	Fruit Troo/Shruh	3204 - Mast		No
			Upland Forest	Sapling Poor		re	ŭ	Fruit Tree/Shrub Planting	Producing Shrub		No
<u>Spe</u>	cs: and/or need to	conifers for fertilize pl	ody encroachment r wildlife food and c antings and protect n some native grass	over. Plan with wire o	t site a ages o	ppropriate					
	t Step atments:										
Acce Reg	eptable en:										
Othe Com	<u>er</u> nment:										
Site	Condition:										
Prop	oosed Start Date	<u>:</u> 10/1 /202	25								
47	61109047-Cut	23.8 l	4191 - Mixed Jpland Deciduous with Conifer	Poletimbe Well	r 52	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	d No

<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. . <u>Specs:</u>

sign and protect rec trail during the harvest and include the drumming log spec. if cut in the wintertime encourage producer to haul wood

south to 72

Monitoring, Natural Regen (Re-Inventory)

Next Step Treatments:

Acceptable aspen, red maple, and mixed pine

Regen:

<u>Other</u>

Comment:

Site Condition:

S t		Trave	erse City	y Mgt. Unit		Repo	rt 3 '	Treatments		Compartmer Year of Entr		DNR
a n d	Treatmer Name	t A	cres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habita Cut
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
Pres Spec	•			nd to regenerate aspired and feasible.	oen. Leave	all whit	te pine un	der 6 inch in dia	ameter. Mark to lea	ve no more than 2	2 trees per acr	e of large
	Ind	lude D	rummin	g log spec								
	Step Mo tments:	nitorin	g, Natur	al Regen (Re-Inven	tory)							
Acce Rege		oen, re	d maple	, cherry and mixed	pine							
Othe												
Site	Condition:											
Prop	osed Start	Date:	10/1 /20	25								
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
Pres Spec				nd to regenerate aspoine or oak if desire		_	pine und	er 6 inch in diar	meter and all white	oak. Mark to lea	ve no more th	an 2 trees
	sig 72	n and p	protect r	ec trail during the h	arvest inclu	ude the	drummin	g log spec. if cu	t in the wintertime of	encourage produc	er to haul woo	od south to
	Step Mo tments:	nitorin	g, Natur	al Regen (Re-Inven	tory)							
Acce Rege		oen, re	d maple	, cherry, oak and pi	ne							
Othe Com	e <u>r</u> iment:											
Site	Condition:											
Prop	osed Start	Date:	10/1 /20	25								
59	61109059	Cut	19.6	29 - Mixed Upland Conifers	Poletimbe Well	r 60	81-110	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
Pres Spec				nd to regenerate aspired and feasible.	oen. Leave	white p	oine under	6 inch in diame	eter. Mark to leave	e no more than 2	rees per acre	of large

pine or oak if desired and feasible. Specs:

> Protect rec trail during harvest. Monitoring, Natural Regen (Re-Inventory)

Next Step Treatments:

 $\underline{\mbox{Acceptable}}$ aspen, red maple, mixed hardwood and pine $\underline{\mbox{Regen:}}$

Other Comment:

Site Condition:

	Traverse City Mgt. Unit S t a					Repo	rt 3 '	Treatments		Compartmen Year of Entr		DNR DNRCE
	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
	70	61109070-Cut		4191 - Mixed Upland Deciduous with Conifer	Poletimbe Well	er 43	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
	res Spec	e <u>s:</u> Retenti	ion for this	nd to regenerate as harvest and future rec trail during the h	harvests or			•		or oak if desired	and feasible.	
	_	Step Monitor	ring, Natu	ral Regen (Re-Inver	ntory)							
	cce lege		red maple	e, oak, and pine								
	othe Com	<u>r</u> ment:										
5	ite	Condition:										

Total Treatment 383.3 Acreage Proposed:

Traverse City Mgt. Unit

Paul Roell: Examiner

Compartment: 109
Year of Entry: 2026

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.

Site Dominant Site No. 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
Paul Roell: Examiner

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

Mgt. Unit

Compartment: #Type! Year of Entry:

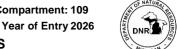


Report 5 - PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* 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 202



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 from approved distance from the river centerlines. The Natural Riv most Natural Rivers. The Vegetative Buffer ranges from 25 to	ers Zoning District is a 400 foot buffer for



Juli	d Level 4 Co	over Type	Siz			710.00	Stand Age E		Managed S	, ito	General Comments
1	4130	- Aspen	Pol	letimb	er Well	18.7	37	51-80	N/A		Cut in 1986 using a green tree method.
	Canopy Species	% Cove	r Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Ironwood	5	Sapling/Pole	3		Maj	ple (spp.)	High	Variable	Sapling	
	Basswood	5	Log/Pole	10							
	Bigtooth Aspen	40	Pole	7	37						
	Sugar Maple	25	Pole/Log	9							
	Quaking Aspen	20	Pole/Sapling	6	37						
	Beech	5	Log/Pole	10							
2	4130	- Aspen	S	apling	Well	4.4	16	Immature	N/A		
	Canopy Species	% Cove	Size Class	DBH	Age						
	Red Maple	20	Sapling	2							
	Bigtooth Aspen	65	Sapling	3	16						
	Sugar Maple	15	0 1'								
			Sapling	1							
3	4116 - Mixed N.	Hardwood	- Aspen Pol	letimb	er Well	57.0 Sub-Ca	75	81-110 Density	N/A Avg. Height	Size	
3		Hardwood	·	letimb	er Well Age 75	Sub-Ca	75 Inopy Species		N/A Avg. Height Variable	Size Sapling	
3	4116 - Mixed N. Canopy Species	Hardwood	- Aspen Pol	letimb DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height		
3	4116 - Mixed N. Canopy Species Sugar Maple	Hardwood % Cover	- Aspen Pol r Size Class Pole/Log/Sap	DBH	Age	Sub-Ca	nopy Species ed Maple	Density Low	Avg. Height Variable	Sapling	
3	4116 - Mixed N. Canopy Species Sugar Maple Beech	Hardwood **Cover 25 10	- Aspen Pol r Size Class Pole/Log/Sap Pole/Log	DBH 7 8	Age	Sub-Ca	nopy Species ed Maple	Density Low	Avg. Height Variable	Sapling	
3	4116 - Mixed N. Canopy Species Sugar Maple Beech Red Maple	Hardwood % Cover 25 10 20	- Aspen Pol r Size Class Pole/Log/Sap Pole/Log Pole/Log/Sap	DBH 7 8 7	Age	Sub-Ca	nopy Species ed Maple	Density Low	Avg. Height Variable	Sapling	
3	4116 - Mixed N. Canopy Species Sugar Maple Beech Red Maple Paper Birch	Hardwood **Cover 25 10 20 10	- Aspen Pol r Size Class Pole/Log/Sap Pole/Log Pole/Log/Sap Pole/Sapling	Page	Age	Sub-Ca	nopy Species ed Maple	Density Low	Avg. Height Variable	Sapling	
3	4116 - Mixed N. Canopy Species Sugar Maple Beech Red Maple Paper Birch Basswood	Hardwood % Cover 25 10 20 10 15 20 orthern Har	- Aspen Pol r Size Class Pole/Log/Sap Pole/Log/Sap Pole/Sapling Pole/Log/Sap Pole/Log/Sap Pole/Log/Sap Pole/Log/Sap Pole/Log/Sap Pole rdwoods Pol	7 8 7 5 6 8	Age	Sub-Ca	nopy Species ed Maple	Density Low	Avg. Height Variable	Sapling	Good acess of Grass Lake Rd NE to the west. Good sugar maple and
	4116 - Mixed N. Canopy Species Sugar Maple Beech Red Maple Paper Birch Basswood Bigtooth Aspen 4119 - Mixed No	Hardwood % Cover 25 10 20 10 15 20 orthern Har	- Aspen Pol r Size Class Pole/Log/Sap Pole/Log Pole/Log/Sap Pole/Sapling Pole/Log/Sap Pole	7 8 7 5 6 8	Age 75	Sub-Ca Re Sug	nnopy Species ed Maple gar Maple	Density Low Medium	Avg. Height Variable Variable	Sapling	Good acess of Grass Lake Rd NE to the west. Good sugar maple and aspen regen.
	4116 - Mixed N. Canopy Species Sugar Maple Beech Red Maple Paper Birch Basswood Bigtooth Aspen 4119 - Mixed No	Hardwood % Covel 25 10 20 10 15 20 orthern Hai	- Aspen Pol r Size Class Pole/Log/Sap Pole/Log/Sap Pole/Sapling Pole/Log/Sap Pole/Log/Sap Pole/Log/Sap Pole/Log/Sap Pole/Log/Sap Pole rdwoods Pol	DBH 7 8 7 5 6 8 letimb	Age 75 er Well	Sub-Ca Re Sug	nnopy Species ed Maple gar Maple	Density Low Medium	Avg. Height Variable Variable	Sapling	
	4116 - Mixed N. Canopy Species Sugar Maple Beech Red Maple Paper Birch Basswood Bigtooth Aspen 4119 - Mixed No	Hardwood % Covel 25 10 20 10 15 20 orthern Hai	- Aspen Pol r Size Class Pole/Log/Sap Pole/Log/Sap Pole/Sapling Pole/Log/Sap Pole rdwoods Pol r Size Class	DBH 7 8 7 5 6 8 letimb	Age 75 er Well	Sub-Ca Re Sug	nnopy Species ed Maple gar Maple	Density Low Medium	Avg. Height Variable Variable	Sapling	
	4116 - Mixed N. Canopy Species Sugar Maple Beech Red Maple Paper Birch Basswood Bigtooth Aspen 4119 - Mixed No Canopy Species Sugar Maple	Hardwood % Covel	- Aspen Pol r Size Class Pole/Log/Sap Pole/Log/Sap Pole/Sapling Pole/Log/Sap Pole rdwoods Pol r Size Class Sapling/Pole/Log	The state of the	Age 75 er Well	Sub-Ca Re Sug	nnopy Species ed Maple gar Maple	Density Low Medium	Avg. Height Variable Variable	Sapling	
	4116 - Mixed N. Canopy Species Sugar Maple Beech Red Maple Paper Birch Basswood Bigtooth Aspen 4119 - Mixed No Canopy Species Sugar Maple Red Maple	Hardwood % Cover 25 10 20 10 15 20 20 20 20 20 20 20 20 20 20 20 20 20	- Aspen Pol r Size Class Pole/Log/Sap Pole/Log/Sap Pole/Sapling Pole/Log/Sap Pole rdwoods Pol r Size Class Sapling/Pole/Log Pole/Sapling	Tetimb T	Age 75 er Well	Sub-Ca Re Sug	nnopy Species ed Maple gar Maple	Density Low Medium	Avg. Height Variable Variable	Sapling	
	4116 - Mixed N. Canopy Species Sugar Maple Beech Red Maple Paper Birch Basswood Bigtooth Aspen 4119 - Mixed No Canopy Species Sugar Maple Red Maple White Pine	Hardwood % Cover 25 10 20 10 15 20 orthern Har % Cover 50 10 10	- Aspen Pol r Size Class Pole/Log/Sap Pole/Log/Sap Pole/Sapling Pole/Log/Sap Pole rdwoods Pol r Size Class Sapling/Pole/Log Pole/Sapling Sapling/Pole	Page	Age 75 er Well	Sub-Ca Re Sug	nnopy Species ed Maple gar Maple	Density Low Medium	Avg. Height Variable Variable	Sapling	
	4116 - Mixed N. Canopy Species Sugar Maple Beech Red Maple Paper Birch Basswood Bigtooth Aspen 4119 - Mixed No Canopy Species Sugar Maple Red Maple White Pine Basswood	Hardwood % Cover 25 10 20 10 15 20 orthern Har % Cover 50 10 10 5	- Aspen Pol r Size Class Pole/Log/Sap Pole/Log/Sap Pole/Sapling Pole/Log/Sap Pole rdwoods Pol r Size Class Sapling/Pole/Log Sapling/Pole Pole/Log	Page	er Well Age 34	Sub-Ca Re Sug	nnopy Species ed Maple gar Maple	Density Low Medium	Avg. Height Variable Variable	Sapling	



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	ite	General Comments
5	4113 - R.M	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	
	Balsam Fir	15	Pole/Sap/Log	5		WI	nite Pine	Low	Variable	Sapling	
	Paper Birch	5	Pole	5		Re	ed Maple	Low	Variable	Sapling	
	White Pine	10	Pole	6		Ва	lsam Fir	Low	Variable	Sapling	
	Black Cherry	10	Pole/Log	8							-
	Red Maple	50	Pole/Log	8	65						
	Bigtooth Aspen	10	Log	10							
6	4119 - Mixed No	orthern Hard	dwoods S	awtimb	er Well	14.3	87	111-140	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Ironwood	5	Sapling/Pole	4			Beech	Low	Variable	Sapling	
	Red Maple	30	Log/Pole	10		Maj	ple (spp.)	Low	Variable	Sapling	
	Basswood	30	Log/Pole	10	65						-
	Beech	5	Log/Pole	10							
	Sugar Maple	30	Log/Pole	10	87						
7	4130	- Aspen		oletimb	er Well	36.9	45	81-110	N/A		-
	Canopy Species	% Cover	Size Class		Age		nopy Species	Density	Avg. Height	Size	
	Red Maple	15	Pole	7			onwood	Low	Variable	Sapling	
	Paper Birch	5	Pole	8	45	Re	ed Maple	Medium	Variable	Sapling	
	Sugar Maple	5	Pole/Sapling	6							
	Quaking Aspen	15	Pole	8	45						
	Bigtooth Aspen	60	Pole/Log	8	45						
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						
	Red Maple	25	Sapling/Pole	3							
	Bigtooth Aspen	35	Sapling	1	4						
	Black Cherry	5	Sapling	1							
	Sugar Maple	30	Sapling	3							
	White Pine	5	Sapling/Pole	4							
9	310 - Herbac	eous Open	land	Nonsto	cked	28.9	L	Inspecified	4211 - Planted	Red Pine	2023 - Stands Year 1 Regeneration Survey was completed 10/16/2023 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 Helicopte 2021 - Stand was trenched
10	6225	5 - Bog		Nonsto	cked	1.5	U	Inspecified	No		



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
11	122 - Road	d/Parking L	ot	Nonsto	cked	5.1		Unspecified	No		
12	320 - Up	land 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 Maple	30	Sapling	1	5						
	Bigtooth Aspen	35	Sapling	1	5						
	Red Pine	5	Log	12							
	Quaking Aspen	25	Sapling	1	5						
14	42111 - Planted Dec	I Red Pine, iduous	Mixed F	Poletimb	er Well	73.0	58	81-110	N/A		Planted in 1966. Planting records mention that due to oak slash row may be variable. VERY VARIABLE. Thinned in 2020 sale went good
	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	
	Bigtooth Aspen	10	Pole/Log	8							_
	Red Oak	15	Pole/Log	7							
	Red Pine	65	Pole	8	58						
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	
	Bigtooth Aspen	5	Log/XLog	14			Beech	Medium	Variable	Sapling	
	White Pine	5	Pole/Log	8		Suç	gar Maple	Low	Variable	Sapling	
	Basswood	5	Pole/Log	9							
	Beech	15	Pole/Log	8							
	Red Maple	15	Pole/Log	8							
	Sugar Maple	55	Pole/Log	8	85						
16	6130 - Fir,			Poletimbe		5.6	36	1-50	N/A		
	Canopy Species		Size Class		Age		nopy Specie		Avg. Height	Size	
No	rthern White Cedar	15	Pole	6	65		ag Alder	Low	5 - 10 feet	Tall Shrub	
	White Pine	10	Log	10		Re	ed Maple	Low	Variable	Sapling	1
	Balsam Fir	25	Pole	6							
	Quaking Aspen	35	Sapling/Pole		36						
	Red Maple	10	Pole/Log/Sap								
	Black Cherry	5	Sapling/Pole	5							



Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	ite	General Comments
17	4130	- Aspen	F	Poletimb	er Well	28.5	45	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	10	Pole	7		Re	d Maple	High	Variable	Sapling	
No	orthern White Cedar	2	Pole	8							
	Black Cherry	5	Pole	6							
	White Pine	8	Log/Pole	13							
	Sugar Maple	5	Pole	6							
	Bigtooth Aspen	65	Pole	8	45						
	Red Maple	5	Pole	6							
18	42120 - Pla	nted Jack P	ine	Sapling	y Well	30.8	22	Immature	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age						
	Jack Pine	98	Sapling	4	22						
	Red Maple	2	Sapling/Pole	4							
19			rrees	Nonsto	ncked	10.0		Immature	No		
20	4199 - Other Mixe	ow Density ed Upland D		Nonsto Sapling		37.4		Immature Immature	No N/A		Sale closed fall of 2019. There were a few large maples, one beech and
		ed Upland D		Sapling							Sale closed fall of 2019. There were a few large maples, one beech and some pines left
	4199 - Other Mixe	ed Upland D	eciduous	Sapling	j Well						
	4199 - Other Mixe	ed Upland D	eciduous Size Class	Sapling	j Well						
	4199 - Other Mixe Canopy Species Balsam Fir	ed Upland D **Cover** 5	eciduous Size Class Sapling	Sapling DBH	y Well						
	4199 - Other Mixe Canopy Species Balsam Fir Quaking Aspen	ed Upland D **Cover* 5 20	Peciduous Size Class Sapling Sapling	Sapling DBH 3 1	y Well						
	4199 - Other Mixe Canopy Species Balsam Fir Quaking Aspen Bigtooth Aspen	ed Upland D **Cover 5 20 15	eciduous Size Class Sapling Sapling Sapling	Sapling DBH 3 1	y Well						
	4199 - Other Mixe Canopy Species Balsam Fir Quaking Aspen Bigtooth Aspen White Pine	bd Upland D **Cover** 5 20 15 10	size Class Sapling Sapling Sapling Sapling Sapling	Sapling DBH 3 1 1 3	y Well Age						
	4199 - Other Mixe Canopy Species Balsam Fir Quaking Aspen Bigtooth Aspen White Pine Red Maple	ed Upland D % Cover 5 20 15 10 30 20	Size Class Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Sapling DBH 3 1 1 3 1 1	Well Age 6 6						
20	4199 - Other Mixe Canopy Species Balsam Fir Quaking Aspen Bigtooth Aspen White Pine Red Maple Black Cherry	bed Upland D **Cover* 5	Size Class Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Sapling DBH 3 1 1 1 3 1 1 Sawtimb	Well Age 6 6	37.4	6	Immature 81-110	N/A	Size	some pines left
20	4199 - Other Mixed Canopy Species Balsam Fir Quaking Aspen Bigtooth Aspen White Pine Red Maple Black Cherry 4111 - S.Maple, H	bed Upland D **Cover* 5	seciduous Size Class Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	Sapling DBH 3 1 1 1 3 1 1 Sawtimb	y Well Age 6 6 6	37.4 21.4 Sub-Car	6	Immature 81-110	N/A	Size Sapling	some pines left
20	4199 - Other Mixe Canopy Species Balsam Fir Quaking Aspen Bigtooth Aspen White Pine Red Maple Black Cherry 4111 - S.Maple, H Canopy Species	d Upland D Cover 5 20 15 10 30 20 ard Mast As	Size Class Sapling	Sapling DBH 3 1 1 1 3 1 1 Sawtimb	y Well Age 6 6 6	21.4 Sub-Car	6 88 nopy Species	Immature 81-110 Density	N/A N/A Avg. Height		some pines left
20	4199 - Other Mixe Canopy Species Balsam Fir Quaking Aspen Bigtooth Aspen White Pine Red Maple Black Cherry 4111 - S.Maple, H Canopy Species Red Maple	ed Upland D % Cover 5 20 15 10 30 20 ard Mast As % Cover 20	Size Class Sapling Log/Pole	Sapling DBH 3 1 1	y Well Age 6 6 6	21.4 Sub-Car	88 nopy Species	81-110 Density Medium	N/A N/A Avg. Height Variable	Sapling	some pines left



Stand	Level 4 C	over Type	s	ize De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
22	4130	- Aspen	Po	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	Age	Sub-Car	nopy Species	s Density	Avg. Height	Size	Rd NE. Wet stand with fingers of wet drainage areas throughout the stand.
	Red Maple	10	Pole/Log/Sap	5		Е	Beech	Low	Variable	Sapling	
	Quaking Aspen	40	Pole	6	36	Bal	sam Fir	Low	Variable	Sapling	
	White Pine	10	Log	10							
	Bigtooth Aspen	30	Pole	7	36						
	Black Cherry	5	Pole/Sapling	5							
	Balsam Fir	5	Sapling/Pole	4							
23	3303 - Mixed L	ow Density	Trees	Nonsto	cked	2.3	ı	Unspecified	No		
24	330 - Low-I	Density Tre	ees l	Nonsto	cked	8.4		Immature	No		
25	310 - Herbac	eous 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	Jpland Cor	nifers Sa	awtimb	er Well	7.2	89	111-140	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Cai	nopy Species	s Density	Avg. Height	Size	
	Red Oak	5	Log/Pole	12		Е	Beech	Low	Variable	Sapling	
	Balsam Fir	10	Pole/Sapling	7		Wh	ite Pine	Low	Variable	Sapling	
	Black Cherry	5	Pole/Sapling	5		Bal	sam Fir	Medium	Variable	Sapling	
	Bigtooth Aspen	5	Pole/Log	8		Мар	ole (spp.)	Low	Variable	Sapling	
	White Pine	50	Log/XLog/Pole	14	89						_
	Sugar Maple	10	Pole/Log	8							
	Red Pine	5	Log/Pole	12							
	Red Maple	10	Pole/Sapling	7							
28	500 -	- Water	I	Nonsto	cked	40.2	I	Unspecified	No		river/creek corridor with lowland shrubs



Stand	Level 4 C										
29	4311 - Pin	e, Aspen M	1ix S	aplin	g Well	12.8	17 I	mmature	N/A		Well stocked, Planted to the west with possible natural seeding in on t east side.
	Canopy Species	% Cover	Size Class	DBH	l Age						east side.
	Jack Pine	40	Sapling	4	17						
	Red Pine	5	Pole	6							
	Bigtooth Aspen	15	Sapling	3	18						
	Sugar Maple	20	Sapling	4							
	Red Oak	5	Sapling/Pole	4							
	White Pine	10	Sapling	4							
	Red Maple	5	Sapling	3							
30	4311 - Pin	e, Aspen M	lix Polet	timbe	r Medium	37.5	35	51-80	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Cano	py Species	Density	Avg. Height	Size	
	Quaking Aspen	15	Sapling/Pole	4		Bigtoot	th Aspen	Low	5 - 10 feet	Sapling	
	White Pine	50	Sapling/Pole/Log	4	35	White	e Pine	Low	5 - 10 feet	Sapling	
	Bigtooth Aspen	10	Sapling/Pole	4							-
	Black Cherry	15	Pole/Sap/Log	5							
	210011 011011										
	Balsam Fir	5	Pole/Sapling	6							
B1	Balsam Fir Red Maple	5 5 - Grass	Pole/Sapling	6 7 Nonste	ocked	1.9	I	mmature	No		
31	Balsam Fir Red Maple 3102 4136 - Asper	- Grass	Pole/Sapling Nonifer Pol	7 Nonsto	er Well	14.7	49	81-110	N/A		Some beaver activity on the east side along the two track. Larger whit pine throughout stand.
32	Balsam Fir Red Maple 3102 4136 - Asper Canopy Species	- Grass i, Mixed Co	Pole/Sapling Nonifer Pol Size Class	7 Nonsto	er Well	14.7 Sub-Cano	49 opy Species	81-110 Density	N/A Avg. Height	Size	Some beaver activity on the east side along the two track. Larger whit pine throughout stand.
32	Balsam Fir Red Maple 3102 4136 - Asper Canopy Species Bigtooth Aspen	- Grass i, Mixed Co ** Cover 40	Pole/Sapling Nonifer Pole Size Class Pole/Log	7 Nonsto	er Well	14.7 Sub-Cano	49 opy Species eech	81-110 Density Low	N/A Avg. Height Variable	Sapling	
32	Balsam Fir Red Maple 3102 4136 - Asper Canopy Species Bigtooth Aspen Black Cherry	5 - Grass a, Mixed Co % Cover 40 5	Pole/Sapling Nonifer Pol Size Class Pole/Log Pole	7 Nonsto	er Well	14.7 Sub-Cano Be Balsa	49 ppy Species eech am Fir	81-110 Density Low Low	N/A Avg. Height Variable Variable	Sapling Sapling	
32	Balsam Fir Red Maple 3102 4136 - Asper Canopy Species Bigtooth Aspen Black Cherry Red Maple	5 - Grass 1, Mixed Co % Cover 40 5 10	Pole/Sapling Nonifer Pol Size Class Pole/Log Pole Pole/Log	7 Nonsto	er Well	14.7 Sub-Cano Be Balsa Red	49 ppy Species eech am Fir Maple	81-110 Density Low Low Low	N/A Avg. Height Variable Variable Variable	Sapling Sapling Sapling	
32	Balsam Fir Red Maple 3102 4136 - Asper Canopy Species Bigtooth Aspen Black Cherry Red Maple Paper Birch	5 - Grass n, Mixed Co **Cover* 40 5 10 5	Pole/Sapling Nonifer Pol Size Class Pole/Log Pole Pole/Log Pole Pole	7 Nonsto	er Well Age 49	14.7 Sub-Cano Be Balsa Red	49 ppy Species eech am Fir	81-110 Density Low Low	N/A Avg. Height Variable Variable	Sapling Sapling	
32	Balsam Fir Red Maple 3102 4136 - Asper Canopy Species Bigtooth Aspen Black Cherry Red Maple Paper Birch Quaking Aspen	5 - Grass a, Mixed Co % Cover 40 5 10 5 20	Pole/Sapling Nonifer Pole Size Class Pole/Log Pole Pole/Log Pole Pole/Log	7 Nonsto	er Well	14.7 Sub-Cano Be Balsa Red	49 ppy Species eech am Fir Maple	81-110 Density Low Low Low	N/A Avg. Height Variable Variable Variable	Sapling Sapling Sapling	
32	Balsam Fir Red Maple 3102 4136 - Asper Canopy Species Bigtooth Aspen Black Cherry Red Maple Paper Birch Quaking Aspen Balsam Fir	5 - Grass a, Mixed Co ** Cover 40 5 10 5 20 15	Pole/Sapling Nonifer Pole Size Class Pole/Log Pole Pole/Log Pole Pole/Log Pole Pole/Log Pole Pole/Log	7 Nonsto	er Well Age 49	14.7 Sub-Cano Be Balsa Red	49 ppy Species eech am Fir Maple	81-110 Density Low Low Low	N/A Avg. Height Variable Variable Variable	Sapling Sapling Sapling	
332	Balsam Fir Red Maple 3102 4136 - Asper Canopy Species Bigtooth Aspen Black Cherry Red Maple Paper Birch Quaking Aspen Balsam Fir White Pine	5 - Grass a, Mixed Co % Cover 40 5 10 5 20 15 5	Pole/Sapling Nonifer Pole Size Class Pole/Log Pole Pole/Log Pole Pole/Log Pole Pole/Log Pole Log Pole/Log	7	er Well Age 49 37	14.7 Sub-Cano Be Balsa Red White	49 opy Species eech am Fir Maple e Pine	81-110 Density Low Low Low Low Low	N/A Avg. Height Variable Variable Variable Variable	Sapling Sapling Sapling	pine throughout stand.
32	Balsam Fir Red Maple 3102 4136 - Asper Canopy Species Bigtooth Aspen Black Cherry Red Maple Paper Birch Quaking Aspen Balsam Fir White Pine 4111 - S.Maple, Hall	5 - Grass n, Mixed Co % Cover 40 5 10 5 20 15 5 ard Mast A	Pole/Sapling Nonifer Pole Size Class Pole/Log Pole Pole/Log Pole Pole/Log Pole/Log Pole/Sapling Log Ssociation Sar	7 7 Nonstead 7 7	er Well Age 49 37 er Well	14.7 Sub-Cano Be Balsa Red White	49 ppy Species eech am Fir Maple e Pine	81-110 Density Low Low Low Low 81-110	N/A Avg. Height Variable Variable Variable Variable N/A	Sapling Sapling Sapling Sapling	Good acess to the west off N Grass Lake Rd NE. North of this stand in red pine plantation and to the west is a non-forested area that is the significant content of the stand in the significant content of the significant content content of the significant content content content content content content content content
32	Balsam Fir Red Maple 3102 4136 - Asper Canopy Species Bigtooth Aspen Black Cherry Red Maple Paper Birch Quaking Aspen Balsam Fir White Pine 4111 - S.Maple, Hall	5 - Grass n, Mixed Co Cover 40 5 10 5 20 15 5 ard Mast A	Pole/Sapling Nonifer Pole Size Class Pole/Log Pole Pole/Log Pole/Log Pole/Sapling Log Ssociation Sat	7	er Well Age 49 37	14.7 Sub-Cano Be Balsa Red White	49 ppy Species eech am Fir Maple e Pine 90 ppy Species	81-110 Density Low Low Low Low Density	N/A Avg. Height Variable Variable Variable Variable Variable	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 sign of an old Civilian Conservation Corp (CCC) camp. This stand was las
32	Balsam Fir Red Maple 3102 4136 - Asper Canopy Species Bigtooth Aspen Black Cherry Red Maple Paper Birch Quaking Aspen Balsam Fir White Pine 4111 - S.Maple, Haller	5 - Grass a, Mixed Co Cover 40 5 10 5 20 15 5 ard Mast A Cover 5	Pole/Sapling Nonifer Pole Size Class Pole/Log Pole Pole/Log Pole/Log Pole/Sapling Log Size Class Pole/Sapling	7	er Well Age 49 37 er Well	14.7 Sub-Cano Be Balsa Red White	49 ppy Species eech am Fir Maple e Pine 90 ppy Species r Maple	81-110 Density Low Low Low Low B1-110 Density Low Low	N/A Avg. Height Variable Variable Variable Variable Variable N/A Avg. Height Variable	Sapling Sapling Sapling Sapling Sapling	Good acess to the west off N Grass Lake Rd NE. North of this stand i
32	Balsam Fir Red Maple 3102 4136 - Asper Canopy Species Bigtooth Aspen Black Cherry Red Maple Paper Birch Quaking Aspen Balsam Fir White Pine 4111 - S.Maple, Halter Canopy Species Ironwood Red Maple	5 - Grass a, Mixed Co % Cover 40	Pole/Sapling Nonifer Pole Size Class Pole/Log Pole Pole/Log Pole/Sapling Log ssociation Sav Size Class Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling	7	aer Well Age 49 37 er Well Age	14.7 Sub-Cano Be Balsa Red White 102.5 Sub-Cano Sugar Be	49 ppy Species eech am Fir Maple e Pine 90 ppy Species r Maple eech	81-110 Density Low Low Low Low Density 81-110 Density Low Medium	N/A Avg. Height Variable Variable Variable Variable Avg. Height Variable 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 sign of an old Civilian Conservation Corp (CCC) camp. This stand was las
32	Balsam Fir Red Maple 3102 4136 - Asper Canopy Species Bigtooth Aspen Black Cherry Red Maple Paper Birch Quaking Aspen Balsam Fir White Pine 4111 - S.Maple, Haller	5 - Grass a, Mixed Co Cover 40 5 10 5 20 15 5 ard Mast A Cover 5	Pole/Sapling Nonifer Pole Size Class Pole/Log Pole Pole/Log Pole/Log Pole/Sapling Log Size Class Pole/Sapling	7	er Well Age 49 37 er Well	14.7 Sub-Cano Be Balsa Red White 102.5 Sub-Cano Sugar Be	49 ppy Species eech am Fir Maple e Pine 90 ppy Species r Maple	81-110 Density Low Low Low Low B1-110 Density Low Low	N/A Avg. Height Variable Variable Variable Variable Variable N/A Avg. Height Variable	Sapling Sapling Sapling Sapling Sapling	Good acess to the west off N Grass Lake Rd NE. North of this stand i red pine plantation and to the west is a non-forested area that is the si of an old Civilian Conservation Corp (CCC) camp. This stand was last



Stand	Level 4 C	over Type	s	ize De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
37	429 - Mixed l	Upland Con	ifers Po	oletimb	er Well	52.5	75	111-140	N/A		Stand has wet areas throughout
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	White Pine	30	Log/Pole	10	75	Ва	lsam Fir	Medium	5 - 10 feet	Sapling	
	Paper Birch	5	Pole/Sapling	5		Wh	nite Pine	Low	Variable	Sapling	
	Red Maple	15	Pole/Sapling	6		Asp	en (spp.)	Low	Variable	Sapling	
	Red Pine	5	Log/Pole	10							_
	Balsam Fir	30	Pole	6							
	Quaking Aspen	15	Pole/Sap/Log	6							
40	4319 - Mixed	d Upland Fo	orest Po	oletimb	er Well	15.1	73	51-80	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Maple	20	Pole	6	66	Re	d Maple	Low	Variable	Sapling	
	White Pine	35	Pole/Log	8	73	Ва	lsam Fir	Medium	Variable	Sapling	
	Balsam Fir	15	Pole	7		WI	nite Pine	Low	Variable	Sapling	
	Paper Birch	5	Pole	6							_
	Bigtooth Aspen	20	Pole/Log	8							
	Quaking Aspen	5	Pole/Log	8							
41	6224 - ⁻	Treed Bog	1	Nonsto	cked	15.1	I	mmature	No		
						Sub-Ca	nopy Species	Density	Avg. Height	Size	
						Ва	lsam Fir	Low	10 - 20 feet	Sapling	
						Blac	ck Spruce	Low	10 - 20 feet	Sapling	
						Northerr	White Cedar	Low	Variable	Sapling	
						Та	ımarack	Low	10 - 20 feet	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 Lal
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Rd NE. Wet stand with fingers of wet drainage areas throughout the stand.
	Quaking Aspen	40	Pole	6	36	Ва	lsam Fir	Low	Variable	Sapling	
	Bigtooth Aspen	30	Pole	7	36		Beech	Low	Variable	Sapling	
	Black Cherry	5	Pole/Sapling	5							
	Balsam Fir	5	Sapling/Pole	4							
	Red Maple	10	Pole/Log/Sap	5							
	White Pine	10	Log	10							
44	6225	5 - Bog	1	Nonsto	cked	1.1	Uı	nspecified	No		



Stan	d Level 4 C	over Type	5	Size De	nsity	Acres	Stand Age	BA Ran	ige	Managed S	ite	General Comments
45	4319 - Mixed	d Upland Fo	prest	Sapling	Poor	5.2	15	Immati	ure	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age							
	Bigtooth Aspen	10	Sapling/Pole	4								
	Black Cherry	15	Pole/Sapling	6								
	Red Maple	25	Sapling/Pole	4								
	White Pine	50	Sapling/Pole	4	15							
46	622 - Lov	vland Shrub)	Nonsto	ocked	262.6		Unspec	ified	No		With low density mix decidous trees
47	4191 - Mixed Upla Co	and Decidu onifer	ous with P	oletimb	er Well	23.8	52	81-11	0	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	es Der	nsity	Avg. Height	Size	
	Balsam Fir	15	Pole/Sap/Log	5		WI	nite Pine	L	_OW	Variable	Sapling	
	Red Maple	20	Pole/Sap/Log	6		Re	ed Maple	L	_OW	Variable	Sapling	
	Quaking Aspen	10	Log/XLog	15		Ва	Isam Fir	L	.OW	Variable	Sapling	
	White Pine	25	Pole/Log	8	52							
	Bigtooth Aspen	25	Pole/Log	8	52							
	Paper Birch	5	Pole	5								
48	4191 - Mixed Upla Co	and Decidu onifer	ous with	Sapling	g Well	15.2	20	Immati	ure	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	l Age							
	Quaking Aspen	10	Sapling/Pole	4	20							
	Jack Pine	30	Sapling/Pole	4	20							
	Red Oak	5	Sapling/Pole	4	20							
	Bigtooth Aspen	25	Sapling	4								
	Red Maple	30	Sapling	3	20							
49	4130	- Aspen	P	oletimb	er Wel	28.2	44	81-11	0	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	es Der	nsity	Avg. Height	Size	
	Bigtooth Aspen	55	Pole/Log	8	44	Maj	ple (spp.)	L	_OW	Variable	Sapling	
	Black Cherry	5	Pole	6		WI	nite Pine	L	_OW	Variable	Sapling	
	White Pine	5	Log/Pole	10								
	Red Maple	5	Pole/Sapling	6								
	Quaking Aspen	25	Pole	7	44							
	Balsam Fir	5	Pole	6								



Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	te General Comments	MICHIGAN
51	4130	- Aspen		Sapling	g Well	13.9	26	Unspecified	N/A	Well stocked, easy access, stand splits a young red pine strip plan	ntation
	Canopy Species	% Cover	Size Class	DBH	l Age						
	Bigtooth Aspen	30	Sapling/Pole	4	26						
	Red Maple	20	Sapling	3							
	Black Cherry	20	Sapling	3							
	Quaking Aspen	30	Sapling/Pole	4	26						
52	4130	- Aspen		Sapling	g Well	28.7	23	Immature	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age						
	White Pine	5	Sapling/Pole	3							
	Bigtooth Aspen	50	Sapling	4	23						
	Black Cherry	5	Sapling	3							
	Balsam Fir	5	Sapling	3							
	Red Maple	5	Sapling	3	23						
	Quaking Aspen	30	Sapling	3	23						
53	4311 - Pin Canopy Species	e, Aspen M % Cover	Size Class	Sapling DB F	y Well	23.6	16	Immature	N/A		
	Red Maple	15	Sapling	2	16						
	Bigtooth Aspen	10	Sapling	3							
	Sugar Maple	5	Sapling	2							
	Red Pine	55	Sapling	2	16						
	Black Cherry	5	Sapling	2							
	Quaking Aspen	10	Sapling	3	16						
54	429 - Mixed l	Jpland Con	ifers P	oletimb	er Well	41.8	78	111-140	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	
	Red Maple	15	Pole/Sap/Log	7		W	hite Pine	Low	Variable	Sapling	
	Balsam Fir	15	Pole/Sap/Log	6		Ва	lsam Fir	Low	Variable	Sapling	
		10	Pole/Sap/Log	7							
	Quaking Aspen	10									
	Quaking Aspen White Pine	35	Pole/Log/Sap		78						
					78						



Stand	I Level 4 C	over Type	\$	Size De	ensity	Acres	Stand Age B	A Range	Managed S	iite	General Comments
56	42210 - Na	tural Red P	ine S	awtimb	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	
	White Pine	10	Log/Pole	11		Map	ole (spp.)	Low	Variable	Sapling	
	Red Pine	65	Log	11	75						_
	Balsam Fir	5	Pole	6							
	Red Maple	5	Pole	6							
	Red Oak	5	Pole/Log	8							
	Quaking Aspen	10	Pole	6							
57	4191 - Mixed Upli Co	and Decidu onifer	ous with Pol	etimbe	r Mediur	m 18.0	38	51-80	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Bigtooth Aspen	10	Pole	8		Asp	en (spp.)	Low	Variable	Sapling	
	White Pine	15	Log	11		Wh	nite Pine	Low	Variable	Sapling	
	Red Maple	20	Sapling/Pole	4		Мар	ole (spp.)	Low	Variable	Sapling	
	Quaking Aspen	25	Pole/Sap/Log	6	38						
	Black Cherry	15	Sapling/Pole	4							
	Balsam Fir	10	Sapling/Pole	4							
	Red Oak	5	Pole/Log	8							
58	4133 - Aspe	en, Mixed P	ine Pol	etimbe	r Mediur	m 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	H 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.
	Balsam Fir	5	Pole/Sapling	5		Wh	nite Pine	Medium	Variable	Sapling	
	White Pine	25	Pole/Sap/Log	6		Re	d Maple	Low	Variable	Sapling	
	Bigtooth Aspen	20	Pole/Log	8	53						
	Black Cherry	20	Pole/Sapling	5							
	Red Oak	5	Sapling/Pole	4							
	Red Pine	5	Log/Pole	10							
	Quaking Aspen	20	Pole	6	46						
59	429 - Mixed I	Jpland Con	ifers P	oletimb	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	H Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Good acess of Sunset Trail.
	Red Maple	10	Pole/Sap/Log	6		Re	d Maple	High	Variable	Sapling	
	Bigtooth Aspen	20	Pole/Log	8		Wh	nite Pine	Low	Variable	Sapling	
	White Pine	30	Pole/Log/Sap	7	60	Ва	lsam Fir	Low	Variable	Sapling	
	Balsam Fir	25	Pole/Sap/Log	5							
	Black Spruce	15	Pole/Sap/Log	6							



	d Level 4 C	over Type	Si	ze De	ensity	Acres Star	nd Age BA	A Range	Managed S	ite	General Comments	MICHIGAN
61	429 - Mixed l	Jpland Cor	nifers Pole	timbe	r Mediuı	m 14.3	42	51-80	N/A			
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy	Species	Density	Avg. Height	Size		
	Black Cherry	5	Pole/Log	8		Balsam	Fir	Low	Variable	Sapling		
	Red Maple	15	Pole/Sapling	6		White P	ine	Low	Variable	Sapling		
	Quaking Aspen	20	Pole/Sapling	6								
	White Pine	25	Pole/Sapling	6	42							
	Balsam Fir	30	Pole/Sapling	6	42							
	Black Spruce	5	Pole/Sapling	6								
62	4133 - Aspe	en, Mixed F	Pine S	apling	g Well	48.3	8 Ir	nmature	N/A		Timber sale was completed in 2016 regen looks good	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy	Species	Density	Avg. Height	Size		
	White Pine	25	Sapling/Pole/Log	4		Balsam	Fir	Low	Variable	Sapling		
	Quaking Aspen	20	Sapling	1	8	White P	ine	Low	Variable	Sapling		
	Red Oak	15	Sapling/Pole	1		Maple (s	pp.)	Low	Variable	Sapling		
	Bigtooth Aspen	30	Sapling	2	8						•	
	Red Maple	10	Sapling	1								
63		- Grass nted Red F			ocked er Well	6.9		specified 81-110	No N/A		thinned in 2018	
	Canopy Species											
	Carlopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy	Species	Density	Avg. Height	Size		
	Red Pine	% Cover	Size Class Pole/Log	DB F	Age 58	Sub-Canopy Beec		Density Low	Avg. Height Variable	Size Sapling		
				_								
	Red Pine	85	Pole/Log	8								
	Red Pine Quaking Aspen	85 5	Pole/Log Pole/Sap/Log	8 5								
67	Red Pine Quaking Aspen Red Oak Red Maple	85 5 5	Pole/Log Pole/Sap/Log XLog/Log Pole/Log	8 5 18 8		Beec	h				Harvested in 2010.	
67	Red Pine Quaking Aspen Red Oak Red Maple	85 5 5 5	Pole/Log Pole/Sap/Log XLog/Log Pole/Log	8 5 18 8	58	Beec	h	Low	Variable		Harvested in 2010.	
67	Red Pine Quaking Aspen Red Oak Red Maple 4130	85 5 5 5	Pole/Log Pole/Sap/Log XLog/Log Pole/Log	8 5 18 8	58 g Well	Beec	h	Low	Variable		Harvested in 2010.	
67	Red Pine Quaking Aspen Red Oak Red Maple 4130 Canopy Species	85 5 5 5 - Aspen	Pole/Log Pole/Sap/Log XLog/Log Pole/Log Size Class	8 5 18 8 apling DBH	58 g Well	Beec	h	Low	Variable		Harvested in 2010.	
67	Red Pine Quaking Aspen Red Oak Red Maple 4130 Canopy Species Red Maple	85 5 5 5 - Aspen % Cover	Pole/Log Pole/Sap/Log XLog/Log Pole/Log Size Class Sapling	8 5 18 8 apling DBH 2	58 g Well	Beec	h	Low	Variable		Harvested in 2010.	
67	Red Pine Quaking Aspen Red Oak Red Maple 4130 Canopy Species Red Maple Black Cherry	85 5 5 5 - Aspen 20 5	Pole/Log Pole/Sap/Log XLog/Log Pole/Log Size Class Sapling Sapling	8 5 18 8 appling DBH 2 2	g Well	Beec	h	Low	Variable		Harvested in 2010.	
67	Red Pine Quaking Aspen Red Oak Red Maple 4130 Canopy Species Red Maple Black Cherry Bigtooth Aspen Quaking Aspen	85 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Pole/Log Pole/Sap/Log XLog/Log Pole/Log Size Class Sapling Sapling Sapling Sapling Sapling	8 5 18 8 Eapling DBH 2 2 3 2	y Well Age	6.5	14 Ir	Low	Variable		Harvested in 2010.	
	Red Pine Quaking Aspen Red Oak Red Maple 4130 Canopy Species Red Maple Black Cherry Bigtooth Aspen Quaking Aspen	85 5 5 5 - Aspen % Cover 20 5 50 25	Pole/Log Pole/Sap/Log XLog/Log Pole/Log Size Class Sapling Sapling Sapling Sapling Pole Sapling	8 5 18 8 eapling DBH 2 2 3 2 eletimb	58 Well Age	6.5	14 Ir	Low	Variable N/A		Harvested in 2010.	
	Red Pine Quaking Aspen Red Oak Red Maple 4130 Canopy Species Red Maple Black Cherry Bigtooth Aspen Quaking Aspen	85 5 5 - Aspen % Cover 20 5 50 25	Pole/Log Pole/Sap/Log XLog/Log Pole/Log Size Class Sapling Sapling Sapling Sapling Pole Sapling	8 5 18 8 eapling DBH 2 2 3 2 eletimb	y Well Age 14 14 14 per Well	6.5 21.3	14 Ir 46 Species	Low nmature	Variable N/A	Sapling	Harvested in 2010.	
	Red Pine Quaking Aspen Red Oak Red Maple 4130 Canopy Species Red Maple Black Cherry Bigtooth Aspen Quaking Aspen 4130 Canopy Species	85 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Pole/Log Pole/Sap/Log XLog/Log Pole/Log Size Class Sapling Sapling Sapling Sapling Sapling Sapling Sapling	8 5 18 8 Papling DBH 2 2 3 2 Petimb	y Well Age 14 14 14 per Well	6.5 21.3 Sub-Canopy	14 In 46 Species ine	nmature 81-110 Density	Variable N/A N/A Avg. Height	Sapling	Harvested in 2010.	
	Red Pine Quaking Aspen Red Oak Red Maple 4130 Canopy Species Red Maple Black Cherry Bigtooth Aspen Quaking Aspen 4130 Canopy Species Red Oak	85 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Pole/Log Pole/Sap/Log XLog/Log Pole/Log Size Class Sapling Sapling Sapling Sapling Sapling Sapling Pole/Sap/Log	8 5 18 8 8	y Well Age 14 14 14 per Well	6.5 21.3 Sub-Canopy White P	14 In 46 Species ine	nmature 81-110 Density Low	N/A N/A Avg. Height Variable	Sapling Size Sapling	Harvested in 2010.	
	Red Pine Quaking Aspen Red Oak Red Maple 4130 Canopy Species Red Maple Black Cherry Bigtooth Aspen Quaking Aspen 4130 Canopy Species Red Oak Paper Birch	85 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Pole/Log Pole/Sap/Log XLog/Log Pole/Log Size Class Sapling Sapling Sapling Sapling Sapling Sapling Pole/Sap/Log Pole/Sap/Log	8 5 18 8	3 Well Age 14 14 14 Per Well Age	6.5 21.3 Sub-Canopy White P	14 In 46 Species ine	nmature 81-110 Density Low	N/A N/A Avg. Height Variable	Sapling Size Sapling	Harvested in 2010.	

Traverse City Mgt. Unit Report 7 - Stands



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



Stand	Level 4 C	;	Size Density			Stand Age	BA Range	ange Managed Sit		General Comments	MICHIGAN .	
77	3102 - Grass			Nonstocked		1.1		Unspecified	No			
78	4311 - Pin	e, Aspen M	lix P	oletimb	er Well	5.2	44	111-140	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	anopy Specie	s Density	Avg. Height	Size		
	Red Maple	10	Pole	6		W	hite Pine	Low	Variable	Sapling		
	Bigtooth Aspen	45	Pole	6	44	Re	ed Maple	Low	Variable	Sapling		
	White Pine	45	Log	12							•	
79	42110 - Planted Red Pine Poletimber We			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	5	28							
80	42260 - Natural Pi	ne, Mixed [Deciduous S	Sawtimb	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	anopy Specie	s Density	Avg. Height	Size		
	Red Oak	20	Log/Pole	11		W	hite Pine	Low	Variable	Sapling		
	Red Pine	25	Log/Pole	11	87	Balsam Fir		Low	Variable	Sapling		
	Red Maple	10	Pole	6		Maple (spp.)		Low	Variable	Sapling		
	Quaking Aspen	10	Log/Pole	11		Aspen (spp.)		Low	Variable	Sapling		
	White Pine	35	Pole/Log	9	87							
81	42110 - Pla	nted Red P	rine S	Sawtimb	er Well	2.7	69	111-140	N/A		Retention pocket	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	anopy Specie	s Density	Avg. Height	Size		
	Red Pine	100	Log	12	69	R	Red Oak	Low	Variable	Sapling		
						W	hite Pine	Low	Variable	Sapling		
							ed Maple	Low	Variable	Sapling		
						R	Red Pine	Low	Variable	Sapling		
							Beech	Medium	Variable	Sapling		
91	4319 - Mixed	l Upland Fo	orest P	oletimb	er Poor	13.7	49	1-50	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age		anopy Specie	s Density	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		
	Black Cherry	25	Pole/Sap/Log		49							
	Balsam Fir	20	Pole/Sapling									
	Red Maple	15	Pole	6								
	White Pine	25	Pole/Log	8	49							