

## **Compartment Review Presentation**

**Traverse City Forest Management Unit** 

Compartment 61245 Entry Year: 2026 Acreage: 1,897

County: Kalkaska
Management Area: High Sand Plains

Stand Examiner: Steve Crigier

**Legal Description:** 

T25N R7W Sections 27, 28, 33, and 34

## **Identified Planning Goals:**

Vegetation management in the Manistee River Valley management area will provide timber products; maintain or enhance wildlife habitat; protect areas of unique character including the Manistee River and its tributaries, a designated natural river; protect threatened, endangered and special concern species; and provide for forest-based recreational uses. Most of this management area sits on glacial outwash plain. A history of intensive management has resulted in the varied forest cover types present today. Timber management will emphasize thinning harvests, in mixed pine cover types, to enhance stand quality, recreational opportunities; increasing regeneration of oak and mixed pine. Expected trends within this 10-year planning period are increased recreational pressure, especially on the established trails and along the Manistee River and its tributaries; a need to restore barrens communities through prescribed fire; and invasive plant control.

## Soil and topography:

Much of the upland area of the compartment sits on Rubicon, Au Gres, and Croswell sands with various muck soils filling the lowland areas. Much of the compartment is flat, lowland areas through the Manistee River valley. The terrain raises a bit in elevation in Section 34, near the county line with some moderate hills.

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

Most of the compartment is state-owned land except for a couple privately owned parcels along the Manistee River and a private forty in Section 27 SENE. Most of the compartment is surrounded by state-owned land with the exception of the north boundary of Section 28 which is privately owned yet mostly undeveloped. Much of this compartment was acquired as former Consumers Energy Company leases. Consumers retained the mineral rights on that land.

#### **Unique Natural Features:**

The Manistee River and Cannon Creek flow through this compartment. There is potential for some Threatened and Endangered species populations to exist within the compartment.

### Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

## **Special Management Designations or Considerations:**

The Manistee River and its tributaries are protected by Natural Rivers designation. Visual management is especially important along the main stem of the Manistee River.

#### **Watershed and Fisheries Considerations:**

The main stem of the Manistee River runs along and through the northwest edge of the compartment. It also contains several perennial and intermittent tributaries including Little Cannon Creek. The latter is dammed at Goulant Dam. All of these are designated trout streams. The Manistee River is a nationally recognized trout stream with naturally reproducing populations of brook, brown and rainbow trout. There are two small oxbow lakes in Section 27.

#### Wildlife Habitat Considerations:

This compartment is located within southwest Kalkaska County. The Manistee River meanders along the northern limits of this compartment. M-66 transects a small portion of Sec. 33.

Most of this compartment lies within a broad, flat outwash plain with either loamy sand or poorly drained organic soils (LTA 5131). There are mixed lowland conifers, shrub lowlands, and aspen stands. GLO surveyors reported large windthrows within this LTA. Variable sized habitat cuts may be a viable management tool within these large stands. Habitat cuts would mimic these windthrows, which allow sunlight to penetrate to the ground level causing new growth. Windthrows benefit many wildlife species. Most of the openings within this compartment are too small to delineate from the larger forested stands where they occur. Opportunity to maintain some of these small breaks in the canopy would provide some added diversity to the compartment. Large mixed conifer stands provide winter cover for white-tailed deer. Other animals that may be found in this habitat community include red-shouldered hawk, olive-sided flycatcher, black bear, spotted salamander, and

massasauga rattlesnake. The Manistee River provides habitat for a variety of animals including wood turtle, otter, and nighthawks. The aspen stands should be managed for variable-age classes, with the inclusion of large coarse woody debris (CWD). Deer, woodcock, and ruffed grouse have benefited from previous aspen cuts within this compartment.

A strip of broad, flat outwash plain (LTA 5111) exists in the southeast portion of section 33 and the middle portion of section 34. Since this LTA type has historically been fire-dependant, timber management practices should include those that mimic fire of various intensities, when applicable. These practices include the creation of coarse woody debris (CWD) and leave trees, islands, or strips.

The south portion of section 34 is an ice contact ridge (LTA 3111). Management practices should include keeping of mast-producing trees and snags/CWD and the creation of large course woody debris within the aspen stands.

#### 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 three miles southeast. There is some potential for sand & gravel within the compartment on the uplands in the southeast end. Some minor production of hydrocarbons from the Collingwood Formation occurred in this area. The Collingwood, however, has not yet 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. Recent oil & gas leasing activity in this area by West Bay Exploration may signal renewed interest in the Collingwood or, more likely, Devonian carbonate formations, but no well permit applications have been submitted for the area to date. It is unlikely, however, that any significant portion of the compartment will be included in any future development. 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:**

M-66 runs through Section 33 and there is sufficient vehicle access throughout the rest of the compartment. Some two-tracks that were closed after timber sales may need to be reclosed again.

## **Survey Needs:**

There are no survey needs at this time.

## **Recreational Facilities and Opportunities:**

The North Missaukee Motorcycle Trail winds through Section 34 in the Southeast portion of this compartment. Motorcycle trails are best kept narrow to reduce mis-use by larger ORV's. Appropriate trail protection specifications should be included in the timber sale contracts to reduce potential trail impacts where trail is adjacent to prescribed forest treatments. The Manistee River is popular for paddling but there are no recreational facilities within the compartment. Other recreational opportunities include hunting and fishing.

#### **Fire Protection:**

Given the large proportion of this compartment that is lowland, wildfire risk in this compartment is relatively low. Fire protection would be provided by the Kalkaska FRD office and the Garfield Fire Department.

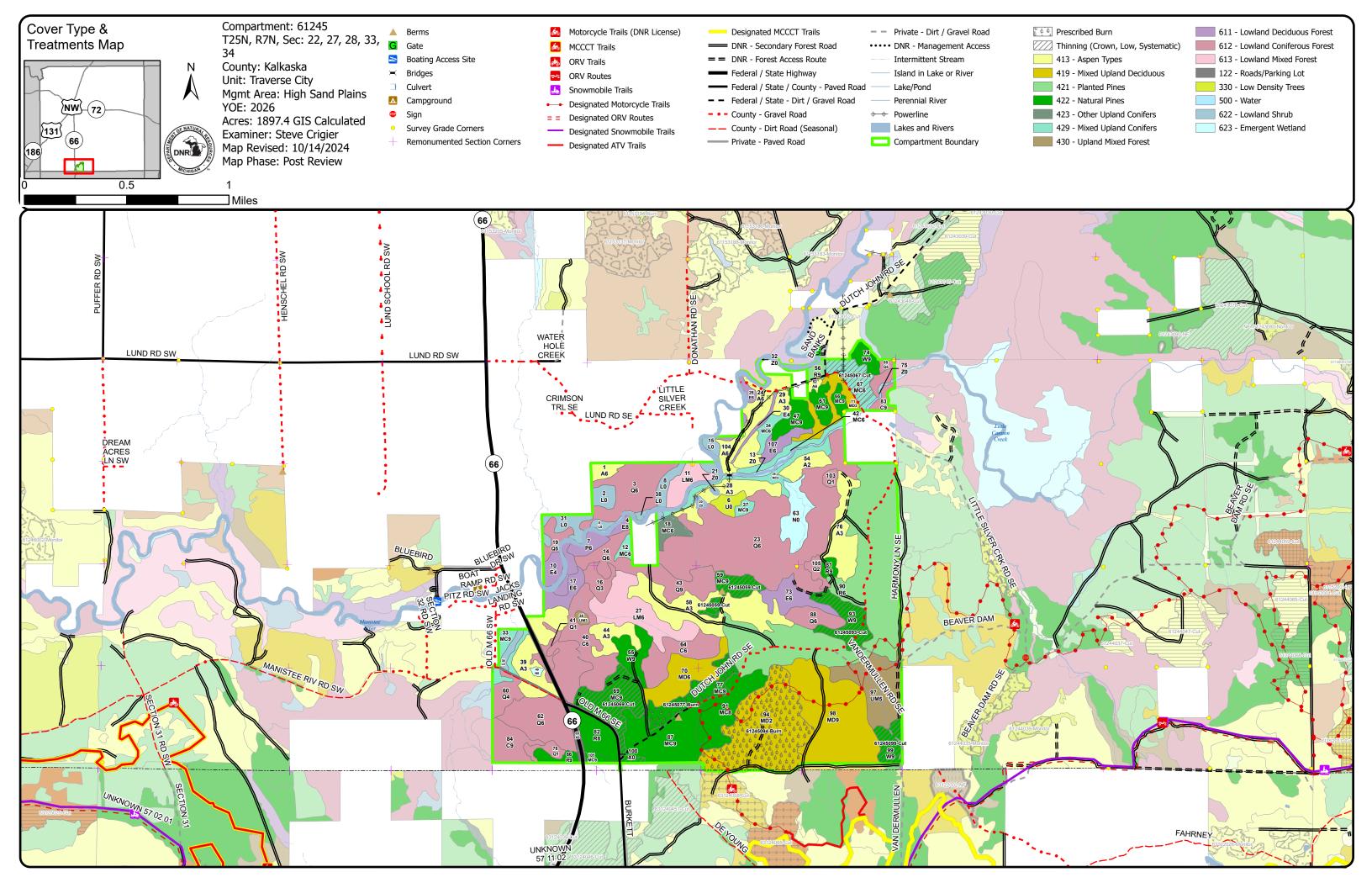
#### **Additional Compartment Information:**

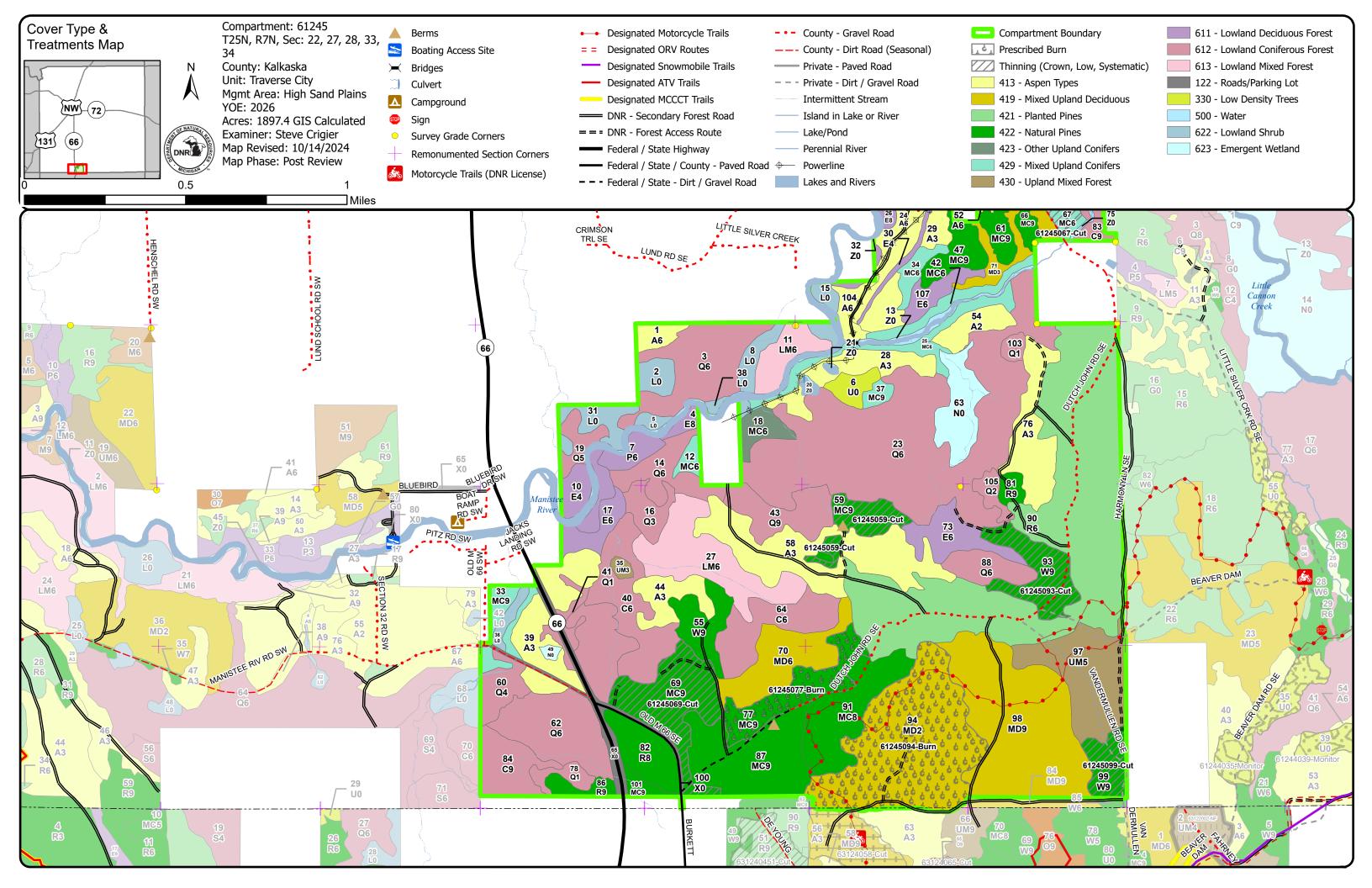
The following reports from the Inventory are attached:

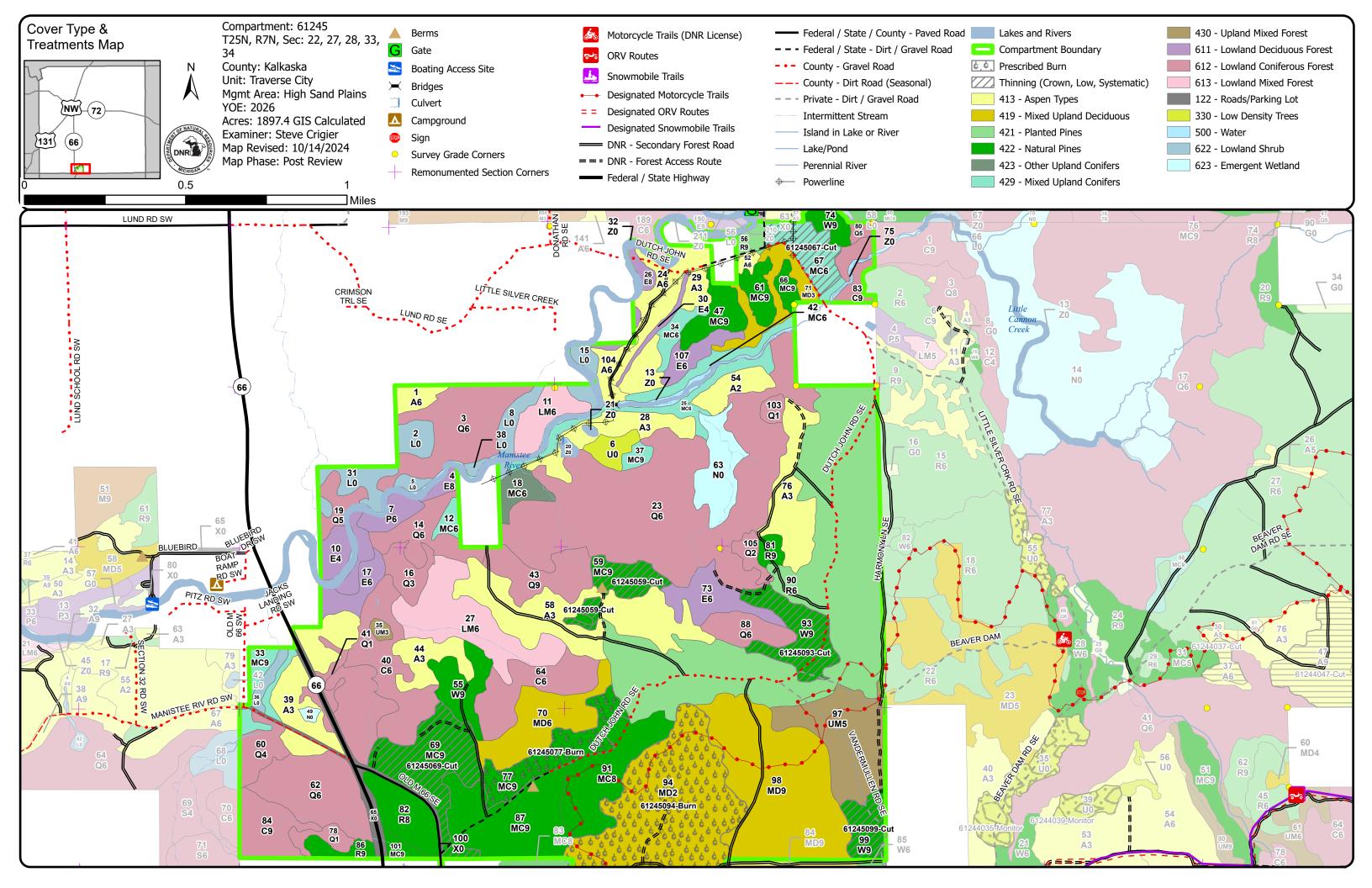
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

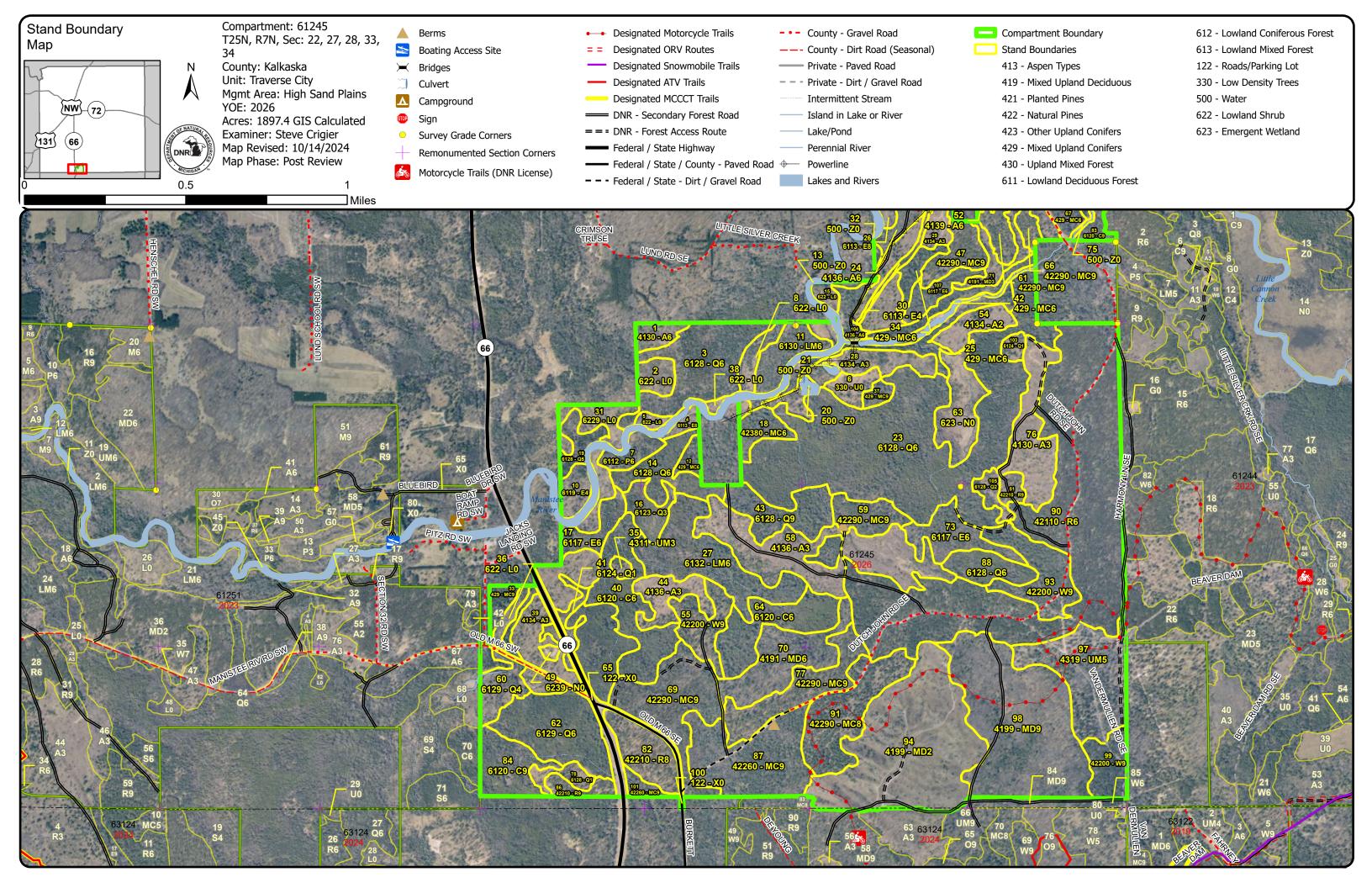
The following information is displayed, where pertinent, on the attached compartment maps:

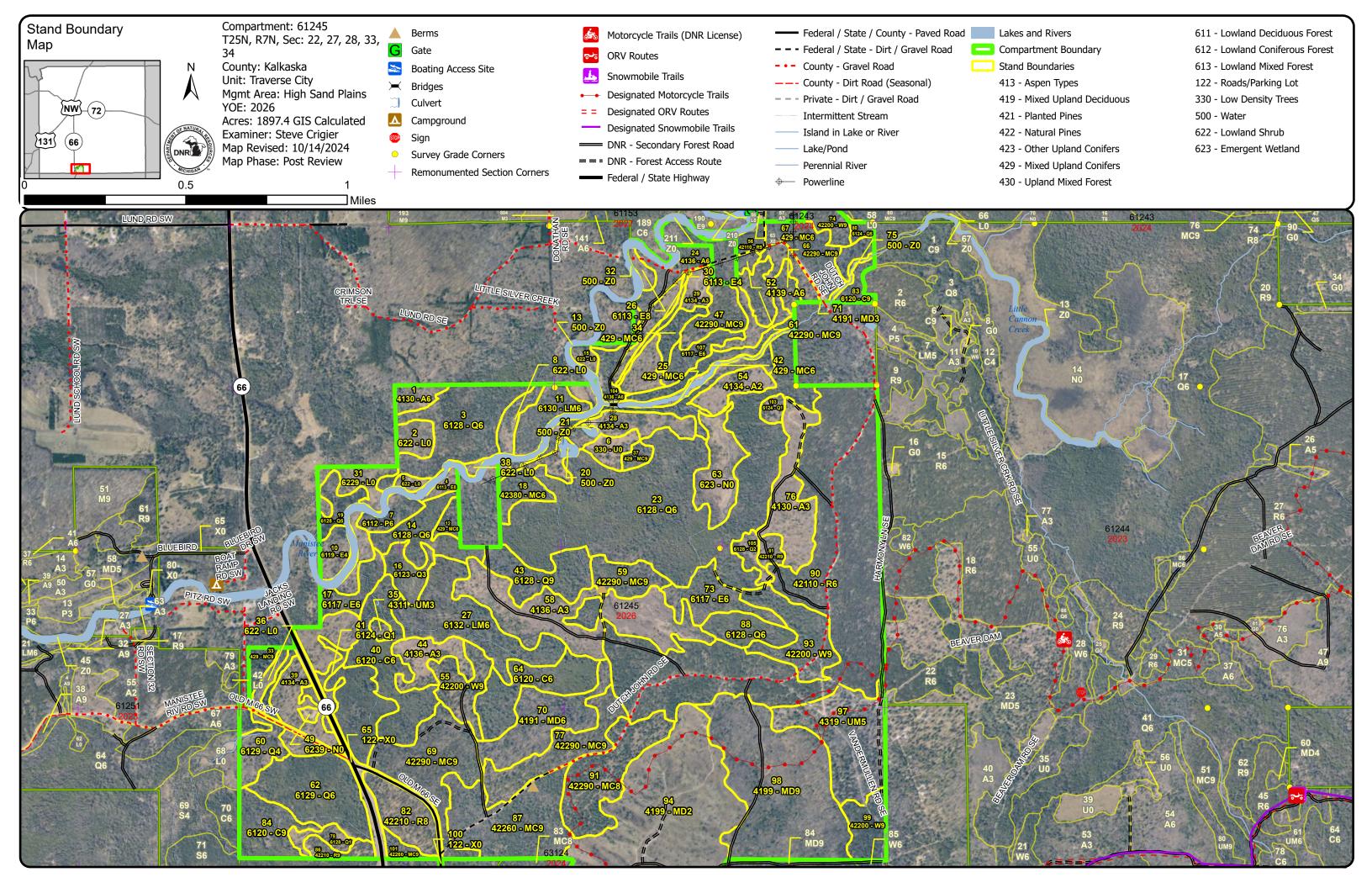
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

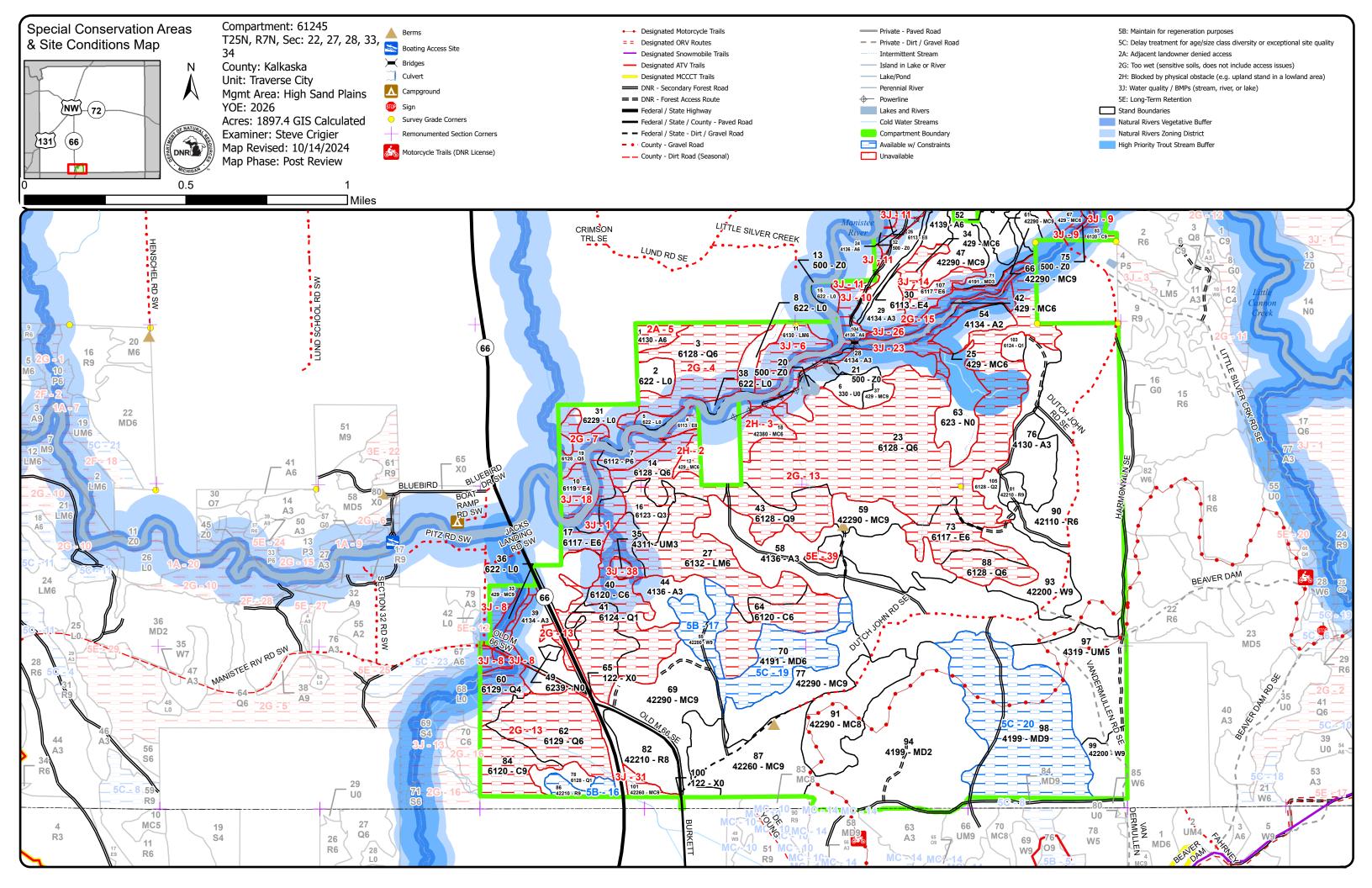


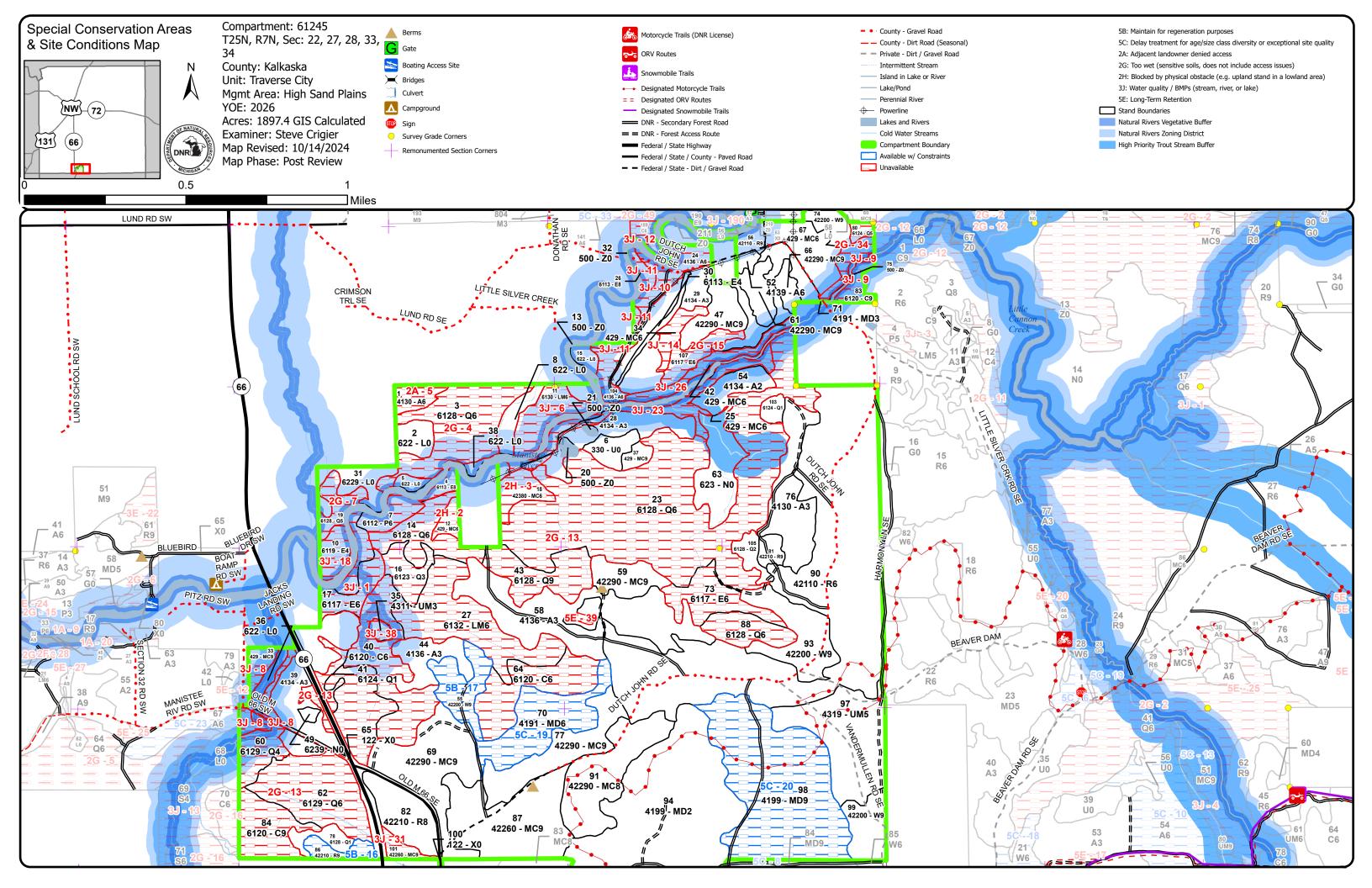












**Steve Crigier: Examiner** 

**Traverse City Mgt. Unit** 



## Age Class

	Age.	KO E	8 /4		P S	3 / 6		3/8				\$ \\ \text{\$\}\$}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	Ø /2/2	\$ \s				St Just	A LONG
Aspen	0	85	30	83	0	2	13	8	0	0	7	0	0	0	0	0	0	0	228
Cedar	0	0	0	0	0	0	0	0	0	0	10	87	0	0	0	0	0	0	97
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	10	0	11	0	0	0	0	3	7	23	118	234	0	0	0	0	0	404
Lowland Deciduous	0	0	0	0	0	0	11	14	34	9	0	0	0	0	0	0	0	0	68
Lowland Mixed Forest	0	0	0	0	0	0	0	15	0	46	0	0	0	0	0	0	0	0	61
Lowland Shrub	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Marsh	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Mixed Upland Deciduous	0	122	0	0	0	0	0	0	34	0	99	0	0	0	0	0	0	0	255
Natural Mixed Pines	0	0	0	0	0	0	38	94	46	29	0	4	0	0	0	0	0	0	211
Red Pine	0	0	0	0	0	0	206	24	11	0	0	0	0	0	0	0	0	0	241
Upland Conifers	0	0	0	0	0	0	0	29	36	18	0	0	0	0	0	0	0	0	83
Upland Mixed Forest	0	2	0	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	49
Urban	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Water	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
White Pine	0	0	0	0	0	0	0	15	27	0	9	18	0	0	0	0	0	0	68
Total	125	219	30	94	0	49	268	199	199	109	148	227	234	0	0	0	0	0	1898



## **Report 2 – Treatment Summary**

Traverse CityMgt. Unit Year of Entry: 2026

## **Acres of Harvest**

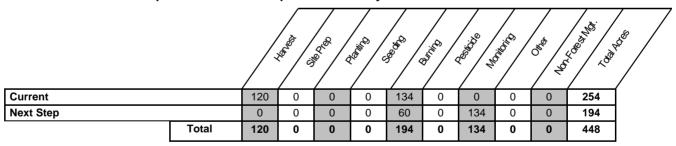
Compartment 245
Total Compartment Acres: 1,897

Commercial Harvest - 120 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

## **Cover Type by Harvest Method**



## **Proposed and Next Step Treatments by Method**



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Treatment Name Acres

Stand CoverType

Size Density Stand Age F

BA Treatment Range Type Treatment Method

Cover Type Objective Age Structure Habitat Cut

#### **Approved Treatments:**

59 61245059-Cut 17.0 42290 - Natural Sawtimber 77 141- Harvest Crown Thinning 42290 - Natural Uneven- No Mixed Pine Well 170 Harvest Crown Thinning Mixed Pine Aged

Prescription Thin stand and reduce BA down to 110-120sqft/ac. Exclude any drainages, leave most of the super canopy pine.

Specs: Look to follow up with a prescribed burn (north island) to set back any deciduous sprouting and to reduce duff layer to encourage mixed pine

germination. Timing should be 3-5 years post harvest.

Next Step Burn, Understory

Treatments:

Acceptable Regen:

Other Long term MO of Natural Mixed pine. North edge of the stand transitions to wetter ground conditions. Part of the southern island has some

Comment: plantation red pine.

Site Condition:

Proposed Start Date: 10/1 /2025

67 61245067-Cut 18.1 429 - Mixed Upland Poletimber 72 171- Harvest Crown Thinning 4220 - Natural Uneven- No Conifers Well 200 White Pine Aged

Prescription Thin stand to a BA of 110-120. Don't harvest any hemlock or cedar. All merchantable balsam fir should be harvested. Try to discourage

<u>Specs:</u> deciduous sprouting. Protect the advanced white pine regen during harvest. Buffer Little Cannon Cr by 175'. Review data from

Conservation Viewer.

Next Step Treatments:

Acceptable Regen:

Other Longterm MO of white pine. Pockets of large mature, nice quality, white pine. Areas of wet ground and drainage on the east side of the comment: Stand. Ground is hummocky. Stand is a real mix of species Aspen, Maple, Birch, white pine, with quite a bit of balsam fir in the understory.

Site Condition:

Proposed Start Date: 10/1 /2025

61245069-Cut 43.1 42290 - Natural Sawtimber 69 111-Harvest Crown Thinning 42290 - Natural Uneven-Nο Mixed Pine Well 140 Mixed Pine Aged

Prescription Lightly thin stand to a basal area of 90-100. Try to discourage sprouting of aspen and red maple.

Specs:

Next Step Burn, Understory

**Treatments:** 

Acceptable red pine, white pine, oak.

Regen:

Other Long term MO of Natural mixed pine. Look into the possibility of a post harvest burn to set back deciduous sprouting and reduce duff layer

Comment: to promote mixed pine seeding in.

Site Condition:

Proposed Start Date: 10/1 /2025

Compartment: 245

Year of Entry: 2026

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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
77	61245077- Burn	29.0	42290 - Natural Mixed Pine	Sawtimbe Well	er 88	81-110	Burn	Understory	42290 - Natural Mixed Pine	Uneven- Aaed	No

<u>Prescription</u> Low- moderate intensity burn to set back red maple and aspen sprouts. Also, reduce duff layer to expose a mineral soil seed bed and to encourage red and white pine regeneration. Avoid fire conditions that could cause mortality in the overstory pine. Ideally 1-2ft flame lengths

and a low Rate of Spread.

Next Step Monitoring, Natural Regen (Re-Inventory)

**Treatments:** 

Acceptable white pine, red pine, jack pine, oak.

Regen:

Other North edge of the stand transitions slightly to wetter ground. Some residences a mile to the east.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

93 61245093-Cut 26.5 42200 - Natural Sawtimber 74 141- Harvest Crown Thinning 4220 - Natural Uneven- No White Pine Well 170 White Pine Aged

<u>Prescription</u> Thin stand to a basal area of 110-120sqft/ac. Consider letting the aspen fall out of the stand. Maintain some oak in the overstory.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other Long term MO of white pine.

Comment: Stand is on transition ground. Southern portion of the stand is below a small bluff. Northwest part of the stand has lower stocking and more

open grown, lower quality, pine. More deciduous mixed into the canopy in the NW.

Site Condition:

Proposed Start Date: 10/1 /2025

61245094-105.2 4199 - Other Mixed Sapling 6 Immatu Burn Other 4199 - Other Even-Aged No **Upland Deciduous** Medium Mixed Upland Burn re Deciduous

Prescription Moderate intensity burn to stimulate stunted oak regeneration. The goal is to increase the amount of oak stems above the deer browse line

Specs: by 30%

Next Step Monitoring, Prescribed Burn

Treatments:

Acceptable oak, aspen, red maple, white pine, red pine.

Regen:

Other Moderate to steep topography. ORV trail runs through the stand.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

Traverse City Mgt. Unit Report 3 -- Treatments Compartment: 245 S Year of Entry: 2026 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Habitat n Method Objective Name CoverType Density Age Range Type Structure Cut Ч 99 61245099-Cut 15.0 42200 - Natural Sawtimber 141-Harvest Crown Thinning 42200 - Natural Uneven-No White Pine White Pine Well 170 Aged Prescription Thin stand, reduce BA to 110-120sqft/ac. Try to discourage maple and aspen sprouting. Protect as much of the advanced white pine Specs: regeneration as possible. Maintain an oak over story component. Next Step Treatments: <u>Acceptable</u> Regen: Other Long-term MO of white pine/oak. Pipeline on east side of Vandermullen Rd Comment:

Total Treatment 253.9 Acreage Proposed:

Proposed Start Date: 10/1 /2025

Site Condition:

Traverse City Mgt. Unit

Steve Crigier: Examiner

Availa	ability for	Managemer	nt								
Total	Acres	Acres Avail	Acres	D	omina	nt Site	e Con	dition	s		
Acres	Available	With Condition	Not Available		5B	5C	2A	2G	2H	3J	5E
227	198	0	30	Aspen			7	0		23	
98	0	0	98	Cedar				87		11	
7	7	0	0	Low-Density Trees							
8	0	0	8	Lowland Aspen/Balsam Poplar						8	
397	9	0	388	Lowland Conifers				388		0	
67	3	0	63	Lowland Deciduous				29		35	
61	0	0	61	Lowland Mixed Forest				46		15	
42	42	0	0	Lowland Shrub							
23	23	0	0	Marsh							
255	122	133	0	Mixed Upland Deciduous		133				0	
212	206	0	5	Natural Mixed Pines				0		4	1
241	235	6	0	Red Pine	6						
83	23	0	60	Upland Conifers				0	14	46	
49	47	0	2	Upland Mixed Forest						2	
18	18	0	0	Urban							
34	34	0	0	Water						0	
69	51	18	0	White Pine	18						
1,891	1,019	157	715	Total Forested Acres	24	133	7	549	14	144	1
	54%	8%	38%	Relative Percent		<u> </u>					<u> </u>

<sup>\*</sup>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	<b>Dominant Site Condition</b>	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1 Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						

# **Report 4 – Site Conditions**

Traverse City Mgt. Unit
Steve Crigier: Examiner

2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	43	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	2A: Adjacent landowner denied access	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments:						

# **Report 4 – Site Conditions**

Traverse City Mgt. Unit
Steve Crigier: Examiner

8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Filer Creek RMZ						
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
(	Comments:						
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
C	Comments:						
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
C	Comments:						
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	486	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Some perennial an	d seasonal drainages within thi	s Iowla	nd complex.			

## Report 4 - Site Conditions

Traverse City Mgt. Unit Steve Crigier: Examiner

Compartment: 245 Year of Entry: 2026

Unspecified Unspecified Unspecified Unspecified 14 Unavailable 3J: Water quality / BMPs 7 (stream, river, or lake) Comments: Unspecified Unspecified Unspecified Unspecified 15 Unavailable 2G: Too wet (sensitive 10 soils, does not include access issues) Comments: 16 **Available** 6 Unspecified Unspecified Unspecified Unspecified 5B: Maintain for regeneration purposes Comments: 17 **Available** 5B: Maintain for 18 Unspecified Unspecified Unspecified Unspecified regeneration purposes Comments: Unspecified 3J: Water quality / BMPs Unspecified Unspecified Unspecified 18 Unavailable 8 (stream, river, or lake) Comments: Unspecified Unspecified Unspecified Unspecified 19 5C: Delay treatment for **Available** 34 age/size class diversity or exceptional site quality **Comments:** 

# **Report 4 – Site Conditions**

Traverse City Mgt. Unit
Steve Crigier: Examiner

20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	99	Unspecified	Unspecified	Unspecified	Unspecified
•	Comments:						
23	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
26	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
•	Comments:						
31	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
38	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
(	Comments:						

# **Report 4 – Site Conditions**

Traverse City Mgt. Unit

Steve Crigier: Examiner

Compartment: 245 Year of Entry: 2026

39	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	omments: /ooded drainage.						

09/27/2024 1:22:30 PM - Page 6 of 6

Mgt. Unit

Compartment: #Type! Year of Entry:

# DNR MCHIGAN

## 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: 245
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.

Conservati Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen condition stocked trout populations and those of other coldwater fish speci conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	es to persist from year to year. Suitable by are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish speci to year. Coldwater streams in Michigan typically provide these co of groundwater to their stream flows. Such streams are establish trout resources by Fisheries Order 210.	es (e.g., slimy sculpin) to persist from year onditions due to substantial contributions
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high docommunities are ecologically and socially significant in their effect as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, liversity of plants and wildlife. Riparian cts on water quality and quantity, as well
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from sp approved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 10	Zoning District is a 400 foot buffer for

## Report 7 - Stands



Stand	Level 4 C	over Type		Size Den	sity	Acres	Stand Age	BA Range	Managed S	ite	General Comments	MICHIGAN .
1	4130	- Aspen		Poletimbe	er Well	6.7	97	Unspecified	N/A			
2	622 - Lov	wland Shrub	1	Nonstoo	ked	7.6			No			
3	6128 - Lowland Dec	Coniferous,	Mixed	Poletimbe	er Well	42.8	115	51-80	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Speci	es Density	Avg. Height	Size		
No	rthern White Cedar	20	Pole	8			alsam Fir	Medium	Variable	Sapling		
	Red Maple	15	Pole/Log	9							1	
	Quaking Aspen	15	Pole/Log	9								
	Balsam Fir	35	Pole		115							
	Black Spruce	10	Pole	7								
	Paper Birch	5	Pole	8								
4	6113 - Lo	wland Maple	e S	awtimber	Medium	n 3.5	87	51-80	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age							
	Paper Birch	10	Pole/Log	9								
	Balsam Fir	5	Pole	8								
	White Pine	5	XLog/Log	18								
No	rthern White Cedar	5	Pole/Log	9	107							
	Red Maple	75	Log/Pole	12	87							
5	622 - Lov	wland Shrub	)	Nonstoo	ked	2.5	0		No			
6	330 - Low-	Density Tree	es	Nonstoo	ked	7.5	0	Unspecified	No		2024 - Old fire scar that is slow to fill back in. White pine and fir sto fill in. Some large scattered pine and hardwoods.	starting
7	6112 - Lo	wland Asper	n	Poletimbe	r Well	8.2	75	51-80	N/A		2014 - Some pockets are heavy to aspen others are more of a re	d maple
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Speci	es Density	Avg. Height	Size	balsam fir mix. There are also some cedar along the river and so interior pockets. Thornapple underneath as well as balsam fir.	me
	Quaking Aspen	50	Pole/Log	9	75	Ва	alsam Fir	Medium	Variable	Sapling		
	Basswood	5	Pole	9							-	
	Red Maple	15	Pole	7								
No	rthern White Cedar	10	Pole	7								
	Balsam Fir	20	Pole	7								
8	622 - Lov	wland Shrub	1	Nonstoo	ked	8.6	0		No			

Report 7 - Stands



tand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments	
10	6119 - Mixed Lowla	ınd Decidud	ous Forest	Poletimb	er Poor	14.8	70	1-50	N/A		flood plain of river. Used to have black ash canopy but it is all on the	
	Canopy Species	% Cover	Size Class	DBF	l Age	Sub-Can	opy Species	Density	Avg. Height	Size	ground now.	
	Red Maple	50	Pole/Log	9	70	Та	g Alder	Full	5 - 10 feet	Tall Shrub		
	Paper Birch	5	Pole	8								
	Quaking Aspen	30	Pole/Log	9								
	Balsam Fir	15	Pole	8								
11	6130 - Fir, <i>i</i>	Aspen, Map	ole	Poletimb	er Well	15.3	67	81-110	N/A		2024 - Looks to be a red maple, aspen and fir mix	
	Canopy Species	% Cover	Size Class	DBF	Age	Sub-Can	opy Species	Density	Avg. Height	Size		
	Quaking Aspen	25	Pole	8	67	Bals	sam Fir	Low	Variable	Sapling		
No	rthern White Cedar	10	Pole	7								
	Paper Birch	10	Pole	8								
	Balsam Fir	30	Pole	7	67							
	Red Maple	15	Pole/Log	9								
	White Pine	10	Log	14								
12	429 - Mixed L	Jpland Con	ifers	Poletimb	er Well	4.3	80	51-80	N/A		2014- Stand is an upland ridge with lots of species diversity. Old red	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	paint is on the boundary of this stand. Some upland cedar is on this knoll. A few super canopy white pine are in the overstory. Heavy balsam	
No	rthern White Cedar	5	Pole	6		Bals	sam Fir	High	Variable	Sapling	fir understory most of the which is well established.	
	White Pine	15	Log/XLog	14							-	
	Hemlock	5	Pole	7								
	Red Pine	5	Log/Pole	10								
	Paper Birch	10	Pole/Log	8								
	Red Maple	25	Pole/Log	9	80							
	Quaking Aspen	5	Pole	8								
	Balsam Fir	30	Pole	8	80							
13	500 -	Water		Nonsto	ocked	23.4	U	Inspecified	No		Manistee River and Big Cannon Cr.	
14	6128 - Lowland ( Deci	Coniferous,	Mixed	Poletimb	er Well	20.7	107	141-170	N/A		2024- Parts of the stand is a little more upland. Some seeps and wooded drainages .2014 - Decent quality of cedar and hemlock which is	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	some pockets of dense cedar and hemiock but the majority of the stan	
	Paper Birch	10	Pole/Log	9		Bals	sam Fir	Low	Variable	Sapling	pling is pretty well mixed. The western portion of the stand is more moderat	
	Balsam Fir	10	Pole	8							stocked.	
		4.0	Pole/Log	9	107							
No	rthern White Cedar	40	r ole/Log	9	107							
No	rthern White Cedar Hemlock	20	Pole/Log		107							



Stand Level 4 (	Cover Type		Size De	ensity	Acres Stand Age	BA Range	Managed :	Site	General Comments
<b>15</b> 622 - Lo	owland Shrub	)	Nonst	ocked	6.3	Immature	No		2024- All ash is dead. Tag alder dominates the stand. 2014 - Stand is in the flood plain of the Manistee River. Mostly black ash with tag alder underneath. Stand is a part of a consumers lease that expired in 2011 (M-117).
<b>16</b> 6123 -	Lowland Fir		Sapling	g Well	10.8 27	Immature	N/A		2024- Look to be an area with heavy blow down that is slowly
Canopy Species	% Cover	Size Class	DRI	l Age	Sub-Canopy Species	s Density	Avg. Height	Size	regenerating. Mostly balsam fir and cattails. 2014- small diameter
Black Spruce	10	Sapling	2	. , .90	Balsam Fir	Medium	Variable	Sapling	trees. poorly stocked. looks like it might be flooded boarder line non- forested.
Balsam Fir	60	Sapling	2	27	Tag Alder	Medium	Variable	Tall Shrub	
Northern White Cedar		Pole	7	98	1 29 1 221	1110 4110111	1 2001010		
17 6117 - Lowland Cor	d Deciduous, niferous	Mixed	Poletimb	er Well	11.0 54	51-80	N/A		2024 - Mostly lowland ground but some upland areas . Mostly an asper fir mix .
Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	s Density	Avg. Height	Size	2014 - North end of the stand is a mostly small diameter ash and balsa fir with some scattered aspen.
Quaking Aspen	35	Pole	8	54	Tag Alder	Trace	Variable	Tall Shrub	iii wiiii some scattered aspen.
Balsam Fir	30	Pole	5	54	Balsam Fir	Medium	Variable	Sapling	
Paper Birch	10	Pole	8					,	•
Northern White Cedar	5	Pole	8						
Canopy Species	ciduous  % Cover			l Age	Sub-Canopy Species		Avg. Height	Size	also hard to tell if it is upland or lowland. There is a creek along the eas boundary of the stand. It also looks like there is are some perrienal drains that feed into the creek. There are Groves of large diameter whit
Hemlock	5	Log/Pole	10		Balsam Fir	High	Variable	Sapling	pine (24").
Red Maple	10	Pole/Log	9						
Paper Birch	5	Pole/Log	9						
Quaking Aspen	15	Pole/Log	9						
Balsam Fir	35	Pole	8	84					
Black Spruce	10	Pole	8						
Red Pine	2	Log/XLog							
White Pine	8	XLog/Log	18						
<b>19</b> 6128 - Lowland De	l Coniferous ciduous	, Mixed P	oletimbe	r Mediui	m 8.6 115		N/A		
Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Canopy Species	s Density	Avg. Height	Size	
Paper Birch	5	Pole	8		Balsam Fir	Medium	Variable	Sapling	
Red Maple	15	Pole/Log	9			I .			
Quaking Aspen	15	Pole/Log	9						
Balsam Fir	35	Pole	7	115					
Black Spruce	10	Pole	7						
Northern White Cedar	20	Pole	8						
<b>20</b> 500	- Water								



DNR MICHIGAN

Stand	Level 4 C	over Type	S	Size De	nsity	Acres	Stand Age B	A Range	Managed	Site	General Comments
21	500	Water		Nonsto	cked	0.6		-	No		2024- Appears man made. Well like hardware at the northend.
23	6128 - Lowland Dec	Coniferous iduous	, Mixed P	oletimb	er Well	181.8	113	51-80	N/A		2024 - Stand has a creek running through it. Gaps from blowdown have filled in with fir and spruce. Stocking is variable. Well stocked cedar
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	along the edge of the creek. A few islands of higher ground. Some solid pockets of cedar and of spruce.
	Paper Birch	5	Pole	8		Ba	ılsam Fir	High	Variable	Sapling	pockers of cedar and of spruce.
	Balsam Fir	25	Pole/Sapling	7							
No	rthern White Cedar	30	Pole	8	113						
	Red Maple	10	Pole/Log	8							
	Quaking Aspen	5	Pole	7							
	White Pine	5	Log	14							
24	4136 - Asper	, Mixed Co	nifer P	oletimb	er Well	12.9	53	81-110	N/A		2014- Nice bigtooth aspen, Healthy stand of timber, some pockets of
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	balsam fir. Stand has more of a conifer component along the river. This stand was a part of a consumers lease parcel (M-114) that expired in
	White Pine	10	Log	14		Ba	llsam Fir	Medium	Variable	Sapling	
	Red Maple	10	Pole	7		W	hite Pine	Low	Variable	Sapling	
	Bigtooth Aspen	55	Pole	8	53						
	Balsam Fir	10	Pole	7							
	Quaking Aspen	15	Pole	8							
25	429 - Mixed l	Jpland Cor	nifers P	oletimb	er Well	16.8	72	81-110	N/A		Stand is on the bank of the Little Cannon Cr and the Manistee. Serves as
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	a riparian buffer. Lots of species diversity.
	Red Oak	5	Log	12		Ba	Isam Fir	Medium	Variable	Sapling	
	Balsam Fir	30	Pole	7	72			'		'	
	White Pine	25	Log/Pole	10	72						
	Red Maple	30	Pole	7							
No	rthern White Cedar	5	Pole	8							
	Quaking Aspen	5	Pole	8							
26	6113 - Lo	wland Mapl	le Sav	vtimber	Medium	n 5.4	85	51-80	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	2014 - Stand is in the flood plain of the Manistee River. Stand is a part of a consumers lease that expired in 2011 (M-117).
	Basswood	5	Log	14			ag Alder	Low	5 - 10 feet	Tall Shrub	
	Balsam Fir	5	Pole	7						1	1
No	rthern White Cedar	15	Pole	8							
	Quaking Aspen	10	Log/Pole	10							
	Red Maple	65	Log/Pole	10	85						

Traverse City Mgt. Unit Report 7 – Stands



Otana	tand Level 4 Co	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
27	6132 - Mixed Lowla	nd Forest v	vith Cedar	Poletimb	er Well	45.6	84	81-110	N/A		2024- stand has a stream at the south end. Also several seeps and
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	wooded drainages. Part of the stand was prepped for harvest in 2016 but was never cut. 2014 -Stand is very diverse. Lot of pocket and vains
	Quaking Aspen	15	Log/Pole	10		Bal	sam Fir	Medium	Variable	Sapling	of cedar but it is prodominately maple, aspen and balsam fir.
	Balsam Fir	20	Pole	8							
No	rthern White Cedar	20	Pole/Log	9							
	White Pine	10	Log/Pole	12							
	Paper Birch	5	Pole/Log	8							
	Red Maple	30	Pole/Log	9	84						
28	4134 - Aspe	en, Spruce/l	Fir	Sapling	g Well	21.2	27 I	mmature	N/A		2024- Scattered log size oak and pine. A good mix of fir and pine mixed
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	in with the aspen. 2014- Regen is about 20 tall and is a couple of inches in diameter. Regen is in pockets/clones.
	Quaking Aspen	55	Sapling	3	27	Bal	sam Fir	Medium	Variable	Sapling	nionos in diamotor regar is in positolo deligo.
	White Pine	15	Sapling	2		Wh	ite Pine	Low	5 - 10 feet	Sapling	
	Red Maple	5	Sapling	2	27						-
	Red Oak	5	Pole/Log	9							
	Balsam Fir	20	Sapling	2	27						
29	4134 - Aspe	en, Spruce/l	Fir	Sapling	g Well	23.5	5 I	mmature	N/A		2024- stand is filling in well. Nice mix of conifers. 2020 - Stand was final
	Canopy Species	% Cover	Size Class	DBH	l Age						harvested in 2019. Cedar and hemlock were left. Also left balsam fir less than 4". 2014 - The stand stocking is variable. Thick balsam fir
	Red Maple	10	Sapling	1	5						understory. Ground appears to be upland although is very hummocky.
No	rthern White Cedar	5	Pole	8							Some of the birch and aspen are starting to die out. Stand include an old
	Quaking Aspen	55	Sapling	1	5						camp site in the southwest corner that was a part of a consumers lease (m-117) that expired in 2011. The stand has more of a white pine
	Balsam Fir	20	Sapling	1	5						component in the northern part, along the Manistee R.
	White Pine	10	Sapling	1	5						•
30	6113 - Lov	vland Maple	Э	Poletimb	er Poor	3.5	63	1-50	N/A		Stand is a narrow perennial drain that stretches from Lund Rd down to
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	the Little Cannon.
	Balsam Fir	20	Pole	5		Та	g Alder	High	Variable	Tall Shrub	
No	rthern White Cedar	10	Pole	8							-
	Paper Birch	10	Pole	7							
	Red Maple	60	Pole	8	63						
31	6229 - Mixed	lowland sh	rub	Nonsto	ocked	11.9	I	mmature	No		2024 - Ash has died off. Tag Alder taking over the flood plain.
32	500 -	Water		Nonsto	ocked	6.8	U	nspecified	No		Manistee River



Stand	· · · · · · · · · · · · · · · · · · ·			Size De	ensity	Acres	Stand Age B	A Range	Managed S	Site	General Comments
33	429 - Mixed L	Jpland Con	ifers \$	Sawtimb	er Well	11.4	62	81-110	N/A		2024 - Nice mixed pine stand along Filer creek. Lots of size classes.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	2014 - Stand has more red pine in the southern portion of the stand. A
	White Pine	45	Log/Pole	12	62	Ba	lsam Fir	Low	Variable	Sapling	even mix of pine, aspen, maple balsam fir.
	Red Pine	10	Log/Pole	10		W	nite Pine	Low	Variable	Sapling	
	Balsam Fir	10	Pole/Sapling	7					II.		
	Quaking Aspen	25	Pole/Log	9	62						
	Red Maple	10	Pole	8							
34	429 - Mixed L	Jpland Con	ifers F	Poletimb	er Well	6.8	62	81-110	N/A		2024- Stand is a mix of upland and lowand, hummocky ground. A
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	wooded drainges present along the east boundary. Stocking decreases the southern portion of the stand.
	White Pine	25	Log/Pole	12		Blac	ck Spruce	Low	Variable	Sapling	the southern portion of the stand.
	Quaking Aspen	10	Pole	8		Ba	lsam Fir	High	Variable	Sapling	
	Balsam Fir	40	Pole	7	62				II.		
	Red Maple	15	Pole	8							
	Black Spruce	8	Pole	7							
	Red Oak	2	Log/Pole	12							
35	4311 - Pin	e, Aspen M	ix	Sapling	g Well	2.3	7	1-50	N/A		2024 - Stand is regenerating well. Log size white pine scattered in
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	overstory. 2017 - Stand had all the aspen, red maple spruce and fir harvested in 2017 with 'Old 66 mix 61-154-16-01. Stand is an island of
	White Pine	25	Log	13	77	Ba	lsam Fir	Medium	Variable	Sapling	
	Balsam Fir	15	Sapling	1	7				li .		
No	rthern White Cedar	5	Pole	9							
	Red Maple	10	Sapling	1	7						
	Quaking Aspen	45	Sapling	1	7						
36	622 - Lov	vland Shrut	)	Nonst	ocked	4.3			No		2024- Tag Alder and wetland grass with creek running through it.
37	429 - Mixed L	Jpland Con	ifers S	Sawtimb	er Well	3.6	81	111-140	N/A		2024 - The stand has a thick pocket of mature pine. Fringes are fir and
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	red maple.2014- Stand is on the transition ground. Is a red maple/white pine mix.
	Paper Birch	5	Pole	6		Ва	lsam Fir	Medium	Variable	Sapling	
	Red Maple	25	Log/Pole	10	81						-
	Black Spruce	5	Pole	5							
	White Pine	50	Log	14	81						
	Balsam Fir	15	Pole	8							
38	622 - Lov	vland Shrub	)	Nonst	ocked	1.2	0		No		



Stand	Level 4 C	over Type	;	Size De	ensity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
39	4134 - Asp	en, Spruce/	/Fir	Sapling	g Well	34.3	8	Immature	N/A		2024 - Stand has regenerated well. White pine is seeding in as well as
	Canopy Species	% Cover	Size Class	DBH	l Age						oak. Some areas of moderate stocking. 2017 - Stand was harvested in 2017. Old 66 Mix 61-154-16-01. Left all fir and spruce less than 4", oak
	Quaking Aspen	48	Sapling	1	8						and marked to leave some white pine. 2014- Several small drains
	White Pine	20	Pole/Sap/Log	6							run through the stand. Far northeast part as well as the very southern tip
	Red Oak	2	Log/Pole	10							of stand become more open/less stocked with some scattered red pine.  Parts of the stand is on on wet ground.
	Red Maple	10	Sapling	1	8						Taile of the stand to on on wet ground.
	Balsam Fir	20	Sapling/Pole	3							
40	6120 - Lo	wland Ceda	ar F	Poletimb	er Wel	l 36.6	108	81-110	N/A		2024 - Dense canopy, Used heavily by various wildlife. 2014 -northern
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	tip is a knoll of balsam and maple. The rest of the stand is decent quality cedar. Stand has a perrenial stream running through it.
	White Pine	5	Log	14		Ва	alsam Fir	Medium	Variable	Sapling	dedar. Otana nao a perremai stream ranning tinoagrin.
	Red Maple	5	Pole	8					1		
	Balsam Fir	10	Pole	7							
	Hemlock	5	Pole/Log	8							
	Quaking Aspen	5	Pole	9							
No	rthern White Cedar	65	Pole/Log	9	108						
	Black Spruce	5	Pole	8							
41	6124 - Lowl	and Spruce	-Fir	Sapling	Poor	6.8	89	1-50	N/A		2024- Very wet ground and sparse timber.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	
No	rthern White Cedar	20	Pole/Sapling	6		Ta	ag Alder	High	Variable	Tall Shru	b
	Balsam Fir	25	Sapling/Pole	4						•	_
	Black Spruce	30	Sapling/Pole	4	89						
	Tamarack	25	Pole/Sapling	6							
42	429 - Mixed	Upland Cor	nifers F	oletimb	er Wel	l 10.6	68	51-80	N/A		Stand has lots of species diveristy but is mostly balsam fir, white pine and
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	red maple in a narrow strip along Cannon. Thick balsam understory. lower ground on the east side of the stand.
	Red Maple	25	Pole	7		Ва	alsam Fir	High	Variable	Sapling	
	Paper Birch	8	Pole	8		·				,	_
	Red Oak	2	Log	14							
	Balsam Fir	40	Pole	6	68						
	White Pine	20	Log/Pole	12	68						
	Quaking Aspen	5	Pole	7							



Stand	and Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed S	Site	General Comments			
43	6128 - Lowland Dec	Coniferous, iduous	, Mixed	Sawtim	ber Well	23.4	98	111-140	N/A		2014- Stand is made up of large white pine (24"+) and red maple that is over top of cedar and hemlock. Also some balsam fir and black spruce.
	Canopy Species	% Cover	Size Class	DB	H Age	Sub-Ca	anopy Specie	s Density	Avg. Height	Size	Stand is on transition ground from the upland to the swamp. Stand has intermittent creek in the eastern part. Eastern part of stand is more
	Red Maple	30	Log	12	!	Ва	alsam Fir	Medium	Variable	Sapling	balsam fir and red maple. W8 overtop of a Q6 with soft maple.
No	rthern White Cedar	15	Pole/Log	9		Bla	ck Spruce	Trace	Variable	Sapling	
	Black Spruce	5	Pole	8							-
	Hemlock	10	Log/Pole	10	)						
	White Pine	35	XLog/Log	18	98						
44	4136 - Asper	n, Mixed Co	nifer	Saplir	ng Well	15.3	8	Immature	N/A		2024- Stand is filling in well. Mostly an aspen and red maple mix but also
	Canopy Species	% Cover	Size Class	DB	H Age						some sizeable pockets of white pine and fir. 2017-Stand was harvested in 2017, Old 66 Mix 61-154-16-01. Pretty much a final harvested except
	Balsam Fir	15	Sapling	2				left the cedar, hemlock, and the small fir and spruce. Also marked some			
	Red Oak	5	Sapling	1	8						super canopy white pine to leave. 2014-Transition ground heading
	Quaking Aspen	40	Sapling	1	8						down to the creek. Stand has a drainage at the south end of the stand. A real mix of species (fir, maple, aspen, white pine and birch).
	White Pine	15	Sapling	1	8						A real filix of species (iii, maple, aspert, write pine and birett).
	Red Maple	25	Sapling	1	8						
47	42290 - Natu	ural Mixed F	Pine	Sawtim	ber Well	14.2	74	81-110	N/A		2024- Some white pine, spruce and fir seeding in. BA'S - 100, 110,
	Canopy Species	% Cover	Size Class	DB	H Age	Sub-Ca	anopy Specie	s Density	Avg. Height	Size	902020 - Pine was thinned through in 2019. Also the aspen and jack pine were removed and the black spruce above 4". 2014 - Nice quality
	Red Maple	5	Pole/Log	9		W	hite Pine	Low	< 5 feet	Sapling	white pine fairly straight and clean. 5-6+ stick trees. Stand has a health
	Red Pine	40	Log/Pole	11		Ва	alsam Fir	Low	< 5 feet	Sapling	component of black spruce in the southern portion of the stand. Norther
	White Pine	55	Log/Pole	13	74	Bla	ck Spruce	Low	Variable	Sapling	portion of the stand is heavier to red pine.
49	6239 - Mixed E	mergent W	etland	Nons	tocked	1.4			No		
52	4139 - Aspen,				ber Well	2.4	48	81-110	N/A		2024- white pine established in the understory. Appears to have two age classes with the aspen being the youngest. 2014-Decent quality
	Canopy Species	% Cover	Size Class	DB	H Age	Sub-Ca	anopy Specie	s Density	Avg. Height	Size	aspen. White pine is older.
	Red Oak	3	Log/Pole			W	hite Pine	Medium	Variable	Sapling	
	Red Maple	35	Pole	8							
	Paper Birch	2	Pole	8							
	Bigtooth Aspen	45	Pole	7	48						
	White Pine	15	Log/Pole	12	74						



Stand	Stand Level 4 Cover Type	, , ,				A Range	Managed S	ite	General Comments		
54	4134 - Aspe	, ,		Sapling I		11.5	4 Ir	mmature	N/A		2024- Stand is slowly filling in mostly to an aspen and fir mix. 2020 - Stand was harvested in 2020. Some cedar, white pine and the smaller fir
	Canopy Species		Size Class		l Age						and spruce were left as well as the oak. 2014 - Stand is mostly red
	Balsam Fir	20	Sapling	1	4						maple, birch and balsam fir. Birch is starting to die out. There are some pockets of red maple logs although they are poor quality trees. Stand
	Black Spruce	5	Sapling	1	4						has some pockets of low ground with cedar and b. spruce. Stocking is
	Quaking Aspen	35	Sapling	1	4						variable. There is a perrenial drain near the west boundary of the stand.
	White Pine	5	Log	14							Some scattered red oak.
	Bigtooth Aspen	10	Sapling	1	4						
	Black Cherry	5	Sapling	1	4						
	Red Oak	2	Log	12							
	Red Maple	15	Sapling	1	4						
No	rthern White Cedar	3	Pole	8							
55	42200 - Natu	ıral White F	Pine	Sawtimb	er Well	17.9	100	51-80	N/A		2024- white pine regeneration is establishing in pockets. Red maple stumps sprouts scattered throughout the stand.2017-Stand was thinned
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	in 2017, Old 66 Mix 61-154-16-01. Residual BA is variable. 2014 -
	Red Oak	5	Log/XLog	16		Wh	nite Pine	Low	Variable	Sapling	Lots of large white pine. Low amounts of white pine in the understory.
	Red Pine	30	Log	14		Re	d Maple	Medium	5 - 10 feet	Sapling	Stocking is variable. Lots of white pine over 24" in diameter. Lots of 8 +
	White Pine	60	Log/XLog	16	100						<sup>⊥</sup> stick trees. Decent quality white and red pine. There is also a narrow vain of hemlock and cedar (lowland) that runs through the northern
	Hemlock	5	Log/Pole	10							portion of the sale. Seeing some mortality in red pine.
56	42110 - Plai	nted Red P	ine	Sawtimb	er Well	4.4	60	111-140	N/A		2024- stand is responding well to the last thinning. White pine is gestablishing in the understory. 2020 - Stand was thinned for a 3rd time
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	in 2020. 2014- Thinned in 2008 for the 2nd time. Nice quality red pine,
	Red Pine	100	Log/Pole	10	60	Wh	nite Pine	Medium	5 - 10 feet	Sapling	6 stick trees. Canopies are grown in tight.
58	4136 - Aspen	, Mixed Co	nifer	Sapling	ı Well	62.0	26 Ir	mmature	N/A		2024 - open areas are filling with cherry, red maple and white pine.
	Canopy Species	% Cover	Size Class	DBH	l Age						2014- Trees are 20-30' tall and are a couple of inches in diameter.
	Bigtooth Aspen	20	Sapling	4	26						Stocking kinda sparse on the far western edge.
	Balsam Fir	10	Sapling	2	26						
	Black Cherry	5	Sapling	2							
	Red Maple	5	Sapling	2							
	Quaking Aspen	50	Sapling	3	26						
	Quaking Aspen White Pine	50 10	Sapling Sapling		26						
59		10	Sapling	3		17.8	77	141-170	N/A		2024- stand has a couple of wooded drainages lined with some cedar and
59	White Pine	10 ural Mixed F	Sapling	3 2 Sawtimb			77 ropy Species	141-170 <b>Density</b>	N/A Avg. Height	Size	hemlock. Evidence of past fire activity. Some large Super canopy white
59	White Pine 42290 - Natu	10 ural Mixed F	Sapling	3 2 Sawtimb	er Well	Sub-Ca				<b>Size</b> Sapling	hemlock. Evidence of past fire activity. Some large Super canopy white pine. South island has a few rows of planted red pine.
59	White Pine 42290 - Natu Canopy Species	10 ural Mixed F	Sapling Pine Size Class	3 2 Sawtimb	er Well	Sub-Ca	nopy Species	Density	Avg. Height		hemlock. Evidence of past fire activity. Some large Super canopy white pine. South island has a few rows of planted red pine.  BAs: 170, 160, 170.  2014 - Natural pine stand that is slightly heavier to white pine. Small
	White Pine  42290 - Natu  Canopy Species  Red Oak	10  ural Mixed F  Cover  5	Sapling Pine Size Class Log	3 2 Sawtimb DBH	er Well	Sub-Ca	nopy Species	Density	Avg. Height		hemlock. Evidence of past fire activity. Some large Super canopy white pine. South island has a few rows of planted red pine.  BAs: 170, 160, 170.  2014 - Natural pine stand that is slightly heavier to white pine. Small amount of aspen and maple present also. Stand appers to have been
	White Pine  42290 - Natu  Canopy Species  Red Oak  Red Pine	10  wral Mixed F  Cover 5 30	Sapling Pine Size Class Log Log	3 2  Sawtimb  DBH  14  12	er Well	Sub-Ca	nopy Species	Density	Avg. Height		hemlock. Evidence of past fire activity. Some large Super canopy white pine. South island has a few rows of planted red pine.  BAs: 170, 160, 170.  2014 - Natural pine stand that is slightly heavier to white pine. Small

Traverse City Mgt. Unit



Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
60	6129 - Mixed Conife	erous Lowla	and Forest	Poletimb	er Poor	12.7	105	1-50	N/A		2024 - Partially flooded area.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Balsam Fir	10	Pole/Sapling	7		Ta	ag Alder	High	Variable	Tall Shruk	
No	rthern White Cedar	30	Pole	7				,		,	-
	Black Spruce	30	Pole	7							
	Tamarack	30	Pole	7	105						
61	42290 - Natu	ıral Mixed F	Pine	Sawtimb	er Well	9.4	74	81-110	N/A		2024- white pine and fir are getting established in the understory. Some
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	black spruce regen in the south.BAs-80, 90, 2020 - Pine was thinned through in 2019. Also the jack pine, aspen, spruce and fir greater than
	White Pine	50	Log/Pole	12	74	W	hite Pine	Low	< 5 feet	Sapling	were harvested. 2014 - Large diameter pine in the north end. Red pine
	Red Maple	5	Pole	8		Ва	lsam Fir	Low	< 5 feet	Sapling	tops in the north are rounded and starting to thin out. Quite a bit of
	Red Pine	45	Log	12	74	Qual	king Aspen	Low	5 - 10 feet	Sapling	advanced white pine regen. South end of the stand is a dense pole timber stand canopies are tight and the BA is a lot higher. Also there is
						Bla	ck Spruce	Low	< 5 feet	Sapling	some black spruce in the south part of the stand.
62	6129 - Mixed Conife	erous Lowla	and Forest	Poletimb	er Well	63.7	105	81-110	N/A		2024 - stocking is variable, seems to be more sparse at the north end.  Stream in the southern part of the stand. Pockets of large diameter ced
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	. Fir and spruce falling out of the stand. Spruce and fir regen where ther
	Paper Birch	5	Pole/Log	8		Ta	ag Alder	Low	Variable	Tall Shruk	has been Pockets of mortality
	Quaking Aspen	5	Pole/Log	9		Ba	ılsam Fir	Trace	Variable	Sapling	
	Balsam Fir	15	Pole	8							
No	rthern White Cedar	45	Pole/Log	8	105						
	Tamarack	5	Pole	8							
	Black Spruce	15	Pole	8							
	White Pine	10	Log/Pole	12							
63	623 - Emer	gent Wetla	nd	Nonsto	cked	21.8	L	Jnspecified	No		
64	6120 - Lov	wland Ceda	ır l	Poletimb	er Well	29.7	106	111-140	N/A		Very dense, well stocked cedar stand. Lots of deer use.
	Canopy Species	% Cover	Size Class	DBH	Age						
	Paper Birch	5	Pole/Log	8							
	White Pine	5	Log/XLog	14							
	Hemlock	5	Pole/Log	9							
No	rthern White Cedar	85	Pole/Log	9	106						
65	122 - Road	d/Parking Lo	ot	Nonsto	cked	17.6	ι	Jnspecified	No		



Stand		Cover Type		Size Density		ity Acres Stand Age BA Range		Managed S	Site	General Comments
66	42290 - Nati	ural Mixed I	Pine	Sawtiml	oer Well	4.9 72	81-110	N/A		2024- Stand is responding well. white pine and fir establishing in the
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Canopy Species	Density	Avg. Height	Size	understory. 2022 - Stand was thinned in 2019. Also all aspen, fir and spruce greater than 4" were removed. 2014 - Heavier to white pine in
	Red Maple	5	Pole	8		Balsam Fir	Low	Variable	Sapling	
	Paper Birch	5	Pole	7		Quaking Aspen	Low	5 - 10 feet	Sapling	quality pine.
	Red Pine	35	Log	12		White Pine	Low	< 5 feet	Sapling	
	White Pine	55	Log	12	72					
67	429 - Mixed I	Upland Cor	ifers	Poletim	oer Well	19.5 72	171-200	N/A		2024 - Pockets of large mature, nice quality, white pine. areas of wet
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Canopy Species	Density	Avg. Height	Size	ground and drainage on the east side of the stand.  BA'S: 170, 190
No	rthern White Cedar	3	Pole	7		Balsam Fir	Medium	Variable	Sapling	
	Red Maple	25	Pole/Log	8	72	White Pine	Medium	Variable	Sapling	Maple, Birch, white pine, with quite a bit of balsam fir in the understory.
	White Pine	45	Log/Pole	11	72			1		
	Quaking Aspen	5	Pole/Log	8						
	Balsam Fir	5	Pole	7						
	Paper Birch	10	Pole	7						
	Red Pine	5	Log/Pole	12						
	Hemlock	2	Pole/Log	9						
69	42290 - Nati	ural Mixed I	Pine	Sawtiml	oer Well	43.1 69	111-140	N/A		2024 - Mixed pine stand with mixed decidous. Pockets of white pine
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Canopy Species	Density	Avg. Height	Size	regen. Oak is reaching maturity. Some remant red and white pine. Old fire scarred stumps. Northend transitions into a red maple and fir mix.
	Quaking Aspen	10	Log/Pole	10		White Pine	Low	Variable	Sapling	BAs: 120, 120, 200, 110.
	White Pine	25	Log/Pole	12		Red Pine	Low	Variable	Sapling	2014 - extra ba 140. Stand is on the verge of being a log stand.
	Balsam Fir	5	Pole	7						Stocking is variable. Some pockets of maple and oak. Lots of age and size class diversity. There is even a trace of some red pine regeneration
	Red Maple	5	Pole	8						in the understory!!
	Red Pine	45	Log/Pole	11	69					
	Red Oak	10	Log/Pole	13						
70	4191 - Mixed Upl Co	and Decidu onifer	ous with	Poletim	oer Well	33.7 78	111-140	N/A		2024- Some log size red maple but mostly pole size. Pockets of low ground and cedar.
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Canopy Species	Density	Avg. Height	Size	BAs - 130, 120, 120 2014- Stand is like a W9 over top of a M6/A6. However there is more
	White Pine	30	Log/XLog	16	115	Red Maple	Medium	Variable	Sapling	maple and aspen then white pine. White pine are very large in the
	Red Maple	40	Pole/Log	8	78	White Pine	Low	Variable	Sapling	overstory. Ground is very hummocky. The aspen is starting to die out.
	Quaking Aspen	10	Log/Pole	10		Balsam Fir	Medium	Variable	Sapling	Stand contains a small Qtype pocket in the eastern central part of the stand (retention). Stand has more of white pine component in the east.
	Paper Birch	10	Pole/Log	9						- stand (retention). Stand has more or writte pine component in the east.
	Red Pine	5	Log/Pole	12						



Stan	Level 4 Cover Type			Size D	ensity	Acres	Stand Age	BA Range	Managed Site		General Comments		
71	4191 - Mixed Upla Co	and Decidu onifer	ous with	Saplin	g Well	17.1	5	1-50	N/A		2024- Stand is regenerated well. Aspen and red maple about 10' tall. Balsam fir and white pine seeding in as well. There are a couple of		
	Canopy Species	% Cover	Size Class	DB	H Age						wooded drainages. 2020 - Stand was shelterwood harvested in 2019. Marked some maple and pine to leave as well as the cedar and hemloc		
	Balsam Fir	15	Sapling	2							Red maple and aspen regen is filling in. 2014 - Ground is hummocky.		
No	orthern White Cedar	5	Pole	8							Stand is a real mix of species Aspen, Maple, Birch, white pine, with quit		
	Black Spruce	5	Sapling	2							a bit of balsam fir in the understory. Paper birch is starting to die out.		
	Quaking Aspen	30	Sapling	1	5								
	White Pine	5	Sapling	1	5								
	Hemlock	5	Pole/Log	9									
	White Pine	5	Log/Pole	12	62								
73	6117 - Lowland Con	Deciduous iferous	, Mixed	Poletim	oer Well	19.0	72	81-110	N/A		2024- Hummocky ground with some upland soils. 2014-Stand has at least 2 intermittent creeks. Some pockets of nice mature red and white		
	Canopy Species	% Cover	Size Class	DB	H Age	Sub-Car	nopy Species	s Density	Avg. Height	Size	pine logs. Aspen is deteriorating. Stand has less TPA in the western 1/2.		
	Black Spruce	5	Pole/Sapling	g 6		Bal	lsam Fir	Medium	Variable	Sapling	1/2.		
No	orthern White Cedar	5	Pole	8									
	White Pine	10	Log/XLog	16									
	Red Maple	55	Pole/Log	8	72								
	Paper Birch	5	Pole	8									
	Quaking Aspen	10	Log/Pole	10									
74	42200 - Natu	ıral White I	Pine	Sawtim	oer Well	9.2	92	81-110	N/A		2024- Regeneration is coming along well. White pine, aspen, and fir		
	Canopy Species	% Cover	Size Class	DB	H Age	Sub-Car	nopy Species	s Density	Avg. Height	Size	coming back in. 2014 - Stand has some larger white pine in the overstory. Ground is hummocky and is upland/lowland. Quite a bit of		
	Red Maple	10	Pole	8		Bal	lsam Fir	Medium	Variable	Sapling	advanced white pine regeneration. thinned winter of 2018/2019 turned		
	Red Pine	10	Log	16		Blac	k Spruce	Low	Variable	Sapling	out good		
	Paper Birch	5	Pole	7		Wh	nite Pine	Low	Variable	Sapling			
	Black Spruce	10	Pole	7		Quak	ing Aspen	Low	5 - 10 feet	Sapling			
	White Pine	65	Log	14	92			1			-		
75	500 -	Water		Nonst	ocked	1.6	l	Unspecified	No				
76	4130	- Aspen		Saplin	g Well	30.2	16	Immature	N/A		2024- white pine continuing to develope in understory. Some areas are		
	Canopy Species	% Cover	Size Class	DB	H Age	Sub-Car	nopy Species	s Density	Avg. Height	Size	taking longer to fill in. 2014- Stand was clear cut in 2008, left the oak.  Trees are about 10' tall. Lots of deer browse along the west line. Sma		
	Red Oak	5	Log	14		Wh	nite Pine	Low	5 - 10 feet	Sapling	amount of balsam fir and white pine are coming up with aspen.		
	Quaking Aspen	85	Sapling	2	16			1			-		
	White Pine	5	Sapling	1									



Stand	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			nsity	Acres Stand Age B	A Range	Managed S	ite	General Comments		
77	42290 - Natural Mixed Pine Sawtimber Wel Canopy Species % Cover Size Class DBH Age		er Well	29.0 88	81-110	N/A		2024 - Aspen and red maple sprouting in the understory, some of it has been browsed down. Some white pine seeding in. 2017 -Thinned stand in 2017, Old 66 mix 61-154-16-01 removed the aspen and jack pine and			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size		
	Red Maple	5	Pole	8		White Pine	Low	Variable	Sapling	thinned through the pine. 2014 - Stand is unevenaged mixed pine	
	Red Oak	5	Log	14		Red Maple	Low	5 - 10 feet	Sapling	stand with small amount of aspen, oak and maple. Lots of size classes. A few large super canopy white and red pine (18" +) trees. Stand has a	
	White Pine	40	Log/Pole	12		Quaking Aspen	Medium	5 - 10 feet	Sapling	higher component of white pine in the west part of the stand. Some of	
	Red Pine	50	Log/Pole	11	88					the red pine are getting topped out. Small pocket of jack pine out by Dutch John.	
78	6128 - Lowland Dec	Coniferous, iduous	Mixed	Sapling	Poor	6.3 105	1-50	N/A		2024- Regen is coming along very slowly and has aways to go before stand has filled in. Cattails established in some areas. 2017-Stand was	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	cut in 2017, Old 66 Mix 61-154-16-01. It was a shelterwood style cut leaving scattered white pine, also left all the cedar. Ground is really soft	
	Balsam Poplar	5	Sapling	1	7	Balsam Fir	Low	Variable	Sapling	on the east edge. Also discovered a creek off the north side of this	
	White Pine	25	Sapling	1	7					stand. 2014-Stand has scattered large white pine as super canopy	
	Balsam Fir	15	Sapling	1	7					trees. Decent size and quality to the red maple. Ground is soft but appears operable. Aspen is on it last leg.	
Noi	rthern White Cedar	25	Pole/Log	9	105					appears operable. Asperris of it last leg.	
	Red Maple	15	Sapling	1	7						
	Canopy Species White Pine Black Spruce	% Cover	Size Class Log Pole/Sapling	12	Age	Sub-Canopy Species Black Spruce Balsam Fir	Density  Medium  Medium	Avg. Height Variable Variable	Size Sapling Sapling		
Noi	rthern White Cedar	40	Pole	7	78	24.04.11.1	1110 0110111	7 4114515	- capg		
	Balsam Fir	30	Pole/Sapling	6							
81	42210 - Nat	tural Red Pi	ne S	Sawtimb	ar Wall	4.5 79	51-80	N/A			
				, a , , , , , , , , , , , , , , , , , ,	CI VVCII	4.5	31-00	IN/A		2024- Trace of white pine seeding in. Some red maple sprouts. 2020 -	
	Canopy Species	% Cover	Size Class		Age	Sub-Canopy Species		Avg. Height	Size	Stand was thinned in 2019. 2014 - Decent quality pine, white pine is	
	White Pine	<b>% Cover</b> 35	Size Class Log/Pole						<b>Size</b> Sapling		
				DBF		Sub-Canopy Species	Density	Avg. Height		Stand was thinned in 2019. 2014 - Decent quality pine, white pine is fairly clean. Good diameter developement, height are ok (6 sticks).	
	White Pine	35	Log/Pole	<b>DB</b> H		Sub-Canopy Species Balsam Fir	<b>Density</b> Trace	Avg. Height Variable	Sapling	Stand was thinned in 2019. 2014 - Decent quality pine, white pine is fairly clean. Good diameter developement, height are ok (6 sticks). Stand doesn't have much for advanced regen. Red pine is getting round	
82	White Pine Red Oak	35 5 60	Log/Pole Log Log	DBH 13 13 12 wtimber	79 Medium	Sub-Canopy Species  Balsam Fir  Red Maple  White Pine	Density Trace Low	Avg. Height Variable 5 - 10 feet	Sapling Sapling	Stand was thinned in 2019. 2014 - Decent quality pine, white pine is fairly clean. Good diameter developement, height are ok (6 sticks). Stand doesn't have much for advanced regen. Red pine is getting round topped and canopies are looking thin.  2024- Aspen is regenerating in pockets. White pine is slowly seeding in	
82	White Pine Red Oak Red Pine	35 5 60 tural Red Pi	Log/Pole Log Log	DBH 13 13 12 wtimber	79	Sub-Canopy Species  Balsam Fir  Red Maple  White Pine	Density Trace Low Trace 51-80	Avg. Height Variable 5 - 10 feet < 5 feet	Sapling Sapling	Stand was thinned in 2019. 2014 - Decent quality pine, white pine is fairly clean. Good diameter developement, height are ok (6 sticks). Stand doesn't have much for advanced regen. Red pine is getting round topped and canopies are looking thin.  2024- Aspen is regenerating in pockets. White pine is slowly seeding in and there is a trace of red pine seedlings. Canopy looks healthy. Red	
82	White Pine Red Oak Red Pine  42210 - Nat	35 5 60 tural Red Pi	Log/Pole Log Log	DBH 13 13 12 wtimber	79 Medium	Sub-Canopy Species Balsam Fir Red Maple White Pine  1 20.1 69	Density Trace Low Trace 51-80	Avg. Height Variable 5 - 10 feet < 5 feet  N/A	Sapling Sapling Sapling	Stand was thinned in 2019. 2014 - Decent quality pine, white pine is fairly clean. Good diameter developement, height are ok (6 sticks). Stand doesn't have much for advanced regen. Red pine is getting round topped and canopies are looking thin.  2024- Aspen is regenerating in pockets. White pine is slowly seeding in and there is a trace of red pine seedlings. Canopy looks healthy. Red pine canopy is made up of several age and size classes. 2017-stand was thinned in 2017, Old 66 Mix 61-154-16. Cut most of the aspen and	
82	White Pine Red Oak Red Pine  42210 - Nat  Canopy Species	35 5 60 tural Red Pi % Cover	Log/Pole Log Log ne Sa	DBH 13 13 12 wtimber	79 Medium	Sub-Canopy Species  Balsam Fir  Red Maple  White Pine  1 20.1 69  Sub-Canopy Species	Trace Low Trace 51-80 Density	Avg. Height Variable 5 - 10 feet < 5 feet  N/A  Avg. Height	Sapling Sapling Sapling Sapling	Stand was thinned in 2019. 2014 - Decent quality pine, white pine is fairly clean. Good diameter developement, height are ok (6 sticks). Stand doesn't have much for advanced regen. Red pine is getting round topped and canopies are looking thin.  2024- Aspen is regenerating in pockets. White pine is slowly seeding in and there is a trace of red pine seedlings. Canopy looks healthy. Red pine canopy is made up of several age and size classes. 2017-stand was thinned in 2017, Old 66 Mix 61-154-16. Cut most of the aspen and jack pine out and thinned through the pine and oak. 2014-stand of	
82	White Pine Red Oak Red Pine  42210 - Nat  Canopy Species Red Pine	35 5 60 tural Red Pi % Cover 60	Log/Pole Log Log ne Sa Size Class Log/Pole	DBH 12	79 Medium	Sub-Canopy Species  Balsam Fir  Red Maple  White Pine  1 20.1 69  Sub-Canopy Species  White Pine	Density Trace Low Trace 51-80 Density Low	Avg. Height Variable 5 - 10 feet < 5 feet  N/A  Avg. Height < 5 feet	Sapling Sapling Sapling Sapling Sapling	Stand was thinned in 2019. 2014 - Decent quality pine, white pine is fairly clean. Good diameter developement, height are ok (6 sticks). Stand doesn't have much for advanced regen. Red pine is getting round topped and canopies are looking thin.  2024- Aspen is regenerating in pockets. White pine is slowly seeding in and there is a trace of red pine seedlings. Canopy looks healthy. Red pine canopy is made up of several age and size classes. 2017-stand was thinned in 2017, Old 66 Mix 61-154-16. Cut most of the aspen and jack pine out and thinned through the pine and oak. 2014-stand of mature red pine some of which are starting to top out. Stand has a	
82	White Pine Red Oak Red Pine  42210 - Nat  Canopy Species Red Pine Red Maple	35   5   60   tural Red Pi   % Cover   60   5	Log/Pole Log Log ne Sa Size Class Log/Pole Pole	DBH 13 12 wtimber 12 8	79 Medium	Sub-Canopy Species  Balsam Fir  Red Maple  White Pine  1 20.1 69  Sub-Canopy Species  White Pine  Red Pine	Density Trace Low Trace  51-80 Density Low Trace	Avg. Height Variable 5 - 10 feet < 5 feet  N/A  Avg. Height < 5 feet < 5 feet	Sapling Sapling Sapling Size Sapling Sapling	Stand was thinned in 2019. 2014 - Decent quality pine, white pine is fairly clean. Good diameter developement, height are ok (6 sticks). Stand doesn't have much for advanced regen. Red pine is getting round topped and canopies are looking thin.  2024- Aspen is regenerating in pockets. White pine is slowly seeding in and there is a trace of red pine seedlings. Canopy looks healthy. Red pine canopy is made up of several age and size classes. 2017-stand was thinned in 2017, Old 66 Mix 61-154-16. Cut most of the aspen and jack pine out and thinned through the pine and oak. 2014-stand of	

Report 7 - Stands

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Stand	Level 4 Co	over Type	;	Size De	ensity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
83	6120 - Lov	wland Ceda	ar S	Sawtimb	er Well	10.4	95	111-140	N/A		Some super canopy white pine scattered throughout. Some balsam fir regeneration on the edges of the stand.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	regeneration on the edges of the stand.
No	rthern White Cedar	70	Log/Pole	10	95	Ba	alsam Fir	Low	Variable	Sapling	9
	White Pine	15	XLog/Log	18							
	Hemlock	5	Pole	8							
	Red Pine	5	Log	14							
	Red Maple	5	Log	12							
84	6120 - Lov	wland Ceda	ar S	Sawtimb	er Well	21.1	105	111-140	N/A		2024 - Well stocked cedar stand. Has a spring that feed a creek, goes underground at times. Very dense canopy.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	underground at times. Very dense canopy.
No	rthern White Cedar	80	Log/Pole	10	105	Ba	alsam Fir	Trace	Variable	Sapling	
	White Pine	5	Log/Pole	12							
	Balsam Fir	10	Pole	7							
	Black Spruce	5	Pole	8	105						
86	42210 - Natural Red Pine				er Well	l 6.4 79 81-110	81-110	N/A		2024- Good response to the thinning with mostly white pine seeding in.	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Some remant pine in the overstory. 2017-Stand was thinned in 2017, Old 66 Mix 61-154-16-01. 2014 -An uneven aged mixed natural pine
	Red Maple	5	Pole	8		W	hite Pine	Low	< 5 feet	Sapling	stand. Stand is made up of some limby/poor quality white pine in the
	White Pine	30	Log	14		Ba	alsam Fir	Trace	< 5 feet	Sapling	eastern tip that transitions to a higher quality stand towards the west
	Red Pine	60	Log/Pole	12	79	R	ed Pine	Trace	< 5 feet	Sapling	made up of more clean red and white pine (6+ stick trees). Large diameter red and white pine mixed in amongst the stand as super canopy
	Red Oak	5	Log	12				,			trees some of which are starting to get thin tops.
87	7 42260 - Natural Pine, Mixed Deciduous				er Well	51.0 68		81-110	N/A		2024- Pockets of pole sized pine and advanced regen. stand has lots
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	size classes of pine. A lot of open grown pine and its fairly limby, moderate quality. BAs: 110, 120, 90, 110, 130.2014- Stand has
	White Pine	35	Log/Pole	10	68	W	hite Pine	Medium	Variable	Sapling	mature pine in the overstory with younger aspen and softmaple mixed in
	Bigtooth Aspen	20	Pole	7	47						(2-aged stand). Aspen and maple appear to be around 30 years old.
	Red Pine	30	Log/Pole	11	68						Pockets of A5/R5/W5.
	Red Oak	5	Log	13							
	Red Maple	10	Pole/Sapling	6	47						
88	6128 - Lowland (	Coniferous iduous	, Mixed F	oletimb	er Well	14.1	100	81-110	N/A		2014- Stand has a small creek running through the northern portion. Stand has less stocking in the eastern portion.
	Canopy Species	% Cover	Size Class	DBH	l Age						
	Balsam Fir	20	Pole	7							
	Black Spruce	5	Pole	7							
No	rthern White Cedar	45	Pole	8	100						
	Red Maple	10	Pole	7							
	White Pine	5	Log/Pole	12							
	Quaking Aspen	5	Pole	8							
	Paper Birch	5	Pole	7							
	Hemlock	5	Pole/Log	9							

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Compartment: 245
Year of Entry: 2026

											Year of Entry: 2026
Stand	d Level 4 C	Level 4 Cover Type		Size Density		Acres	Stand Age E	BA Range	Range Managed Si		General Comments
90	42110 - Pla	anted Red P	ine I	Poletimber Well		206.0	57	141-170	N/A		2024- Pine is still fairly short with small diameters. Some gaps in the
	Canopy Species	% Cover	Size Class	DBH	l Age						plantation and they are occupied by a mix of aspen, oak and mixed pine. Some remant red and white pine. BA: 160, 150, 120, 200, 150, 150,
	Quaking Aspen	4	Pole	8							180, 140, 140, 170, 160, 140, 150, 160. avg=144. 2014-Stand was row
	Red Pine	88	Pole/Log	8	57						thinned in 2009. Tops have room to grow.
	White Pine	4	Log/Pole	12							
	Red Oak	2	Log/Pole	12							
	Red Maple	2	Pole	8							
91	42290 - Nat	ural Mixed F	Pine Sa	Sawtimber Me		n 37.7	58	1-50	N/A		2024- overstory stocking is patchy. White pine is seeding in well. Patches
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	of aspen and red maple in the canopy gaps.  2014 - Stand had all the decidious tree removed in 2009, left all pine.
	Red Pine	55	Log/Pole	10	58	WI	nite Pine	Medium	Variable	Sapling	Mixed red and white pine pole timber with an understory of aspen, oak,
	White Pine	45	Pole/Log	9	58	R	ed Oak	Trace	10 - 20 feet	Sapling	maple.
						R	ed Pine	Trace	10 - 20 feet	Sapling	
						Bigto	oth Aspen	Low	10 - 20 feet	Sapling	
						Re	ed Maple	Medium	5 - 10 feet	Sapling	
93	42200 - Nat	ural White F	White Pine Sawtimber Well				74	141-170	N/A		2024- Stand is on transition ground. Evidence of fire origination.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Southern portion of the stand is below a small bluff. Northwest part of the stand has lower stocking and more open grown, lower quality, pine. More
	Red Maple	5	Pole	8		WI	nite Pine	Trace	Variable	Sapling	decidous mixed into the canopy in the NW.
	Red Pine	15	Log/Pole	12		Ва	lsam Fir	Low	Variable	Sapling	BAs: 170, 120, 140, 130, 170.
	White Pine	65	Log/Pole	12	74						-
	Balsam Fir	5	Pole	7							
	Quaking Aspen	5	Pole	8							
	Red Oak	5	Log/Pole	12							
94	4199 - Other Mixe	ed Upland D	eciduous S	Sapling Medium		105.2	105.2 6 Immate		N/A		2024 - Stand is starting to fill in. A decent amount of browse on the maple
	Canopy Species	% Cover	Size Class	ss DBH Age		Sub-Ca	Sub-Canopy Species		Avg. Height	Size	and oak. East end has a good amount of aspen regen. Pockets of 4-6" white pine. 2019- Stand was harvested in the fall of 2018 (245 Hill
	Red Maple	35	Sapling	1	6	Wit	ch Hazel	Low	5 - 10 feet	Tall Shrul	
	Bigtooth Aspen	30	Sapling	1	6			'		,	shelter. Stand was chip harvested and is now a pretty clean site.
											Regeneration is coming along slowly but I think given more time come

Red Oak

White Pine

20

15

Sapling

Sapling

Regeneration is coming along slowly but I think given more time come

back. 2014 -Stand was harvested (shelterwood) 16 years ago cutting

everything but the oak. Stand is now 2 aged with young aspen in the understory. extra ba 150. Quite a bit of red maple in the understory. Some white pine in the slopes and in the vallies. Some hilly terrain sloping to the west and to the north. A mix of pole and log sized trees. Poorer quality oak, rough and a lot of low forks (2-3 logs). Some individual tree die back. A vain of A3 in the eastern part of the stand.

Northern portion of the stand has better stocking 100+ BA.

Report 7 - Stands

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Stan	d Level 4 C	over Type	8	Size Density		Acres	Stand Age B	Stand Age BA Range		Site	General Comments	
97	4319 - Mixed	d Upland Fo	orest Pol	etimber	Medium	46.6	47	1-50	N/A		2024- North part of the stand resembles an Oak /pine Barrens. White	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	pine is filling the canopy gaps and understory. South part has filled in with Aspen, jack pine and white pine. stand has several age and size	
	Red Maple	15	Pole	7	47	Ja	ack Pine	Low	Variable	Sapling	classes. 2014- Stand looks like it originated from a pretty intense burn	
	Red Oak	20	Log	14	93	WI	hite Pine	Medium	Variable	Sapling	and is filling back in. Stand is mostly scattered oak logs, white pine and	
	Bigtooth Aspen	20	Pole	8	47	Re	ed Maple	Low	Variable	Sapling	red maple. There are some clones of bigtooth aspen and pockets of Jack pine (J6). Lots of old stumps with fire scars.	
	White Pine	25	Log/Pole/Sap	10	47						pine (00). Lote of old stamps with the souls.	
	Jack Pine	15	Pole	6								
	Red Pine	5	Pole	8								
98	4199 - Other Mixed Upland Deciduou			awtimb	er Well	99.1	97	81-110	N/A		2024- white pine developing in the understory. Moderate terrain. Oak is of moderate quality and is probably a red/ black hybrid. Couldn't verify	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	age of the oak (broke increment bore). Some younger oak stems, 2 or	
	Red Oak	45	Log	14	97	WI	hite Pine	Medium	Variable	Sapling	more ages classes.	
	Red Pine	5	Log/Pole	11							BA: 100, 100, 70	
	Red Maple	15	Pole	8							2014- Stand has a large oak component. It looks like all the oak was left stand when the aspen was cut 40 years ago hence there is O8 and O7	
	Beech	5	Pole	7							pockets as well as oak lightly scattered in the overstory. Aspen is of	
	Bigtooth Aspen	25	Pole	8	48						pretty good quality.	
	White Pine	5	Log/Pole	10								
99	42200 - Nat	ural White F	Pine S	Sawtimber Well		15.0 63 1		141-170	N/A		2024- Well stocked stand. Evidence of fire history.	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	BAs - 150, 170, 140, 160 2014- Moderate quality white pine. Northern portion was better stocked	
	Red Oak	10	Log	14		WI	hite Pine	Low	Variable	Sapling	than the southern. Trees are mostly 4-5 sticks tall. Some scattered oak	
	Quaking Aspen	5	Pole	7							throughout.	
	White Pine	80	Log/Pole	10	63							
	Red Maple	5	Pole	7								
100	122 - Roa	d/Parking L	ot	Nonsto	cked	0.2	Ur	nspecified	No			
101				awtimb		4.4		81-110	N/A		2024 - stand of mature red and white pine. Stand has creek running through it. Large white pine and cedar along the drain.	
	Canopy Species		Size Class		Age		nopy Species	Density	Avg. Height	Size		
	Bigtooth Aspen	10	Log/Pole	10	100		hite Pine	Low	Variable	Sapling		
	Red Pine	30	Log/Pole	13	106	Ва	ılsam Fir	Low	Variable	Sapling		
	White Pine	35	Log	14	106							
	Red Maple	20	Pole/Log	9	105							
	Red Oak	5	Log	14	106							

Report 7 – Stands

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Stand	Level 4 Co	over Type		Size De	ensity	Acres	Stand Age B	A Range	Managed S	ite	General Comments		
103	6124 - Lowla	and Spruce	Fir	Sapling	Poor	3.5	4	Immature	N/A		2024- Stand was a part of the adjacent lowland stand. Stand is slowly		
Ca	anopy Species	% Cover	Size Class	DBI	I Age						filling in. Most of the conifers are 1ft tall. 2022 - Stand was harvested in 2020. left all the cedar and hemlock as well as a few scattered white		
\	White Pine	10	Sapling	1	4						pine. Stand was difficult to harvest and had some rutting issues.		
\	White Pine	2	Log	14									
F	Red Maple	20	Sapling	1	4								
	Tamarack	10	Sapling	1	4								
E	Balsam Fir	30	Sapling	1	4								
	Hemlock	3	Pole	8									
Northe	ern White Cedar	5	Pole	8	109								
BI	lack Spruce	20	Sapling	1	4								
104	4136 - Aspen	, Mixed Coi	Mixed Conifer		Poletimber Well		7.5 60	81-110	N/A		2024- Some large mature pine and hemlock. 2014 - The stand stocking is variable. Thick balsam fir understory. Ground appears to be		
Ca	anopy Species	% Cover	Size Class	DBI	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	upland although is very hummocky. Some of the birch and aspen are		
V	White Pine	15	Log/Pole	13		Ва	lsam Fir	High	Variable	Sapling	starting to die out. Stand include an old camp site in the southwest		
Northe	ern White Cedar	3	Pole	8							corner that was a part of a consumers lease (m-117) that expired in 2011. The stand has more of a white pine component in the northern		
P	Paper Birch	3	Pole	7							part, along the Manistee R.		
F	Red Maple	15	Pole	8							, a,		
	Hemlock	2	Log/Pole	12									
Qu	aking Aspen	45	Pole	8	60								
E	Balsam Fir	15	Pole	6									
	Red Oak	2	Log	13									
105	6128 - Lowland (	Coniferous, duous	Mixed S	Sapling Medium		5.7	5	Immature	N/A		2024 - Red maple has sprouted up quickly. Conifers are seeding in but		
Ca	anopy Species	% Cover	Size Class	DBI	I Age						are only are 1-2 ft tall. Scattered mature pine and cedar. Red maple sprouts are being browsed. 2020 - Stand was harvested in 2020.		
Е	Balsam Fir	25	Sapling	1	5						Cedar, hemlock and some scattered white pine were left. 2014 - Some		
ВІ	lack Spruce	10	Sapling	1	5						decent quality balsam fir and pockets of black spruce. Stand has more of		
	Red Pine	5	Log	13							a cedar component in the northern part of the stand. Deer are using the stand a lot. Stock becomes less dense to the west along the flooding.		
	Tamarack	5	Sapling	1	5						Stand also has a intermittent Cr. running through the middle of it. There		
\	White Pine	5	Pole/Sap/Log	g 8							are also parts of the stand along the east line that have a higher		
Northe	ern White Cedar	10	Pole/Log	8							deciduous component.		
	6117 Lowland	Deciduous,	Mixed I	Mixed Poletimber Well			60	51-80	N/A		2014 - The stand stocking is variable. Thick balsam fir understory.  Ground appears to be upland although is very hummocky. Some of the		
107		ferous									- birch and conon are starting to dis out. The stand has more of a white		
			Size Class	DBI	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	birch and aspen are starting to die out. The stand has more of a white		
Ca	Coni		Size Class Pole	<b>DBI</b>	I Age		nopy Species Isam Fir	<b>Density</b> High	Avg. Height Variable	<b>Size</b> Sapling	birch and aspen are starting to die out. The stand has more of a white pine component in the northern part and along the Manistee R. Mix of upland and lowland. Several drainages.		
<b>C</b> a	Coni anopy Species	% Cover			Age 60						birch and aspen are starting to die out. The stand has more of a white pine component in the northern part and along the Manistee R. Mix of		
<b>C</b> a F Qu	Coni anopy Species Red Maple	<b>% Cover</b> 20	Pole	7							birch and aspen are starting to die out. The stand has more of a white pine component in the northern part and along the Manistee R. Mix of		