

Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61244
Entry Year 2023
Acreage: 2,387
County Kalkaska

Management Area: Manistee River Valley

Revision Date: 2021-05-31

Stand Examiner: Patrick Cotant

Legal Description:

Sections 25, 26, 35 and 36, T25N-R7W, Kalkaska County

Identified Planning Goals:

Visual management is important along Little Cannon Creek and Silver Creek corridor, as is erosion control. Maintain or improve aesthetics. In addition, aesthetics should be taken into account when making management decisions along the travel corridors throughout the compartment including Dutch John Rd, Silver Creek Rd and Beaver Dam Rd.

Soil and topography:

The dominant soil types within the compartment are Rubicon Sand and Lupton Muck. Rubicon is limited to the more upland areas while Mucks are present along creek/stream corridors and in both forested and non-forested lowland stands.

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

State land lays to the north and east and private land lays to the south and west. Changes (additions and deletions) have been made to the Miss.-Kal. ORV Trail in this compartment. (See map.) Main uses are timber and recreation. Small private holdings that have small camps on them are within compartment.

Unique Natural Features:

This compartment falls within landtype association (LTA) 5131 of sub-subsection VII.2.2. This LTA, a broad flat outwash plain with poorly drained sand or sandy loam, is one of the least homogeneous LTAs mapped within Subsection VII.2.2. The lack of homogeneity results from a complicated topography and an intricate mosaic of excessively drained sand, poorly drained sand, and very poorly drained organic soils. In general, topography is level. However, the land surface is often undulating to hummocky and, in these areas, alternates from poorly drained and very poorly drained to well and excessively well drained sands over relatively short distances. The most common soil of the LTA is Saugatuck sand, which is poorly drained. However, soils are extremely variable and inclusions within the LTA range from deep, excessively drained, acidic sands to very poorly drained organic mucks and peats, e.g. Rubicon sand, Lupton muck and Rifle peat, respectively. The variety of precolonial types which occur reflect the LTAs complexity. Forests of hemlock, usually mixed white pine or American beech, were common on poorly drained sands whereas mixed conifer swamps dominated very poorly drained organic soils. Finally, well drained inclusions supported northern hardwood forests of American beech and sugar maple while forests of mixed red and white pine occurred on excessively drained, fire-prone areas within the LTA. The LTA has become guite fragmented and 23% of its surface area now supports cover types with less than 5% individual cover. Hemlock dominated forests have been virtually eliminated whereas aspen/white birch forests, rare in precolonial times, have become the predominant cover type (35%). Conifer dominated wetlands, which covered more that one quarter of the LTA in precolonial times, have been reduced to about 8% cover, while formerly absent hardwood and shrub/scrub swamps now collectively cover 24% of the area. The remaining northern hardwood forests, which now occur on only about 5% of the LTA, are second growth, often fragmented, woodlots that lack the original white pine or hemlock component. Finally, another 6% of the LTA is in old fields.

Archeological, Historical, and Cultural Features:

No features identified in the Archaeological and MNFI concerns within the Citrix database.

Special Management Designations or Considerations:

MNFI lists the Yellow Banded Bumble Bee as a species of concern. Occurrence/observation was from 1974, no notes or follow-up in database. Unclear if this affects any type of management within the compartment.

Watershed and Fisheries Considerations:

Silver and Little Cannon Creeks are both small, self-sustaining brook trout streams that are vulnerable to excessive beaver damming. Therefore, Fisheries Division recommends large enough vegetative buffers for any proposed aspen clearcuts to discourage beaver activity along these streams.

Wildlife Habitat Considerations:

This compartment falls partially on a poorly drained outwash plain (landtype association 5131), typically driven by blowdowns and some flooding and fire. The terrain is mostly low and flat with some low pine ridges. Historical cover types included mesic conifer forests of hemlock and white pine and conifer swamps in the lowlands. Mixed conifer swamps in this compartment serve as important deer wintering cover as well as habitat for species such as winter wren, brown snake, Swainson's thrush, bobcat, pileated woodpecker, barred owl, and snowshoe hare. Some understory regeneration of conifers is desirable but made difficult by repeated browsing. Prolific balsam fir may serve as a surrogate to some degree for once abundant hemlock. Provision of some browse/early successional habitat by regenerating suitable upland stands, while maintaining existing mature cover in lowlands, will help in the short run. However, long-term management of this landscape should emphasize mature mixed conifers as much as possible. Future natural blowdowns may add to the diversity of this landscape and should be left unsalvaged if they occur. Prescribed final harvests should incorporate retention of snags, down logs, saplings, and some sturdy, mature leave trees to mimic natural blowdown patches as much as possible. Mature floodplain forest should be maintained as riparian habitat for otter, wood turtle, bald eagle, and great blue heron.

The rest of the compartment is on an excessively well drained outwash plain (LTA 5111), supporting fire-dependent communities of jack pine, mixed pine forest, pine plantations, and barrens. Currently red pine is a dominant cover type along with aspen stands of various age classes. Management for mature and regenerating pine forests, along with some wildlife opening maintenance, will benefit species such as Nashville warbler, badger, garter snake, coyote, field sparrow, golden-crowned kinglet, red squirrel, and red-tailed hawk. Some wildlife opening maintenance should continue.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits are located three miles to the east and south. There appears to be some potential for sand & gravel within the compartment on the uplands. There was past natural gas production from the Traverse Group within the compartment, but those wells were plugged more than 60 years ago. There has been no well permitting or leasing of State-owned mineral rights in the compartment over the past five years. State-owned mineral rights about one mile south are currently nominated for the next oil & gas lease auction. There was past exploration and testing of the Collingwood Formation in this area, but the Collingwood Formation overall has not been proven to be a viable economic play in Michigan to date, and additional future development in the Collingwood is unlikely at current gas prices. It is possible there could be additional potential for production from other known producing formations beneath the compartment in the future. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Access to compartment is good via county maintained roads and seasonal forest roads. Access to interior of compartment is limited however during winter months as no county maintained roads traverse compartment. No bridge needs at this time. Road closures should be done where appropriate following all management operations.

Survey Needs:

No survey needs at this time.

Recreational Facilities and Opportunities:

The Miss-Kal Snowmobile trails runs through the southern portions of sections 35 and 36. The North Missaukee ORV trail traverses sections 25, 35 and 36.

Fire Protection:

Fire protection for this area is carried out by the Fire Management division, specifically the Traverse City FMU, Kalkaska Field Office.

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

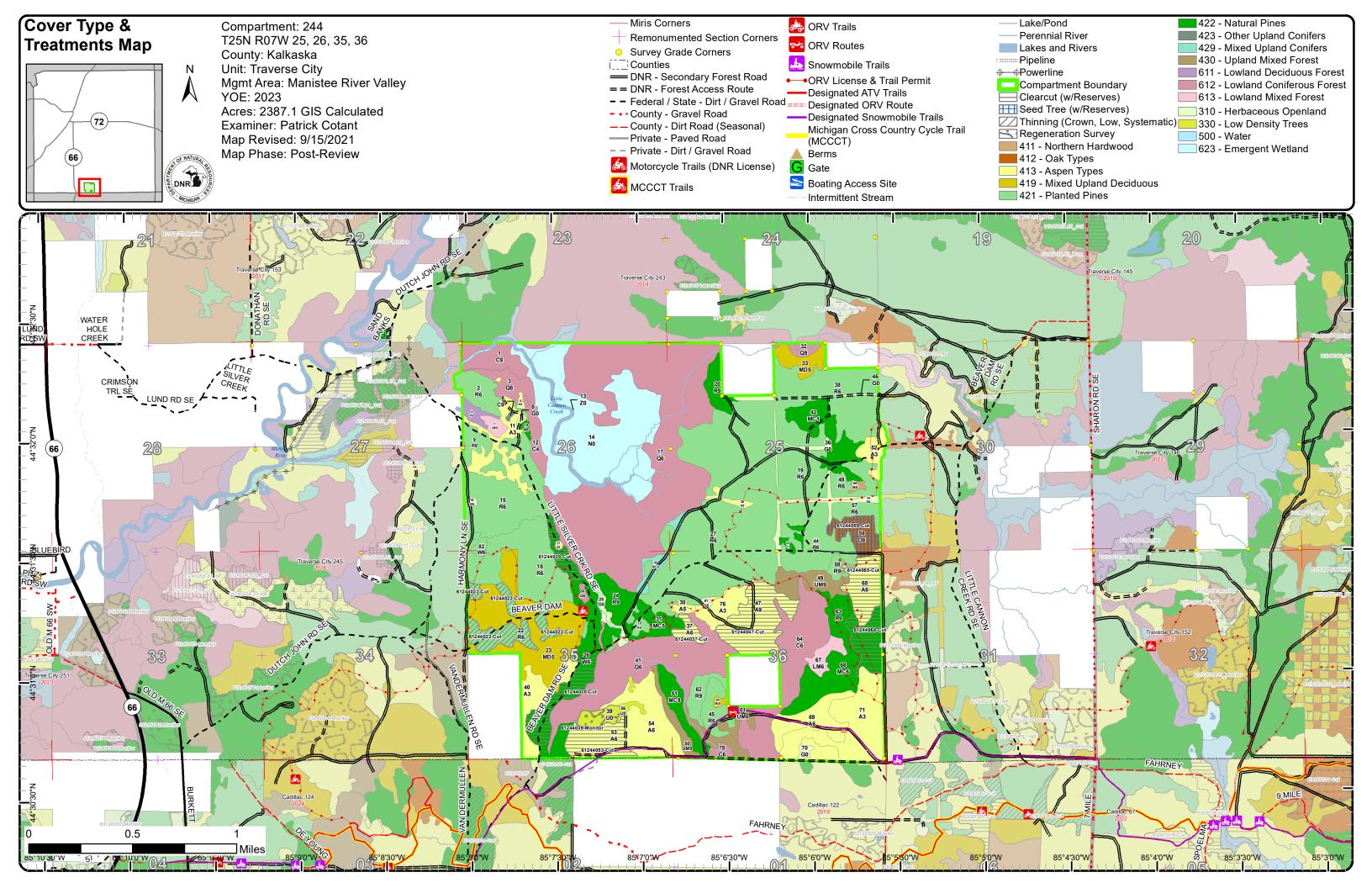
The following information is displayed, where pertinent, on the attached compartment maps:

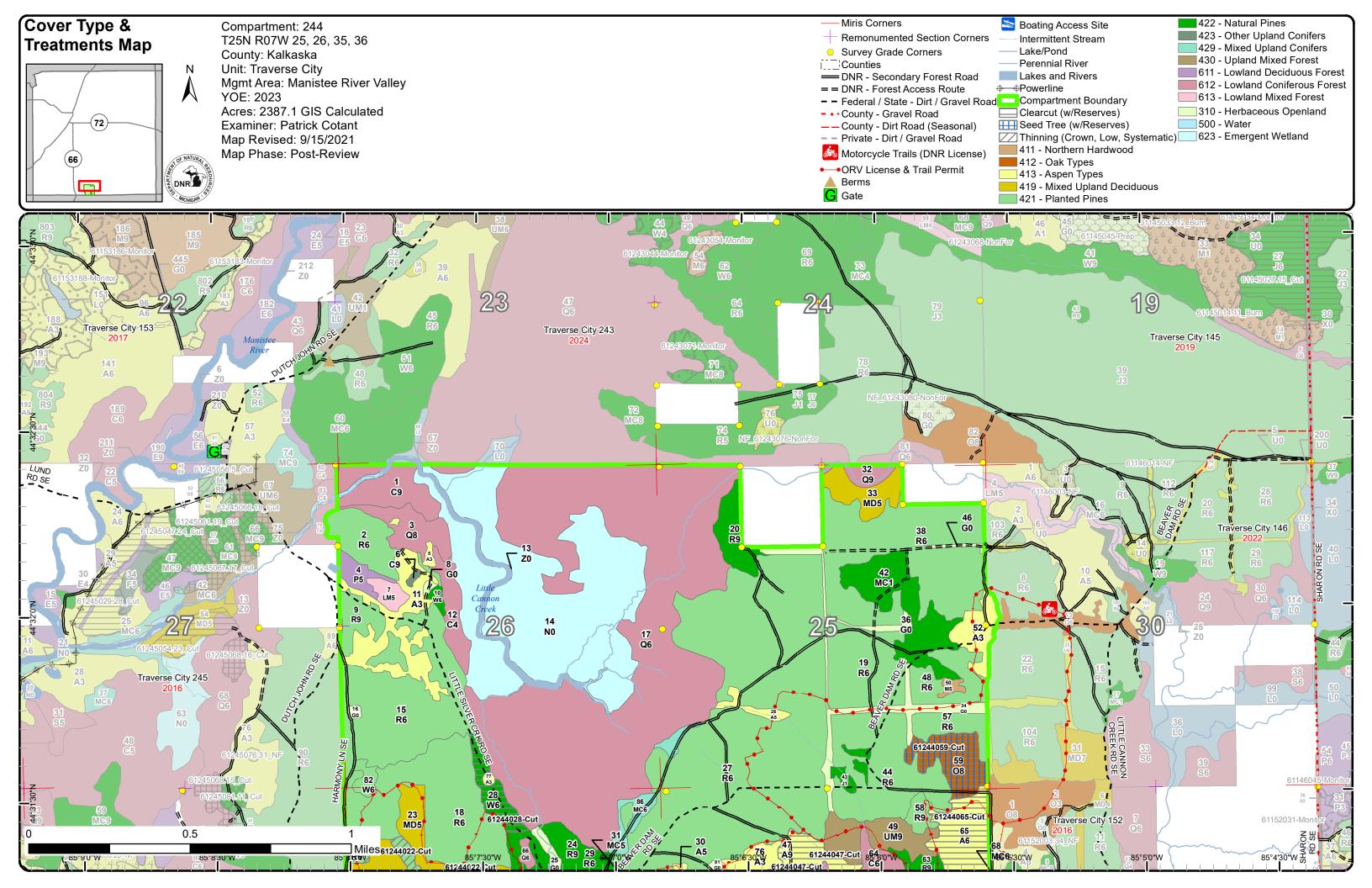
Base feature information, stand boundaries, cover types, and numbers

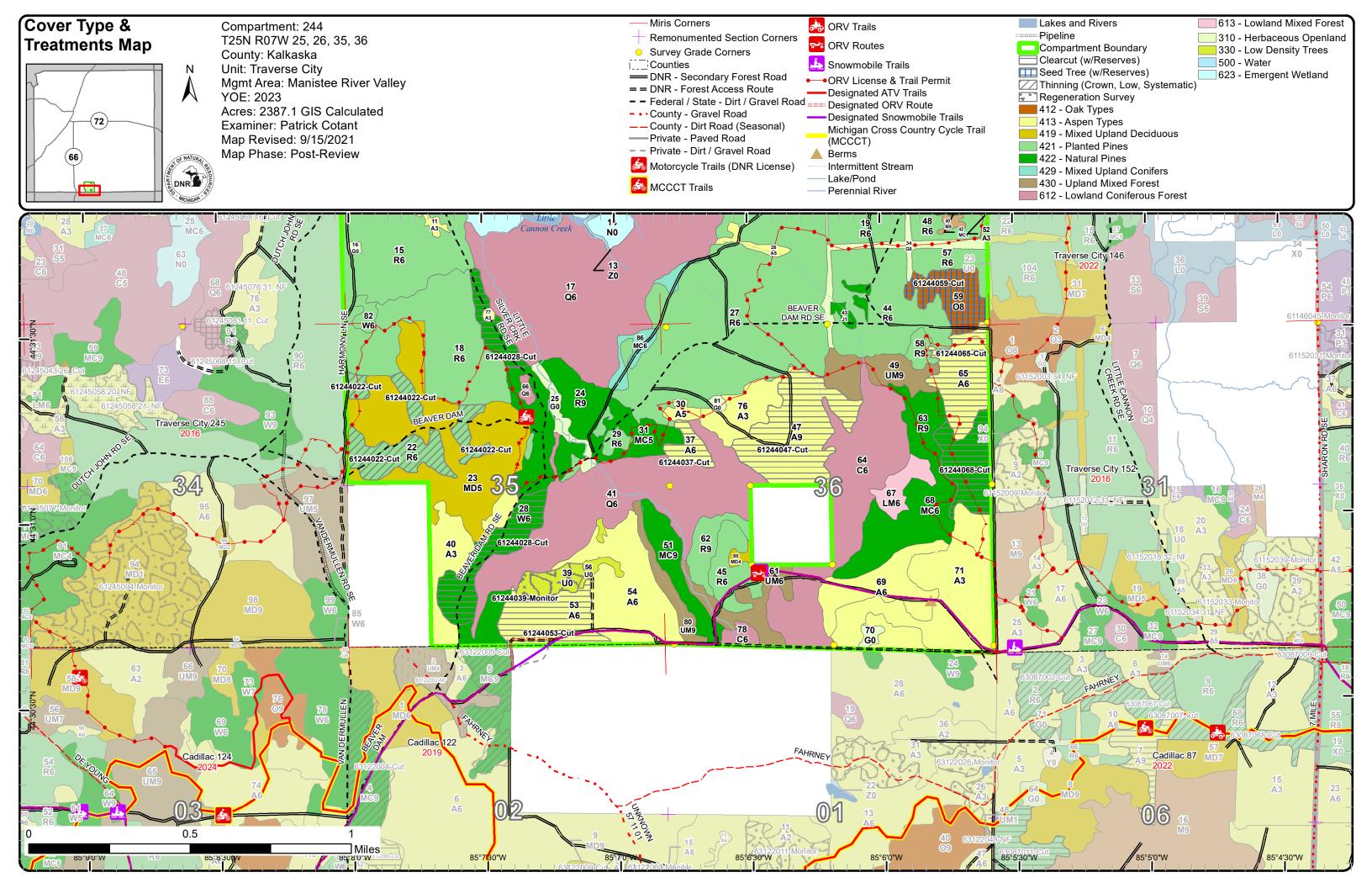
Proposed treatments

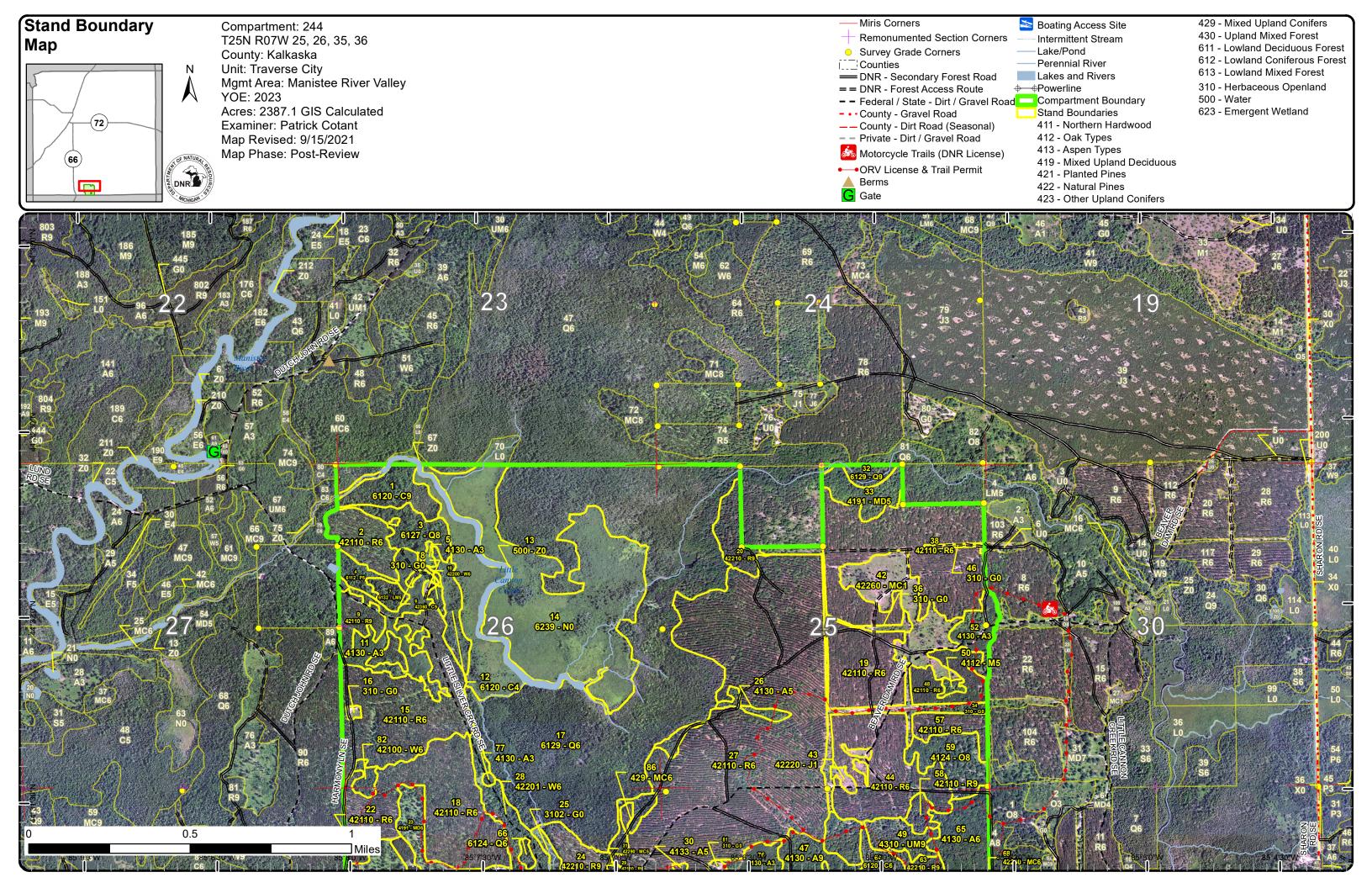
Site condition boundaries

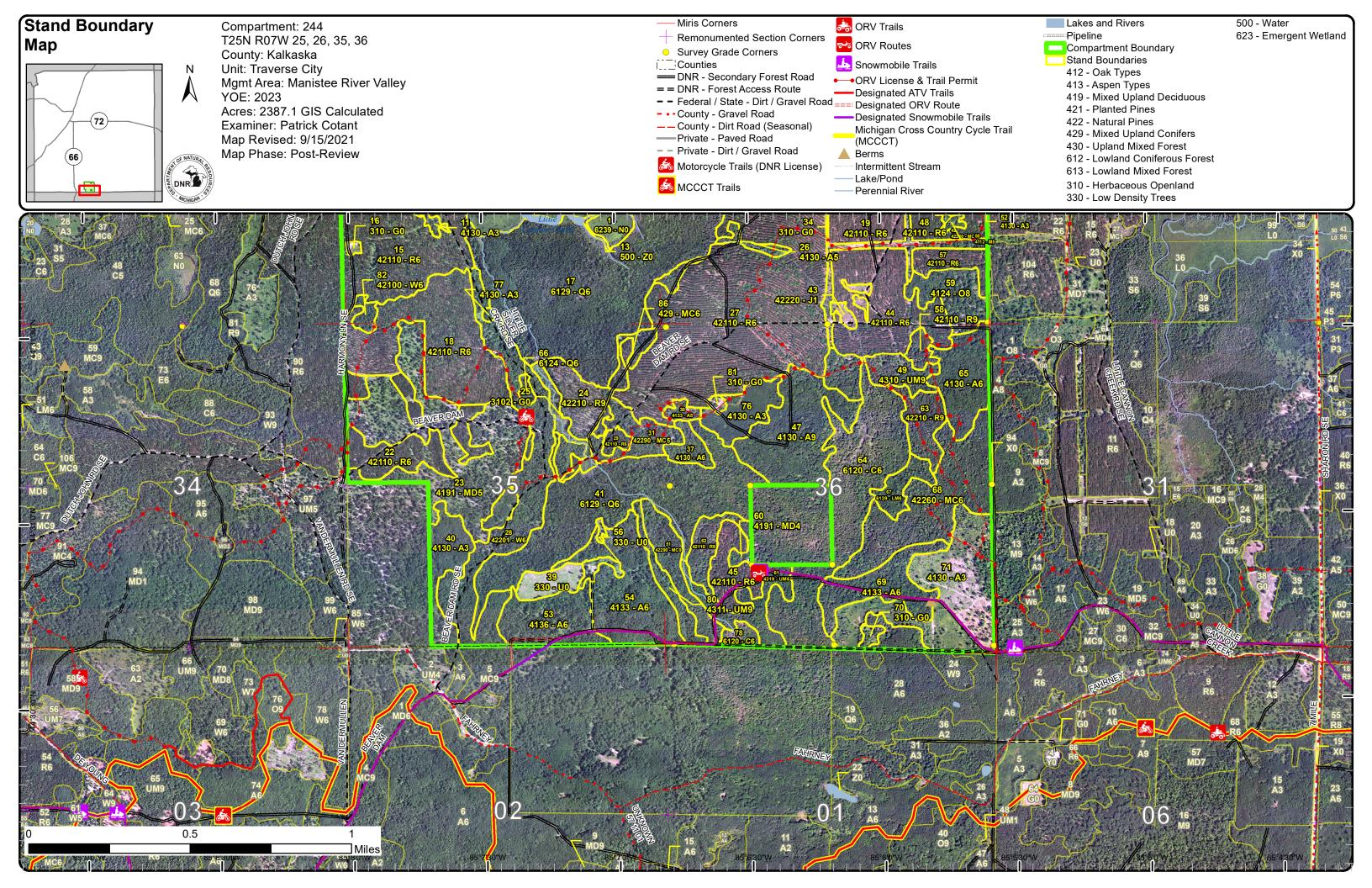
Details on the road access system

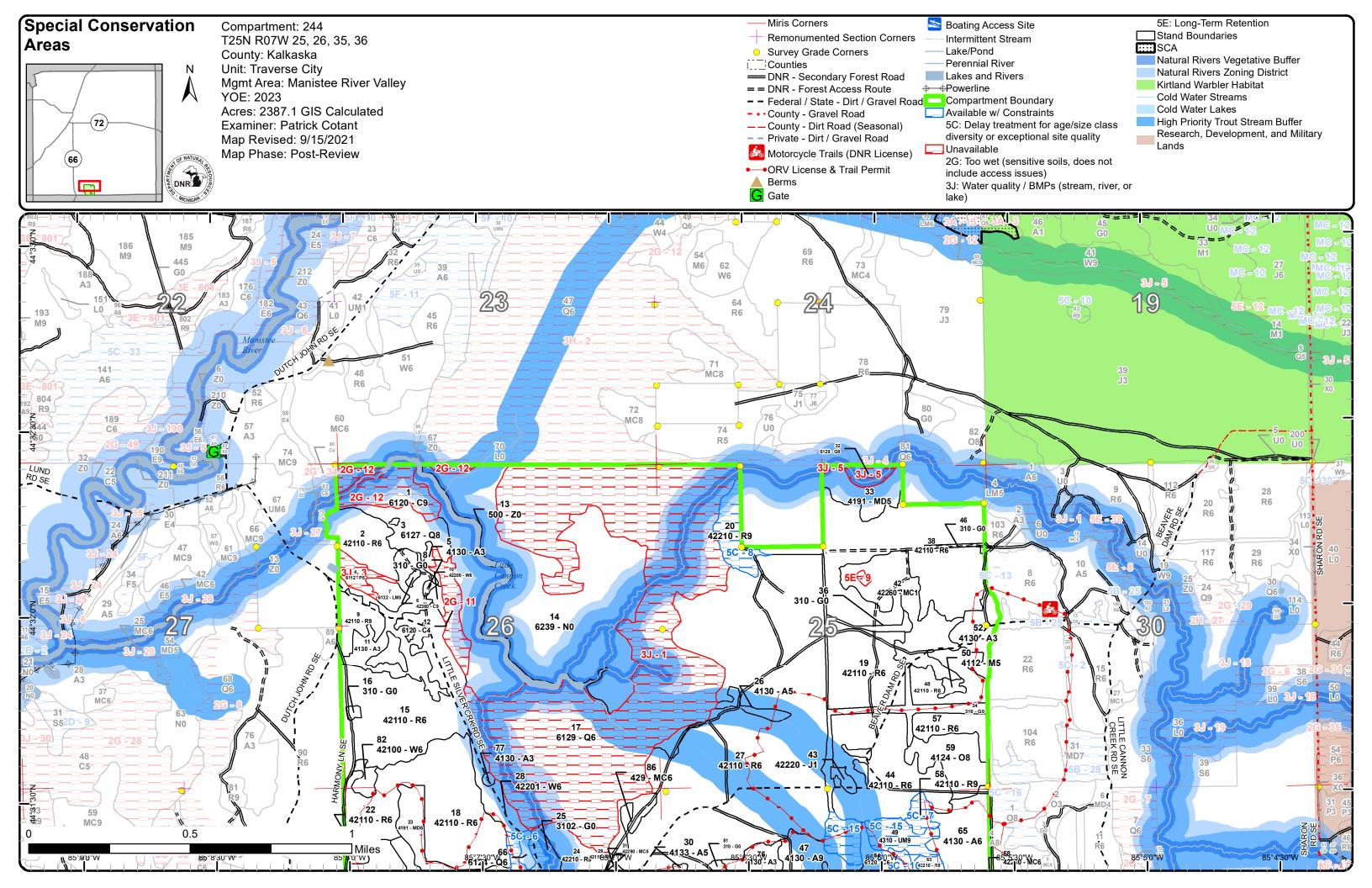


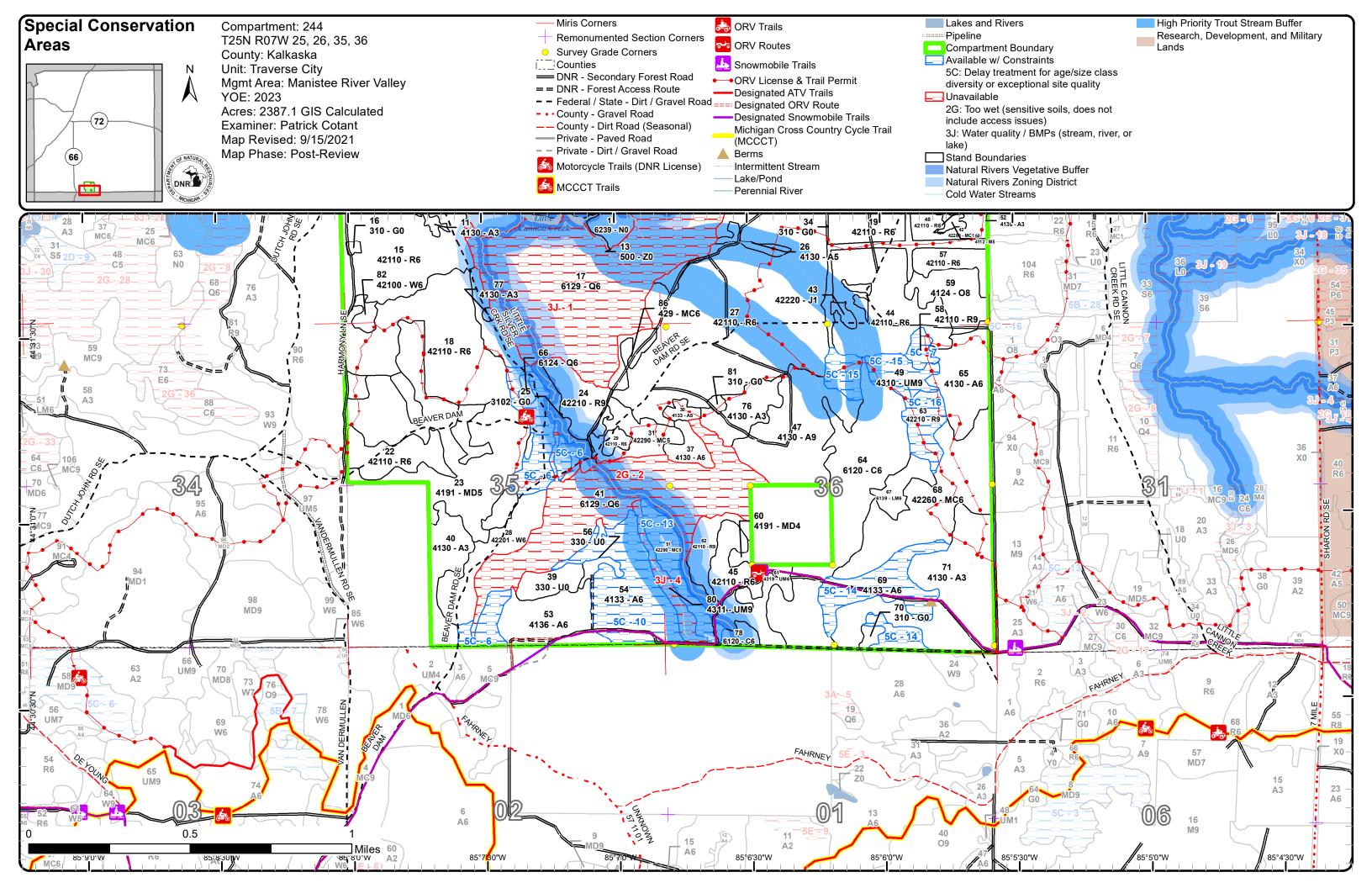












Traverse City Mgt. Unit
Patrick Cotant: Examiner



Age Class

	* Age	Kor C	3 / 5			3 /12	S R	3/8	\$ / &		S S	S Ka	B ZZ	\$ /s	No. S.			A Real	LOGO LOGO
Aspen	0	69	0	88	0	34	170	8	0	0	0	0	0	0	0	0	0	0	369
Cedar	0	0	0	0	0	0	0	0	12	85	25	0	0	0	0	0	0	0	122
Herbaceous Openland	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Jack Pine	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Low-Density Trees	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	0	0	0	2	333	6	105	0	0	0	0	0	0	0	446
Lowland Mixed Forest	0	0	0	0	10	0	0	0	0	5	0	0	0	0	0	0	0	0	15
Marsh	178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	178
Mixed Upland Deciduous	0	0	0	0	0	0	108	0	0	0	0	0	0	0	0	0	0	0	108
Natural Mixed Pines	0	36	0	0	0	60	17	0	19	0	0	0	0	0	0	0	0	0	132
Northern Hardwood	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Oak	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	20
Red Pine	0	0	0	0	0	36	555	144	12	21	14	0	0	0	0	0	0	0	782
Upland Conifers	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
Upland Mixed Forest	0	0	0	0	0	0	0	0	30	21	0	0	0	0	0	0	0	0	51
Water	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
White Pine	0	0	0	0	0	0	2	78	0	0	0	0	0	0	0	0	0	0	80
Total	241	110	0	88	10	130	864	232	412	159	144	0	0	0	0	0	0	0	2389



Report 2 – Treatment Summary

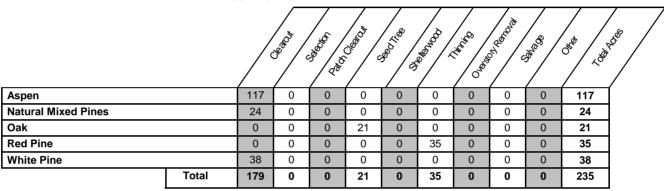
Traverse City Mgt. Unit Year of Entry: 2023

Acres of Harvest

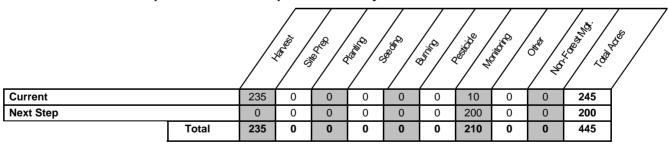
Compartment 244
Total Compartment Acres: 2,387

Commercial Harvest - 235 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: 244 Year of Entry: 2023

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Treatment Name

Acres

Stand CoverType

Stand Age Density

Size

BA Range

Treatment Type

Treatment Method

Cover Type Objective

Age Structure Habitat Cut

No

Approved Treatments:

22 61244022-Cut 34.9 42110 - Planted Poletimber 141-Harvest Systematic 4211 - Planted Even-Aged Red Pine Red Pine Well 170 Thinning

Prescription Third row thin stand. Rows look to be wide enough to accommodate a take 1/leave 2 thinning regime but if need be could remove 2 and

leave 3 or 4 rows. Use appropriate VMS sale specs to protect cycle trail. Specs:

Next Step

Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

61244028-Cut 37.8 42201 - Natural Poletimber 63 81-110 Clearcut with 4311 - Pine. Harvest Even-Aged Nο White Pine, Mixed Well Retention Aspen Mix

Deciduous

Specs:

Prescription Final harvest treatment area, retaining scattered white pine, red pine and oak as retention. could also retain a small island or two of white pine where white pine density is higher - retention should not inhibit aspen regeneration where possible. Treatment area does not have to be exactly as outlined but approximately 1/2-2/3 of stand should be harvested. These areas were identified as having a higher concentration of aspen in canopy and a better likelihood of higher stems/acre of aspen regen in combination with white pine regen. Expand southern treatment area into stand 41 if there are any opportunities to do so where 41 is not excessively wet and aspen and red maple are more highly concentrated. protect recreation cycle trail in treatment area, specifically in northern portion where it enters stand along western edge.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

61244037-Cut 7.5 4130 - Aspen Poletimber 64 81-110 Harvest Clearcut with 4133 - Aspen, Even-Aged Nο Mixed Pine Retention

Prescription Final harvest stand retaining most if not all balsam fir and scattered white pine and red pine and a couple oak for mast/seed. Be mindful of lowland and creek at southern edge of stand and determine appropriate setback for harvest at time of sale prep. Harvest in conjunction with Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments

Acceptable aspen, red maple, white and red pine and balsam fir.

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

Traverse City Mgt. Unit Report 3 -- Treatments Compartment: 244 Year of Entry: 2023 S t а **Treatment** Stand Size Stand BA **Treatment** Treatment **Cover Type** Acres Age n Method Objective Age Structure Name CoverType Density Range Type d 39 61244039-10.1 330 - Low-Density Nonstocked Unspec Monitoring Artificial 4211 - Planted Even-Aged Red Pine Monitor Trees ified Regen(3yr) Prescription Conduct regen survey to determine survival rates of red pine seedlings and also free to grow status of plantation as a whole. Specs: Next Step Treatments:

Acceptable Red pine at plantation spacing.

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

47 61244047-Cut 51.8 4130 - Aspen Sawtimber 57 111- Harvest Clearcut with 413 - Aspen Even-Aged No Well 140 Retention

Prescription Final harvest stand, retaining clumps/small islands of white and red pine along with some individual red pine, white pine and well formed oak species for seed and mast production. islands should be less than an acre and not exceed 4-5 acres of total stand area. Retention of individual trees should be relatively minimal and scattered, representing no more than 10 sq ft/ac. Rec trail skirts along northern edge just inside of treatment boundary - address trail protection by excluding this small area from treatment or leave retention trees adjacent to trail.

In addition, use trail protection specs in proposal.

Next Step Treatments:

Acceptable Aspen, white pine, red pine, oak and red maple.

Monitoring, Natural Regen (Re-Inventory)

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

53 61244053-Cut 29.6 4136 - Aspen, Poletimber 44 Harvest Clearcut with 413 - Aspen Even-Aged No Mixed Conifer Well Retention

Prescription Final harvest stand retaining balsam fir for cover. In addition, retain some scattered oak and white pine for mast and seed source. Pockets of white pine regen present, should retain these where possible as well to maintain diversity. Protect snowmobile trail with appropriate VMS specs.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, white pine, red maple and oak species.

Regen: Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

Habitat

Cut

Nο

Traverse City Mgt. Unit

Report 3 -- Treatments

Compartment: 244 Year of Entry: 2023



S t			, 3	•	торо				Year of Entr	/	DNR
	atment ame	Acres	Stand CoverType		Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
59 6124	4059-Cut	20.5	4124 - Red with White Oak	Sawtimber Medium	88	51-80	Harvest	Seed Tree	4121 - Oak, Aspen	Even-Aged	No
Prescription Specs:		of smalle	retaining white pine r diameter aspen, a								
Next Step Treatment		ring, Natui	ral Regen (Re-Inver	ntory)							
Acceptable Regen:	e White	and red oa	ık, white pine and a	ispen.							
Other Comment:	[
Site Condi											
Proposed	Start Date	<u>s:</u> 10/1 /20)22								
65 6124	4065-Cut	28.4	4130 - Aspen	Poletimber Well	56	Unspec ified	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
Prescription Specs:	should	be protect	nd retaining scatter ted with additional r ation could be left m	retention tree	es or s	mall island	ds nearby - whe	ere it travels throug	h northern tip of s	tand oak is hig	her
Next Step Treatment	_	ring, Natui	ral Regen (Re-Inve	ntory)							
Acceptable Regen:	e Aspen	, red pine,	white pine and sca	ttered oak.							
Other Comment:											
Site Condi	tion										
Proposed	Start Date	<u>s:</u> 10/1 /20)22								
68 6124	4068-Cut	24.2	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	45	1-50	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
Prescription Specs:	aesthe	tics. In ad	area of stand 68, r dition, delineate a d in these islands asp	couple island	ds stoc	ked heavi	ier to red and w				
Next Step Treatment		ring, Natui	ral Regen (Re-Inve	ntory)							
Acceptable Regen:	e aspen,	red pine,	white pine, red map	ole and scatt	ered o	ak.					
Other Comment											
Site Condi	tion										

Total Treatment 244.8 Acreage Proposed:

Proposed Start Date: 10/1 /2022

Compartment: 244

Traverse City Mgt. Unit

Patrick Cotant : Examiner Year of Entry: 2023

Availability for Management

Total Acres Acres Avail Acres

Dominant Site Conditions

Acres Available With Condition Net Available

Acres	Available	With Condition	Not Available		5C	2G	3J	5E
368	282	86	0	Aspen	86			
122	85	0	37	Cedar		37		
36	36	0	0	Herbaceous Openland				
5	5	0	0	Jack Pine				
14	14	0	0	Low-Density Trees				
6	0	0	6	Lowland Aspen/Balsam Poplar			6	
446	18	0	428	Lowland Conifers		105	322	
15	15	0	0	Lowland Mixed Forest				
178	178	0	0	Marsh				
108	108	0	0	Mixed Upland Deciduous				
131	112	19	1	Natural Mixed Pines	19			1
2	2	0	0	Northern Hardwood				
20	20	0	0	Oak				
782	748	34	0	Red Pine	34			
10	10	0	0	Upland Conifers				
51	20	21	10	Upland Mixed Forest	21		10	
13	13	0	0	Water				
79	43	36	0	White Pine	36			
2,387	1,709	196	482	Total Forested Acres	196	142	339	1
	72%	8%	20%	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.

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	317	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
	Comments:						

Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant: Examiner

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	105 3J: Water quality / BMPs (stream, river, or lake)		Unspecified	Unspecified	Unspecified
	Comments:						
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Stand represents of BMP concerns.	creek corridor along Silver Creek.	Part	ially upland but entire stand	area should be identified a	as an area to protect long t	erm for water quality ar
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	36	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
		exceptional site quality					

Report 4 - Site Conditions

Compartment: 244

Year of Entry: 2023 Patrick Cotant: Examiner 8 Unspecified Unspecified Unspecified Unspecified **Available** 5C: Delay treatment for 14 age/size class diversity or exceptional site quality Comments: Unspecified Unspecified Unspecified Unspecified 9 Unavailable 5E: Long-Term Retention 1 Comments: Unspecified Unspecified Unspecified Unspecified 10 **Available** 5C: Delay treatment for 50 age/size class diversity or exceptional site quality **Comments:** 11 Unspecified Unspecified Unspecified Unspecified 12 Unavailable 2G: Too wet (sensitive soils, does not include access issues) Comments: 3J: Water quality / BMPs Unspecified Unspecified Unspecified 12 Unavailable 2G: Too wet (sensitive 25 soils, does not include (stream, river, or lake) access issues) Comments: Unspecified Unspecified Unspecified Unspecified 13 **Available** 5C: Delay treatment for 19 age/size class diversity or exceptional site quality Comments:

Traverse City Mgt. Unit

Report 4 – Site Conditions

Traverse City Mgt. Unit

Patrick Cotant : Examiner

14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	36	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						

Mgt. Unit

Compartment: #Type! Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				

Traverse City Mgt. Unit Compartment: 244





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	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish speci year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	es (e.g., slimy sculpin) to persist from se conditions due to substantial
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 communities are ecologically and socially significant in their effects 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	Designated Critical Habitat	Critical habitat areas are established via a consultative and coop U.S. Fish and Wildlife service for the recovery of threatened and 365, Endangered Species Protection, of the Natural Resources and 451, and the Federal Endangered Species Act of 1973. This species plans in various stages of review. As of now only two explover Habitat.	endangered species, as governed by Part and Environmental Protection Act, 1994 is an active program, with proposed
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 and Vegetative Buffers for each Natural River see the table locat folder.	S Zoning District is a 400 foot buffer for 00 feet. To view specific Zoning Districts



Stand	Level 4 C	over Type		Size De	nsity	Acres Sta	nd Age B	A Range	Managed S	Site	General Comments		
1	6120 - Lo	wland Ceda	ır	Sawtimb	er Well	24.8	95	201+	N/A		Dense cedar stand in western portion, less cedar and more supercanopy		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canop	y Species	Density	Avg. Height	Size	red and white pine in eastern parts of stand. Other lowland conifers present. Lots of seeps to little cannon creek which runs through stand.		
	Red Maple	3	Pole	6		Balsam	n Fir	Low	5 - 10 feet	Sapling	Some blowdown areas, regenerating to fir. Any cedar regen is heavily		
	Paper Birch	2	Pole/Log	8							browsed. Occasional large white and red pine in western portion but again, concentrated most in eastern area of stand, near transition to		
	Balsam Fir	6	Pole	6							again, concentrated most in eastern area of stand, near transition to stand 2.		
	Black Spruce	5	Pole/Log	8							014.14		
No	rthern White Cedar	76	Log/Pole	10	95								
	White Pine	3	Log	13									
	Hemlock	5	Pole/Log	8									
2	42110 - Pla	nted Red P	ine	Poletimb	er Well	19.4	67	111-140	N/A		doing well after recent second thinning. ba averages 140 with much		
	Canopy Species	% Cover	Size Class	DBH	Age						variability, mainly trending a bit lower than 140. quality is decent, red oak and white pine scattered throughout. stand is pole log size, almost		
	White Pine	2	Pole	8							considered log. Third row thinned last YOE, has responded fairly well		
	Red Pine	94	Pole/Log	9	67						to previous treatment. BA is not as high as would be expected, most		
1	Northern Pin Oak	2	Log	14							likely because of variable stand density. Descent amount of red maple and white pine scattered throughout stand. 'Little Cannon Red' sale		
	Red Maple	2	Pole	8							was thinned and completed on 5/13/2016.		
3	<u> </u>		Sawtimbe	Mediun	n 16.1	70	51-80	N/A		Variable stand, dominated by white pine in most areas. Variable edge to adjacent stands. Small pockets of I-type and pockets of cedar. Lowland			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canop	y Species	Density	Avg. Height	Size	aspen present in pockets.		
	Red Maple	10	Pole	8		Balsam	n Fir	Medium	10 - 20 feet	Sapling			
	Bigtooth Aspen	10	Pole/Log	8		White F	Pine	Medium	5 - 10 feet	Sapling			
	Balsam Fir	10	Pole	6		Tag Al	der	Low	5 - 10 feet	Tall Shrub			
No	rthern White Cedar	5	Pole	8									
	White Pine	60	Log/Pole	10	70								
	Black Cherry	5	Pole/Log	8									
4	6112 - Lov	wland Aspe	n P	oletimbe	Mediun	n 6.4	75		N/A		Mixed stand of red maple and aspen with conifers throughout. Aspen dominant along northern edge. Some large white pine, red pine, cherry		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canop	y Species	Density	Avg. Height	Size	and oak. Scattered ironwood in understory along with hawthorn, white		
	Red Maple	50	Pole/Log	9	75	Red Ma	aple	Low	5 - 10 feet	Sapling	pine and balsam fir. Creek/seep runs through center of stand. stand area		
	Quaking Aspen	40	Pole/Log	8		Balsam	n Fir	Low	5 - 10 feet	Sapling	should be hard factored to protect creek and sensitive soils.		
	Balsam Fir	5	Pole	6		White F	Pine	Low	5 - 10 feet	Sapling			
	Hemlock	5	Pole/Log	8									
5	4130	- Aspen		Sapling	Well	1.3	6	mmature	N/A		aspen regenerating well following recent cut, good stems /acre. a few		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy	y Species	Density	Avg. Height	Size	white pine were retained.		
	Red Maple	2	Sapling	1		White F	Pine	Low	10 - 20 feet	Sapling	Aspen (A6) stand, good quality. Overall stand is relatively uniform		
	Quaking Aspen	96	Sapling	1	6					·	throughout in terms of height, dbh and species composition. White pine		
	White Pine	2	Pole	8							present in understory along w/ few rm in overstory. New stand added. Stand was clearcut with 'Little Cannon Red' in 2016.		



Canopy Species % Cover Size Class DBH Age Red Pine 95 Log/Pole 10 69 White Pine 3 Log/Pole 12 White Pine 3 Log/Pole 12 Sub-Canopy Species Density Avg. Height Size Sub-Canopy Species Density Avg. Height Size Red Maple Low 5 - 10 feet Sapling White Pine 3 Log/Pole 12 White Pine 4 Sub-Canopy Species Density Avg. Height Size Red Maple Low 5 - 10 feet Sapling White Pine 5 - 10 feet Sapling White Pine 4 Sub-Canopy Species Density Avg. Height Size Red Maple Low 5 - 10 feet Sapling White Pine Sub-Canopy Species Density Avg. Height Size Red Maple Sub-Canopy Species Density Avg. Height Size Red Maple Sub-Canopy Species Density Avg. Height Sub-Canopy Species Sub-Canopy Species Density Han some of the larger plantations nearby. ba homes in the 140-170 range in areas that are uniformly stocked, overall average is about 140 because of openings and canopy gaps from recent thinning. could do a light thinning removing remaining defect removing 1/4-1/3 of volume depending on stocking in certain areas. Red pine plantation, responding well to thin. Lots of defect/suppressed individuals remain. Red maple present, scattered balsam fir in understory. Variable size red pine throughout stand along with some areas of lower basal area. Little Cannon Red' sale was thinned and completed on 5/13/2016.	Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	ite	General Comments	
Paper Birch 5 Poletung 8 Bigtooth Aspen 10 Poletung 10	6	42360 - U	pland Ceda	ır	Sawtimb	er Well	0.8	80	141-170	N/A			
Paper Birch 5 Polet.Org 8 Northern White Cedar 85 Log/Pole 12 80		Canopy Species	% Cover	Size Class	DBH	l Age							
Northern White Cedar 85		Paper Birch	5	Pole/Log	8							Tion stand added.	
7 6132 - Mixed Lowland Forest with Cedar Poletimber Medium 5.0 85 51-80 NIA should be hard factored for water quality protection. Cedar stand with mixed conflet and some deciduous. Heavy browse and deer activity throughout. White pine persent are quite large. Quite a bit of red maple along with a descent amount of paper birch. New stand added. **Paper Birch 5 5 Pole 6 6 Northern White Cedar 30 LogPole 10 85 White Pine 20 Log 12 Black Ash 15 Pole 7 **Paper Birch 15 Pole 8 **Pap		Bigtooth Aspen	10	Pole/Log	8								
Canopy Species	No	rthern White Cedar	85	Log/Pole	12	80							
Red Maple 25 Pole 6 Red Maple 25 Pole 6 Red Maple 8 Sub-Canopy Species Red Maple 8 Red Map	7	6132 - Mixed Lowla	and Forest v	with Cedar P	oletimbei	Mediur	n 5.0	85	51-80	N/A			
Red Maple 25		Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size		
Balsam Fir 5 Pole 6 Northern White Cedar 30 Log/Pole 10 85 White Pine 20 Log 12 Black Ash 15 Pole 7 Deltard Red Pine Sawtimber Well 11.1 69 111-140 N/A responding well to most recent thinning, stand continues to grow well and short and provided by As and W6. Some wildlife use along edges, browse of aspen in places. 9 42110 - Planted Red Pine Sawtimber Well 11.1 69 111-140 N/A responding well to most recent thinning, stand continues to grow well and short and provided by As and W6. Some wildlife use along edges, browse of aspen in places. 9 42110 - Planted Red Pine Sawtimber Well 11.1 69 111-140 N/A responding well to most recent thinning, stand continues to grow well and short and provided by As and W6. Some wildlife use along edges, browse of aspen in places. 8 8 310 - Herbaceous Openiand Nonstocked Openiand Nonstocked Openiand Sawtimber Well 11.1 69 111-140 N/A responding well to most recent thinning, stand continues to grow well and short and short and place should be shorted that the provided Pole of the Sapling 170 range in areas that are uniformly stocked, overall average is about 140 because of openings and canopy agas from recent thinning, could deal alpht thinning removing remaining defect removing 1/4-1/3 of volume depending on stocking in certain areas. Red pine plantation, responding well to most recent thinning responding well to most recent thinning, and defensity has smould log size wholes, larger this amount of the sapling of the provided plant in sow of the sapling of the sapling of the same in the 140 range of the sapling of the sapli		Red Maple	25	Pole	6		Re	ed Maple	Low	5 - 10 feet	Sapling		
Northern White Pine 20 Log 12		Paper Birch	5	Pole/Log	9				,	•			
White Pine 20 Log 12 Black Ash 15 Pole 7 Black Ash 15 Pole		Balsam Fir	5	Pole	6								
Black Ash 15 Pole 7 8 310 - Herbaceous Openland Nonstocked 0.8 No Small grassy opening, surrounded by A3 and W6. Some wildlife use along edges, browse of aspen in places. 9 42110 - Planted Red Pine Sawtimber Well 11.1 69 111-140 N/A Canopy Species 9/6 Cover Size Class DBH Age Red Maple Low 5 - 10 feet Sapling Bigtooth Aspen 2 Log/Pole 10 White Pine 3 Log/Pole 12 White Pine 3 Log/Pole 12 1.8 58 141-170 N/A Small grassy opening, surrounded by A3 and W6. Some wildlife use along edges, browse of aspen in places. Red Pine Red Pine Sawtimber Well 11.1 69 N/A responding well to most recent thinning, stand continues to grow well and is now classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh and more uniform six how classified as small log size w/ poles. larger dbh	No	rthern White Cedar	30	Log/Pole	10	85							
8 310 - Herbaceous Openland Nonstocked 0.8 No Small grassy opening, surrounded by A3 and W6. Some wildlife use along edges, browse of aspen in places. 9 42110 - Planted Red Pine Sawtimber Well 11.1 69 111-140 N/A responding edges, browse of aspen in places. 11.1 69 111-140 N/A responding well to most recent thinning, stand continues to grow well and is now classified as small log size w/ poles. larger dbh and more uniform gray from recent thinning. Stand continues to grow well and is now classified as small log size w/ poles. larger dbh and more uniform gray from recent thinning. Stand continues to grow well and is now classified as small log size w/ poles. larger dbh and more uniform gray from recent thinning. Stand continues to grow well and is now classified as small log size w/ poles. larger dbh and more uniform density than some of the larger plantations nearby, ba homes in the 140-140 N/A spen 2 Log/Pole 10 White Pine Low 5 - 10 feet Sapling 140 because of openings and cancory gaps from recent thinning, could density than some of the larger plantations nearby, ba homes in the 140-140 N/A spen 2 Log/Pole 12 White Pine Low 5 - 10 feet Sapling 140 because of openings and cancory gaps from recent thinning, could density than some of the larger plantations nearby, ba homes in the 140-140 N/A spen Sapling Well 1.8 58 141-170 N/A Sample present, scattered balsam fir in understory. Variable size red pine throughout stand along with some areas of lower basal area. Little Cannon Red sale was thinned and completed on 5/13/2016. 110		White Pine	20	Log	12								
42110 - Planted Red Pine Sawtimber Well 11.1 69 111-140 N/A Canopy Species % Cover Size Class DBH Age Red Pine 95 Log/Pole 10 69 Red Maple Low 5 - 10 feet Sapling White Pine 3 Log/Pole 12 White Pine 3 Log/Pole 12 10 42200 - Natural White Pine 95 Pole/Log/Sap 7 58 Red Pine 95 Sapling White Pine 95 Sapling White Pine 95 Sapling White Pine 95 Pole/Log/Sap 7 58 Red Pine 95 Sapling White Pine 95 Sapling Well Age Bigtooth Aspen 95 Sapling Well 30.4 20 Immature N/A Young aspen stand A3 of big tooth aspen. Growing well, quite dense overall. White pine scattered basen Growing well, quite dense overall. White pine scattered throughout, occasional red pine in over and understory. Some cherry regen as well.		Black Ash	15	Pole	7								
Canopy Species % Cover Size Class DBH Age Red Pine 95 Log/Pole 10 95 White Pine 3 Log/Pole 12 White Pine 95 Pole/Log/Sap 7 58 Red Pine 95 Log/Pole 12 Sapling White Pine 95 Pole/Log/Sap 7 58 Red Pine 95 Sapling White Pine 95 Sapling Will 30.4 20 Immature N/A Sapling White Pine 95 Sapling White Pine 95 Sapling Will 30.4 20 Immature N/A Sapling White Pine 95	8	310 - Herbac	eous Open	land	Nonsto	ocked	0.8			No			
Canopy Species	9	42110 - Pla					11.1	69	111-140	N/A		responding well to most recent thinning, stand continues to grow well and	
Bigtooth Aspen 2 Log/Pole 10 White Pine 3 Log/Pole 12 White Pine 5 - 10 feet Sapling White Pine 3 Log/Pole 12 White Pine 3 Log/Pole 12 White Pine 5 - 10 feet Sapling at light thinning removing remaining defect removing 1/4-1/3 of volume depending on stocking in certain areas. Red pine plantation, responding well to thin. Lots of defect/suppressed individuals remain. Red maple present, scattered balsam fir in understory. Variable size red pine throughout stand along with some areas of lower basal area. Little Cannon Red' sale was thinned and completed on 5/13/2016. 10 42200 - Natural White Pine Poletimber Well Canopy Species 6 Cover Size Class DBH Age Quaking Aspen 3 Pole/Log 9 Note Pole/Log/Sap 7 58 Red Pine 2 Log 12 Note Pole/Log/Sap 7 58 Red Pine 5 Pole/Log/Sap 7 58 Sapling Well 5 Pole/Log/Sap 7 58 Sapling 3 20 Note Pole									Density		Size	density than some of the larger plantations nearby. ba homes in the 140-	
White Pine 3 Log/Pole 12 White Pine 9 Note throughout stand along with some areas of lower basal area. The pine white Pine Poletimber Well Canopy Species Canopy Species Red Pine PoleLog/Sap 7 58 Red Pine 9 Sapling Well 12 A light thinning removing remaining defect removing 1/4-1/3 of volume depending on stocking in certain areas. Red pine plantation, responding well to thin. Lots of defect/suppressed individuals remain. Red maple present, scattered balsam fir in understory. Variable size red pine throughout stand along with some areas of lower basal area. Little Cannon Red' sale was thinned and completed on 5/13/2016. Small white pine pole stand, dense. Red pine present along with aspen in low numbers. some lowland spots, hummocky ground, retain for diversity and thermal cover. White Pine 95 Pole/Log/Sap 7 58 Red Pine 2 Log 12 Mile Pine 95 Pole/Log/Sap 7 58 Red Pine 2 Log 12 Mile Pine 95 Sapling Well 95 Sapling Well 30.4 20 Immature N/A Young aspen stand A3 of big tooth aspen. Growing well, quite dense overall. White pine scattered throughout, occasional red pine in over and understory. Some cherry regen as well.		Red Pine	95	Log/Pole		69	Re	ed Maple	Low	5 - 10 feet	Sapling	170 range in areas that are uniformly stocked, overall average is about	
depending on stocking in certain areas. Red pine plantation, responding well to thin. Lots of defect/suppressed individuals remain. Red maple present, scattered balsam fir in understory. Variable size red pine throughout stand along with some areas of lower basal area. Little Cannon Red' sale was thinned and completed on 5/13/2016. 10 42200 - Natural White Pine Poletimber Well Canopy Species		Bigtooth Aspen	2		10		W	hite Pine	Low	5 - 10 feet	Sapling		
Canopy Species % Cover Size Class DBH Age Quaking Aspen 3 Pole/Log 9 White Pine 95 Pole/Log/Sap 7 58 Red Pine 2 Log 12 11 4130 - Aspen Sapling Well 30.4 20 Immature N/A Young aspen stand A3 of big tooth aspen. Growing well, quite dense overall. White pine scattered throughout, occasional red pine in over and understory. Some cherry regen as well.		White Pine	3	Log/Pole	12							depending on stocking in certain areas. Red pine plantation, responding well to thin. Lots of defect/suppressed individuals remain. Red maple present, scattered balsam fir in understory. Variable size red pine throughout stand along with some areas of lower basal area.	
Canopy Species % Cover Size Class DBH Age Quaking Aspen 3 Pole/Log 9 White Pine 95 Pole/Log/Sap 7 58 Red Pine 2 Log 12 11 4130 - Aspen Sapling Well 30.4 20 Immature N/A Young aspen stand A3 of big tooth aspen. Growing well, quite dense overall. White pine scattered throughout, occasional red pine in over and understory. Some cherry regen as well.	10	42200 - Nati	ural White F	Pine	Poletimb	er Well	1.8	58	141-170	N/A		Small white pine pole stand, dense. Red pine present along with aspen in	
Quaking Aspen 3 Pole/Log 9 White Pine 95 Pole/Log/Sap 7 58 Red Pine 2 Log 12 11 4130 - Aspen Sapling Well 30.4 20 Immature N/A Young aspen stand A3 of big tooth aspen. Growing well, quite dense overall. White pine scattered throughout, occasional red pine in over and understory. Some cherry regen as well.		Canopy Species	% Cover	Size Class	DBH	l Age							
Red Pine 2 Log 12 11 4130 - Aspen Sapling Well 30.4 20 Immature N/A Young aspen stand A3 of big tooth aspen. Growing well, quite dense overall. White pine scattered throughout, occasional red pine in over and understory. Some cherry regen as well.		Quaking Aspen	3	Pole/Log	9								
11 4130 - Aspen Sapling Well 30.4 20 Immature N/A Young aspen stand A3 of big tooth aspen. Growing well, quite dense overall. White pine scattered throughout, occasional red pine in over and understory. Some cherry regen as well. Bigtooth Aspen 95 Sapling 3 20		White Pine	95	Pole/Log/Sa	ap 7	58							
Canopy Species % Cover Size Class DBH Age Bigtooth Aspen 95 Sapling 3 20		Red Pine	2	Log	12								
Canopy Species % Cover Size Class DBH Age Bigtooth Aspen 95 Sapling 3 20 understory. Some cherry regen as well.	11	4130	- Aspen		Sapling	y Well	30.4	20	Immature	N/A			
Bigtooth Aspen 95 Sapling 3 20		Canopy Species	% Cover	Size Class	DBH	l Age							
			95	Sapling								understory. Come onemy regen as well.	
			5	Sapling	2								



Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments	
12	6120 - Lo	wland Ceda	ar I	Poletimb	er Poor	12.3	70	Unspecified	N/A		Lowland cedar/alder stand with other species scattered throughout.	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	Stand contains pockets of lowly stocked trees surrounded by I-type areas. Could almost be non-forested and combined with adjacent stand	
	Red Maple	10	Pole	6		Ta	ag Alder	High	5 - 10 feet	Tall Shrub		
	Paper Birch	20	Pole	6								
	Quaking Aspen	5	Pole	7								
No	orthern White Cedar	55	Pole	6	70							
	Tamarack	5	Pole	6								
	White Pine	5	Pole	8								
13	500 -	- Water		Nonsto	cked	13.2			No		Little cannon creek throughout compartment.	
14	6239 - Mixed E	mergent W	etland	Nonsto	cked	178.2			No		Large tag-alder swamp, very difficult access. Scattered birch, tamarack, black ash, cedar and spruce/fir.	
						Sub-Ca	nopy Specie	es Density	Avg. Height	Size	black asii, cedar and spruce/iii.	
						Ta	ag Alder	Full		Tall Shrub		
15	42110 - Pla	nted Red P	ine	Poletimb	er Well	79.2	64	111-140	N/A		variable ba in spots, generally averaging 120 with some of the more	
	Canopy Species	% Cover	Size Class	DBH	Age						uniformly stocked areas a bit higher in the 160 range. stand is decent quality, some open gaps but little regen aside from white pine is	
	Red Maple	4	Pole	6							establishing. could thin by removing 1/3 of ba but stocking is generally	
	White Pine	2	Pole/Log	8							not quite there yet following recent thinning.Red pine stand, thinned	
	Red Pine	92	Pole/Log	9	64						previous yoe and is currently responding well. Some areas more open. Red maple scattered as well as white pine'Little Cannon Red' sale	
	Northern Pin Oak	2	Log	16							was rowed thinned and completed on 5/13/2016.	
16	310 - Herbac	eous Open	land	Nonsto	cked	1.0			No		Small grassy opening, old well site most likely.	
17	6129 - Mixed Conif	erous Lowla	and Forest	Poletimb	er Well	316.7	78		N/A		Cedar stand with fair amount of lowland conifer species throughout.	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size	ling locations throughout the stand, all of which flow to little cannon and	
	Paper Birch	5	Pole/Sapling	g 5		Ва	lsam Fir	Medium	5 - 10 feet	Sapling		
	Balsam Fir	20	Pole/Sapling	g 6							creeks. Lots of wildlife activity. Fair amount of browse in places, Not very many deciduous stems within stand. Some paper birch, red maple	
	White Spruce	20	Pole	6							and scattered lowland aspen present.	
No	orthern White Cedar	40	Pole/Log	8	78							
	Tamarack	10	Pole/Sapling	-								
	Hemlock	5	Pole	8								



Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments	
18	42110 - Pla Canopy Species Red Maple Red Oak Red Pine		Size Class Pole Log Pole/Sap/Log	6	Age 51	74.5	51	111-140	N/A		responding fairly well to recent thinning, still overall relatively small dbh on average and variable stocking with some gaps and some more heavily stocked areas. generally ba is in the 110-140 range with pockets higher but on average ba is still relatively low and averages ~120 ba. based on stocking, canopy closure and size criteria not quite ready for thinning. if acreage is needed for restart this stand could be considered. Red pine stand, overall small pole sized dbh. Ready to be third row thinned. Has not been thinned previously. Quite a few open areas and pockets of slightly lower density. Stand was row thinned 'Little Cannon Red' closed on 5/13/16	
19	42110 - Pla Canopy Species Red Pine		Pine F Size Class Pole/Log	Poletimb DBH	Age 55	36.6	55	111-140	N/A		Red pine stand that has not been third row thinned. Growing well albeit suppressed.	
20	42210 - Nat Canopy Species Red Pine		Size Class Log	DBH 13	Age 94		94 nopy Species Isam Fir	171-200 S Density Low	N/A Avg. Height 5 - 10 feet	Size Sapling	Small stand of large red pine. Understory is very open except for scattered spruce/fir, some planted spruce as well. Looks like PVT may be encroaching on state land in this area with fence posts. Stand blends into adjacent lowland conifer stand along western edge. Nice stand, has been treated in the past but has a natural feel to it and should be retained as majority of red pine in this compartment is smaller size and within large plantations.	
22	42110 - Pla Canopy Species Red Pine	nted Red P % Cover		Poletimb DBH	Age 43	35.8	43	141-170	N/A		pole stand, growing well. recommend third row thinning at this time. rows somewhat irregular but should be able to follow for a typical third row thinning, may need to adjust in spots. trace oak, white and Aspen. some small dbh suppressed red pine scattered throughout. pine plantation, growing fairly well. Has not been thinned however recommend waiting until next yoe. Has not self pruned very much yet and in addition is small in terms of dbh and height. Many areas of lower stocking where plantation was less successful.	
23	4191 - Mixed Upla Co	and Decidu onifer	ous with Po	letimber	Mediun	n 91.3	55	1-50	N/A		Relatively open stand of white pine, aspen, red maple and occasional oak. Aspen are mostly small dbh with occasional clones having larger	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	trees where density is higher. Oak are scattered. White pine regenerating heavily in places along with some aspen and red maple regeneration.	
	Red Maple	25	Pole/Sapling			WI	nite Pine	Medium	5 - 10 feet	Sapling	Scattered oak saplings present, mostly white oak but some red oak	
	Red Oak	5	Log/Pole	10							developing as well, scattered red pine mainly around perimeter of stand.	
	Quaking Aspen White Pine	30 35	Sapling/Pole Pole/Sap/Log		55							
24	42210 - Na			Sawtimb		17.4	66	81-110	N/A		Stand was thinned in the spring of 2016 'Sno Trail Mix' (61-088-13-01. All of the Aspen jack pine fir, and red maple were cut out and the pine was	
	Canopy Species	% Cover		DBH			nopy Species		Avg. Height	Size	thinned through. Mixed stand of white and red pine logs and poles.	
	White Pine	35	Log/Pole	10	66		nite Pine	Low	5 - 10 feet	Sapling		
	Red Pine	65	Log/Pole	10	66	Ва	Isam Fir	Low	10 - 20 feet	Sapling		
25	3102	- Grass		Nonsto	cked	7.5			No		Lowland area, open, surrounding portion of silver creek. Result of a small beaver dam possibly. Vegetation consists mainly of tag alder with black ash and red maple present along with some lowland conifer snags.	

Traverse City Mgt. Unit Report 7 - Stands



Stand	Level 4 Co	over Type	s	ize De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
26		- Aspen			Medium	4.1	54	1-50	N/A		Narrow aspen stand, seasonal drainage. Some large red and white pine. Aspen is variable in terms of size, overall lower quality and density.
	Canopy Species	% Cover			l Age		nopy Species	Density	Avg. Height	Size	
	Red Maple	5	Pole	6			alsam Fir	Low	5 - 10 feet	Sapling	
	Quaking Aspen	80	Pole/Sap/Log	6	54	W	hite Pine	Low	5 - 10 feet	Sapling	
	Balsam Fir	3	Pole/Sapling	5							
	White Pine	10	Log	12							
	Red Pine	2	Log/Pole	10							
27	42110 - Plai	nted Red P	ine Po	oletimb	er Well	264.2	55	111-140	N/A		responding fairly well to thinning, however ba is still relatively low with
	Canopy Species	% Cover	Size Class	DBH	l Age						stocking taken within 4 rows that were left in the 150 range, and when taken in the 2 rows that were cut it average 110. dbh remains low on
	Red Maple	3	Log/Pole	10							average too but seems to be increasing based on cores of dominant
	White Pine	3	Log/Pole	10							trees. recommend waiting to thin, allowing stand to add diameter and for
	Red Pine	94	Pole	7	55						stocking to get in the more appropriate range to warrant thinning. Red pine plantation with some white pine, red maple and scattered red oak.
											Some variation in density and size of red pine however overall. Stand was thinned in the winter of 2016. Memorial Pine 61-026-13-01. Rows were pretty tight so we cut 2 and left 4. It would be nice to thin again nex time this is up to release the interior parts of the rows.
28	42201 - Natural V Deci	White Pine iduous	, Mixed Po		er Well	73.6	63	81-110	N/A		Variable stand in terms of density and species composition. Lumped together some areas that might otherwise be separated. Overall it is a white pine stand with red maple and aspen along with scattered red pine
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	and balsam fir. Aspen is distributed throughout much of stand but is also
	Red Maple	10	Pole/Log	8		Re	ed Maple	Low	10 - 20 feet	Sapling	present in low density clones and does have some significant size
	Red Oak	5	Log	14		Ва	alsam Fir	Low	10 - 20 feet	Sapling	variability throughout stand. narrow red maple and aspen transition zone
	Quaking Aspen	15	Pole	8		W	hite Pine	Low	5 - 10 feet	Sapling	present between this stand and adjacent stand 41. Lowland pockets w/ fir in places, no evidence of standing water. Topo drops slightly to stand,
	Balsam Fir	5	Pole/Sapling	5							approx 10 ft. across stand with another slight drop to adjacent q-type.
	White Pine	60	Pole/Log/Sap	8	63						Scattered red oak, all of which are concentrated on portions of stand
	Red Pine	5	Log/Pole	10							higher in elevation with a more significant pocket in the northern/central portion of the stand. Pockets of lower density in western areas of stand.
											Red pine rows separate from adjacent plantations are present in areas. Small seeps in se areas of stand are present and make their way to join silver cr.
29	42110 - Plai	nted Red P	rine Po	oletimb	er Well	6.0	57	141-170	N/A		Red pine plantation, has not been thinned, growing fairly well albeit suppressed. Multi part stand, NW portion is more variable and lower
	Canopy Species	% Cover	Size Class	DBH	l Age						stocked, scattered Aspen and oak present, oak is dving out of stand with
	Canopy Species Red Maple	% Cover	Size Class Pole	DB H	l Age						stocked. scattered Aspen and oak present, oak is dying out of stand with some standing snags present. If harvest takes place, exclude this portion
					I Age						some standing snags present. If harvest takes place, exclude this portion from sale. Could merge w/ stand 21. Variable rows, edge of stand is
	Red Maple	5	Pole	6	57						some standing snags present. If harvest takes place, exclude this portion
30	Red Maple White Pine	5 5 90	Pole Pole Pole	6 6 8		3.5	40	1-50	N/A		some standing snags present. If harvest takes place, exclude this portion from sale. Could merge w/ stand 21. Variable rows, edge of stand is variable as well-rows trail off to adjacent stands and blend with white pine to create a mixed red/white pine edge. Low stocked stand of poor quality aspen and white pine, almost seems
30	Red Maple White Pine Red Pine	5 5 90	Pole Pole Pole Pole	6 6 8 etimber	57	3.5	40	1-50	N/A		some standing snags present. If harvest takes place, exclude this portion from sale. Could merge w/ stand 21. Variable rows, edge of stand is variable as well-rows trail off to adjacent stands and blend with white pine to create a mixed red/white pine edge. Low stocked stand of poor quality aspen and white pine, almost seems like a frost pocket in spots. Open, low density. Balsam fir scattered.
30	Red Maple White Pine Red Pine 4133 - Aspe	5 5 90 en, Mixed P	Pole Pole Pole Pole	6 6 8 etimber	57 Medium	3.5	40	1-50	N/A		some standing snags present. If harvest takes place, exclude this portion from sale. Could merge w/ stand 21. Variable rows, edge of stand is variable as well-rows trail off to adjacent stands and blend with white pine to create a mixed red/white pine edge. Low stocked stand of poor quality aspen and white pine, almost seems like a frost pocket in spots. Open, low density. Balsam fir scattered. Small trickle of water flows from adjacent stand 34 and disappears under 26. Drain can be followed in a northwesterly direction but water does not
30	Red Maple White Pine Red Pine 4133 - Aspe	5 5 90 en, Mixed P	Pole Pole Pole Size Class	6 6 8 etimber	57 Medium	3.5	40	1-50	N/A		some standing snags present. If harvest takes place, exclude this portion from sale. Could merge w/ stand 21. Variable rows, edge of stand is variable as well-rows trail off to adjacent stands and blend with white pine to create a mixed red/white pine edge. Low stocked stand of poor quality aspen and white pine, almost seems like a frost pocket in spots. Open, low density. Balsam fir scattered. Small trickle of water flows from adjacent stand 34 and disappears under

Report 7 - Stands Traverse City Mgt. Unit



Stand	d Level 4 C	over Type	;	Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
31	42290 - Natu	ural Mixed I	Pine Po	letimbe	Medium	16.9	52	51-80	N/A		Mixed stand of white pine, red pine and aspen with other species present
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	in descent numbers. Some more pure pockets of both white and red pine and aspen in places. Overall relatively small dbh, lower stocking in
	Red Maple	5	Pole/Sapling	5		Ва	alsam Fir	Low	5 - 10 feet	Sapling	places. Small diameter overall, some areas of high water table and small
	Quaking Aspen	15	Pole/Sapling	6		W	hite Pine	Low	10 - 20 feet	Sapling	bog present in center of stand. some larger red and white present.
	Balsam Fir	2	Sapling/Pole	4							
	White Pine	53	Pole/Sap/Log	j 8	52						
	Red Pine	25	Pole/Log	8							
32	6129 - Mixed Conif	erous Lowl	and Forest S	Sawtimb	er Well	5.8	80 l	Jnspecified	N/A		Mixed stand of lowland conifers dominated by cedar and white pine with
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	balsam fir, red pine red maple and birch present in fair numbers. Little cannon cr runs along southern edge of stand-wide, braided, choked w/
	Red Maple	5	Pole	6		Ва	alsam Fir	High	10 - 20 feet	Sapling	deadfall. Steep slope to creek on south side.
	Paper Birch	5	Pole	6		W	hite Pine	Medium	5 - 10 feet	Sapling	
	Balsam Fir	15	Pole	6							
No	orthern White Cedar	31	Pole/Log	8	80						
	White Pine	29	Log/XLog	16							
	Red Pine	5	Log/XLog	15							
	Hemlock	10	Log/Pole	10							
	Red Maple	% Cover 45	Pole/Sap/Log		55		nopy Species	Medium	5 - 10 feet	Sapling	basal area. Slope at northern edge of stand leading to creek/lowland.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Overall low density throughout stand with some pockets exhibiting higher basal area. Slope at northern edge of stand leading to creek/lowland.
	Red Oak	5	Pole	6	55	VV	Tille Fille	Medium	5 - 10 leet	Sapility	
	Bigtooth Aspen	10	Pole	7							
	Bigiootii Aspeii	10	FOIE	1							
34	310 - Herbac	eous Open	ıland	Nonsto	ocked	18.9	ţ	Jnspecified	No		What looks to be an old fire lane opening, Scattered cherry, occasional large overstory red pine. ORV trail runs through portions of stand. Some areas of stand are more heavily treed, representing more of a u-type.
36	310 - Herbac	eous Open	land	Nonst	cked	2.9			No		Old fire lane, scattered trees throughout.
						Sub-Ca	nopy Species	Density	Avg. Height	Size	
						Ja	ack Pine	Medium		Sapling	
37	4130	- Aspen	F	Poletimb	er Well	7.5	64	81-110	N/A		Mixed stand, aspen dominant. mostly upland with some lowland ground at edges, high water table in some areas of stand. creek flows along
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	southern edge of stand. Some cedar near edges of adjacent stands,
	Red Maple	20	Pole/Log	8		Ва	alsam Fir	Medium	10 - 20 feet	Sapling	large white and red pine present in lower numbers, could consider final
	Paper Birch	3	Pole	7		W	hite Pine	Medium	10 - 20 feet	Sapling	harvest retaining some conifers.
	Quaking Aspen	62	Pole/Log	8	64						_
	Balsam Fir	5	Pole/Sapling	6							
No	orthern White Cedar	2	Pole	8							
	White Pine	5	Log/Pole	12							
	Red Pine	3	Log	12							



Stan	d Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed \$	Site	General Comments
38	42110 - Plan Canopy Species Red Maple Red Pine		Pine P Size Class Pole/Log Pole/Log	DBH 8 8	er Well Age 55	90.8	55	111-140	N/A		responding fairly well to recent thinning but stocking of 110-140 ba in combination with low dbh on average does not yet warrant a second thinning. seems that a subsequent thinning at this time would leave residual susceptible to windthrow and also discourage some height as trees are still 4 sticks in many areas, other areas of stand 5+ sticks is average. pine plantation, has not been thinned as of yet. Scattered large jack pine and red maple throughout. Occasional aspen and scattered oak.
39	330 - Low-[Density Tre	ees	Nonsto	cked	10.1	0	Unspecified	4211 - Planted	Red Pine	Stand was final harvested in spring of 2016 and then trenched that same
						Sub-Ca	nopy Speci	es Density	Avg. Height	Size	summer. '61-088-13-01' Snow Trail Pine. Stand planted in 2017. 1 yr regen 6/2018. Recommended release.
							ed Pine	High	< 5 feet	Sapling	Stand planted in 2017. Tyl regen 0/2010. Recommended release.
40	4130	- Aspen		Sapling	y Well	25.8	26	Unspecified	N/A		Young aspen stand (A3), growing well. Red oak were left during previous
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Speci	es Density	Avg. Height	Size	harvest along w/ scattered white pine poles. White pine is regenerating in understory of aspen saplings. Some pole sized trees present, on
	Red Oak	5	Log	13		Wł	nite Pine	Low	5 - 10 feet	Sapling	average still sapling size, will be pole next YOE.
	Bigtooth Aspen	90	Sapling/Pole	4	26						-
	White Pine	5	Pole/Log	8							
41	6129 - Mixed Conife	erous Lowl	land Forest P	oletimb	er Well	105.1	90	141-170	N/A		Mixed lowland conifer stand. Silver creek in center of stand. Pockets of
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Speci	es Density	Avg. Height	Size	pure cedar, other areas of spruce/fir/cedar. Scattered pockets of birch, balsam poplar, red maple and balsam fir. Some very large red and white
	Red Maple	5	Pole	6		Ва	Isam Fir	Medium	5 - 10 feet	Sapling	pine on scattered hummocks which can be found throughout stand.
	Paper Birch	5	Pole	8		Ta	ag Alder	Low	5 - 10 feet	Tall Shrub	There is a great deal of winter deer activity in stand. Lots of browse on
	Balsam Poplar	3	Log	10							cedar, very little coniferous regen aside from scattered balsam fir thickets and occasional white pine. Hemlock can be found in spots. Tamarack
	Balsam Fir	10	Pole	6							present throughout stand with dense pockets found in places.
	Black Spruce	10	Pole/Log	8							
No	orthern White Cedar	40	Log/Pole	8	90						
	Tamarack	10	Pole/Log	8							
	White Pine	8	Log/Pole/XLog	10							
	Red Pine	7	Log/Pole/XLog	g 10							
	Hemlock	2	Log/Pole	10							
42	42260 - Natural Pir	ne, Mixed I	Deciduous	Sapling	Poor	35.7	5	Immature	N/A		Regenerating fairly well, may be higher than 25-50% canopy but that appears to be range of regen extent at this time. Jack pine will likely
	Canopy Species		Size Class	DBH	Age						continue to fill in as will aspen and white pine along with some more red
	Jack Pine	55	Sapling	1	5						maple. If/when surrounding red pine plantations are harvested and
	Red Maple	25	Sapling	1							replanted, it would be good to incorporate this area into plantation in order to have a more regular shaped plantation, unless this jack pine
	Quaking Aspen	10	Sapling	1							stand is wanted for diversity. Jack pine stand, final harvested under
	White Pine	5	Sapling	1							tsale contract 08913 by Biewer FP. Forested objective, not yet
	Red Pine	5	Sapling/Pole/Lo	g 2							regenerating at time of timber sale closure.

Report 7 - Stands



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments
43	42220 - Nat	tural Jack P	ine	Sapling	Poor	4.6	6	Immature	N/A		Stand was final harvested with adjacent red pine row thinning 'fire lane
	Canopy Species	% Cover	Size Class	DBH	Age						pine'
	Red Pine	5	Pole	8							
	Jack Pine	95	Sapling	1	6						
44	42110 - Pla	nted Red P	ine	Poletimbe	er Well	53.8	55	111-140	N/A		respondiny well to recent thinning but ba still in the 110-140 range with
	Canopy Species	% Cover	Size Class	DBH	Age						some pockets less and a few scattered areas higher. dbh is relatively low and averages 7-8" overall. concern with subsequent thinning would be
	Red Oak	2	Log	12							the combination of low ba and relatively low dbh. Red pine plantation
	Red Pine	98	Pole/Log	8	55						growing fairly well, suppressed at this time. Some jack pine scattered
				'							throughout. Scattered large oak and pole size red maple in southeastern corner.
45	42110 - Pla	nted Red P	ine	Poletimbe	er Well	17.3	62	111-140	N/A		red pine doing well following recent treatment, overall decent quality. ba
	Canopy Species	% Cover	Size Class	DBH	Age						averages about 140 with some lower and higher stocked areas. allow to grow another cycle before thinning again unless needed for partial
	Red Pine	95	Pole/Log	8	62						harvest acres but stocking and dbh do not warrant treatment at this time.
	White Pine	3	Log	10							Chand was resulthinged in the entire of COAO Care Trail Direc (CA COA AC
	Red Oak	2	Log	14							Stand was row thinned in the spring of 2010 Sno Trail Pine (61-088-13-01). Descent quality, fair dbh, has not self pruned much and was planted
											around remnant stumps so therefore rows are erratic/variable in many areas of stand, most notably in north. White pine, aspen and red maple present in low numbers.
46	310 - Herbad	eous Open	land	Nonsto	cked	1.3			No		Similar to stand 32, what looks to be an old fire lane. Some scattered cherry, white pine and occasional naturally regenerated red pine. Helps to provide a nice break in the plantations of the area.
47	4130	- Aspen		Sawtimbe	er Well	51.8	57	111-140	N/A		Variable aspen stand in terms density and overall quality - some size
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size	variability as well with log and pole sized trees present throughout and also pockets where larger trees are more uniform density, white pine
	Red Maple	5	Pole	6		Ва	Isam Fir	Low	10 - 20 feet	Sapling	present along with red pine, balsam fir and scattered oak. White pine is
	Red Oak	3	Log	12		WI	nite Pine	Low	5 - 10 feet	Sapling	much more prevalent in eastern portions of stand, some transition areas
	Bigtooth Aspen	78	Log/Pole	10	57						to adjacent stands to the east where species composition is much more variable and water table influence is greater, specifically along eastern
	White Pine	10	Log/Pole	10							edge.
	Red Pine	4	Log/Pole	10							
48	42110 - Pla	nted Red P	ine	Poletimbe	er Well	17.6	50	141-170	N/A		third row thin stand, rows are tight in spots but should generally be
	Canopy Species	% Cover	Size Class	DBH	Age						operable taking one and leaving two rows. remove deciduous trees where possible.Lower in terms of density, quality and dbh than surrounding
	Red Maple	10	Pole/Log	8							plantations, More of a deciduous component as well.
	Red Oak	5	Log	10							

Report 7 - Stands



Stan	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age B	A Range	Managed S	ite	General Comments
49	4310 - Pi	ne, Oak Mix	(Sawtimb	er Well	21.0	88	51-80	N/A		Pine oak stand with aspen relatively evenly distributed throughout. Aspen is scattered, not in densely stocked clones but it should still
	Canopy Species		Size Class		Age		nopy Species	Density	Avg. Height	Size	regenerate well if stand were to be opened up. More open in NW portion
	Red Maple	10	Pole	7		Wh	nite Pine	Medium	10 - 20 feet	Sapling	
	Red Oak	25	Log/Pole	12	88						does not look to be a perennial stream, disappears about a chain into plantation to the north but old drainage course is visible on aerial photos.
	Bigtooth Aspen	15	Pole	8							If treated, determine if this drainage should have more of a boundary
	White Pine	20	Pole/Log	9							than what is delineated with stand lines.
	Red Pine	25	Log/Pole	10	61						
	White Oak	5	Log	12							
50	4112 - Maple, Beed	h, Cherry A	ssociation P	oletimber	Mediun	n 1.9	59	51-80	N/A		Low density red maple stand with larger red and white oak present. Oak
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	regeneration throughout understory in relatively low density, however growing fairly well. New stand added.
	Red Maple	90	Pole	8	59	Oa	ık (spp.)	Medium	10 - 20 feet	Sapling	growing ramy non-rom countries
	Red Oak	5	Log	12							
	White Oak	5	Log	10							
51	42290 - Natu	ural Mixed F	Pine	Sawtimb	er Well	18.7	76	141-170	N/A		Mixed natural pine stand with red and white pine evenly distributed
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	throughout. Some variability of size and stocking, with areas where aspen and oak component is a bit more concentrated, albeit still in
	Red Maple	5	Pole	6			nite Pine	Low	5 - 10 feet	Sapling	relatively low numbers. Oak are generally large trees with big crowns
	White Pine	40	Log/Pole	10	76	Ва	Isam Fir	Low	10 - 20 feet	Sapling	providing good mast and adding to wildlife habitat value of stand. some
	Red Pine	35	Log/Pole	10	76	Re	d Maple	Low	5 - 10 feet	Sapling	small hummocky/lowland areas with drainages that look to be seasonal and/or historic leading towards Silver Creek. Could thin stand and
	Red Oak	5	Log	12							remove aspen or could retain long term for age and species diversity.
	Bigtooth Aspen	10	Pole/Log	8							
	Balsam Fir	5	Pole	6							
52	4130	- Aspen		Sapling	Well	12.9	20 I	mmature	N/A		Young, fully stocked aspen (A3) stand with occasional large white oak
	Canopy Species	% Cover	Size Class	DBH	Age						and pole sized red pine. Jack pine saplings throughout in low numbers.
	White Oak	2	Log/Pole	10							
	Bigtooth Aspen	94	Sapling	3	20						
	Red Pine	2	Pole	8							
	Jack Pine	2	Sapling	2							
53	4136 - Asper	n, Mixed Co	nifer	Poletimb	er Well	29.6	44		N/A		pole sized Aspen stand with size and stocking variability throughout.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	growing well with white pine, red oak, balsam fir and red maple present throughout. Both big tooth and quaking aspen present. Remnant white
	Red Maple	10	Pole	7			Isam Fir	Low	10 - 20 feet	Sapling	pine stumps throughout. comsider final harvesting stand to regenerate
	Bigtooth Aspen	65	Pole/Log	8	44	Wł	nite Pine	Medium	5 - 10 feet	Sapling	Aspen and hopefully get some new vigor established and more stems per
	Balsam Fir	5	Sapling/Pol	e 4						. 0	□ acre. retain fir along with some larger well formed oak and white pine for seed and mast □ acre. retain fir along with some larger well formed oak and white pine for □ acre. retain fir along with some larger well formed oak and white pine for □ acre. retain fir along with some larger well formed oak and white pine for □ acre. retain fir along with some larger well formed oak and white pine for □ acre. retain fir along with some larger well formed oak and white pine for □ acre. retain fir along with some larger well formed oak and white pine for □ acre. retain fir along with some larger well formed oak and white pine for □ acre. retain fir along with some larger well formed oak and white pine for □ acre. retain fir along with some larger well formed oak and white pine for □ acre. retain fir along with some larger well formed oak and white pine for □ acre. retain fir along with some larger well formed oak and white pine for □ acre. retain fir along with some larger well for the first well for the first with the first wind the first wind the first well for the first wind the first w
	White Pine	15	Pole/Sap/Lo								Seeu anu mast
	Red Oak	5	Log/Pole	10							



Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
54	4133 - Aspe	n, Mixed Pi	ine	Poletimb	er Well	49.9	56	51-80	N/A		Western part of original stand 46. Aspen stand, possibly 2 aged. Consists of scattered clones separated by smaller dbh aspen in conjunction w/
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	white pine, balsam fir, oak and red maple. Aspen is variable in terms of
	Red Maple	5	Pole	6		Wh	nite Pine	Low	5 - 10 feet	Sapling	size, quality and overall stocking. Stand is patchy in places with open
	Red Oak	10	Log/Pole	10							areas and pockets of unmerchatable aspen, specifically in central and northwest portions of stand. white pine is more concentrated in areas of
	Bigtooth Aspen	60	Pole/Log/Sa		56						stand. expand eastern boundary of stand to creek valley edge. could final
	Balsam Fir	5	Pole	6							harvest portion or all of stand to regenerate Aspen and hopefully get
	White Pine	20	Pole/Log	8							more vigor and better stocking.
56	330 - Low-I	Density Tre	es	Nonsto	cked	4.1	0 L	Jnspecified	No		Multi-part area of low density trees, consisting mainly of aspen and white pine regen. Originally part of stand 54 and may be able to merge back in next yoe if regen expands but for now density it too low. Variable quality as well, aspen is stunted. If 54 is harvested this entry or next these areas should be cut as well, maybe this will reinvigorate the regen.
57	42110 - Plai	nted Red P	ine	Poletimb	er Well	11.6	55	111-140	N/A		merge with stand 44. Red pine plantation, has not been thinned. Some
	Canopy Species	% Cover	Size Class	DBH	Age						patchy spots with low density, most notably in finger jutting off southeastern corner of stand, Some variable size. N/S finger has lower
	Red Pine	100	Pole	8	55						density than bulk of stand, consider final harvesting this portion of stand
											and 1/3 row thin the rest.
58	42110 - Pla	nted Red P	ine	Sawtimb	er Well	5.0	86	201+	N/A		Old plantation, really nice red pine. Large white pine scattered throughout
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	as well. Has been treated, Some oak in understory. trace Aspen in canopy. New stand added.
	Red Maple	2	Pole	6		Wh	nite Pine	Medium	10 - 20 feet	Sapling	ouriepy. Non stand added.
	Red Oak	2	Log	12				<u> </u>	1	'	
	White Pine	8	Log	12							
	Red Pine	88	Log	12	86						
59	4124 - Red v	vith White (Dak S	awtimber	Mediun	n 20.5	88	51-80	N/A		Oak pine stand with some variability in terms of species makeup
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	throughout, Aspen clone, small dbh in western part of stand. Overall low density, not great quality. white and red pine are filing in more open
	Red Maple	10	Pole	6		Wh	nite Pine	Medium	10 - 20 feet	Sapling	areas, lots of wildlife use.
	Red Oak	40	Log/Pole	10	88	Oa	ık (spp.)	Medium	10 - 20 feet	Sapling	
	White Oak	25	Log	10			ed Pine	Low	10 - 20 feet	Sapling	
	Bigtooth Aspen	20	Pole	8					I		
	White Pine	5	Pole	8							
60	4191 - Mixed Upla Co	and Decidue nifer	ous with	Poletimb	er Poor	2.2	58	1-50	N/A		Small stand adjacent to PVT, looks to be failed plantation in spots and naturally regenerated deciduous species evenly scattered throughout albeit in low numbers.
	Canopy Species		Size Class		Age						albeit iii low Hullibets.
	Bigtooth Aspen	25	Pole	5							
	Red Pine	40	Pole/Log	8	58						
	Red Maple	25	Log/Pole	10							
	Red Oak	10	Log/Pole	10							

10

Log

Compartment: 244 Year of Entry: 2023



Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	A Range	Managed S	ite	General Comments
61	4319 - Mixed	d Upland Fo	orest F	Poletimb	er Well	19.8	70	81-110	N/A		Variable stand, transition between red pine plantations and natural red
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	pine stands with adjacent q-type. White and red pine present with aspen and other mixed deciduous. Contains drainages going towards silver
	Red Maple	10	Pole	8			d Maple	Low	10 - 20 feet	Sapling	creek, look to be seasonal. Scattered hemlock and cedar near creeks.
	Red Oak	10	Log	13		Quaki	ing Aspen	Low	10 - 20 feet	Sapling	Some lowland areas, occasional openings. Aspen is dominant in spots
	Paper Birch	10	Pole	8		Bal	sam Fir	Low	5 - 10 feet	Sapling	with clones present.
	Balsam Fir	10	Pole	6				'	1		_
	White Pine	25	Log/Pole	10	70						
	Red Pine	10	Log	10							
	Bigtooth Aspen	25	Pole/Sapling	7							
62	42110 - Pla	nted Red P	Pine S	Sawtimb	er Well	12.2	76	141-170	N/A		Multi part stand-looks to be a planted red pine/white pine stand with some definitive rows while other areas have a more natural feel. Was
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	originally a multi-part stand coupled with stand 51 however that stand
	Red Maple	5	Pole	6		Wh	ite Pine	Low	5 - 10 feet	Sapling	looks natural with no planting record found. Could attempt to free thin
	White Pine	30	Log/Pole	10							stand, removing approximately 1/3 of overall volume with focus being on forked, suppressed or otherwise poorly formed individuals - could also
	Red Pine	60	Log/Pole	10	76						wait until stand 45 is treated again and manage at that time.
	Red Oak	5	Log	12							
63	42210 - Na	tural Red P	Pine S	Sawtimb	er Well	15.6	87	111-140	N/A		Mixed stand of red and white pine with aspen throughout. High water table in places, some wet areas, especially in western portions of stand.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Red pine is variable in size with some variability in density - parts of
	Red Maple	5	Pole	6		Bal	sam Fir	Low	5 - 10 feet	Sapling	stand are denser, smaller DBH red pine while other pockets are larger,
	Bigtooth Aspen	10	Pole	8	20	Wh	ite Pine	Low	10 - 20 feet	Sapling	more spaced out red pine - Aspen is generally heavier in this more open areas where medium stocked clones are present in conjunction with red
	White Pine	20	Pole/Log	8							pine.
	Red Pine	60	Log/Pole	10	87						
	Red Oak	5	Pole/Log	8							
64	6120 - Lo	wland Ceda	ar F	Poletimb	er Well	79.7	80	141-170	N/A		Cedar stand with multiple other lowland species present in relatively low
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size	numbers. Some openings, areas of standing water in understory along with some upland areas between drainage, especially in Southern portion
	Red Maple	5	Pole	7		Bal	sam Fir	Medium	5 - 10 feet	Sapling	of stand. some of these areas are occupied by relatively low density
	Paper Birch	3	Pole	6				'	1		Aspen poles along with larger red and white pine. Some blowdown.
	Bigtooth Aspen	10	Pole/Log	8							Occasional seeps, flowing northward. Pockets of E-type, some areas of aspen/red maple. Pockets of pole sized white pine.
	Balsam Fir	5	Pole	6							acpointed maple. I denote of pole dized winter pine.
No	orthern White Cedar	65	Pole/Log	8	80						
	White Pine	7	Log	10							
	5 . 5 .										

Red Pine

5



Stand	Level 4 C	over Type	s	ize De	nsity	Acres Stand Age E	A Range	Managed S	Site	General Comments
65	4130	- Aspen	Po	oletimb	er Well	28.4 56 L	Inspecified	N/A		growing well, fair quality and relatively uniform stocking. final harvest,
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	retain scattered red pine and white oak and maximize Aspen regen. cycle trail needs to be protected, also protect coniferous regen where possible.
	Red Maple	5	Pole	6		White Pine	Medium	10 - 20 feet	Sapling	, , , , , , , , , , , , , , , , , , , ,
	Red Oak	12	Log	10		White Oak	Low	5 - 10 feet	Sapling	Aspen/Oak stand, Many pockets more pure to aspen. Red pine more
	White Oak	5	Log/Pole	10						prevalent in central/southern parts of stand along with increase in density of white pine. Aspen growing well, minimal mortality, tall but relatively
	Bigtooth Aspen	70	Pole/Log	9	56					small dbh.
	Red Pine	5	Log/Pole	10						
	White Pine	3	Log/Pole	10						
66	6124 - Lowl	and Spruce	-Fir Po	oletimb	er Well	2.0 65	51-80	N/A		Small lowland pocket significant enough to separate from adjacent stand
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	28. Looks to be a bog with two historic drainages running eastward towards silver creek but no water present at time of inventory. Could be
	Red Maple	5	Pole/Sapling	6		Red Maple	Low	10 - 20 feet	Sapling	seasonal or when water table is higher than average. Black spruce,
	Quaking Aspen	5	Pole/Sapling	6		Balsam Fir	Low	10 - 20 feet	Sapling	balsam fir and white pine of varying sizes are dominant, stocking
	Balsam Fir	28	Pole/Sapling	5		White Pine	Low	5 - 10 feet	Sapling	relatively low but generally in the 75% canopy cover range. Some more open spots have tag alder and leatherleaf in low numbers.
	White Pine	30	Pole/Log/Sap	8		Tag Alder	Low	5 - 10 feet	Tall Shrub	open spots have tag ander and leatherfear in low numbers.
	Red Pine	2	Log/Pole	10					•	•
	Black Spruce	30	Pole	7	65					
67	6139 - Mixed	Lowland Fo	orest Po	oletimb	er Well	10.2 35	51-80	N/A		Mixed stand of small dbh red maple, aspen, balsam fir and white pine
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	with scattered overstory trees of same species. Occassional oak, mostly
	Red Maple	35	Sapling/Pole							
			Sapility/1 Ole	4	35	Balsam Fir	Medium	10 - 20 feet	Sapling	around edges, some concentrated pockets. Occasional large white pine present. Variable stand in terms of size, stocking and species
	Red Oak	20	Log/Pole	10		Balsam Fir White Pine	Medium Medium	10 - 20 feet 10 - 20 feet	_	
	Red Oak Balsam Fir	20 15							Sapling	present. Variable stand in terms of size, stocking and species
No			Log/Pole	10					Sapling	present. Variable stand in terms of size, stocking and species
No	Balsam Fir	15	Log/Pole Sapling/Pole	10 5					Sapling	present. Variable stand in terms of size, stocking and species
No	Balsam Fir rthern White Cedar	15	Log/Pole Sapling/Pole Pole/Log	10 5 8					Sapling	present. Variable stand in terms of size, stocking and species
No 68	Balsam Fir rthern White Cedar White Pine	15 5 20 5	Log/Pole Sapling/Pole Pole/Log Pole/Sap/Log Log/Pole	10 5 8 6 9					Sapling	present. Variable stand in terms of size, stocking and species composition. Mixed stand of aspen and white and red pine. Aspen is of sapling/pole
	Balsam Fir rthern White Cedar White Pine Red Pine	15 5 20 5	Log/Pole Sapling/Pole Pole/Log Pole/Sap/Log Log/Pole	10 5 8 6 9	35	White Pine	Medium	10 - 20 feet	Sapling	present. Variable stand in terms of size, stocking and species composition. Mixed stand of aspen and white and red pine. Aspen is of sapling/pole size, growing fairly well and definitely more prevalent in northern 1/2 of
	Balsam Fir rthern White Cedar White Pine Red Pine 42260 - Natural Pi	15 5 20 5	Log/Pole Sapling/Pole Pole/Log Pole/Sap/Log Log/Pole Deciduous Po	10 5 8 6 9	35 er Well	White Pine 59.8 45	Medium	10 - 20 feet N/A	Sapling Sapling	present. Variable stand in terms of size, stocking and species composition. Mixed stand of aspen and white and red pine. Aspen is of sapling/pole
	Balsam Fir rthern White Cedar White Pine Red Pine 42260 - Natural Pi Canopy Species	15 5 20 5 me, Mixed D	Log/Pole Sapling/Pole Pole/Log Pole/Sap/Log Log/Pole Deciduous Po	10 5 8 6 9	35 er Well	White Pine 59.8 45 Sub-Canopy Species	Medium 1-50 Density	10 - 20 feet N/A Avg. Height	Sapling Sapling	present. Variable stand in terms of size, stocking and species composition. Mixed stand of aspen and white and red pine. Aspen is of sapling/pole size, growing fairly well and definitely more prevalent in northern 1/2 of stand. Red and white pine is variable in size, good quality. Some large
	Balsam Fir rthern White Cedar White Pine Red Pine 42260 - Natural Pi Canopy Species Red Maple	15 5 20 5 me, Mixed D % Cover 10	Log/Pole Sapling/Pole Pole/Log Pole/Sap/Log Log/Pole Deciduous Pole/Sap/LogSize Class Pole/Sapling	10 5 8 6 9 Dletimb	35 er Well	White Pine 59.8 45 Sub-Canopy Species	Medium 1-50 Density	10 - 20 feet N/A Avg. Height	Sapling Sapling	present. Variable stand in terms of size, stocking and species composition. Mixed stand of aspen and white and red pine. Aspen is of sapling/pole size, growing fairly well and definitely more prevalent in northern 1/2 of stand. Red and white pine is variable in size, good quality. Some large

Report 7 - Stands

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Stand	d Level 4 C	over Type		Size Density	/ Acre	s Stand Age I	BA Range	Managed S	Site	General Comments
69	4133 - Aspe	en, Mixed P	ine	Poletimber W	ell 36.2	2 54		N/A		Adjacent stand harvested last yoe, regenerating well. this stand is multipart, in Northern portion small draw in center of stand that looks dry
	Canopy Species	% Cover	Size Class	DBH Ag	Sub-	Canopy Species	Density	Avg. Height	Size	but trace cedar and hemlock present, exclude if necessary from any
	Red Oak	10	Log	12		Balsam Fir	Low	10 - 20 feet	Sapling	management areas. Western portion of stand has higher concentration
	Quaking Aspen	65	Pole/Log	9 54		White Pine	Low	5 - 10 feet	Sapling	of red and white pine, especially south of snowmobile trail. This area
	White Pine	10	Log/Pole	10	١	Witch Hazel	Low	5 - 10 feet	Tall Shrub	was originally part of stand 64 but was found to be upland with a higher concentration of aspen. harvest this stand by final harvest, retain some
	Red Pine	10	Log	12		Red Maple	Low	10 - 20 feet	Sapling	larger white and red pine and a few large crowned red oak for seed and
	Red Maple	5	Pole	8						mast production. in Southern portion,, exclude sma lowland pocket. red pine and red maple are generally low in presence throughout stand. oak
										and beech in understory, expect good Aspen regen. snow trail runs through stand, focus some retention along it and use appropriate specs for protection. Western portion of original stand 58. Lower density, overall lower size and slightly less quality than eastern portion. Red oak present throughout. Aspen variable in terms of size.
70	310 - Herbac	eous Open	land	Nonstocked	l 2.4			No		low density aspen, wp, rm with gtass as groundcover.
71		- Aspen		Sapling We	_	6	Immature	N/A		Stand regenerating well with aspen dominant - remainder of regen is a mixture of white pine, cherry, red maple and some oak scattered
	Canopy Species	% Cover		DBH Ag	9					throughout. Some browse on stump sprouts but it looks as though the
	Sugar Maple	2	Pole/Log	8						aspen regen is above the browse line. Overstory retention is heaviest in eastern 1/2 of stand where hardwood concentration was higher.
	Red Maple	5	Sapling	1						eastern 1/2 of stand where nardwood concentration was higher.
	Beech	2	Sapling	1						Stand was cut in 2015 and 2016. All trees were cut except pine, sugar
	Red Oak	8	Log	12						maple, basswood and scattered oak trees marked with green paint. 'PC MIX' 61-027-13-01. This was nice quality aspen so it should regenerate
	Bigtooth Aspen	73	Sapling	1 6						very well.
	White Pine	8	Log/Pole	10						,
	Red Pine	2	Log	12						
76	4130	- Aspen		Sapling We		9 20	Immature	N/A		Aspen stand regenerating well, a bit more open in nw area of stand likely where landing was, portion of this area looks to be a maintained opening.
	Canopy Species	% Cover	Size Class	DBH Ag		Canopy Species	Density	Avg. Height	Size	scattered red pine throughout. minimal understory of scattered conifers.
	Bigtooth Aspen	98	Sapling/Pole		_	White Pine	Low	5 - 10 feet	Sapling	
	Red Pine	2	Pole	5		Balsam Fir	Low	5 - 10 feet	Sapling	
77		- Aspen		Sapling We			1-50	N/A		Small regenerating aspen clone, did not find a cutting record for stand. Dense, good quality regen, transitioning from sapling to pole. Some
	Canopy Species	% Cover		DBH Ag		Canopy Species		Avg. Height	Size	white pine in understory.
	Quaking Aspen	100	Sapling/Pole	e 4 26		White Pine	Low	5 - 10 feet	Sapling	
78	6120 - Lo	wland Ceda		Poletimber W		80	141-170	N/A		Small cedar pocket very similar in composition to stand 64. Has a small spring feeding a small creek that flows towards Silver Creek in stand 80
	Canopy Species	% Cover	Size Class	DBH Ag		Canopy Species	Density	Avg. Height	Size	before going underground, pretty sure it resurfaces just north of snow trail
	Red Maple	10	Pole	7		Balsam Fir	Medium	5 - 10 feet	Sapling	at southern edge of stand 80. Some cedar blow down, quite a bit of
	Paper Birch	5	Pole	6						wildlife activity in this small stand.
	Balsam Fir	10	Pole	6						
No	orthern White Cedar	65	Pole/Log	8 80						
	White Pine	10	Log	10						

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Stand	Level 4 Co	over Type	S	ize De	ensity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
80	4311 - Pine	e, Aspen M	ix Sa	awtimb	er Well	10.3	70	81-110	N/A		Narrow valley with upper portion of Silver Creek flowing through it. Larger
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	diameter white pine, red pine and aspen make up majority of canopy with other deciduous species present in low numbers. Generally upland
	Red Maple	10	Pole	8		Re	ed Maple	Low	10 - 20 feet	Sapling	banks with some seeps and obviously creek bottom is lowland - typed
	Red Oak	5	Log	13		Ва	alsam Fir	Low	5 - 10 feet	Sapling	upland w/ lowland. In northern tip of stand trace cedar and hemlock
	Paper Birch	5	Pole	8		WI	hite Pine	Low	5 - 10 feet	Sapling	present in transition zone to stand 41. Very scenic stand, retain long term for water quality purposes and for aesthetics. If harvest occurs in
	Balsam Fir	5	Pole	6							stand 54, buffer could be extended to further protect this stand if FISH
	White Pine	30	Log/Pole	12	70						deems appropriate.
	Red Pine	20	Log	12							
	Bigtooth Aspen	25	Log/Pole	11	70						
81	310 - Herbac	eous Openl	and	Nonst	ocked	1.5	0 U	Inspecified	No		Opening, looks to be maintained? WLD input needed.
82	42100 - Plan				er Well	3.9		111-140	N/A		Small area that was planted to white pine in the larger red pine plantation area. Slightly lower elevation, white pine is growing well with relatively
82	Canopy Species	% Cover	Size Class	DBH	er Well	Sub-Ca	nopy Species	Density	Avg. Height	Size	area. Slightly lower elevation, white pine is growing well with relatively high, uniform density throughout stand area. Retain as a small area of
82	Canopy Species Red Maple	% Cover	Size Class Pole	DB I 8	l Age	Sub-Ca	nopy Species alsam Fir	Density Low	Avg. Height 5 - 10 feet	Sapling	area. Slightly lower elevation, white pine is growing well with relatively
82	Canopy Species Red Maple White Pine	% Cover 5 78	Size Class Pole Pole/Log	DBH 8	1 Age 64	Sub-Ca	nopy Species	Density	Avg. Height		area. Slightly lower elevation, white pine is growing well with relatively high, uniform density throughout stand area. Retain as a small area of
	Canopy Species Red Maple White Pine Red Pine	% Cover 5 78 15	Size Class Pole Pole/Log Pole/Log	DBH 8 8 9	l Age	Sub-Ca	nopy Species alsam Fir	Density Low	Avg. Height 5 - 10 feet	Sapling	area. Slightly lower elevation, white pine is growing well with relatively high, uniform density throughout stand area. Retain as a small area of
	Canopy Species Red Maple White Pine	% Cover 5 78	Size Class Pole Pole/Log	DBH 8	1 Age 64	Sub-Ca	nopy Species alsam Fir	Density Low	Avg. Height 5 - 10 feet	Sapling	area. Slightly lower elevation, white pine is growing well with relatively high, uniform density throughout stand area. Retain as a small area of
	Canopy Species Red Maple White Pine Red Pine Northern Pin Oak 429 - Mixed L	% Cover	Size Class Pole Pole/Log Pole/Log Log	8 8 9 16	64 64 ber Well	Sub-Ca Ba WI	alsam Fir hite Pine	Density Low Low 51-80	Avg. Height 5 - 10 feet 5 - 10 feet N/A	Sapling Sapling	area. Slightly lower elevation, white pine is growing well with relatively high, uniform density throughout stand area. Retain as a small area of diversity amidst larger red pine plantation. Multi-part mixed stand of spruce/fir, red and white pine - oak, red maple
	Canopy Species Red Maple White Pine Red Pine Northern Pin Oak 429 - Mixed U Canopy Species	% Cover 5 78 15 2 Jpland Coni % Cover	Size Class Pole Pole/Log Pole/Log Log ffers Pole Size Class	8 8 9 16 DBH	64 64	Sub-Ca Ba Wi 9.8 Sub-Ca	inopy Species alsam Fir hite Pine 50 inopy Species	Density Low Low 51-80 Density	Avg. Height 5 - 10 feet 5 - 10 feet N/A Avg. Height	Sapling Sapling	area. Slightly lower elevation, white pine is growing well with relatively high, uniform density throughout stand area. Retain as a small area of diversity amidst larger red pine plantation.
1	Canopy Species Red Maple White Pine Red Pine Northern Pin Oak 429 - Mixed L Canopy Species Red Maple	% Cover	Size Class Pole Pole/Log Pole/Log Log fers Pole/Size Class Pole/Sapling	8 8 9 16 DBH 5	64 64 ber Well	Sub-Ca Ba Wi 9.8 Sub-Ca	alsam Fir hite Pine	Density Low Low 51-80	Avg. Height 5 - 10 feet 5 - 10 feet N/A	Sapling Sapling	area. Slightly lower elevation, white pine is growing well with relatively high, uniform density throughout stand area. Retain as a small area of diversity amidst larger red pine plantation. Multi-part mixed stand of spruce/fir, red and white pine - oak, red maple and aspen in lower numbers. Small amount of slop-over from plantation included in stand-all these areas have lower density than plantation. stand is a nice island of some upland diversity near plantation and larger
1	Canopy Species Red Maple White Pine Red Pine Northern Pin Oak 429 - Mixed U Canopy Species	% Cover 5 78 15 2 Jpland Coni % Cover	Size Class Pole Pole/Log Pole/Log Log ffers Pole Size Class	B	64 64 ber Well	Sub-Ca Ba Wi 9.8 Sub-Ca	inopy Species alsam Fir hite Pine 50 inopy Species	Density Low Low 51-80 Density	Avg. Height 5 - 10 feet 5 - 10 feet N/A Avg. Height	Sapling Sapling	area. Slightly lower elevation, white pine is growing well with relatively high, uniform density throughout stand area. Retain as a small area of diversity amidst larger red pine plantation. Multi-part mixed stand of spruce/fir, red and white pine - oak, red maple and aspen in lower numbers. Small amount of slop-over from plantation included in stand-all these areas have lower density than plantation.
86	Canopy Species Red Maple White Pine Red Pine Northern Pin Oak 429 - Mixed L Canopy Species Red Maple Red Oak Quaking Aspen	% Cover	Pole/Log Pole/Log Log fers Pole/Sapling Log/Pole Pole	B	64 64 ber Well	Sub-Ca Ba Wi 9.8 Sub-Ca	inopy Species alsam Fir hite Pine 50 inopy Species	Density Low Low 51-80 Density	Avg. Height 5 - 10 feet 5 - 10 feet N/A Avg. Height	Sapling Sapling	area. Slightly lower elevation, white pine is growing well with relatively high, uniform density throughout stand area. Retain as a small area of diversity amidst larger red pine plantation. Multi-part mixed stand of spruce/fir, red and white pine - oak, red maple and aspen in lower numbers. Small amount of slop-over from plantation included in stand-all these areas have lower density than plantation. stand is a nice island of some upland diversity near plantation and larger
86	Canopy Species Red Maple White Pine Red Pine Northern Pin Oak 429 - Mixed L Canopy Species Red Maple Red Oak	% Cover	Size Class Pole Pole/Log Pole/Log Log fers Size Class Pole/Sapling Log/Pole	B	64 64 ber Well	Sub-Ca Ba Wi 9.8 Sub-Ca	inopy Species alsam Fir hite Pine 50 inopy Species	Density Low Low 51-80 Density	Avg. Height 5 - 10 feet 5 - 10 feet N/A Avg. Height	Sapling Sapling	area. Slightly lower elevation, white pine is growing well with relatively high, uniform density throughout stand area. Retain as a small area of diversity amidst larger red pine plantation. Multi-part mixed stand of spruce/fir, red and white pine - oak, red maple and aspen in lower numbers. Small amount of slop-over from plantation included in stand-all these areas have lower density than plantation. stand is a nice island of some upland diversity near plantation and larger
86	Canopy Species Red Maple White Pine Red Pine Northern Pin Oak 429 - Mixed L Canopy Species Red Maple Red Oak Quaking Aspen	% Cover	Pole/Log Pole/Log Log fers Pole/Sapling Log/Pole Pole	B	64 64 ber Well	Sub-Ca Ba Wi 9.8 Sub-Ca	inopy Species alsam Fir hite Pine 50 inopy Species	Density Low Low 51-80 Density	Avg. Height 5 - 10 feet 5 - 10 feet N/A Avg. Height	Sapling Sapling	area. Slightly lower elevation, white pine is growing well with relatively high, uniform density throughout stand area. Retain as a small area of diversity amidst larger red pine plantation. Multi-part mixed stand of spruce/fir, red and white pine - oak, red maple and aspen in lower numbers. Small amount of slop-over from plantation included in stand-all these areas have lower density than plantation. stand is a nice island of some upland diversity near plantation and larger