

Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72249 Entry Year 2026 Acreage: 1,863

County Crawford

Management Area: Camp Grayling

Stand Examiner: Jake Halabut

Legal Description:

T28N R2W Sections 19, 20, & 21 Northwest Lovell's Township, Crawford County

Identified Planning Goals:

To provide an area that allows for National Guard training while maintaining forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment.

Soil and topography:

Upland is mainly Grayling/Rubicon sand and the lowland is Tawas Lupton muck.

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

The entire compartment is under a long-term lease agreement with the Michigan National Guard, DMA (Act 154 P.A. 1935). This agreement provides for use by the military during their encampment, with no permanent buildings or improvements to be erected. Military needs take precedence over resource management needs on long-term leased lands.

There are private residences to the south near KP Lake. Range 40 is located to the north.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Area is used for Military training.

Watershed and Fisheries Considerations:

The East Branch of the AuSable River is a designated natural river. Clear Lake has limited fishing opportunities due to winter kill situations.

Wildlife Habitat Considerations:

Outwash plain and ice contact ridges explain ecotype potential – river corridor with hemlock and white pine historically to west; red and white pine with red oak mix to east. This area makes for some nice aspen.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Coldwater Shale. There is not an economic use for the Coldwater Shale. A gravel pit is located in Section 21 and potential is good in the upland areas. None of the compartment is leased for oil and gas, as it is within the Military area. The Antrim Shale has been developed for gas production three miles to the north.

Vehicle Access:

County Road 612 (paved), Kinney Road, and Briggs Road (poor dirt roads) are county roads. The sandy conditions of trail roads, heavy military use, and hilly terrain make vehicle access very difficult on trail roads throughout the compartment.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

No designated recreational trails or facilities occur in the compartment.

Fire Protection:

Due to the hilly terrain and the sandy conditions of the roads and trails in the compartment, access is difficult for fire

suppression equipment. Some areas may not be accessible by 4-wheel drive equipment.

Additional Compartment Information:

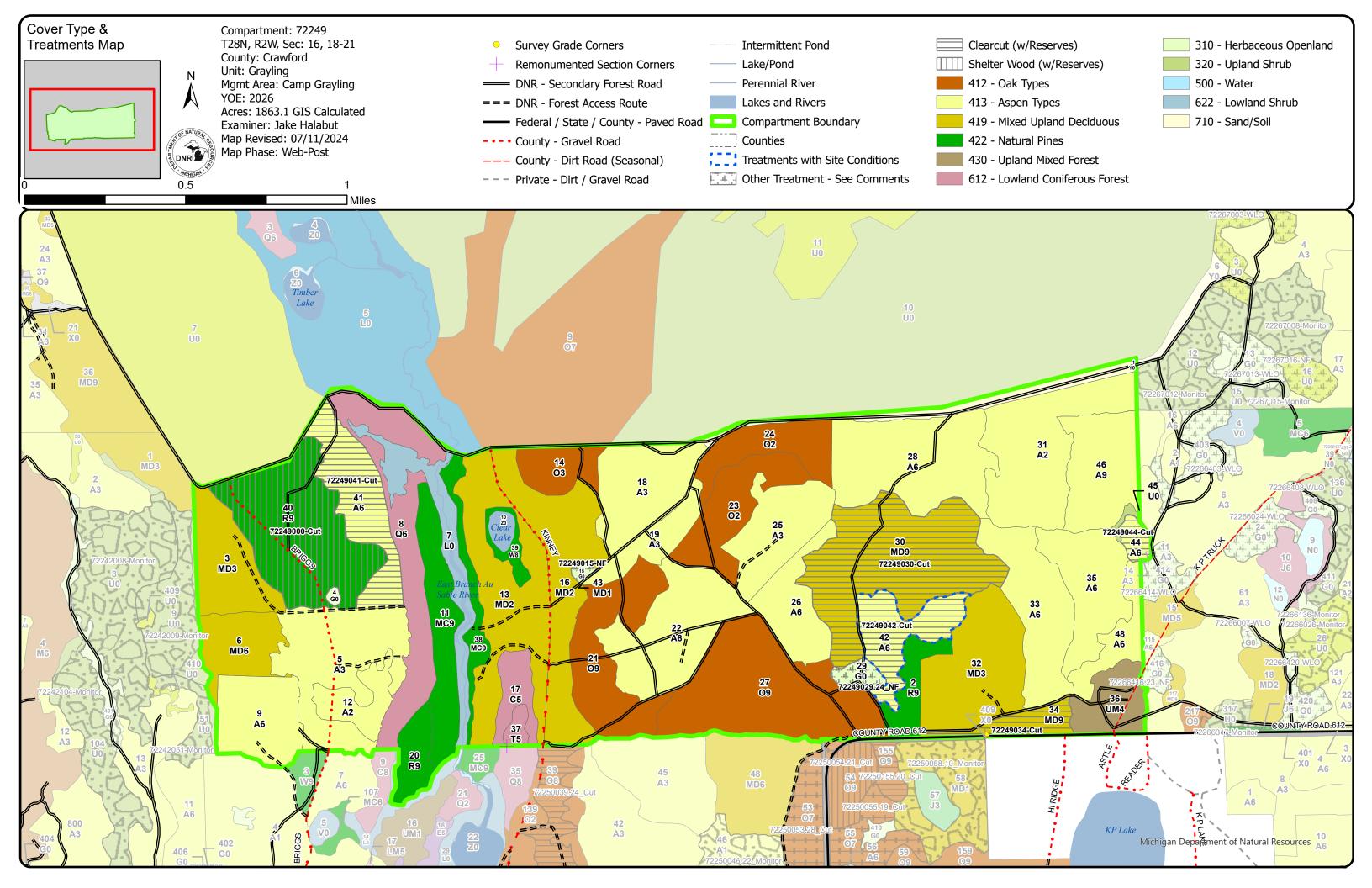
A wooden military observation tower is located in section 20 along the tank trail.

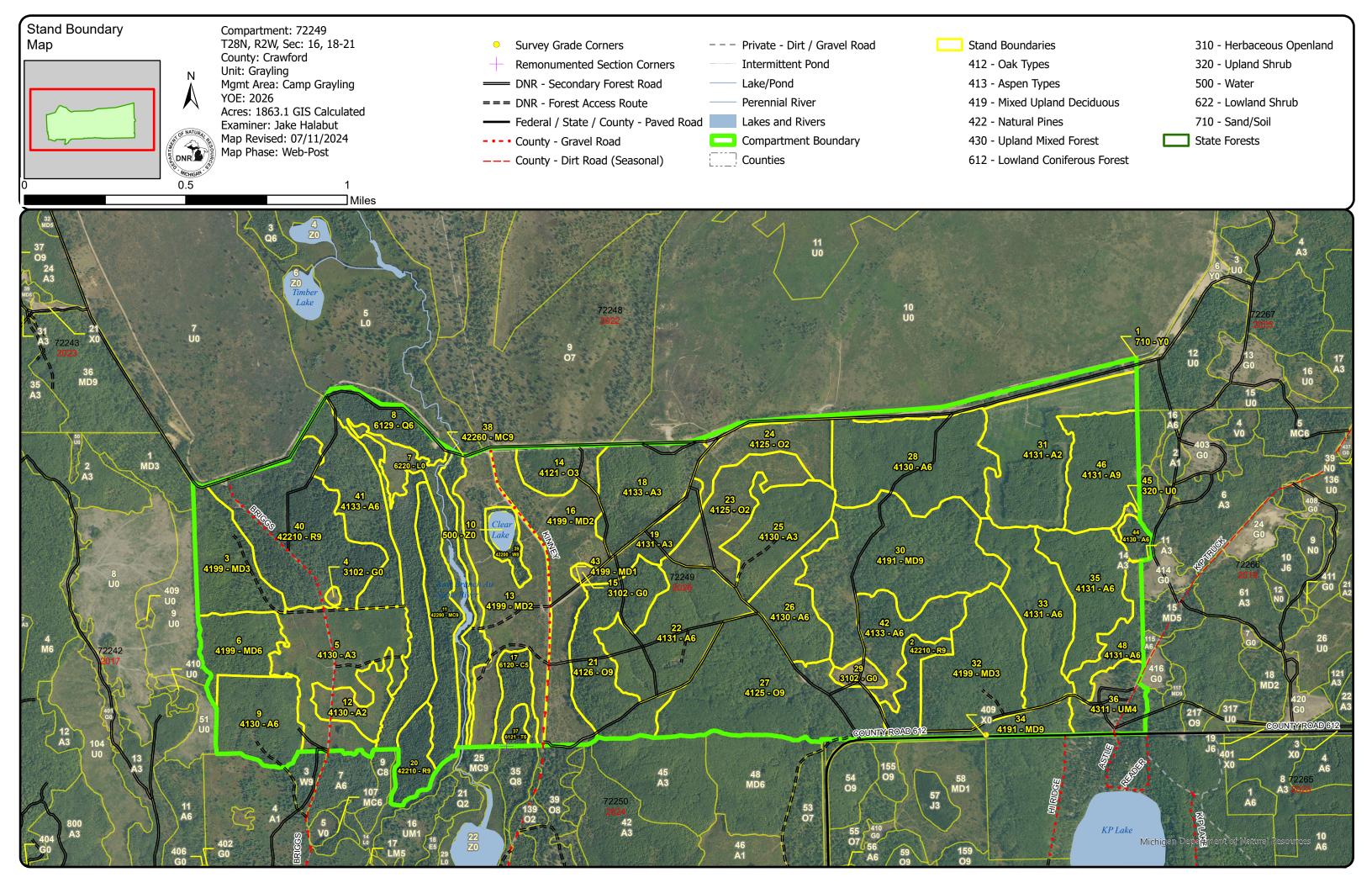
The following reports from the Inventory are attached:

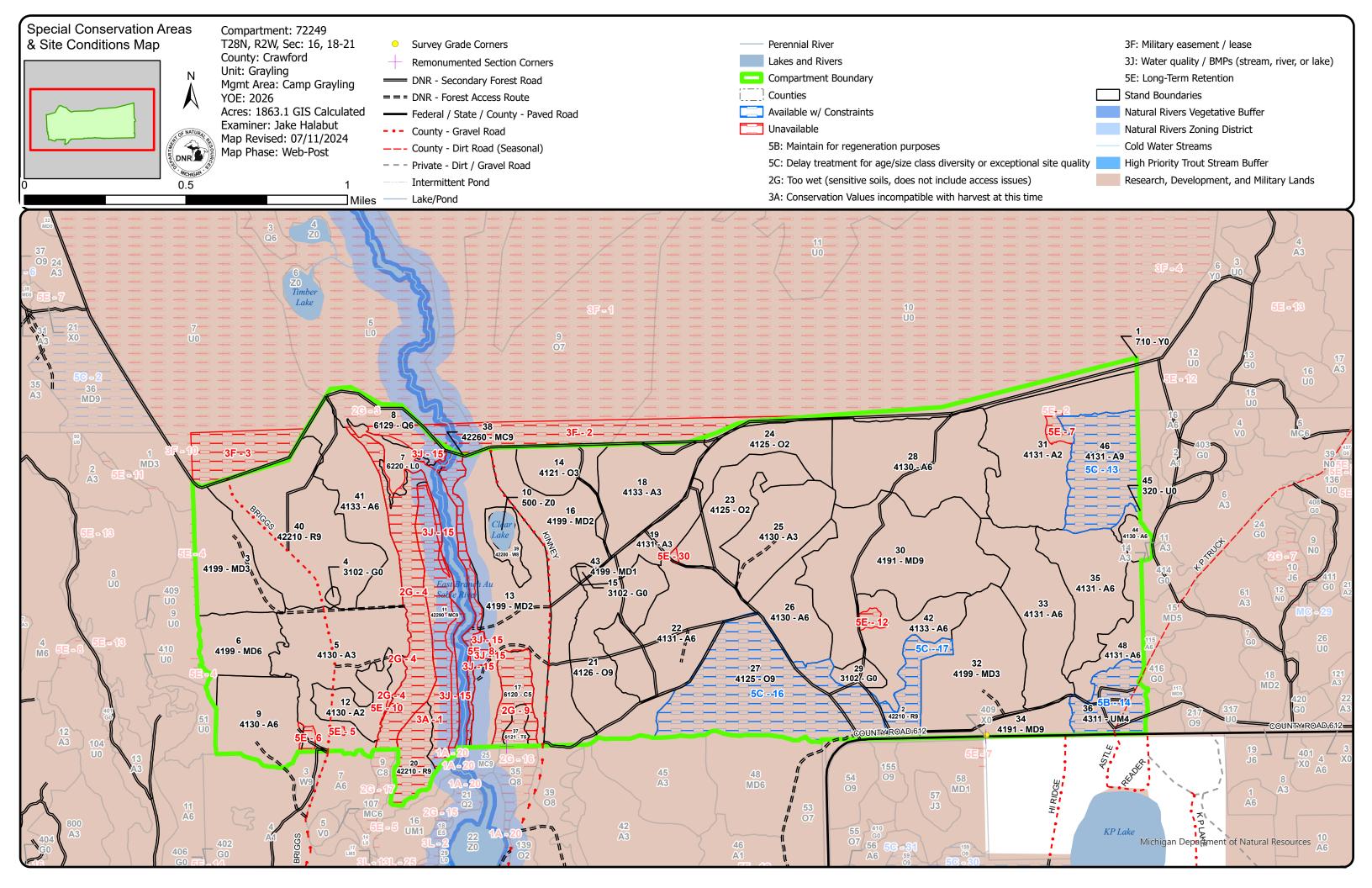
Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

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

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







Report 1 – Total Acres by Cover Type and Age Class

Grayling Mgt. Unit

Jake Halabut : Examiner

Compartment 249 Year of Entry 2026



Age Class

	Į de la serie de l		3/4	2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	P S	3 / 12	B R	3/8	3 / 6		\$ &	8 /8			N. S.	,	,	A Real	A LOS
Aspen	0	173	66	128	275	98	43	0	0	0	0	0	0	0	0	0	0	0	783
Cedar	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	16
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0	0	70
Lowland Shrub	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Mixed Upland Deciduous	0	156	111	0	0	0	31	0	0	17	113	0	0	0	0	0	0	0	428
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	18	42	0	0	0	0	0	0	0	60
Oak	0	75	0	22	0	0	0	0	60	0	106	0	0	0	0	0	0	0	263
Red Pine	0	0	0	0	0	0	0	95	0	0	36	0	0	0	0	0	0	0	131
Sand, Soil	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Tamarack	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	26
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Total	77	404	177	150	275	98	74	95	60	133	324	0	0	0	0	0	0	0	1866



Report 2 – Treatment Summary

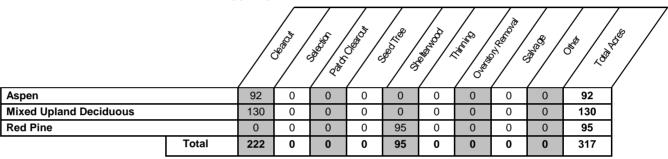
Grayling Mgt. Unit Year of Entry: 2026

Acres of Harvest

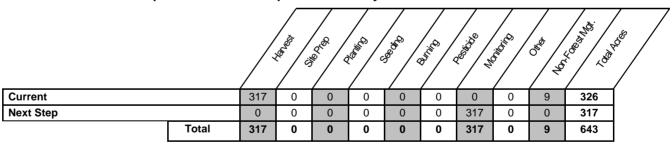
Compartment 249
Total Compartment Acres: 1,863

Commercial Harvest - 281 Harvests with Site Condition - 36 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Grayling Mgt. Unit Report 3 -- Treatments
S
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Stand

CoverType

Compartment: 249 Year of Entry: 2026

Age

Structure

Cover Type

Objective



Cut

Proposed Treatments:

Treatment

Name

а

n

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40 72249000-Cut 95.4 42210 - Natural Sawtimber 60 81-110 Harvest Shelterwood 4221 - Natural Two-Aged No Red Pine Well Red Pine

Treatment

Type

Treatment

Method

BA

Range

Prescription Clear cut with retention. Cut all species 2" and larger except for oak, and red and white pine. In the dense pockets of pine thin to ~80 sq ft, Specs: or 1/3" of basal area (whichever is the higher residual) of mixed pine (red, white) to maintain the mature pine component while attempting to

expand aspen. Try and protect sub merchantable oak within the stand in hopes of increasing oak composition.

Stand

Age

Size

Density

Next Step Monitoring, Natural Regen (Intermediate)

Acres

Treatments:

Acceptable A moderate to full stocking of mixed pine, oak, aspen, and red maple will be acceptable.

Regen:

Other Add military spec

Comment: Mark to leave drumming logs.

This will be a Variable Retention Shelterwood

Add raptor spec, what i believe to be a sharp shinned hawk nest was found at (44.810920, -84.598826). Area retention may be used to

protect this and any other potential nesting sites.

Site Condition

Proposed Start Date: 10/1 /2025

15 72249015-NF 2.0 3102 - Grass Nonstocked 0 Immatu NonForestMgt Other - Specify 310 - Herbaceous Openland

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, native

Specs: tree/shrub planting, mowing, brushing, burning and herbicide application.

Next Step Treatments:

Acceptable Regen:

Other This opening is FP 204 and is part of the DNR/NWTF WHG project.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

29 72249029.24 6.9 3102 - Grass Nonstocked Immatu NonForestMgt Other - Specify 310 - No No NF re Herbaceous Openland

Prescription | Periodic opening maintenance as needed, that may include disking, chisel plowing, stump excavation, fertilizing, food plot seeding, no-till prairie grass seeding, mowing, and herbicide application. Also could include tree and shrub planting along the perimeter.

Next Step

Treatments:

Acceptable Regen:

Other This opening is FP 214 and is part of the DNR/NWTF WHG project.

Comment:

Site Condition

Proposed Start Date: 10/1 /2025

Prescription Clearcut with standard retention. Focus retention where residual super canopy pine is more dense.

Specs:

Mark to leave other existing super canopy pine throughout stand. Residual shouldn't exceed 10 sq ft/acre. Cut all merchantable stems and

try to protect existing mixed oak advanced regen.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Moderate stocking of any mixture of aspen, oak, pine, and maple will be acceptable.

Regen:

Add military specs Other

Comment: Mark to leave drumming logs

Site Condition

Proposed Start Date: 10/1 /2025

S t		Grayling	Mgt. Unit		Compartmen Year of Entry	DNR DURAL PROPERTY OF NATURAL PROPERTY OF NATU					
a n Treatr d Nan		Acres	Stand CoverType		Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
42 722490	042-Cut	36.0	4133 - Aspen, Mixed Pine	Poletimber Well	r 55	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
Prescription Specs:								ocket of pine in the 15 sq ft of Basal Ar		. Mark to retair	n super
Next Step Treatments:		ring, Natura	al Regen (Interme	diate)							
Acceptable Regen:	Modera	ate stock of	a mix of aspen a	nd pine as m	ajor co	mponent	s, and maple and	d oak as minor con	nponents.		
Other Comment:	Estima	ted retention	on island drawn in	MiFi but can	chang	je as pain	ted in.				
<u>comment.</u>		ilitary specs umming log									
Site Condition	on Lor	ıg-Term Re	tention								
Proposed St	art Date	<u>:</u> 10/1 /202	25								
44 722490	044-Cut	6.7	4130 - Aspen	Poletimber Well	r 55	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
Prescription Specs:	Clearc	ut without re	etention due to the	e small acrea	age bei	ng cut. C	ut all stems 2" a	nd larger.			
Next Step Treatments:	Monito	ring, Natura	al Regen (Interme	diate)							
Acceptable Regen:	Modera	ate stocking	g of a mixture of a	spen, oak, re	ed map	le, and pi	ne will be accep	table.			
Other Comment:	Add m	ilitary spec.									
Site Condition	<u>on</u>										

Total Treatment 325.9 Acreage Proposed:

Proposed Start Date: 10/1 /2025

Compartment: 249

Grayling Mgt. Unit

Jake Halabut : Examiner Year of Entry: 2026

Availa	ability for	Managemen	t										
Total	Acres	Acres Avail	Acres	I	Domina	nt Site	Con	dition	s				
Acres	Available	With Condition	Not Available		5B	5C	1A	2G	ЗА	3F	3J	5E	ed
769	711	48	9	Aspen		48		0		0		9	0
16	0	0	16	Cedar				16					
10	10	0	0	Herbaceous Openland									
70	1	0	69	Lowland Conifers				60			9	0	
36	33	0	2	Lowland Shrub				2			1		
428	427	0	0	Mixed Upland Deciduous				0			0	0	
60	1	0	59	Natural Mixed Pines			0	0	33		21	4	
263	156	106	1	Oak		106						1	
131	95	18	18	Red Pine		18			18				
24	24	0	0	Sand, Soil						0			
5	0	0	5	Tamarack				5					
27	0	27	0	Upland Mixed Forest	27								
2	2	0	0	Upland Shrub									
5	5	0	0	Water									
7	7	0	0	White Pine									
1,850	1,472	199	178	Total Forested Acres	27	173	0	83	51	0	31	13	0
	80%	11%	10%	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.

1 Unava		A: Conservation Values compatible with harvest	51	Linappoiitied			
		at this time		Unspecified	Unspecified	Unspecified	Unspecified
Comments	s:						
2 Unava	ailable 3	BF: Military easement / lease	46	1A: Federal/State/Local Law	Unspecified	Unspecified	Unspecified
Comments		range, no access.					

Report 4 – Site Conditions

Grayling Mgt. Unit

Jake Halabut : Examiner

3	Unavailable	lease		1A: Federal/State/Local Law	Unspecified	Unspecified	Unspecified
	Comments: Range 40 air to gro	ound range, no access.					
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	48	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
		ed along a portion of the au sable e stand occupied by spruce spe				is stand for treatment in th	e north end. There is
5	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
8	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Retention around d	ispersed camping site.					
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

Report 4 – Site Conditions

Grayling Mgt. Unit

Jake Halabut : Examiner

10	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
11	Unspecified	Unspecified	0				
C	Comments:						
12	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	48	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
14	Available	5B: Maintain for regeneration purposes	27	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
15	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	31	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Ausable River, Nat	ural River buffer.					
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	106	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						

Report 4 – Site Conditions

Grayling Mgt. Unit

Compartment: 249 Year of Entry: 2026 Jake Halabut : Examiner

17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						
30	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						

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				

Grayling Mgt. Unit Compartment: 249
Year of Entry 2026



Report 6 - EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

Conservati Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen condition stocked trout populations and those of other coldwater fish specific conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	es to persist from year to year. Suitable by are relatively deep, have substantial the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish speci 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	Research and Military Areas	These areas provide facilities and lands specifically dedicated fo include the 5,847 acre Forest Fire Experiment Station, the 12,00 Area, the Beaver Islands Archipelago Wildlife Research Area (th High and Hog Islands, all state owned land on Beaver, South Fo Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Re Nursery, and over 144,000 acres of Military Lands.	0 acre Houghton Lake Wildlife Research at includes most of Garden Island, all of x and North Fox Islands), the Cusino
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from sp approved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 10	Zoning District is a 400 foot buffer for

t 7 – Stands Compartment: 249 Year of Entry: 2026 DNR DNR DNR

Stand	Level 4 Co	over Type	S	ize De	nsity	Acres	Stand Age	BA Range	Managed	Site	General Comments
1	710 - S	Sand, Soil		Nonst	ocked	23.5	0	Immature	No		Road and open area adjacent to range 40. Sporadic clumps of poor quality aspen seedlings/saplings can be found dispersed within the stand.
						Sub-Ca	nopy Species	Density	Avg. Height	Size	quality aspert seediirigs/sapiirigs carr be found dispersed within the stand.
						Quak	ing Aspen	Low	>20 feet	Sapling	
						Bigto	oth Aspen	Low	>20 feet	Sapling	
						Pap	oer Birch	Low	>20 feet	Sapling	
						Mixe	d Grasses	High	Unspecified	Non-Wood	
							eet Fern	High	5 - 10 feet	Tall Shrub	
							ck Cherry	Low	5 - 10 feet	Sapling	
							d Knapweed	Medium	Unspecified	Non-Wood	
						Re	d Maple	Trace	< 5 feet	Sapling	
2	42210 - Nat	tural Red P	ine Sa	awtimb	er Wel	l 18.2	91	51-80	N/A		This stand appears to have previously been treated with a species removal, where all pine and some oak was retained. No cutting records
C	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	have been found to get an exact age or treatment. Quaking aspen quality
	Jack Pine	5	Pole	5		Northe	ern Pin Oak	Medium	Variable	Sapling	is low and basal area in the dense aspen pockets is sparse. The pine
Q	Quaking Aspen	25	Pole/Log	8	55	Re	d Maple	Medium	Variable	Sapling	pockets have quaking aspen scattered throughout, and mortality of the aspen is moderate throughout the stand. Good advanced oak regen
	Red Pine	60	Log/Pole/XLog	12	91	Quak	ing Aspen	Medium	Variable	Sapling	throughout the aspen dominated pockets, whereas it was mostly shaded
No	orthern Pin Oak	5	Log/Pole	10	91	Ja	ck Pine	Low	Variable	Sapling	out under the pine. Some large diameter pine, including legacy potential
	White Pine	5	Pole	6		Wh	nite Pine	Low	Variable	Sapling	red pine are scattered throughout (20"+).
3	4199 - Other Mixe	d Upland D	eciduous S	Sapling	g Well	43.1	14	1-50	N/A		PARVHA. Stand was cut in 2009, 72-625-06-01. Stand has decent regen coming in the understory. Some steep terrain throughout the
C	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	stand.
	Red Oak	5	Log	13	78	Northe	ern Pin Oak	High	Variable	Sapling	
	Red Maple	35	Sapling/Pole	3	14	Re	d Maple	High	Variable	Sapling	Records indicate this was supposed to be a final harvest but was then switched to having minor retention in the form of approximately ten basil
	/Red (Hybrid) Oak	45	Sapling	2	14						area of oak as a seed tree. This retention is not consistent throughout the
	Paper Birch	10	Pole	6							stand and is primarily along some of the slopes and consist of the nicer
	Beech	5	Sapling	2							formed oak that existed in the parent stand. There are some evidence of oak seating in as well as expected, stump sprouting of red maple and
											oak.
4	3102	- Grass		Nonsto	ocked	1.3		Immature	No		grassy opening. Military Firing Point
						Sub-Ca	nopy Species	Density	Avg. Height	Size	
						Ja	ck Pine	Trace		Sapling	
						Sw	eet Fern	Medium	< 5 feet	Tall Shrub	
						Blac	ck Cherry	Low	>20 feet	Pole	
						Mixe	d Grasses	Full	Unspecified	Non-Wood	
5	4130	- Aspen	;	Sapling	g Well	75.0	5	Immature	N/A		Stand was harvested under 72-630-16 Briggs Mix TS. Stand is looking
			Sizo Closs	2001	l Age						really good, regen is vigorous and well over head height. Continue monitoring to see how the stand progresses.Previous comment:
C	Canopy Species	% Cover	Size Class	DRE	Aye						
	Canopy Species Bigtooth Aspen	% Cover	Sapling	1	5						(PARVHA.)
В				1 1							



Stand	Stand Level 4 Cover Type Size Den					Acres Stand Age BA Range Managed Site					General Comments				
6	4199 - Other Mixe	d Upland D	Deciduous Po	oletimb	er Well	31.0	50	51-80	N/A		Old Comment: (PARVVB/AFO Soils)				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Previous inventory indicated poor quality Aspen, deteriorating within the				
	Red Maple	30	Pole/Log	9	50	Wh	nite Pine	Low	Variable	Sapling	stand.				
	Red Oak	26	Log/Pole/XLog	13	86	E	Beech	High	5 - 10 feet	Sapling	However, I found one small clone of Aspen along the westside. Which				
	Red Pine	3	Log	14		Re	d Maple	High	Variable	Sapling	should have likely been captured with the adjacent timber sale to the west. This Stand primarily consists of b beach, red maple and oak with				
	White Pine	3	Log	12		Northe	ern Pin Oak	Low	Variable	Sapling	minor components of of sugar, maple and aspen. Paper birch while				
	Paper Birch	5	Pole/Log	9							abundant in the parent stand has began to deteriorate rapidly along with				
	Beech	23	Pole/Log	9	50						the beech as Beech Bark Disease is present in the stand. That said, there are some beech stems that are holding up well. Also, there are				
	Bigtooth Aspen	5	Log/Pole	10	50						some nice recruited poles of sugar maple in this stand; though they are				
	Sugar Maple	5	Pole	6							exhibiting varying levels of top mortality. The oak is more prevalent throughout the east side of the stand, along the ridge and slope.				
7	6220 - A	lder/willow		Nonsto	cked	35.5	U	nspecified	No		Tag alder stand that also encompasses the East Brand of the Au Sable				
						Sub-Ca	nopy Species	Density	Avg. Height	Size	River. Density varies throughout stand, with dense mixed conifer along the edges. An old, decrepit bridge or crossing of some sort, has fallen				
						Ва	Isam Fir	Low	>20 feet	Pole	into the river and is no longer present. Though it is visible within the river,				
						Wh	nite Pine	Low	>20 feet	Pole	river corridor.				
						Ва	Isam Fir	Low		Sapling					
						Blac	k Spruce	Low	>20 feet	Pole					
						Ta	g Alder	Medium		Tall Shrub					
			Northern White Cedar Low Seeding												
8	6129 - Mixed Conife	erous Lowl	and Forest Po	oletimb	er Well	69.7	86	51-80	N/A		Lots of balsam fir, tag alder is mixed throughout stand as well. Excellent				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	wildlife value in this stand. Cedar is patchy throughout stand, balsma is pretty uniformly spread throughout. Standing water is appears through				
No	rthern White Cedar	45	Pole/Log	8	86	Re	d Maple	Low	Variable	Sapling	most of the stand.				
	White Pine	5	Log/Pole	11		Ва	lsam Fir	High	Variable	Sapling					
	Red Maple	5	Pole	7		Та	g Alder	High	Variable	Tall Shrub					
	Balsam Fir	35	Pole	7							•				
	Black Spruce	10	Pole	7											
9	4130	- Aspen	Po	oletimb	er Well	42.7	33	1-50	N/A		Stand was cut in 1987. Stand is a mix of bigtooth and quaking aspen, primarily being bigtooth. Overall, the stand is doing fairly well,				
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	though there is variability in terms of quality and diameter. They stand as				
1	Northern Pin Oak	5	Pole/Sapling	5	33	E	Beech	Low	Variable	Sapling	a whole is just beginning to reach merchantability. Reassess next				
	White Pine	5	Sapling	3		Northe	ern Pin Oak	Low	Variable	Sapling	inventory cycle but likely won't be ready till the following.				
	Paper Birch	10	Sapling/Pole	4	33	Wh	nite Pine	Low	Variable	Sapling					
	Bigtooth Aspen	60	Pole/Sapling	5	33	Re	ed Pine	Low	Variable	Sapling					
	Quaking Aspen	20	Pole/Sapling	5	33										
10 500 - Water Nonstocke					cked	4.6	U	nspecified	No		Clear Lake. Appears to be an access point with a dispersed campsite on the ESE side of the lake.				

Report 7 – Stands

DEPARTME	DNR	へ
100	MICHIGAN	7

Compartment: 249

Year of Entry: 2026

tand	Level 4 Cover Type			Size Density		Acres	Stand Age	BA Range	Managed \$	Site	General Comments	
11	42290 - Natu				er Well	42.1	99	111-140	N/A		Old comments from Scott McClarren: QD cruise implemented during 2024 YOE inventory with adjacent stand 15 of comp 250 to the south.	
	Canopy Species		Size Class		Age		opy Species		Avg. Height	Size	Stand is isolated by the Ausable River and a lowland cedar swamp	
	Balsam Fir	4	Pole	6			sam Fir	High	Variable	Sapling	surrounding.	
E	Bigtooth Aspen	9	Log/Pole	10			k Spruce	Trace	Variable	Sapling	Natural mixed pine stand. Stand was previously treated at some time bu	
	Hemlock	2	Log/Pole	10			ite Pine	Low	Variable	Sapling	no cutting records are found at the office. Old access appears to be from	
	Paper Birch	2	Pole	8		He	emlock	Low	Variable	Sapling	the east through a dilapidated, no longer existing bridge or crossing. Old	
	Red Maple	14	Log/Pole	10		He	emlock	Low	>20 feet	Pole	skid trails that extend north/south confirm the likely crossing point. Stan is unique with large diameter red and white pine, as well as some pole	
	White Pine	33	Log/Pole/XLog	12		He	emlock	Low	>20 feet	Log	and log sized hemlock found in the eastern extent of the norther portion	
	Red Pine	35	Log/XLog	16	99	Red	d Maple	Medium	Variable	Sapling	of this stand. The	
	Black Spruce	1	Log/Pole	10								
12	4130	- Aspen	Sa	apling N	/ledium	19.9	5	Immature	N/A		Stand was harvested under 72-630-16 Briggs Mix. Stand is regenerating	
	Canopy Species	% Cover	Size Class	DBH	Age						well, not as much pine has seeded in yet but there is evidence of some regenerating. Aspen is looking pretty good although slightly more spotty	
Е	Bigtooth Aspen	60	Sapling	1	5						than adjacent stand 5. Otherwise, oak and maple are also starting to fill	
Ν	orthern Pin Oak	10	Sapling	1	5						in. Consider merging this stand into stand 5 if both progress similarly;	
	Red Maple	15	Sapling	1	5						leaving separately for now.	
	Balsam Fir	5	Sapling	1	5						Previous comment: (PARVHA.)	
	White Pine	10	Sapling	1	5						,	
13	4199 - Other Mixe Canopy Species	% Cover	Size Class	DBH	/ledium Age	82.7	5	Immature	N/A		Stand harvested under contract 72-624-15, Air to Ground Oak. Bounda excluded retention around wet areas. Although red maple was not included in the list of acceptable regeneration for this stand, since the	
	Jack Pine	3	Sapling	1							objective cover type was Mixed Upland Deciduous, i did decide to inclu	
	White Pine	5	Sapling/Pole	2							it as 'acceptable'. Regen is looking good. The western leg down to the south is lacking some regen, and is bare in spots. This is likely due to tl	
	orthern Pin Oak	42	Sapling	1	5						added cover provided to deer for increased browse activity.	
(Quaking Aspen	30	Sapling	1	5							
	Red Maple	20	Sapling	1	5							
14	4121 - C	ak, Aspen	;	Sapling	Well	21.6	28	Immature	N/A		Quite a bit of variability in the diameter diameter in the stand.	
	Canopy Species	% Cover	Size Class	DBH	Age						Predominantly still roughly 2 to 3 inches for all stems. However, there a trace Pole sized oak and Aspen, and not sure if those were left as	
	Jack Pine	10	Sapling	3							retention. Otherwise the stand is progressing well saw reaching roughly	
Ν	orthern Pin Oak	60	Sapling/Pole	3	28						that twenty foot mark for height and looks to be dense.	
Е	Bigtooth Aspen	30	Sapling/Pole	3							Previous comment: (stand was cut in 1996. Good regeneration, oak	
											stump sprouts. Steep terrain throughout stand.)	
15	3102	- Grass		Nonsto	cked	2.0	0	Immature	No		Appears to be an old landing.	
						Sub-Can	opy Species	Density	Avg. Height	Size		
						Jac	ck Pine	Low	10 - 20 feet	Sapling		
						Spotted	Knapweed	Medium	Unspecified	Non-Wood		
					Į.							
							et Fern	Medium	< 5 feet	Tall Shrub		
						Swe		Medium Trace	< 5 feet 10 - 20 feet	Tall Shrub Sapling		



Stand	Level 4 C	over Type		Size De	ensity	Acres	Stand Age E	BA Range	Managed Site		General Comments		
16	4199 - Other Mixe	d Upland D	eciduous	Sapling I	Medium	73.1	5	Immature	N/A		Stand harvested under contract 72-624-15, Air to Ground Oak. Oak is		
	Canopy Species	% Cover	Size Class	DBH	l Age						stump sprouting well, while aspen is regenerating equally. Although, the aspen component is more prominent in the northern portions of the		
N	Northern Pin Oak	50	Sapling	1	5						stand. Where it is more oak/red maple composition to the south. Could		
	Red Maple	20	Sapling	1	5						have been a product of the parent stand composition prior to		
	Quaking Aspen	30	Sapling	1	5						harvest. Previous note prior to harvest: (PARVHA. Similar stand as		
		1			, , , , , , , , , , , , , , , , , , ,						13, just does not have the lowland conifer component. Poor quality an old aged oak. It is starting to decline.)		
17	6120 - Lo	wland Ceda	ar P	oletimbe	r Medium	n 16.0	83	51-80	N/A		Lowland conifer stand. Good mix of cedar, spruce, fir, aspen, and red		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	maple. A few larger diameter supercanopy white and red pine exist, primarily along the upland edges of the stand. Excellent wildlife value.		
	Black Spruce	15	Pole/Log	9		Re	d Maple	Low	Variable	Sapling	Stand appears to be wet most of the year, as evidence by the presence		
Nor	rthern White Cedar	50	Log/Pole	11	83	Ва	lsam Fir	High	Variable	Sapling	of black spruce and the abundance of tag alder in the understory. Lots of		
	White Pine	5	Log/Pole	13		Та	marack	Low	Variable	Sapling	snowshoe hare sign. Cedar is dense in some areas (~100 ba).		
	Red Pine	2	Log	14		Blac	k Spruce	Medium	Variable	Sapling			
	Tamarack	10	Pole/Log	9		Ta	ng Alder	Medium	Variable	Tall Shrub			
	Quaking Aspen	3	Pole	6							•		
	Balsam Fir	10	Pole	8									
	Red Maple	5	Log/Pole	10									
18	4133 - Aspe	en, Mixed P	ine	Sapling Well		50.3	28	Immature	N/A		Stand was cut in 1996. Stand is looking pretty good, dense with regen		
	Canopy Species	% Cover	Size Class	DBH	l Age						and most of the stems are exceeding the 20 foot mark. Stems still require diameter in order to meet merchantability. However, there are some Pole		
١	Northern Pin Oak	40	Sapling/Pol	e 4							sized red pine along the northern edge. Not sure if these were left as		
	Jack Pine	15	Sapling	3							retention or not.		
	Red Pine	5	Pole/Log	8							Old comments: Research area located in the north part of the stand.		
	Quaking Aspen	40	Sapling/Pol	e 4	28						University of Michigan established three plots during the summer of		
											1997. A wooden military observation tower is located in the stand. I do not believe that the research area is still active.		
19	4131 - A	spen, Oak		Saplin	g Well	21.6	16	Immature	N/A		Stand was harvested under tsale contract #726020601. Sale was completed in 2008. has since regenerated nicely. Lots of oak regen		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	working its way past the browse line. Few residual larger white and red		
	Red Pine	2	Pole/Log/Sa	ap 6			ck Cherry	Medium	5 - 10 feet	Sapling	pine potentially left from the previous timber sale; the size of these		
١	Northern Pin Oak	40	Sapling/Pol	e 3	16	Wh	nite Pine	Low	< 5 feet	Sapling	residual are pole/log.		
	Jack Pine	10	Sapling	1		Re	ed Pine	Low	< 5 feet	Sapling			
	Quaking Aspen	46	Sapling/Pol		16	Ja	ck Pine	Low	5 - 10 feet	Sapling			
	White Pine	2	Log/Pole	10									

t 7 – Stands Compartment: 249 Year of Entry: 2026

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Stand	d Level 4 Co	vel 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		ite	General Comments						
20	42210 - Nat	ural Red F	Pine Sa	awtimb	er Well	17.8	99	111-140	N/A		Stand was previously included in adjacent southern compartment 72250.
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Was inventoried by Scott McClarren in 2022 using QD plots, along with stand 11. Due to the geographic location of the stand in conjunction with
	Jack Pine	3	Log	12		Н	emlock	Low	>20 feet	Log	stand 11, there is high likelihood these two stands are treated together if
	Red Pine	60	Log/Pole/XLog	12	99	Re	d Maple	Medium	Variable	Sapling	they are ever treated. However, access issues will still play a key role in
	White Pine	20	Log/Pole/XLog	12		Ва	lsam Fir	High	Variable	Sapling	the management of these two stands. Old evidence and aerial imagery indicates this was harvested at one point, but no records indicate when.
	Balsam Fir	4	Pole	6		Blac	ck Spruce	Trace	Variable	Sapling	There are old skid trails present in both stands and remnants of an old
	Red Maple	8	Log/Pole	11		Wł	nite Pine	Low	Variable	Sapling	bridge crossing in Stand 11 over the Au Sable river to the east.
	Quaking Aspen	5	Log/Pole	10		Н	emlock	Low	>20 feet	Pole	
						Н	emlock	Low	Variable	Sapling	
21	4126 - White, E	Black, N. P	in Oak Sa	awtimb	er Well	59.9	74	51-80	N/A		Stand is doing pretty well overall and the oak is still holding on fairly well
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	at this point. There are some pockets of aspen mortality found along the midslope of this stand; as it spans along a North/South ridge with smaller
	Bigtooth Aspen	17	Pole/Log	8		Northe	ern Pin Oak	Low	Variable	Sapling	fingers of ridges running East/West. Pockets of pine can be found on the
	White Pine	3	Pole	5		R	ed Pine	Low	Variable	Sapling	smaller E/W ridges. 18 plots were recorded for an average of 58 sq
Bla	ck/Red (Hybrid) Oak	40	Log	11	74	Wh	nite Pine	Low	Variable	Sapling	ft/acre of basal area.Old Notes: PARVHA. Decent quality oak. It is up on a hill so the soils must be a bit better. Very little in the understory.
	White Oak	30	Log/Pole	10	71						Steep terrain throughout stand.
	Red Pine	10	Pole/Log	8							
22	4131 - A	spen, Oak	Po	oletimb	er Well	67.4	33	1-50	N/A		Old Comment: (PARVHA. Stand was cut in 1987). Stand is doing
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	well and is progressing nicely. It is just beginning to develop into a pole stand with still a lot of variability in terms of diameter and basil area
	White Pine	5	Sapling	3			nite Pine	Low	Variable	Sapling	distribution. That said it's looking good. There is even some oak
	White Oak	10	Pole/Sapling	5		Servicebe	erry (Juneberry)	Low	5 - 10 feet	Sapling	advanced region persisting in the understory, although there is still a fair
	Red Maple	10	Pole/Sapling	5			d Maple	Medium	5 - 10 feet	Sapling	amount below browse height.
	Bigtooth Aspen	60	Pole/Sapling	6	33	Wit	ch Hazel	Medium	5 - 10 feet	Tall Shruk	
ı	Northern Pin Oak	15	Pole/Sapling	6		WI	nite Oak	Medium	Variable	Sapling	
						Oa	ak (spp.)	Medium	Variable	Sapling	
23	4125 - Blac	k, N. Pin C	Dak Sa	pling l	Medium	42.1	5 I	mmature	N/A		There is still some stunted growth in the area where the wildfire burned
	Canopy Species	% Cover	Size Class	DBH	l Age						through a portion of the stand, but is rebounding nicely. There are some steeper hills in this stand.
	Bigtooth Aspen	20	Sapling	1	5						steeper fills in this stand.
ı	Northern Pin Oak	60	Sapling	1	5						Old Comments: (Stand harvested under contract 72-624-15, Air to
	Red Maple	20	Sapling	1	5						Ground Oak. Portion of this stand was burn in May of 2018 from a wildfire, area burned has a site condition on it.) Stand is progressing
	· · · · · · · · · · · · · · · · · · ·		<u> </u>								nicely.
24	4125 - Blac	k, N. Pin C	Dak Sa	pling l	Medium	32.6	5 I	mmature	N/A		Stand harvested under contract 72-624-15, Air to Ground Oak.Stand is
	Canopy Species	% Cover	Size Class	DBH	l Age						looking pretty good, with fairly vigorous stump sprouting occurring between the oak and red maple. Red maple was not included in the
ı	Northern Pin Oak	60	Sapling	1	5						acceptable regenerating species; however, due to the target cover type
	Bigtooth Aspen	20	Sapling	1							(Mixed Upland Deciduous) I am including it. Aspen regen is also coming
	Red Maple	20	Sapling	1							in really well, in some areas better than others. Overall, stand is progressing well.
											Old Comment: (stand has some steep terrain, borders range 40).
											one commonic (ordine has some steep terrain, porders range 40).



Stand Level 4 Co	Cover Type		Cover Type		Size Density		y Acres Stand Age BA Rang		A Range	Managed S	iite	General Comments
25 4130	4130 - Aspen			Sapling Well		ng Well 44.3		44.3 15 lmi		N/A		Stand was harvested under tsale contract #726020601. Sale was
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	completed in 2008. Stand is progressing nicely. Some oak is still struggling to get above browse height in certain areas of the stand but		
Red Maple	30	Sapling	2	15	Blac	k Cherry	Low	5 - 10 feet	Sapling	this is primarily the portion of the stand that burnt over.		
Quaking Aspen	20	Sapling	2	15								
Northern Pin Oak	10	Sapling	2	15								
Bigtooth Aspen	40	Sapling	2	15								
26 4130	- Aspen	F	Poletimb	er Wel	33.7	36	1-50	N/A		Stand was cut in 1987. Regen is good quality. Filling in nicely. Stand is		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	just reaching merchandability, but it's still quite variable. In terms of size and basal area; continue holding and reassess in another ten years.		
White Pine	3	Pole/Sapling	5		Re	d Maple	Low	Variable	Sapling	and baser area, continue notating and reassess in another ten years.		
Bigtooth Aspen	60	Pole/Sapling	6	36	Northe	rn Pin Oak	Low	5 - 10 feet	Sapling			
Red Maple	10	Sapling/Pole	4		Bigto	oth Aspen	Low	Variable	Sapling			
Northern Pin Oak	7	Sapling/Pole	4		Quak	ing Aspen	Low	Variable	Sapling			
Quaking Aspen	20	Pole/Sapling	5	36			,			-		
27 4125 - Blac	k, N. Pin O	ak S	Sawtimb	er Wel	106.4	92	81-110	N/A		Timber sale 72-010-96-01, Oak Regeneration Block cut by Georgia-		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	maple species removal was prescribed.		
Red Maple	10	Pole	5		Re	d Maple	Medium	>20 feet	Pole	' '		
Bigtooth Aspen	5	Pole/Log	8		Re	ed Pine	Medium	Variable	Sapling	Stand is variable in terms of basal area distribution and understory advanced regeneration. Which make sense given the previous harvest		
Northern Pin Oak	70	Log/Pole	12	92	Re	d Maple	Medium	Variable	Seeding	history. Advanced regen pockets of Aspen and red maple exist in areas		
Black/Red (Hybrid) Oak	3	Log/Pole	11		Servicebe	rry (Juneberry)	Medium	5 - 10 feet	Sapling	where the oak was previously thinned harder and is free to grow. The		
White Oak	12	Pole/Log	9		Northe	rn Pin Oak	Medium	Variable	Sapling	northern half in particular is much more thinned, almost gives more of an appearance of a shelterwood versus the southern half. Otherwise, red		
					Wh	ite Pine	Low	Variable	Sapling	maple primarily dominates the under and mid story throughout the stand		
					Quak	ing Aspen	Medium	Variable	Sapling	from stump sprouting. Oak decline within the stand is apparent. It is hard		
					Wh	nite Oak	Medium	>20 feet	Pole	to argue against doing a stand restart and seeing if aspen of better		
					Ja	ck Pine	Low	< 5 feet	Sapling	quality then oak also comes back.		
					Northe	ern Pin Oak	Medium	>20 feet	Pole			
28 4130	- Aspen	F	Poletimb		83.4	36	1-50	N/A		PARVVB. Aspen regen, decent quality. Some oak growing up with it.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	Aspen is looking progressing well. Could benefit from another 10 years o		
Northorn Din Ook	2	Conlina	2	00	N.L. and L. a	mn Din Ook	Low	10 20 foot	Conling	and the same of th		

10 - 20 feet

10 - 20 feet

5 - 10 feet

< 5 feet

Low

Medium

Medium

Low

Sapling

Sapling

Sapling

Sapling

Northern Pin Oak

Red Maple

Bigtooth Aspen

Quaking Aspen

3

7

40

50

Sapling

Pole/Sapling

Pole/Sapling

Pole/Sapling

2 36

5

7

6

36

36

36

Northern Pin Oak

Red Maple

Black Cherry

Beech

still variable throughout the stand.

putting on diameter. Red Maple advanced origin has significantly

outcompeted oak which is still persisting some in the midstory. Any oak

paper Birch is also found in trace amounts. Basal area and diameter are

that is having success can be found along edges of the stand, where



Stand	tand Level 4 Cover Type				nsity	Acres	Stand Age I	BA Range Managed Site		Site	General Comments
29	3102	- Grass		Nonsto	cked	6.9		Immature	Managed C	pening	Firing Point 214, scrubby black cherry sprouts are slowly beginning to
						Sub-Car	nopy Species	Density	Avg. Height	Size	encroach and fill in the stand.
						Blac	k Cherry	Medium	< 5 feet	Sapling	
						Wh	ite Pine	Trace	>20 feet	Log	
						Sw	eet Fern	Medium	< 5 feet	Tall Shrub	
						Mixe	d Grasses	Full	Unspecified	Non-Wood	
						Quak	ing Aspen	Trace	>20 feet	Pole	
						Northe	rn Pin Oak	Trace	10 - 20 feet	Sapling	
						Spotted	d Knapweed	Medium	Unspecified	Non-Wood	
30	4191 - Mixed Upla Co	and Decidu	ous with	Sawtimb	er Well	113.0	91	51-80	N/A		Very mixed stand. Looks like at one point in time a species removal may have been done but cannot locate any cutting record. Vast areas of
(Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	mixed oak that has veins of aspen scattered throughout. A good amount of stump sprouted red maple and oak can be found in the mid-
	Paper Birch	3	Pole	5		Wite	ch Hazel	High	5 - 10 feet	Tall Shrub	understory. There are some very nice large diameter Red Pine scattered
C	Quaking Aspen	29	Log/Pole	10		Re	ed Pine	Low	>20 feet	Sapling	throughout the stand. Aspen varies in quality/size/diamtere throughout
	White Pine	5	Pole	6		Northe	rn Pin Oak	Full	Variable	Sapling	stand. Understory is fairly dense between regen and witch hazel.
	Jack Pine	5	Pole	5		Ja	ck Pine	Low	Variable	Sapling	Due to the fair amount of decline among the aspen and oak, coupled with
	Balsam Fir	3	Sapling/Pole	4			ing Aspen	Medium	Variable	Sapling	the impact of the Air to Ground Fire in 2018, the basal areas recorded for
No	orthern Pin Oak	45	Log	10	91	Wh	ite Pine	Low	Variable	Sapling	this stand are low. In some areas of this stand, snags and blow down are overwhelming. ~50-60 sq ft of basal area.
31	4131 - A	spen, Oak	S	Sapling N	/ledium	78.2	2	Immature	N/A		Stand cut 2022, KP Trail Mix #72-629-16.
(Canopy Species	% Cover	Size Class	DBH	Age						Stand is coming back pretty well. There are dense pockets where the
No	orthern Pin Oak	20	Sapling	1	2						aspen is regenerating really well, and others where red maple is
В	Bigtooth Aspen	50	Sapling	1	2						dominating. Oak is evenly spread out throughout and is lagging behind
	White Pine	5	Sapling	1	2						the other species. Would like to see the aspen more consistent throughout the stand but overall happy with the progress of the stand two
	Red Maple	25	Sapling	1	2						years post harvest.
32	4199 - Other Mixe	d Upland D	eciduous	Sapling	Well	68.0	15	Immature	N/A		Stand history: Tsale #726020601 Wounded Knee Aspen/Oak.
(Canopy Species	% Cover	Size Class	DBH	Age						Completed 1-12-2009.
C	Quaking Aspen	30	Sapling	3	15						Stand is looking good and filling in nicely. There are some larger pine
No	orthern Pin Oak	35	Sapling	3	15						found in the stand, cutting record indicate they were retention left. Overall
	Red Maple	20	Sapling	3	15						stand is progressing well.
	Red Pine	5	Pole/Log	8							PARVVB Soils.
	White Pine	10	Pole	5							

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Stand	Level 4 Co	over Type	Size Density A			Acres	Acres Stand Age BA Range			Site	General Comments	
33	4131 - A	spen, Oak	Po	oletimb	er Well	57.0	57.0 27		N/A		Stand clear cut in 1996. Stand is looking pretty good as about half of the	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	stems are just reaching merchantability. The stand alternates between denser pockets of either Aspen or oak with red maple scattered	
1	Northern Pin Oak	30	Pole/Sapling	5		Northe	rn Pin Oak	Medium	5 - 10 feet	Sapling	throughout the stand.	
	Red Maple	20	Pole/Sapling	5		Wite	ch Hazel	Medium	5 - 10 feet	Tall Shrub		
	Bigtooth Aspen	40	Pole/Sapling	5	27	Re	d Maple	Medium	5 - 10 feet	Sapling		
	Quaking Aspen	5	Pole/Sapling	5								
	White Pine	5	Pole/Sapling	6								
34	4191 - Mixed Upla Co	and Decidud Inifer	ous with Sa	awtimb	er Well	16.7	81	51-80	N/A		Small stand right along CR 612, was probably left when stand to the north was cut for visual along the road. Stand is just getting into log	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	class. Quality is decent, has some white oak in the stand so the site must be a little better than normal.	
	Red Maple	15	Pole	6		Re	d Maple	Low	Variable	Sapling	must be a little better triair normal.	
١	Northern Pin Oak	45	Log/Pole	10	81	Re	ed Pine	Low	Variable	Sapling	Stand is looking pretty good and has overall graduated into log class. Pin	
	Red Pine	10	Pole	6		Wh	ite Pine	Low	Variable	Sapling	oak is predominant log size as well as the big tooth Aspen. White oak is mostly Pole with some log size sticks. Minor component of white and red	
	White Pine	10	Sapling/Pole	4		Northe	rn Pin Oak	Low	Variable	Sapling	pine, predominately on the West side of the stand. Mortality in both the	
	White Oak	10	Pole/Log	9							oak and aspen is apparent throughout the stand. Decent oak regen in the	
	Jack Pine	10	Sapling/Pole	4							understory, unsure of stand age at this time.	
											9 plots recorded for an average of 75 sq ft of basal area.	
35	4131 - A	spen, Oak	P	oletimb	er Well	47.6	38	1-50	N/A		Previous comment: (PARVHA). This stand was harvested in 86-87 as part of Spencer's Folly Block Timber Sale. Aspen and oak are doing well,	
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	as the stems are mostly just becoming merchantable. Continue to	
	Red Maple	20	Sapling/Pole	4	38	Quak	ing Aspen	Low	< 5 feet	Seeding	monitor the stand and reassess again next inventory cycle.	
	Bigtooth Aspen	40	Pole/Sapling	5	38	Re	d Maple	Medium	>20 feet	Sapling		
1	Northern Pin Oak	25	Pole/Sapling	5	38		rn Pin Oak	Medium	Variable	Sapling		
	Quaking Aspen	5	Sapling/Pole	4	38	Wite	ch Hazel	High	5 - 10 feet	Tall Shrub		
	White Oak	10	Pole/Sapling	5	38	Black/Red	d (Hybrid) Oak	Low	>20 feet	Sapling		
						Re	d Maple	Medium	< 5 feet	Seeding		
36	4311 - Pine	e, Aspen M	ix Po	oletimb	er Poor	26.5	90	1-50	N/A		Stand harvested in 2017, KP Trail Mix, #72-629-16.	
	Canopy Species	% Cover	Size Class	DBH	Age						All red pine was retained during this treatment. Which lead to a	
	Jack Pine	15	Sapling	1	6						considerable amount of retention. Aspen, pine, and oak are coming in	
	Red Pine	33	Pole/Log/Sap	9	90						nicely where seedlings are free to grow. Regeneration is slightly less in	
											areas where pine is more concentrated. Red pine is only considered the	
1	Northern Pin Oak	20	Sapling	1	6						dominant species until the aspen fills in more.	

7 - Stands Compartment: 249 Year of Entry: 2026

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Stand	d Level 4 C	over Type	Size Density			Acres	Stand Age B		e Managed Site		General Comments			
37	6121 -	Tamarack	Pole	timbe	r Medium	n 4.7	83	51-80	N/A		There is a packet of tamarack in the couthern portion of the stand			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Can	nopy Species	Density	Avg. Height	Size	There is a pocket of tamarack in the southern portion of the stand. roughly 40-60 BA with dense tag/BF understory. ~4.5ac in size. This			
	Black Spruce	5	Pole/Log	9		Bal	sam Fir	High	Variable	Sapling	stand was previously part of stand 17 but was large enough and of pu			
	Tamarack	90	Pole/Log	9	83	Black	k Spruce	Medium	Variable	Sapling	tamarack to be delineated.			
	Balsam Fir	5	Pole/Sapling	6		Tar	marack	Low	Variable	Sapling				
						Tag	g Alder	Medium	Variable	Tall Shrub				
						Red	d Maple	Low	Variable	Sapling				
38	42260 - Natural Pi	ne, Mixed D	Deciduous Sa	wtimb	er Well	17.6	80	81-110	N/A		Adjacent stand harvested under contract 72-624-15, Air to Ground Oak.			
	Canopy Species	% Cover	Size Class	DBH	l Age						Boundary excluded retention around wet areas. This is the BMP retention left to protect the East Branch of the Ausable River. The northern extent			
	Red Maple	10	Log/Pole	10	5						falls into the river valley a little more, introducing more balsam and			
	White Pine	35	Log/Pole/XLog	10	80						spruce into the stand. Also, there is an old dilapidated crossing of the			
	Balsam Fir	5	Pole/Sap/Log	7							East Branch of the Ausable River that once existed, where the main roac comes through off Kinney Rd to this stand.			
	Red Pine	25	Log/Pole/XLog	12	80						comes through on remies real to this stand.			
	Northern Pin Oak	5	Log/Pole	10	5						Old Notes: (Stand has a lot of older oak that is starting to decline. Also			
	Quaking Aspen	20	Log/Pole	10	55						of the large red pine aged out over 100 years. Stand gets lower as you get closer to the river and the balsam density increases.)			
39	42200 - Natu	ural White F	Pine Sawi	timbe	Medium		85	51-80	N/A		of the large red pine aged out over 100 years. Stand gets lower as you			
	42200 - Natu Canopy Species	ural White F	Pine Sawi	timber	Medium	Sub-Can	nopy Species	Density	Avg. Height	Size	of the large red pine aged out over 100 years. Stand gets lower as you get closer to the river and the balsam density increases.) This is the retention buffer left around Clear Lake as a result of Timber Sale: 72-624-15, Air to Ground Oak.			
	42200 - Natu Canopy Species White Pine	ural White F % Cover 65	Pine Sawi Size Class Log/Pole	timber DBH	Medium	Sub-Can Wh	nopy Species ite Pine	Density Medium	Avg. Height Variable	Sapling	of the large red pine aged out over 100 years. Stand gets lower as you get closer to the river and the balsam density increases.) This is the retention buffer left around Clear Lake as a result of Timber Sale: 72-624-15, Air to Ground Oak. Mixture of log and pulp sized white surrounding Clear Lake, while there is			
	42200 - Natu Canopy Species White Pine Jack Pine	ural White F % Cover 65 5	Pine Sawl Size Class Log/Pole Pole/Log	DBH 10 8	Medium	Sub-Can Wh	nopy Species	Density	Avg. Height		of the large red pine aged out over 100 years. Stand gets lower as you get closer to the river and the balsam density increases.) This is the retention buffer left around Clear Lake as a result of Timber Sale: 72-624-15, Air to Ground Oak. Mixture of log and pulp sized white surrounding Clear Lake, while there is more structure in the area left south of Clear Lake. It appears to be low,			
	42200 - Natu Canopy Species White Pine Jack Pine Red Pine	ural White F **Cover 65 5 10	Pine Sawl Size Class Log/Pole Pole/Log Log/Pole	DBH 10 8 10	Medium	Sub-Can Wh	nopy Species ite Pine	Density Medium	Avg. Height Variable	Sapling	of the large red pine aged out over 100 years. Stand gets lower as you get closer to the river and the balsam density increases.) This is the retention buffer left around Clear Lake as a result of Timber Sale: 72-624-15, Air to Ground Oak. Mixture of log and pulp sized white surrounding Clear Lake, while there is more structure in the area left south of Clear Lake. It appears to be low, like a depression, but doesn't appear to be wet. As there is a mix of spruce and jack pine also present there. There is a dispersed			
	42200 - Natu Canopy Species White Pine Jack Pine Red Pine Tamarack	ural White F % Cover 65 5 10 3	Pine Sawl Size Class Log/Pole Pole/Log Log/Pole Pole	DBH 10 8 10 8	Medium Age 85	Sub-Can Wh	nopy Species ite Pine	Density Medium	Avg. Height Variable	Sapling	of the large red pine aged out over 100 years. Stand gets lower as you get closer to the river and the balsam density increases.) This is the retention buffer left around Clear Lake as a result of Timber Sale: 72-624-15, Air to Ground Oak. Mixture of log and pulp sized white surrounding Clear Lake, while there is more structure in the area left south of Clear Lake. It appears to be low, like a depression, but doesn't appear to be wet. As there is a mix of spruce and jack pine also present there. There is a dispersed campground found on the East side of the lake with access off Kinney			
39	42200 - Natu Canopy Species White Pine Jack Pine Red Pine Tamarack White Spruce	ural White F % Cover 65 5 10 3 15	Pine Sawi Size Class Log/Pole Pole/Log Log/Pole Pole Pole/Log	DBH 10 8 10 8 8	Medium Age 85	Sub-Can Wh	nopy Species ite Pine	Density Medium	Avg. Height Variable	Sapling	get closer to the river and the balsam density increases.) This is the retention buffer left around Clear Lake as a result of Timber Sale: 72-624-15, Air to Ground Oak. Mixture of log and pulp sized white surrounding Clear Lake, while there is more structure in the area left south of Clear Lake. It appears to be low, like a depression, but doesn't appear to be wet. As there is a mix of spruce and jack pine also present there. There is a dispersed			
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39	42200 - Natu Canopy Species White Pine Jack Pine Red Pine Tamarack White Spruce Northern Pin Oak	ural White F % Cover 65 5 10 3 15 2 tural Red P	Pine Sawi Size Class Log/Pole Pole/Log Log/Pole Pole Pole/Log Log/XLog	DBH 10 8 10 8 15 wtimb	Medium Age 85 85 85	Sub-Can Wh Bals	ite Pine sam Fir	Density Medium Low	Avg. Height Variable Variable	Sapling	of the large red pine aged out over 100 years. Stand gets lower as you get closer to the river and the balsam density increases.) This is the retention buffer left around Clear Lake as a result of Timber Sale: 72-624-15, Air to Ground Oak. Mixture of log and pulp sized white surrounding Clear Lake, while there is more structure in the area left south of Clear Lake. It appears to be low, like a depression, but doesn't appear to be wet. As there is a mix of spruce and jack pine also present there. There is a dispersed campground found on the East side of the lake with access off Kinney Road. Stand is a mixture of dense areas of predominately red pine with pockets of quaking aspen found throughout. Red pine appears to be natural, is o			
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39	42200 - Natu Canopy Species White Pine Jack Pine Red Pine Tamarack White Spruce Northern Pin Oak 42210 - Natu Canopy Species Quaking Aspen	ural White F % Cover 65 5 10 3 15 2 tural Red P % Cover 20	Pine Sawl Size Class Log/Pole Pole/Log Log/Pole Pole Pole/Log Log/XLog ine Sa Size Class Pole/Sap/Log	DBH 10 8 10 8 15 Wtimb	Medium Age 85 85 85 er Well	Sub-Can Wh Bals 95.4 Sub-Can Jac Wh	ite Pine sam Fir 60 nopy Species ck Pine	Density Medium Low 81-110 Density Low	Avg. Height Variable Variable N/A Avg. Height Variable	Sapling Sapling Size Sapling	of the large red pine aged out over 100 years. Stand gets lower as you get closer to the river and the balsam density increases.) This is the retention buffer left around Clear Lake as a result of Timber Sale: 72-624-15, Air to Ground Oak. Mixture of log and pulp sized white surrounding Clear Lake, while there is more structure in the area left south of Clear Lake. It appears to be low, like a depression, but doesn't appear to be wet. As there is a mix of spruce and jack pine also present there. There is a dispersed campground found on the East side of the lake with access off Kinney Road. Stand is a mixture of dense areas of predominately red pine with pockets of quaking aspen found throughout. Red pine appears to be natural, is of pretty decent quality, and is dense in areas (>120 sq ft/acre). Log sized			
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Stand	and Level 4 Cover Ty		S	ize De	ensity	Acres	Stand Age B	A Range	Managed S	Site	General Comments	
41	4133 - Aspe	en, Mixed P	rine Po	oletimb	er Well	49.2	47	1-50	N/A		Stand was harvested under 72-630-16. Stand is comprised of poor	
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	quality and stocking of primarily quaking aspen with scattered mixed pine (jack/red/white). There is advanced regen of pin oak scattered throughou	
	Quaking Aspen	70	Pole/Sapling	7	47	Quak	ing Aspen	Medium	Variable	Sapling	the stand as well as mixed red and white pine. The Aspen is extremely	
	White Pine	10	Pole/Log/Sap	7		Ва	Isam Fir	Low	Variable	Sapling	variable in regard to diameter as there are pockets of 3 to 5 inch and	
	Red Pine	10	Log/XLog	15	60	Wh	nite Pine	Medium	Variable	Sapling	pockets of 7 to 8 inch diameter trees. While the quality is poor the stand does appear to be holding on at this time despite some mortality.	
	Jack Pine	10	Pole	7		Re	ed Pine	Low	Variable	Sapling	does appear to be finding of at this time despite some mortality.	
						Ja	ck Pine	Low	Variable	Sapling	old comments: PARVHA. Poor quality aspen. Good access to stand.	
						Blac	ck Cherry	Medium	5 - 10 feet	Sapling		
						Northe	ern Pin Oak	Medium	>20 feet	Sapling		
42	4133 - Aspe	en, Mixed P	ine Po	oletimb	er Well	36.0	55	51-80	N/A		This stand appears to have previously been treated with a species	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	removal, where all pine and some oak was retained. No cutting records	
	Quaking Aspen	65	Pole/Log	8	55		nite Pine	Low	Variable	Sapling	have been found to get an exact age or treatment. Quaking aspen quality is low and basal area in the dense aspen pockets is sparse. The pine	
1	Northern Pin Oak	5	Log/Pole	10	91	Ja	ck Pine	Low	Variable	Sapling	pockets have quaking aspen scattered throughout, and mortality of the	
	Jack Pine	5	Pole	5		Quak	ing Aspen	Medium	Variable	Sapling	aspen is moderate throughout the stand. Good advanced oak regen throughout the aspen dominated pockets, whereas it was mostly shaded	
	Red Pine	20	Log/Pole/XLog	12			d Maple	Medium	Variable	Sapling	out under the pine. Some large diameter pine, including legacy potential	
	White Pine	5	Pole	6		Northe	ern Pin Oak	Medium	Variable	Sapling	red pine are scattered throughout (20"+).	
43	4199 - Other Mixe	d Upland D	eciduous (Sapling	Poor	0.0	5 I	mmature	N/A		Stand harvested under contract 72-624-15, Air to Ground Oak. Oak is	
	Canopy Species	% Cover			l Age						stump sprouting well, while aspen is regenerating equally. Although, the aspen component is more prominent in the northern portions of the	
1	Northern Pin Oak	50	Sapling	1	5						stand. Where it is more oak/red maple composition to the south. Could	
	Red Maple	20	Sapling	1	5						have been a product of the parent stand composition prior to	
	Quaking Aspen	30	Sapling	1	5						harvest. Previous note prior to harvest: (PARVHA. Similar stand as 13, just does not have the lowland conifer component. Poor quality and	
											old aged oak. It is starting to decline.)	
44	4130	- Aspen	Po	oletimb	er Well	6.7	55	51-80	N/A		Stand was initially lumped in with \$35. This is an older quaking/big tooth	
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	aspen stand that has had quite a bit of mortality involved with it. Aspen should have been cut likely last inventory cycle, but since it was lumped	
	Quaking Aspen	80	Log/Pole	11	55	Northe	ern Pin Oak	Low	Variable	Sapling	in with the larger stand that was not ready for treatment, this one went	
	Red Maple	10	Pole	6		Blac	ck Cherry	High	5 - 10 feet	Sapling	untouched. Estimated age via increment bore of two separate quaking	
	Bigtooth Aspen	10	Pole/Log	8	55	Wit	ch Hazel	Low	5 - 10 feet	Tall Shrub	aspen is 55-60 years of age and old aerial imagery aligns with this estimate.	
						Quak	ing Aspen	Low	< 5 feet	Seeding		
						Re	d Maple	Medium	>20 feet	Sapling	6 plots were taken with an average basal area of 68 sq ft.	
45	320 - Up	land Shrub	ı	Nonst	ocked	1.8	0		No		This stand consists of an old gravel pit in the northern portion of the	
					Г	Sub-Car	nopy Species	Density	Avg. Height	Size	stand. The rest of it is slowly filling in with some aspen and shrubby blac	
							cken Fern	High		Non-Wood	cherry/oak from adjacent stands. This is likely an area that just hasn't filled in potentially due to recreational use in conjunction with the gravel	
							ern Pin Oak	Trace	5 - 10 feet	Tall Shrub	pit. Wonder if potentially harvesting adjacent stand(s) would spur aspen	
							d Grasses	High	Unspecified	Non-Wood	to further fill in this opening.	
							ring Aspen	Low	>20 feet	Pole		
					-		ck Cherry	High	5 - 10 feet	Tall Shrub		
						שום	on Onloney	1 11911	3 101001	. an ornar	1	



Stand	Level 4 C	Level 4 Cover Type		Size Density Sawtimber Well		Acres	Stand Age B	A Range	Managed S	Site	General Comments	
46	4131 - A	Sa	48.3			48	51-80	N/A		Stand was cut in the Mid 70s with adjacent S31 as part of a larger block.		
C	anopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	Stand looks pretty good. Some of the aspen is reaching saw size, while the oak has likely been saw sized since last inventory cycle. Red maple	
Qı	uaking Aspen	7	Pole	7		Black/Re	ed (Hybrid) Oak	Low	>20 feet	Sapling	has also made its way into the overstory, with tons of stump sprouted	
Biç	gtooth Aspen	43	Pole/Log	8	48	Qual	king Aspen	Low	< 5 feet	Seeding	advanced regen in the mid story. Some terrain does exist as a N/S ridge	
Nor	rthern Pin Oak	30	Log/Pole	10	48	Wi	tch Hazel	High	5 - 10 feet	Tall Shruk	runs along the western portion of this stand. Previous inventory comments categorized this stand as: PARVHA.	
	Red Maple	20	Pole/Log	8		Re	ed Maple	Medium	>20 feet	Sapling	Comments categorized this stand as. I ARVITA.	
					North	ern Pin Oak	Medium	Variable	Sapling	13 Plots were taken for an average of 65 sq ft of basal area.		
						Re	ed Maple	Medium	< 5 feet	Seeding		
48	4131 - A	Aspen, Oak	Po	oletimb	er Well	20.5	27	1-50	N/A		Stand clear cut in 1996. Stand is looking pretty good as about half of the	
C	anopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	stems are just reaching merchantability, but the overall quality of the stand gets better in the southern part. The norther portion sort of falls	
	Red Maple	15	Pole/Sapling	5		North	ern Pin Oak	Medium	5 - 10 feet	Sapling	along a ridge, with poorly stocked and poor quality quaking aspen stems	
,	White Pine	5	Pole/Sapling	6		Re	ed Maple	Medium	5 - 10 feet	Sapling	mostly found here. Here you'll find a lot of variability in the stem	
Nor	rthern Pin Oak	25	Pole/Sapling	5		Bla	ck Cherry	Medium	5 - 10 feet	Sapling	diameters due to the stocking. The southern part is where you'll find a small inclusion of bigtooth aspen.	
Qı	uaking Aspen	45	Pole/Sap/Log	5	27				1	1	a small moldolon of biglooth dopon.	
Big	gtooth Aspen	10	Pole/Sapling	5	27							