DNR MICHIGAN

Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72238 Entry Year 2021 Acreage: 1,798

County Crawford

Management Area: Camp Grayling

Revision Date: 2019-07-09

Stand Examiner: Joan Charlebois

Legal Description:

T27N R3W Sections 23, 26, 35

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:

The terrain is primarily outwash plains on Grayling sand, with one steep ridge paralleling the south side of Jones Lake Road. Graycalm-Grayling sands occur on some of the rolling terrain, and AuSable-Bowstring mucks underlay the East Branch of the AuSable River's floodplain.

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

State land within the compartment is either owned by the Military Board or is under the long-term lease agreement L-1479 (P.A. 154,1935) with the Michigan National Guard, DMVA for purposes of military training. On these lands, military needs take precedence over resource management activities. The DNR will coordinate all prescribed activities with the National Guard to ensure that they are compatible with military training needs. Private ownership along the river and Jones Lake Road in Section 23 consists of small tracts with a mix of seasonal and year-round residences, in addition to an RV campground. Hartwick Pines State Park lands are located to the north in Section 14.

Unique Natural Features:

The East Branch of the AuSable River cuts through a corner of the compartment. There is the potential for rare species to be associated with the AuSable River, upland openings, and areas of young jack pine.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

The compartment is a Special Conservation Area (SCA), falling within the Research, Development and Military Lands category. Approximately 1,100 acres of the compartment are within the Military's fenced Range 30 Complex. The East Branch of the AuSable River is also a designated High Conservation Value Area (HCVA).

Watershed and Fisheries Considerations:

The East Branch of the AuSable River, a high priority cold water trout stream and Natural River, crosses through a corner of the compartment.

Wildlife Habitat Considerations:

Specific wildlife habitat management activities are limited by access and military training, however, a broad range of species utilize the available grasslands, upland shrub, jack pine, oak and aspen cover types.

Mineral Resource and Development Concerns and/or Restrictions

Two active, state-owned sand/gravel pits are located one mile to the east, and there is good potential for sand & gravel within the compartment. There is no current or past oil & gas production in the area, no wells have been drilled within three miles of the compartment, and there is no history of mineral leasing within the compartment. Oil & gas potential within the compartment is considered low at this time. There is no known metallic mineral potential in this part of the state. The state does not own all mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

The north and south ends of the compartment are accessible by county roads, including Jones Lake, Karen Lake, Peters and North Down River Roads. The Range 30 Complex is fenced, with access limited to Military vehicles.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

The compartment does not contain any designated recreational trails or facilities. The compartment is adjacent to Hartwick Pines State Park.

Fire Protection:

A cleared fuelbreak is maintained outside of the Range fence. The Range is periodically burned to reduce fuel loads. Water sources for fire suppression include nearby river crossings on Bobcat Trail, Wilcox Bridge Road and the Tank Access Trail

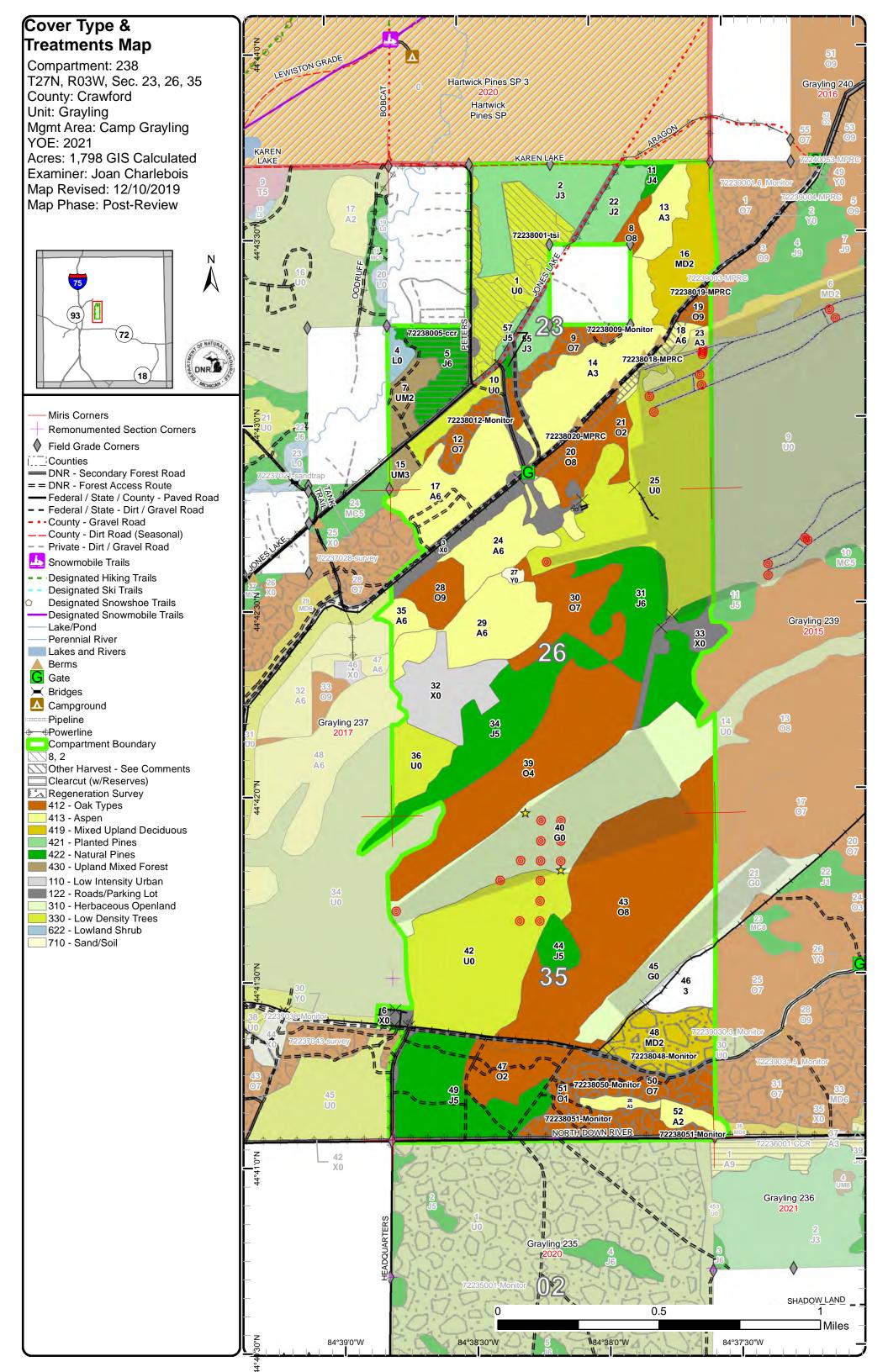
Additional Compartment Information:

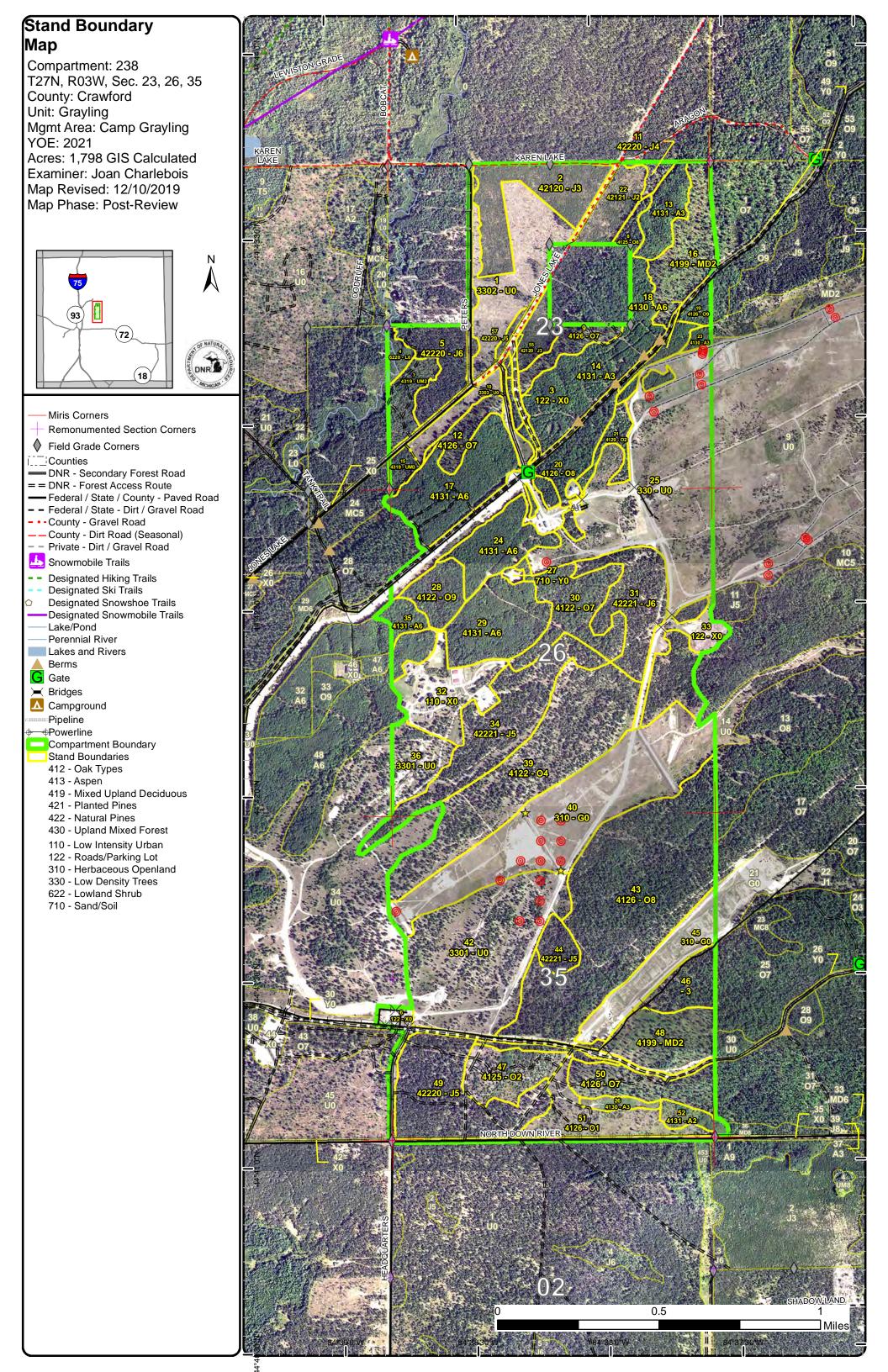
The following reports from the Inventory are attached:

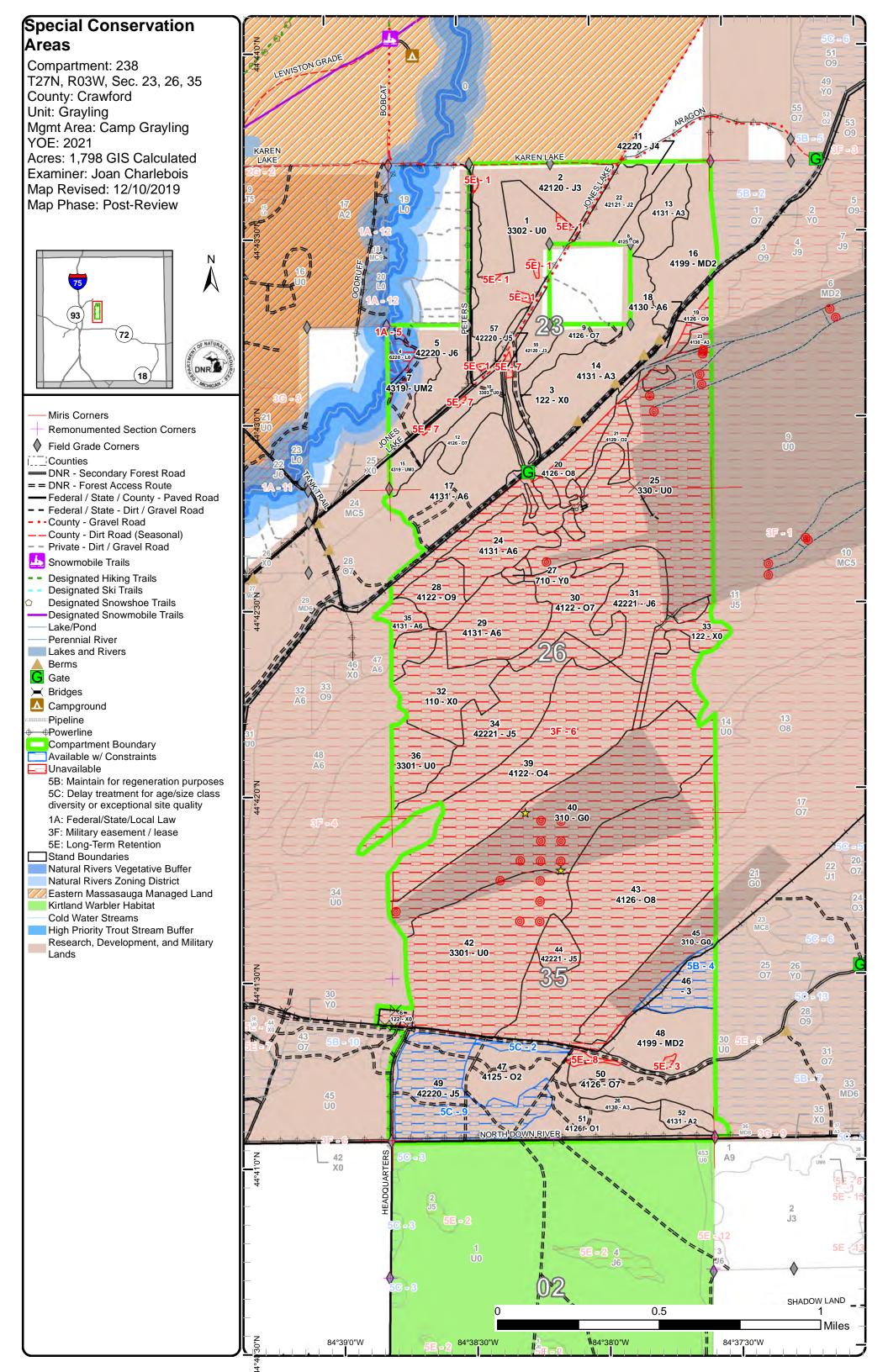
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment 238 Year of Entry 2021



Age Class

	₹gg.	KO C	37 / 5	\$ \ \	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3 /		3 / 5	/ 8 / k	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	*	S Ka	70,	\$ \ \	\$\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	/ 		<u> </u>	TON TON
_	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	19
Aspen	0	5	8	65	110	50	8	0	0	0	0	0	0	0	0	0	0	0	246
Herbaceous Openland	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157
Jack Pine	0	0	76	0	0	4	126	26	75	0	0	0	0	0	0	0	0	0	307
Low-Density Trees	342	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	342
Lowland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Oak	0	31	26	10	0	0	105	5	0	87	23	199	0	0	0	0	0	0	485
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Urban	141	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	141
Total	648	108	110	97	110	73	239	31	75	87	23	199	0	0	0	0	0	0	1799



Report 2 – Treatment Summary

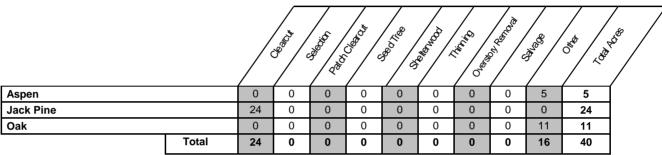
Grayling Mgt. Unit Year of Entry: 2021

Acres of Harvest

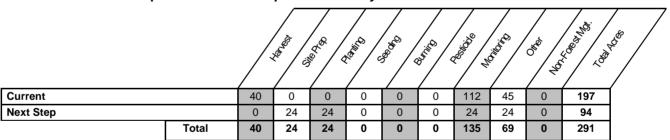
Compartment 238
Total Compartment Acres: 1,798

Commercial Harvest - 40 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Graylin S t





Treatment Stand Size Stand ВА **Treatment Treatment** Cover Type **Acres** Age Habitat Method Name CoverType Density Age Range Type Objective Structure Cut

Approved Treatments:

1 72238001-tsi 45.2 3302 - Low Density Nonstocked Unspec Other Other 4211 - Planted Even-Aged No Conifer Trees ified Red Pine

Prescription remove competition from around planted RP

Specs:

а

n

d

Next Step Treatments:

Acceptable free-to-grow planted RP meeting stocking standards

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

5 72238005-ccr 23.6 42220 - Natural Poletimber 68 51-80 Harvest Clearcut with 4122 - Oak, Pine Even-Aged No Retention

<u>Prescription</u> Cut 1"+ DBH. Exclude the Natural Rivers restricted cutting zone and the pocket of WP on transition ground in the NW. Treatment boundary <u>Specs:</u> has been edited to approximate those exclusions.

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Other, Pre-Commercial Thinning - Hand Treatments:

Acceptable A moderately stocked mix of oak, JP & WP. If natural regen fails, supplemental plant RP.

Regen:

Other Pursue road closure on hot-lap track originating from the River Park Campground. Close through the harvest contract if approval gained by

Comment: time of timbersale prep.

Site Condition

Proposed Start Date: 10/1 /2020

72238009-12.8 4126 - White, Sawtimber 89 1-50 Monitoring Natural Regen 4191 - Mixed Even-Aged No Black, N. Pin Oak (Re-Inventory) Upland Monitor Poor Deciduous with

Conifer

Prescription check regen

Specs:

Next Step Treatments:

Acceptable A moderately stocked mix of O-RM-A-pine.

Regen:

Other The stump sprouts did not meet the new 6' min height standard during 2019 inventory. 2019 Pre-Review decision was to check the regen

Comment: again at reinventory.

Site Condition

Proposed Start Date: 10/1 /2028

S t		Grayling	Mgt. Unit		Repoi	rt 3 '	Treatments		Compartmer Year of Entr		DNR DNR
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
12	72238012- Monitor	11.6	4126 - White, Black, N. Pin Oak	Sawtimbe Poor	r 89	1-50	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
Preso Spec	cription check s:	regen									
	Step tments:										
Acce Rege		erately stoc	cked mix of O-RM-A	\-pine.							
Othe Com		meet new ventory.	6' min height stand	dard during	2019 ir	nventory.	Deer browse al	so a concern. 2019	Pre-Review dec	ision was to ch	neck again
Site 0	<u>Condition</u>										
Prop	osed Start Date	<u>:</u> 10/1 /20	28								
18	72238018- MPRC	5.4	4130 - Aspen	Poletimbe Well	r 34	81-110	Harvest	Other - Specify	3105 - Mixed Upland Herbaceous		No
Preso Spec		- DBH to cr	eate a fuelbreak al	ong the rar	nge fend	ce. Requ	ire chipping.				
	Step tments:										
Acce Rege	ptable en:										
Othe Com	<u>r</u> ment:										
Site 0	<u>Condition</u>										
Prop	osed Start Date	<u>:</u> 10/1 /20	19								
19	72238019- MPRC	3.1	4126 - White, Black, N. Pin Oak	Sawtimbe Well	r 91	81-110	Harvest	Other - Specify	3105 - Mixed Upland Herbaceous		No
Preso Spec		- DBH to cr	eate a fuelbreak al	ong the rar	nge fend	ce. Requ	ire chipping.				
	Step tments:										
Acce Rege	ptable en:										
Othe Com	<u>r</u> ment:										
Site (<u>Condition</u>										

Proposed Start Date: 10/1 /2019

S t		Grayling	Mgt. Unit	ا	Repoi	rt 3 ⁻	Treatments		Compartment Year of Entry		DNR DNR
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
20	72238020- MPRC	7.8	4126 - White, Black, N. Pin Oak	Sawtimbe Medium	r 87	51-80	Harvest	Other - Specify	3105 - Mixed Upland Herbaceous		No
Pres Spec		+ DBH to cr	eate a fuelbreak ak	ong the rar	nge fend	ce. Requi	re chipping.				
	Step tments:										
Acce Rege	eptable en:										
Othe Com	<u>er</u> ment:										
Site	Condition										
Prop	osed Start Date	<u>e:</u> 10/1 /20	19								
48	72238048- Monitor		199 - Other Mixed Jpland Deciduous	Sapling Medium	5	1-50	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Two-Aged	No
Pres Spec	cription check	regen									
	Step tments:										
Acce Rege		ıl regen goa	ıl of mixed upland d	eciduous v	vith pine	Э.					
Othe Com	<u>r</u> Did no ment:	t pass 2019	regen survey to th	e new 6' he	eight sta	andard. 2	2019 Pre-Review	decision was to cl	heck again at re-in	ventory.	
	<u>Condition</u>										
Prop	osed Start Date	<u>:</u> 10/1 /202	28								
50	72238050- Monitor	26.9 I	4126 - White, Black, N. Pin Oak	Sawtimbe Poor	r 107	1-50	Monitoring	Natural Regen (Re-Inventory)	4122 - Oak, Pine	Two-Aged	No
Pres Spec	cription check cs:	regen									
	Step tments:										
Acce Rege		upland deci	iduous and pine.								
Othe Com	er Did no ment:	t pass 2019	regen survey to th	e new 6' he	eight sta	andard. 2	2019 Pre-Review	decision was to cl	heck again at re-in	ventory.	
Site	<u>Condition</u>										
Prop	osed Start Date	<u>e:</u> 10/1 /202	28								

S t		Grayling	g Mgt. Unit		Repo	rt 3 1	Freatments		Compartmen Year of Entr		DNR DNRCkg
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
51	72238051- Monitor	26.7	4126 - White, Black, N. Pin Oak	Sapling Poor	5	Immatu re	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
Pres Spe	scription check cs:	regen									
	t Step atments:										
Reg	en:	-	cked mix of O-A-RM								
Othe Com	er The re- nment: invento		he cut was not tall e	nough in 2	019 to r	neet the n	new 6' min heigh	nt. 2019 Pre-Revie	w decision was to	check regen	again at re
	Condition	40/4/00	200								
3	72239003- MPRC	7.8	4126 - White, Black, N. Pin Oak	Sawtimbe Well	er 105	Unspec ified	Harvest	Other - Specify	3105 - Mixed Upland		No
Pres Spe		+ DBH to d	create a fuelbreak al	ong the rai	nge fend	ce. Requi	re chipping.		Herbaceous		
	t Step atments:										
Reg											
Othe Com	<u>er</u> nment:										
	Condition	. 10/1/20	140								
4	72239004- MPRC	3.6	42221 - Natural Jack Pine, Mixed Deciduous	Sawtimbe Well	er 85	Unspec ified	Harvest	Other - Specify	3105 - Mixed Upland Herbaceous		No
Pres Spe		+ DBH to c	create a fuelbreak al	ong the rai	nge fend	ce. Requi	re chipping.				
	t Step atments:										
Acce Reg	eptable en:										
Othe Com	<u>er</u> nment:										
	<u>Condition</u>										
Prop	osed Start Date	<u>:</u> 10/1 /20)19								

S t		Grayling	Mgt. Unit		Repoi	rt 3 1	Treatments		Compartmer Year of Entr		OF NATURAL PROPERTY OF NAT
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
48	72240048- MPRC	3.4	4130 - Aspen	Poletimbe Well	er 42	Unspec ified	Harvest	Other - Specify	3105 - Mixed Upland Herbaceous		No
Specific Spe	Step tments: eptable en:		eate a fuelbreak a	along the rai	nge fend	ce. Requi	re chipping.				
53	72240053- MPRC	21.4	4124 - Red with White Oak	Sawtimbe Well	r 98	Unspec ified	Harvest	Other - Specify	3105 - Mixed Upland Herbaceous		No
Specific Spe	Step tments: eptable en:		eate a fuelbreak a	ilong the rai	nge fend	ce. Requi	re chipping.				

Total Treatment Acreage Proposed: 232.9

Compartment: 238

Grayling Mgt. Unit

Joan Charlebois : Examiner Year of Entry: 2021

Availa	ability for	Managemer	nt							
Total	Acres	Acres Avail	Acres	Ţ	Dominar	nt Site	Cond	ditions	3	
Acres	Available	With Condition	Not Available		5B	5C	1A	3F	3G	5E
246	145	0	101	Aspen	0			101	0	
157	0	0	157	Herbaceous Openland	0			157		
307	106	62	139	Jack Pine		62	1	138		1
342	63	0	279	Low-Density Trees				275		4
6	0	0	6	Lowland Shrub			6			
71	70	0	1	Mixed Upland Deciduous				0		1
485	131	4	350	Oak	0	4		348		2
2	0	0	2	Sand, Soil				2		
21	20	0	2	Upland Mixed Forest			2			
141	61	0	80	Urban	0			80		0
1,779	596	66	1,117	Total Forested Acres	0	66	8	1,101	0	8
	34%	4%	63%	Relative Percent			•	•	•	

^{*}Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Islands left when sta	and 1 was cut in 2014.					
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
I	Comments: Island left along tan of firebreak berms v	k trail when stand 47 was cut i vithin it.	n 2003.	Pre-dates Forest Certifica	ation and the long-term rete	ention designation, so applie	ed 5C. Has a series
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Retention island left	when stand 48 was cut in 201	14.				
	040 44 44 05 AM . D						TONELL

Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

4	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	1A: Federal/State/Local Law	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments: Natural River 150'	restricted cutting zone and lowl	and floo	dplain.			
6	Unavailable	3F: Military easement / lease	1,100	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Fenced M.P.R.C R maintenance project	ange 30 Complex. No access cts.	for inve	ntory or management except	at the request of the Mil	itary to facilitate range cons	struction &
7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Islands left when s	tand 10 was cut in 2014.					
}	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Island left along tar	nk trail when stand 50 was cut i	n 2014.				
)	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	62	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:	rge KW cut not yet planted on s	south sic	de of highway and adjacent st	ands to wast & aget still	in number of an annuation	

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: 238
Year of Entry 2021



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	Research and Military Areas	These areas provide facilities and lands specifically dedicated fo include the 5,847 acre Forest Fire Experiment Station, the 12,000 Area, the Beaver Islands Archipelago Wildlife Research Area (the High and Hog Islands, all state owned land on Beaver, South Fow Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research, 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
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 of communities are ecologically and socially significant in their effect as aesthetics, habitat, bank stability, timber production, and their	e unique conditions adjacent to lakes, liversity of plants and wildlife. Riparian cts on water quality and quantity, as well
HCVA	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 at PA 451, and the Federal Endangered Species Act of 1973. This species plans in various stages of review. As of now only two ex Plover 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.	Zoning District is a 400 foot buffer for 00 feet. To view specific Zoning Districts



Stand	Level 4 C	over Type		Size Dens	sity	Acres	Stand Age	BA Range	ge Managed Site		General Comments	
1	3302 - Low Der	sity Conife	r Trees	Nonstock	ced	53.8		Unspecified	4211 - Planted	Red Pine	Was final harvested in 2014 (#607-11), cutting stems 2"+ DBH except	
						Sub-Ca	nopy Species	s Density	Avg. Height	Size	retention islands. M.O. was changed by variance in 2015 from JP to RP. C72-740 trenched 2015, planted to RP 2016. Yr 1 regen survey in 2017	
						Re	ed Pine	Low	< 5 feet	Seeding	found 1,087 RP & 551 C-O tpa. Yr 3 survey in Oct 2018 found 24.6%	
						Ja	ck Pine	Low	< 5 feet	Seeding	mortality & 78.7% FTG. Herbicide was not approved in the variance. BC	
						Wh	nite Pine	Trace	5 - 10 feet	Sapling	was the primary competitor. 15% of dead planted RP had terminal leader mortality. Drought stress also appeared to be a factor. Yr 4 regen	
						WI	nite Oak	Trace	5 - 10 feet	Sapling	survey scheduled due to concern for significant additional mortality next	
						Ja	ck Pine	Low	>20 feet	Pole	growing season. Oct 2019 survey found very little additional mortality	
						Blad	ck Cherry	Medium	5 - 10 feet	Tall Shrub	(989 initial - 25% mortality = 742 TPA) and 56% FTG (JP primary competitor, BC secondary). Most of the seedlings with terminal leader	
						Northe	ern Pin Oak	Trace	10 - 20 feet	Pole	mortality had laterals successfully take over. Scheduled manual removal	
						Wł	nite Pine	Trace	10 - 20 feet	Pole	of competition.	
						Ja	ck Pine	Trace	5 - 10 feet	Sapling		
2	42120 - Plai	nted Jack F	Pine	Sapling V	Vell	44.1	16	Immature	N/A		JP stand was final harvested in 2002 (#020-01), cutting stems 2"+ DBH.	
	Canopy Species	% Cover	Size Class	DBH A	\ae						Was furrow-seeded to JP in fall 2002 (C72-470), then re-planted by hand	
	Jack Pine	85	Sapling		16						in spring 2003. Most of the planted stock was JP, with an unspecified amount of overflow RP & WP mixed in. Overstocked where the initial	
	Black Cherry	10	Sapling		16						seeding took; ave diam still 2". Planted RP encountered in west half are	
											overtopped by the JP. Scattered BC & NPO stump sprouts from cut.	
3	122 - Road	d/Parking L	ot	Nonstock	ked	61.0			No		Cleared county road corridors, Range access and facilities.	
4	6220 - A	lder/willow		Nonstock	ked	5.8	I	Unspecified	No		E. Branch of the AuSable River and floodplain. Tag alder and willow marsh grass.	
5	42220 - Nat	ural Jack P	ine	Poletimber	Well	24.9	68	51-80	N/A		Primarily JP poles with scattered older log-sized stems. Variable	
	Canopy Species	% Cover	Size Class	DBH A	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	stocking in oak & WP saps (5-20' tall). Pocket of WP saw with survey corner witness tree along river in NW of stand. Aspen along the	
	Jack Pine	95	Pole/Log	8	68	Ja	ck Pine	Low	10 - 20 feet	Sapling	floodplain edge. Increasing mortality in the mature JP.	
						Northe	ern Pin Oak	Low	Variable	Sapling		
						WI	nite Oak	Low	Variable	Sapling		
						Wh	nite Pine	Low	Variable	Sapling		
						Blad	ck Cherry	Low	Variable	Tall Shrub		
6	122 - Road	d/Parking L	ot	Nonstock	ked	26.3	0		No		Cleared county road corridor, Range access and facilities.	
7	4319 - Mixed	Upland Fo	orest :	Sapling Me	dium	15.5	27	Immature	N/A		JP stand with O-A was final harvested for a fuelbreak in 1992 (#045-91),	
	Canopy Species	% Cover	Size Class	DBH A	Age	Sub-Ca	nopy Species	s Density	Avg. Height	Size	cutting stems 2"+ DBH. Regenerated to variable distribution in BC-JP-A-NPO-WP. Beaver reduces the aspen component near the river	
(Quaking Aspen	15	Sapling	3	27	Prai	rie Willow	Trace	< 5 feet	Tall Shrub		
N	orthern Pin Oak	10	Pole/Sapling	g 5	27			·			-	
	Jack Pine	40	Sapling/Pole	9 4	27							
	Black Cherry	25	Sapling	3								
	White Pine	10	Pole/Sap/Lo	g 6								



Stand	Level 4 Co	over Type	s	ize Dei	nsity	Acres Stand	I Age BA Range	Managed	Site	General Comments
8	4125 - Blacl	k, N. Pin O	ak Saw	timber/	Medium	n 5.4 61	51-80	N/A		Variable mixed stand, canopy closure drifts off either end of 50-75%, parser on the flats & denser on the hillside. Greater proportion in poles
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy S	pecies Densit	y Avg. Height	Size	on the hill too. Two different age classes in the NPO; did not average
	Red Maple	20	Pole/Sap/Log	8		Northern Pin	Oak Low	5 - 10 feet	Sapling	them together, but allowed the younger age to represent the species and
Blac	ck/Red (Hybrid) Oak	10	Log	14		White Oal	k Low	5 - 10 feet	Sapling	reflect the stand's two-aged condition.
 	White Oak	15	Log/Pole	12	85	White Pin	e Trace	e Variable	Sapling	
١	Northern Pin Oak	40	Pole/Log	8	61	Witch Haz	el Trace	5 - 10 feet	Tall Shrub	
L	Jack Pine	8	Pole/Log	8						
9	4126 - White, B	Black, N. Pi	n Oak Sa	wtimbe	er Poor	13.6 89	1-50	N/A		Mixed O-A-JP stand on hillside was seed-tree harvested by early 2014
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy S	pecies Densit	y Avg. Height	Size	(#607-11) cutting stems 2"+ DBH except RP-WP & green-marked O-JP (30 BA cruised residual). Regen M.O. of mixed upland deciduous with
Blac	ck/Red (Hybrid) Oak	50	Log	14	89	Black/Red (Hybr	rid) Oak Low	< 5 feet	Seeding	conifer. Oak regen mostly <3' tall. Very open below along driveway
	White Oak	35	Log	12		White Oal	k Low	< 5 feet	Seeding	south of cabin. Deer browse pressure. Some winthrow & breakage from
						White Pin	e Trace	e Variable	Sapling	wind event a few years ago. The stump sprouts did not meet the new 6' min height standard during 2019 inventory, so it didn't pass the regen
						Bigtooth Asp	pen Low	< 5 feet	Sapling	survey.
						Red Maple	e Trace	< 5 feet	Seeding	
						Black/Red (Hybr	rid) Oak Low	< 5 feet	Sapling	
						White Oal	k Trace	5 - 10 feet	Sapling	
10	3303 - Mixed Lo	ow Density	Trees	Nonsto	cked	12.0	Unspecifie	4211 - Planted	Red Pine	Mature JP stand was final harvested 2014 (#607-11), cutting stems 2"+
						Sub-Canopy S	pecies Densit	y Avg. Height	Size	DBH except RP-WP & a few green-marked oak, and retention islands. JP was prescribed for planting, but the M.O. was changed to RP by
						Red Pine	Low		Seeding	
								< 5 feet		variance in 2015. Site was trenched in 2015 (C72-740, planted to RP 2016. Yr 1 regen survey in 2017 found 1,087 RP & 551 C-O tpa. Yr 3
						Red Pine	Oak Mediu	< 5 feet	Seeding	variance in 2015. Site was trenched in 2015 (C72-740, planted to RP 2016. Yr 1 regen survey in 2017 found 1,087 RP & 551 C-O tpa. Yr 3 survey in Oct 2018 found 23% mortality & 55% FTG, with most of that
						Red Pine Northern Pin	Oak Mediu rry Low	< 5 feet m < 5 feet	Seeding Seeding	variance in 2015. Site was trenched in 2015 (C72-740, planted to RP 2016. Yr 1 regen survey in 2017 found 1,087 RP & 551 C-O tpa. Yr 3 survey in Oct 2018 found 23% mortality & 55% FTG, with most of that competition from oak. Herbicide was not approved by the variance. Yr 4
						Red Pine Northern Pin Black Cher	Oak Mediu rry Low Oak Low	< 5 feet < 5 feet 5 - 10 feet < 5 feet	Seeding Seeding Tall Shrub	variance in 2015. Site was trenched in 2015 (C72-740, planted to RP 2016. Yr 1 regen survey in 2017 found 1,087 RP & 551 C-O tpa. Yr 3 survey in Oct 2018 found 23% mortality & 55% FTG, with most of that competition from oak. Herbicide was not approved by the variance. Yr 4 regen survey scheduled due to concern for significant additional mortality next growing season. Oct 2019 survey found very little additional
						Red Pine Northern Pin Black Cher Northern Pin	Oak Mediu rry Low Oak Low k Trace	< 5 feet < 5 feet 5 - 10 feet < 5 feet < 5 feet < 5 feet	Seeding Seeding Tall Shrub Sapling	variance in 2015. Site was trenched in 2015 (C72-740, planted to RP 2016. Yr 1 regen survey in 2017 found 1,087 RP & 551 C-O tpa. Yr 3 survey in Oct 2018 found 23% mortality & 55% FTG, with most of that competition from oak. Herbicide was not approved by the variance. Yr 4 regen survey scheduled due to concern for significant additional mortality next growing season. Oct 2019 survey found very little additional mortality (989 initial - 19% mortality = 801 TPA) and 34% FTG (NPO
						Red Pine Northern Pin Black Cher Northern Pin White Oal	Oak Mediu rry Low Oak Low k Trace k Trace	<pre></pre>	Seeding Seeding Tall Shrub Sapling Seeding	variance in 2015. Site was trenched in 2015 (C72-740, planted to RP 2016. Yr 1 regen survey in 2017 found 1,087 RP & 551 C-O tpa. Yr 3 survey in Oct 2018 found 23% mortality & 55% FTG, with most of that competition from oak. Herbicide was not approved by the variance. Yr 4 regen survey scheduled due to concern for significant additional mortality next growing season. Oct 2019 survey found very little additional mortality (989 initial - 19% mortality = 801 TPA) and 34% FTG (NPO primary competitor, JP-BC secondary). Most of the seedlings with
						Red Pine Northern Pin Black Cher Northern Pin White Oal	Oak Mediu rry Low Oak Low k Trace k Trace e Trace	<pre></pre>	Seeding Seeding Tall Shrub Sapling Seeding Sapling	variance in 2015. Site was trenched in 2015 (C72-740, planted to RP 2016. Yr 1 regen survey in 2017 found 1,087 RP & 551 C-O tpa. Yr 3 survey in Oct 2018 found 23% mortality & 55% FTG, with most of that competition from oak. Herbicide was not approved by the variance. Yr 4 regen survey scheduled due to concern for significant additional mortality next growing season. Oct 2019 survey found very little additional mortality (989 initial - 19% mortality = 801 TPA) and 34% FTG (NPO primary competitor, JP-BC secondary). Most of the seedlings with terminal leader mortality had laterals successfully take over. Will accept mixed pine-oak stand. FTP complete. Check stand during next inventory
						Red Pine Northern Pin Black Cher Northern Pin White Oal White Pin	Oak Mediu rry Low Oak Low k Trace k Trace e Low	<pre></pre>	Seeding Seeding Tall Shrub Sapling Seeding Sapling Pole	variance in 2015. Site was trenched in 2015 (C72-740, planted to RP 2016. Yr 1 regen survey in 2017 found 1,087 RP & 551 C-O tpa. Yr 3 survey in Oct 2018 found 23% mortality & 55% FTG, with most of that competition from oak. Herbicide was not approved by the variance. Yr 4 regen survey scheduled due to concern for significant additional mortality next growing season. Oct 2019 survey found very little additional mortality (989 initial - 19% mortality = 801 TPA) and 34% FTG (NPO primary competitor, JP-BC secondary). Most of the seedlings with terminal leader mortality had laterals successfully take over. Will accept
11	42220 - Natu	ural Jack P	ine Po	oletimbe	er Poor	Red Pine Northern Pin Black Cher Northern Pin White Oal White Oal White Pin Jack Pine	Oak Mediu rry Low Oak Low k Trace k Trace e Low e Low	<pre></pre>	Seeding Seeding Tall Shrub Sapling Seeding Sapling Pole Seeding Pole	variance in 2015. Site was trenched in 2015 (C72-740, planted to RP 2016. Yr 1 regen survey in 2017 found 1,087 RP & 551 C-O tpa. Yr 3 survey in Oct 2018 found 23% mortality & 55% FTG, with most of that competition from oak. Herbicide was not approved by the variance. Yr 4 regen survey scheduled due to concern for significant additional mortality next growing season. Oct 2019 survey found very little additional mortality (989 initial - 19% mortality = 801 TPA) and 34% FTG (NPO primary competitor, JP-BC secondary). Most of the seedlings with terminal leader mortality had laterals successfully take over. Will accept mixed pine-oak stand. FTP complete. Check stand during next inventory cycle.
	42220 - Natu Canopy Species		ine Po	oletimbe DBH		Red Pine Northern Pin Black Cher Northern Pin White Oal White Pin Jack Pine	Oak Mediu rry Low Oak Low k Trace k Trace e Low e Low 51-80	<pre></pre>	Seeding Seeding Tall Shrub Sapling Seeding Sapling Pole Seeding Pole	variance in 2015. Site was trenched in 2015 (C72-740, planted to RP 2016. Yr 1 regen survey in 2017 found 1,087 RP & 551 C-O tpa. Yr 3 survey in Oct 2018 found 23% mortality & 55% FTG, with most of that competition from oak. Herbicide was not approved by the variance. Yr 4 regen survey scheduled due to concern for significant additional mortality next growing season. Oct 2019 survey found very little additional mortality (989 initial - 19% mortality = 801 TPA) and 34% FTG (NPO primary competitor, JP-BC secondary). Most of the seedlings with terminal leader mortality had laterals successfully take over. Will accept mixed pine-oak stand. FTP complete. Check stand during next inventory cycle. Patches of JP separated by upland shrub cover. Open-grown form common. Traces of canopy NPO, WO, WP & RP. A few surviving JP
						Red Pine Northern Pin Black Cher Northern Pin White Oal White Pin Jack Pine Jack Pine	Oak Mediu rry Low Oak Low k Trace k Trace e Low e Low 51-80 Species Densit	<pre></pre>	Seeding Seeding Tall Shrub Sapling Seeding Sapling Pole Seeding Pole	variance in 2015. Site was trenched in 2015 (C72-740, planted to RP 2016. Yr 1 regen survey in 2017 found 1,087 RP & 551 C-O tpa. Yr 3 survey in Oct 2018 found 23% mortality & 55% FTG, with most of that competition from oak. Herbicide was not approved by the variance. Yr 4 regen survey scheduled due to concern for significant additional mortality next growing season. Oct 2019 survey found very little additional mortality (989 initial - 19% mortality = 801 TPA) and 34% FTG (NPO primary competitor, JP-BC secondary). Most of the seedlings with terminal leader mortality had laterals successfully take over. Will accept mixed pine-oak stand. FTP complete. Check stand during next inventory cycle.
	Canopy Species	% Cover	Size Class	DBH	Age	Red Pine Northern Pin Black Cher Northern Pin White Oal White Oal White Pin Jack Pine Jack Pine 4.4 48 Sub-Canopy S	Oak Mediu rry Low Oak Low k Trace e Trace e Low e Low Species Densite	<pre></pre>	Seeding Seeding Tall Shrub Sapling Seeding Sapling Pole Seeding Pole Seeding	variance in 2015. Site was trenched in 2015 (C72-740, planted to RP 2016. Yr 1 regen survey in 2017 found 1,087 RP & 551 C-O tpa. Yr 3 survey in Oct 2018 found 23% mortality & 55% FTG, with most of that competition from oak. Herbicide was not approved by the variance. Yr 4 regen survey scheduled due to concern for significant additional mortality next growing season. Oct 2019 survey found very little additional mortality (989 initial - 19% mortality = 801 TPA) and 34% FTG (NPO primary competitor, JP-BC secondary). Most of the seedlings with terminal leader mortality had laterals successfully take over. Will accept mixed pine-oak stand. FTP complete. Check stand during next inventory cycle. Patches of JP separated by upland shrub cover. Open-grown form common. Traces of canopy NPO, WO, WP & RP. A few surviving JP
	Canopy Species	% Cover	Size Class	DBH	Age	Red Pine Northern Pin Black Cher Northern Pin White Oal White Oal White Pin Jack Pine Jack Pine 4.4 48 Sub-Canopy S	Oak Mediu rry Low Oak Low k Trace e Trace e Low e Low Species Densite e Trace	<pre></pre>	Seeding Seeding Tall Shrub Sapling Seeding Sapling Pole Seeding Pole Size Sapling	variance in 2015. Site was trenched in 2015 (C72-740, planted to RP 2016. Yr 1 regen survey in 2017 found 1,087 RP & 551 C-O tpa. Yr 3 survey in Oct 2018 found 23% mortality & 55% FTG, with most of that competition from oak. Herbicide was not approved by the variance. Yr 4 regen survey scheduled due to concern for significant additional mortality next growing season. Oct 2019 survey found very little additional mortality (989 initial - 19% mortality = 801 TPA) and 34% FTG (NPO primary competitor, JP-BC secondary). Most of the seedlings with terminal leader mortality had laterals successfully take over. Will accept mixed pine-oak stand. FTP complete. Check stand during next inventory cycle. Patches of JP separated by upland shrub cover. Open-grown form common. Traces of canopy NPO, WO, WP & RP. A few surviving JP saw "orchard" trees that started the colonizing.



Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
12	4126 - White, E	Black, N. Pi	n Oak	Sawtimb	er Poor	14.9	89	1-50	N/A		Mature oak stand on hillside was seed-tree harvested by early 2014
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	(#607-11) cutting stems 2"+ DBH except RP-WP, green-marked O-JP, and the east poly (2 ac) that was isolated by roads. 30 BA cruised
	White Oak	33	Log/Pole	12		Black/Red	d (Hybrid) Oak	Medium	< 5 feet	Seeding	residual. Regen M.O. of mixed upland deciduous with conifer. Does not
Bla	ck/Red (Hybrid) Oak	60	Log	14	89	Wh	ite Oak	Low	< 5 feet	Seeding	pass at this time due to new 6' height requirement. Browse not as heavy
						Wh	ite Pine	Trace	Variable	Sapling	as stand 9. Used stand 9's current age.
						Re	d Maple	Low	< 5 feet	Sapling	
						Black/Red	d (Hybrid) Oak	Low	< 5 feet	Sapling	
13	4131 - A	spen, Oak		Sapling	y Well	18.4	34	1-50	N/A		A-O stand on hillside was final harvested by 1985 (#278-83), spec'd to
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	cut merch stems. Regenerated well to BTA with good oak stump sprouts & RM. Scattered saw-sized RP-WP-A-O residual from the cut. Aspen or
	Red Maple	15	Sapling/Pole	9 4	34	Wite	ch Hazel	Low	5 - 10 feet	Tall Shrub	the hillside is still in the sapling class; better growth on the flat ground not
Bla	ck/Red (Hybrid) Oak	15	Pole/Sapling	5	34						enough to shift it into the poke-overall class.
	Bigtooth Aspen	60	Sapling/Pole	9 4	34						
14	4131 - A	spen, Oak		Sapling	y Well	57.3	26	Immature	N/A		O-A stand was final harvested in early 1993 (#044-91), cutting stems 2"+ DBH. Regenerated to BTA with O-RM & traces of JP. Scattered residua
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	WP. Strip of pole-sized aspen along the tank trail berm.
	Red Maple	14	Sapling	2	26	Wite	ch Hazel	Low	5 - 10 feet	Tall Shrub	
Bla	ck/Red (Hybrid) Oak	15	Sapling/Pole	3	26	Wh	ite Oak	Medium	5 - 10 feet	Sapling	
	Bigtooth Aspen	65	Sapling	3	26						
15	4319 - Mixed	Upland Fo	rest	Sapling	ı Well	5.6	27	Immature	N/A		JP stand with O-A was final harvested for a fuelbreak in 1992 (#045-91),
	Canopy Species	% Cover	Size Class	DBF	Age						cutting stems 2"+ DBH. Regenerated to variable distribution in JP-A-NPO-BC.
	Quaking Aspen	20	Sapling	3	27						
	Northern Pin Oak	15	Pole/Sapling	5	27						
	Jack Pine	45	Sapling	4	27						
	Black Cherry	15	Sapling	2							
16	4199 - Other Mixed	d Upland D	eciduous :	Sapling I	/ledium	36.4	6	1-50	N/A		Mature oak stand was seed-tree harvested by early 2013 (#623-11),
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	cutting stems 2"+ DBH except pine & green-marked oak (30 BA cruised residual). Mortality, snap & some windthrow. Regen is the featured
Bla	ck/Red (Hybrid) Oak	20	Log	14	91	Wite	ch Hazel	Low	< 5 feet	Tall Shrub	canopy. Enough above 6' tall to pass overall to MUD M.O. Secondary
	White Oak	10	Log	11		Wh	ite Oak	Medium	< 5 feet	Seeding	layer of oak seedlings above the snowline seeing some browse but with
	Red Maple	40	Sapling	1	6	Black/Red	d (Hybrid) Oak	Low	< 5 feet	Seeding	potential to recruit.
Bla	ck/Red (Hybrid) Oak	20	Sapling	1	6						
17	4131 - A	spen, Oak		Poletimb		49.6	37	81-110	N/A		O-A stand was final harvested by 1982 (#055-81A), cutting merch stems. Regenerated well to aspen with good quality oak stump sprouts & RM,
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Species	Density	Avg. Height	Size	cocasional JP saps. Scattered residual WP & RP. Stand 24 within the
	Red Maple	10	Sapling/Pole	3	37	Wh	ite Oak	Low	5 - 10 feet	Sapling	fence was part of the same harvest.
	<u> </u>										
	Bigtooth Aspen	61	Pole/Sapling	5 6	37 37	Wite	ch Hazel	Medium	5 - 10 feet	Tall Shrub	



Stand	Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	ВА	Range	Managed \$	Site	General Comments
18		- Aspen		Poletimb			34		1-110	N/A		Within fenced MPRC 30 Complex. A-O stand was final harvested by 1985 (#278-83), spec'd to cut merch stems. Regenerated well to BTA
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s	Density	Avg. Height	Size	with good oak stump sprouts & RM.
	Red Maple	10	Pole/Sapling	g 5	34	Black/Re	ed (Hybrid) Oal	k	Low	10 - 20 feet	Sapling	
Blac	ck/Red (Hybrid) Oak	10	Pole	7	34	W	hite Oak		Low	10 - 20 feet	Sapling	
	Bigtooth Aspen	75	Pole	6	34	Wit	tch Hazel		Low	5 - 10 feet	Tall Shrub	
19	4126 - White, B	Black, N. Pi	n Oak	Sawtimb	er Wel	l 5.6	91	8	1-110	N/A		Within fenced MPRC 30 Complex. Mature oak stand. Estimated age
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s	Density	Avg. Height	Size	based on oak cored outside of the fence.
	Red Maple	10	Pole/Sapling	g 6		Re	ed Maple		Low	10 - 20 feet	Sapling	
Blac	ck/Red (Hybrid) Oak	45	Log	14	91	Black/Re	d (Hybrid) Oal	k	Low	Variable	Sapling	
	White Oak	40	Log/Pole	12		W	hite Oak		Low	Variable	Sapling	
						Bigto	ooth Aspen		Low	10 - 20 feet	Sapling	
							tch Hazel		Low	5 - 10 feet	Tall Shrub	
20	4126 - White, B	Black, N. Pi	in Oak Sa	awtimber	Mediu	ım 19.8	87	5	51-80	N/A		Within fenced MPRC 30 Complex. Mature mixed oak stand with dense A-
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Species	s	Density	Avg. Height	Size	O regen in canopy gaps. NPO breaking up. Stand age from the 1981 YOE inventory.
	Red Maple	10	Pole	5			ed Maple		Low	10 - 20 feet	Sapling	TOE inventory.
Blac	ck/Red (Hybrid) Oak	45	Log	14	87	North	ern Pin Oak		Medium	10 - 20 feet	Sapling	
	White Oak	20	Log/Pole	12		W	hite Oak		Low	10 - 20 feet	Sapling	
1	Northern Pin Oak	15	Log/Pole	12		Biato	ooth Aspen		Medium	>20 feet	Sapling	
			==9: ::				hite Pine		Low	Variable	Sapling	
						Wit	tch Hazel		Low	5 - 10 feet	Tall Shrub	
21	4129 - M	/lixed Oak	;	Sapling N	/ledium	n 9.7	23	lm	mature	N/A		Within fenced MPRC 30 Complex. Merch stems were cut in 1996 (#044-96-02) to facilitate expansion of the tank range.
22	42121 - Planted Deci	Jack Pine, duous	Mixed	Sapling N	/ledium	n 18.4	16	lm	mature	N/A		JP stand was final harvested in 2002 (#020-01), cutting stems 2"+ DBH. Was furrow-seeded to JP in fall 2002 (C72-470), then re-planted by hand
	Canopy Species	% Cover	Size Class	DBH	Age							in spring 2003. Most of the planted stock was JP, with an unspecified
	Jack Pine	75	Sapling	3	16							amount of overflow RP & WP mixed in. JP cover varies from over- to under-stocked. Most of the planted RP is overtopped by the JP; the
	Black Cherry	15	Sapling	2								traces of WP are on the east side. Scattered BC & NPO stump sprouts from cut.
23	4130 -	- Aspen		Sapling	Well	7.6	23	lm	mature	N/A		Within fenced MPRC 30 Complex. Merch stems were cut in 1996 (#044-96-02) to facilitate expansion of the tank range.
24	4131 - A	spen, Oak		Poletimb	er Wel	l 35.5	37	8	1-110	N/A		Within fenced MPRC 30 Complex. O-A stand was final harvested by 1982 (#055-81A), cutting merch stems. Is likely to have similar composition to stand 17 (part of the same harvest).
25	330 - Low-E	Density Tre	es	Nonsto	cked	143.9				No		Within fenced MPRC 30 Complex. Stand is a large actively-used, regularly burned opening with a mosaic of non-forest covertypes: sand/soil, upland herbaceous, upland shrub & low density tree. Merch stems were cut across most of the stand in 1996 (044-96-02),



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age B	BA Range	Managed S	ite	General Comments
26	4130 - Aspen Canopy Species % Cover Size C	Sapling Well	5.2		Immature	N/A	Size	Strip of aspen formerly part of stand 50 was final harvested in 2014 (#622-11), cutting merch stems except RP-WP-O-RM (<5 BA cruised residual).
				nopy Species hite Oak		Avg. Height		Regenerated well to aspen with some oak. Passes regen survey.
	0 1	•			Low	< 5 feet	Seeding	
	Northern Pin Oak 10 Sap	oling I 5	NOITH	ern Pin Oak	Low	< 5 feet	Seeding	
27	710 - Sand, Soil	Nonstocked	1.7	U	Inspecified	No		Within fenced MPRC 30 Complex. Opening with disturbed soil.
28	4122 - Oak, Pine	Sawtimber Well	17.2	93	111-140	N/A		Within fenced MPRC 30 Complex. Part of a large area that had tree cover removed in the late 1950's (#91-57A, National Guard Clearing). Info on #91-57A is from the Ownership Cards only; couldn't locate the old timbersale file. This stand was only partially cut (as seen on the 1963 air photos), leaving a significant amount of residual canopy. Is likely two-aged, between the residual and regen from the cut. The 1981 YOE inventory typed it as a JP-A-O pole stand, with a 1940 year of origin on the JP. Now appears to be more oak than JP, with RP & aspen components. Dominant Age from oak cored outside of the fence
29	4131 - Aspen, Oak	Poletimber Well	49.8	44	81-110	N/A		Within fenced MPRC 30 Complex. Part of a large area that had tree cover removed in the late 1950's (#91-57A, National Guard Clearing). Info on #91-57A is from the Ownership Cards only; couldn't locate the old timbersale file. Residual trees were left scattered across this stand, visible above regen on the 1963 air photos. The regen was set-back significantly (likely by fire) and appears to have re-sprouted a few years before the 1978 air photos were taken. Most of the surviving residual was likely oak, with primarily aspen in the regenerated cohort. Stand age is from the 1981 YOE inventory.
30	4122 - Oak, Pine	Sawtimber Poor	37.9	89	51-80	N/A		Within fenced MPRC 30 Complex. Part of a large area that had tree cover removed in the late 1950's (#91-57A, National Guard Clearing). Info on #91-57A is from the Ownership Cards only; couldn't locate the old timbersale file. This stand was only partially cut (as seen on the 1963 air photos), leaving a significant amount of residual canopy. Is likely two-aged, between the residual and regen from the cut. Appears to have a relatively open canopy of oak and jack pine over aspen and oak regen. Dominant Age is from the 1981 YOE inventory, Second Age from the harvest. Given the periodic fire influence, there are likely younger age classes present also.
31	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	63.6	79	51-80	N/A		Within fenced MPRC 30 Complex. Likely JP with oak. Stand age is from the 1981 YOE inventory. Given the periodic fire influence, there are likely to be younger age-classes within the stand also. The south polygon was burned in the May 1975 North Down River Road fire.
32	110 - Low Intensity Urban	Nonstocked	38.9	0		No		Within fenced MPRC 30 Complex. CACTF facility.
33	122 - Road/Parking Lot	Nonstocked	15.2			No		Cleared corridor between Range 37 & MPRC.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
34	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	64.2	58	51-80	N/A	Within fenced MPRC 30 Complex. Part of a large area that had tree cover removed in the late 1950's (#91-57A, National Guard Clearing). Info on #91-57A is from the Ownership Cards only; couldn't locate the old timbersale file. The harvest was 850+ acres, with regen and widely-scattered residual trees visible on the 1963 air photos. This stand appears to have a mix of JP and oak, with some aspen by the CACTF. Estimated stand age based on assumed post-harvest natural regen establishment, although younger age classes are likely to be present given the range's periodic fire influence.
35	4131 - Aspen, Oak	Poletimber Well	8.3	58	81-110	N/A	Within fenced MPRC 30 Complex. Part of a large area that had tree cover removed in the late 1950's (#91-57A, National Guard Clearing). Info on #91-57A is from the Ownership Cards only; couldn't locate the old timbersale file. This stand was only partially cut (as seen on the 1963 air photos), leaving a significant amount of residual canopy. Is likely two-aged, between the residual and regen from the cut. The 1981 YOE inventory typed it as an O3-A1 stand, with a 1960 year of origin on the oak, and 30 BA in pole-sized A-O residual. Second age estimate is from an oak cored outside of the fence.
36	3301 - Low Density Deciduous Trees	Nonstocked	21.6			No	Within fenced MPRC Range 30 area. Likely to have oak, aspen, JP and cherry encroaching across a large area that had tree cover removed in the late 1950's (#91-57A, National Guard Clearing). Info on #91-57A is from the Ownership Cards only; couldn't locate the old timbersale file. Was 850+ acres, with regen and widely-scattered residual trees visible on the 1963 air photos. Periodic range fires noted in past inventories.
39	4122 - Oak, Pine	Poletimber Poor	105.1	58	1-50	N/A	Within fenced MPRC 30 Complex. Part of a large area that had tree cover removed in the late 1950's (#91-57A, National Guard Clearing). Info on #91-57A is from the Ownership Cards only; couldn't locate the old timbersale file. The harvest was 850+ acres, with regen and widely-scattered residual trees visible on the 1963 air photos. This stand appears to have a mix of oak & JP. Estimated stand age based on assumed post-harvest natural regen establishment, although younger age classes are likely to be present given the range's periodic fire influence. The stand's north end was burned in the May 1975 North Down River Road fire.
40	310 - Herbaceous Openland	Nonstocked	124.3			No	Within fenced MPRC 30 Complex. Range 37. Tree cover was initially removed in the late 1950's (#91-57A, National Guard Clearing) and it has been maintained open since.
42	3301 - Low Density Deciduous Trees	Nonstocked	110.3			Managed Opening	Within fenced MPRC 30 Complex. Likely to have oak, aspen, JP and cherry encroaching across a large area that had tree cover removed in the late 1950's (#91-57A, National Guard Clearing). Info on #91-57A is from the Ownership Cards only; couldn't locate the old timbersale file. The harvest was 850+ acres, with regen and widely-scattered residual trees visible on the 1963 air photos. Periodic range fires noted in past inventories.



Stand	Level 4 Co	over Type		Size D	ensity	Acres	Stand Age B	A Range	Managed 9	Site	General Comments
43	4126 - White, E	Black, N. Pi	in Oak S	Sawtimbe	r Mediun	n 169.8	100	51-80	N/A		Except for a narrow strip with firebreak berms south of the tank trail, the stand is within the fenced MPRC 30 Complex. Dry oak-pine type
C	anopy Species	% Cover	Size Class	DBI	H Age	Sub-Can	nopy Species	Density	Avg. Height	Size	occupying a ridge between cleared ranges. Cover appears to thin out
	White Oak	20	Log/Pole	12		Northe	rn Pin Oak	Medium	Variable	Sapling	on the lower slopes, with more JP than oak. Heavy understory of
No	rthern Pin Oak	45	Log/XLog/Po	ole 14	100	Jac	ck Pine	Medium	Variable	Sapling	advanced O-JP saplings. Periodic fire influence. North half of the stand
	Jack Pine	20	Log/Pole	10		Wh	ite Oak	Medium	Variable	Sapling	was burned in the May 1975 North Down River Road fire. Age is from NPO south of the tank trail.
44	42221 - Natural Deci	Jack Pine, iduous	Mixed P	oletimbe	er Mediur	n 10.6	79	51-80	N/A		Within fenced MPRC 30 Complex. JP with NPO. Age is from the 1981 YOE inventory.
45	310 - Herbac	eous Open	land	Nonst	ocked	32.8			No		Within fenced MPRC 30 Complex. Range 35. Observation tower & small buildings at south end.
46				Saplin	g Well	19.1	44	1-50	N/A		Well-developed O-JP regen 10-20 feet tall is the featured canopy, with
C	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Can	nopy Species	Density	Avg. Height	Size	mature oak & pine scattered above. Minor RM-A components. Open- grown form & fire scarring common on the saw-sized stems; mature
	White Oak	20	Log/XLog				k Cherry	Low	5 - 10 feet	Tall Shrub	
No	rthern Pin Oak	10	Log/XLog	14		Prairi	ie Willow	Trace	< 5 feet	Tall Shrub	resulted in regen that is variable in distribution, age, density & species
	White Oak	25	Sapling	2	44						mix. Was burned in the May 1975 North Down River Road fire. Set the stand's first age to that disturbance event, although there are likely
No	rthern Pin Oak	20	Sapling	2							younger age bands present also.
	Jack Pine	10	Sapling	3							, , ,
47	4125 - Blac	k, N. Pin O	ak	Sapling	Medium	26.0	16 I	mmature	N/A		Was final harvested January 2003 (#035-01), cutting stems 2"+ DBH.
C	anopy Species	% Cover	Size Class	DBI	H Age	Sub-Can	nopy Species	Density	Avg. Height	Size	Mosaic of regen from cut: NPO stump sprouts, scattered aspen clones, cherry brush, & JP. Has poorly-stocked areas on the lower slopes and
В	igtooth Aspen	20	Sapling	2	16	Northe	rn Pin Oak	Low	< 5 feet	Seeding	along roads.
No	rthern Pin Oak	60	Sapling	3	16	Prairi	ie Willow	Trace	< 5 feet	Tall Shrub	
	Jack Pine	10	Sapling	2	16			,			•
	Black Cherry	10	Sapling	2	16						
48	4199 - Other Mixe	d Upland D	eciduous	Sapling	Medium	35.1	5	1-50	N/A		Mature mixed oak stand was seed tree harvested in 2014 (#622-11),
C	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Can	nopy Species	Density	Avg. Height	Size	cutting stems 2"+ DBH except RP-WP, green-marked (10-20 BA cruised residual), & a retention island along the tank trail. Regenerating well to a
Black	Red (Hybrid) Oak	30	Sapling	1	5	Wh	ite Oak	Medium	< 5 feet	Sapling	mix of O-A-RM. Cicada egg-laying damage on the BTA. Residual is
В	igtooth Aspen	15	Sapling	1	5	Re	ed Pine	Trace	< 5 feet	Seeding	primarily WO, with RP in the east & NPO on the NW edge. Can't reflect
	Red Maple	10	Sapling	1	5	Black/Red	d (Hybrid) Oak	Low	< 5 feet	Seeding	that the mature WO size range is Log/Pole/xLog due to a MiFI error; JP would be called 8" ave and Pole/Log. Does not pass regen survey to the
	White Oak	20	Sapling	1	5			-			new 6' height standard, but stem densities are good, deer browse is light
	White Oak	10	Log/XLog	13	105						& the oak is recruiting. On its current trajectory, the regen should pass in a few more years.
49	42220 - Nati	ural Jack P	ine P	oletimbe	er Mediur	n 62.2	53	51-80	N/A		Merch JP-A were cut in 1963 (#48-62A, Comp 237 sale file).
	Canopy Species	% Cover	Size Class	DBI	H Age	Sub-Can	nopy Species	Density	Avg. Height	Size	Regenerated to a patchy distribution of JP running 5-8" DBH, with low density saw-sized JP, NPO & RP residual from the cut. The oak is
C	rthern Pin Oak	9	Log	14			ck Pine	Low	5 - 10 feet	Sapling	mostly in the north half. Open-grown form where stand was slower to fill
	illielli ill Oak		_					-	T 40 foot		l
	Jack Pine	90	Pole	7	53	Serviceber	rry (Juneberry)	Trace	5 - 10 feet	Tall Shrub	, 5
		90	Pole	7	53		rry (Juneberry) rn Pin Oak	Low	5 - 10 feet 5 - 10 feet	Sapling	overmature JP are dying out, but the majority younger poles are relatively healthy. Aged that majority small pole cover, not the residual saw.



Stand	Level 4 Co	over Type	5	Size De	ensity	Acres Stand Age E	sa Range	Managed S	ite	General Comments
50	4126 - White, E	Black, N. P	in Oak S	awtimb	er Poor	28.7 107	1-50	N/A		Mature mixed oak stand was seed tree harvested in 2014 (#622-11), cutting stems 2"+ DBH except RP-WP & green-marked (20 BA cruised
(Canopy Species	% Cover	Size Class		I Age	Sub-Canopy Species	Density	Avg. Height	Size	residual) and an island along the tank trail (merged into stand 58).
	White Oak	60	Log/Pole/XLog		107	Red Maple	Low	5 - 10 feet	Sapling	Relatively short WO small saw on hillside, with enough residual to feature
Black	k/Red (Hybrid) Oak	10	Log	13		White Oak	Medium	< 5 feet	Sapling	as the canopy. Does not pass regen survey to the new 6' height standard, but stem densities are good, deer browse is light & the oak is
N	orthern Pin Oak	20	Log	14		Black/Red (Hybrid) Oak	Medium	< 5 feet	Sapling	recruiting. On its current trajectory, the regen should pass in a few more
						Jack Pine	Trace	Variable	Sapling	years.
						Bigtooth Aspen	Low	5 - 10 feet	Sapling	
						White Oak	Medium	< 5 feet	Seeding	
						Black Cherry	Medium	< 5 feet	Tall Shrub	
51	4126 - White, E	Black, N. P	in Oak	Sapling	Poor	31.3 5	Immature	N/A		JP stand was final harvested in 2014 (#622-11), cutting merch stems
(Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Canopy Species	Density	Avg. Height	Size	except RP-WP-O-RM (<5 BA cruised residual). Stand boundary picks up an inclusion (1.5 ac) in the east end from stand 52's 2003 harvest. High
	Jack Pine	15	Sapling/Pole	4		Northern Pin Oak	Low	< 5 feet	Seeding	wind event after the harvest root-tipped NPO residual in the stand's south
N	orthern Pin Oak	35	Sapling	1	5	White Oak	Low	< 5 feet	Seeding	half. Canopy closure drifts off either end of the 25-50% category,
	Quaking Aspen	10	Sapling	1	5	Black Cherry	Medium	5 - 10 feet	Sapling	sparsest along the highway and heavier in the north half. The sapling canopy is made up of regen from the cut and older advanced stems.
	White Oak	30	Sapling	2						Second age estimate on the residual oak is from stand 50. The regen
										from the cut was not tall enough in 2019 to meet the new 6' min height, so it did not pass the regen check. Browse is light, so there is good potential for that oak to recruit with more time. The pre-harvest WO saplings are already secure. Cover is expected to remain sparse along the highway.
52	4131 - A	spen, Oak	Si	apling I	Medium	8.1 16	Immature	N/A		so it did not pass the regen check. Browse is light, so there is good potential for that oak to recruit with more time. The pre-harvest WO saplings are already secure. Cover is expected to remain sparse along the highway. Was final harvested January 2003 (#035-01), cutting stems 2"+ DBH.
	4131 - A Canopy Species		Size Class		Medium	8.1 16 Sub-Canopy Species		N/A Avg. Height	Size	so it did not pass the regen check. Browse is light, so there is good potential for that oak to recruit with more time. The pre-harvest WO saplings are already secure. Cover is expected to remain sparse along the highway. Was final harvested January 2003 (#035-01), cutting stems 2"+ DBH. Dense patches of aspen regen with upland shrub cover in between. BTA
(so it did not pass the regen check. Browse is light, so there is good potential for that oak to recruit with more time. The pre-harvest WO saplings are already secure. Cover is expected to remain sparse along the highway. Was final harvested January 2003 (#035-01), cutting stems 2"+ DBH.
E	Canopy Species	% Cover	Size Class	DBF	I Age	Sub-Canopy Species	Density	Avg. Height		so it did not pass the regen check. Browse is light, so there is good potential for that oak to recruit with more time. The pre-harvest WO saplings are already secure. Cover is expected to remain sparse along the highway. Was final harvested January 2003 (#035-01), cutting stems 2"+ DBH. Dense patches of aspen regen with upland shrub cover in between. BTA in the west, QA in the east. NPO & WO saplings scattered throughout.
E	Canopy Species Bigtooth Aspen	% Cover	Size Class Sapling	DB F 2	16	Sub-Canopy Species Prairie Willow	Density Low	Avg. Height < 5 feet	Tall Shrub	so it did not pass the regen check. Browse is light, so there is good potential for that oak to recruit with more time. The pre-harvest WO saplings are already secure. Cover is expected to remain sparse along the highway. Was final harvested January 2003 (#035-01), cutting stems 2"+ DBH. Dense patches of aspen regen with upland shrub cover in between. BTA in the west, QA in the east. NPO & WO saplings scattered throughout.
E No	Canopy Species Bigtooth Aspen orthern Pin Oak	% Cover 20 10	Size Class Sapling Sapling	DBH 2 2	16 16	Sub-Canopy Species Prairie Willow	Density Low	Avg. Height < 5 feet	Tall Shrub	so it did not pass the regen check. Browse is light, so there is good potential for that oak to recruit with more time. The pre-harvest WO saplings are already secure. Cover is expected to remain sparse along the highway. Was final harvested January 2003 (#035-01), cutting stems 2"+ DBH. Dense patches of aspen regen with upland shrub cover in between. BTA in the west, QA in the east. NPO & WO saplings scattered throughout.
E No	Canopy Species Bigtooth Aspen orthern Pin Oak White Oak	% Cover 20 10 10 50	Size Class Sapling Sapling Sapling Sapling	2 2 2	1 Age 16 16 16 16	Sub-Canopy Species Prairie Willow Black Cherry	Density Low	Avg. Height < 5 feet	Tall Shrub	so it did not pass the regen check. Browse is light, so there is good potential for that oak to recruit with more time. The pre-harvest WO saplings are already secure. Cover is expected to remain sparse along the highway. Was final harvested January 2003 (#035-01), cutting stems 2"+ DBH. Dense patches of aspen regen with upland shrub cover in between. BTA in the west, QA in the east. NPO & WO saplings scattered throughout. See field notes. JP stand was final harvested in 2002 (#020-01), cutting stems 2"+ DBH.
55	Canopy Species Bigtooth Aspen orthern Pin Oak White Oak Quaking Aspen	% Cover 20 10 10 50 htted Jack F	Size Class Sapling Sapling Sapling Sapling	DBH 2 2 2 2 2 2 Sapling	1 Age 16 16 16 16	Sub-Canopy Species Prairie Willow Black Cherry	Low Medium	Avg. Height < 5 feet 5 - 10 feet	Tall Shrub	so it did not pass the regen check. Browse is light, so there is good potential for that oak to recruit with more time. The pre-harvest WO saplings are already secure. Cover is expected to remain sparse along the highway. Was final harvested January 2003 (#035-01), cutting stems 2"+ DBH. Dense patches of aspen regen with upland shrub cover in between. BTA in the west, QA in the east. NPO & WO saplings scattered throughout. See field notes. JP stand was final harvested in 2002 (#020-01), cutting stems 2"+ DBH. Was furrow-seeded to JP in fall 2002 (C72-470), then re-planted by hand
55	Canopy Species Bigtooth Aspen lorthern Pin Oak White Oak Quaking Aspen 42120 - Plan	% Cover 20 10 10 50 htted Jack F	Size Class Sapling Sapling Sapling Sapling Sapling	DBH 2 2 2 2 2 2 Sapling	16 16 16 Well	Sub-Canopy Species Prairie Willow Black Cherry	Low Medium	Avg. Height < 5 feet 5 - 10 feet	Tall Shrub	so it did not pass the regen check. Browse is light, so there is good potential for that oak to recruit with more time. The pre-harvest WO saplings are already secure. Cover is expected to remain sparse along the highway. Was final harvested January 2003 (#035-01), cutting stems 2"+ DBH. Dense patches of aspen regen with upland shrub cover in between. BTA in the west, QA in the east. NPO & WO saplings scattered throughout. See field notes. JP stand was final harvested in 2002 (#020-01), cutting stems 2"+ DBH.
55	Canopy Species Bigtooth Aspen lorthern Pin Oak White Oak Quaking Aspen 42120 - Plar Canopy Species	% Cover 20 10 10 50 htted Jack F	Size Class Sapling Sapling Sapling Sapling Sapling Size Class	DBH 2 2 2 2 2 Sapling	16 16 16 16 Well Age	Sub-Canopy Species Prairie Willow Black Cherry	Low Medium	Avg. Height < 5 feet 5 - 10 feet	Tall Shrub	so it did not pass the regen check. Browse is light, so there is good potential for that oak to recruit with more time. The pre-harvest WO saplings are already secure. Cover is expected to remain sparse along the highway. Was final harvested January 2003 (#035-01), cutting stems 2"+ DBH. Dense patches of aspen regen with upland shrub cover in between. BTA in the west, QA in the east. NPO & WO saplings scattered throughout. See field notes. JP stand was final harvested in 2002 (#020-01), cutting stems 2"+ DBH. Was furrow-seeded to JP in fall 2002 (C72-470), then re-planted by hand in spring 2003. Most of the planted stock was JP, with an unspecified
55	Canopy Species Bigtooth Aspen lorthern Pin Oak White Oak Quaking Aspen 42120 - Plan Canopy Species Jack Pine	% Cover	Size Class Sapling Sapling Sapling Sapling Pine Size Class Sapling Sapling	2	1 Age 16 16 16 16 16 16 18 Well 1 Age 16	Sub-Canopy Species Prairie Willow Black Cherry 13.7 16	Low Medium	Avg. Height < 5 feet 5 - 10 feet	Tall Shrub	so it did not pass the regen check. Browse is light, so there is good potential for that oak to recruit with more time. The pre-harvest WO saplings are already secure. Cover is expected to remain sparse along the highway. Was final harvested January 2003 (#035-01), cutting stems 2"+ DBH. Dense patches of aspen regen with upland shrub cover in between. BTA in the west, QA in the east. NPO & WO saplings scattered throughout. See field notes. JP stand was final harvested in 2002 (#020-01), cutting stems 2"+ DBH. Was furrow-seeded to JP in fall 2002 (C72-470), then re-planted by hand in spring 2003. Most of the planted stock was JP, with an unspecified amount of overflow RP & WP mixed in. Excessive stocking where the initial seeding took. The planted RP recruited best in the stand's south edge. Scattered BC, NPO stump sprouts from cut.
55 No.	Canopy Species Bigtooth Aspen lorthern Pin Oak White Oak Quaking Aspen 42120 - Plar Canopy Species Jack Pine lorthern Pin Oak	% Cover	Size Class Sapling Sapling Sapling Sapling Pine Size Class Sapling Sapling	DBH 2 2 2 2 Sapling DBH 2 2 2 etimbe	1 Age 16 16 16 16 16 16 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	Sub-Canopy Species Prairie Willow Black Cherry 13.7 16	Density Low Medium Immature	Avg. Height < 5 feet 5 - 10 feet N/A	Tall Shrub	so it did not pass the regen check. Browse is light, so there is good potential for that oak to recruit with more time. The pre-harvest WO saplings are already secure. Cover is expected to remain sparse along the highway. Was final harvested January 2003 (#035-01), cutting stems 2"+ DBH. Dense patches of aspen regen with upland shrub cover in between. BTA in the west, QA in the east. NPO & WO saplings scattered throughout. See field notes. JP stand was final harvested in 2002 (#020-01), cutting stems 2"+ DBH. Was furrow-seeded to JP in fall 2002 (C72-470), then re-planted by hand in spring 2003. Most of the planted stock was JP, with an unspecified amount of overflow RP & WP mixed in. Excessive stocking where the initial seeding took. The planted RP recruited best in the stand's south edge. Scattered BC, NPO stump sprouts from cut.
55 No.	Canopy Species Bigtooth Aspen Iorthern Pin Oak White Oak Quaking Aspen 42120 - Plar Canopy Species Jack Pine Iorthern Pin Oak	% Cover	Size Class Sapling Sapling Sapling Sapling Pine Size Class Sapling Sapling Sapling	DBH 2 2 2 2 Sapling DBH 2 2 2 etimbe	1 Age	Sub-Canopy Species Prairie Willow Black Cherry 13.7 16	Density Low Medium Immature	Avg. Height < 5 feet 5 - 10 feet N/A	Tall Shrub	so it did not pass the regen check. Browse is light, so there is good potential for that oak to recruit with more time. The pre-harvest WO saplings are already secure. Cover is expected to remain sparse along the highway. Was final harvested January 2003 (#035-01), cutting stems 2"+ DBH. Dense patches of aspen regen with upland shrub cover in between. BTA in the west, QA in the east. NPO & WO saplings scattered throughout. See field notes. JP stand was final harvested in 2002 (#020-01), cutting stems 2"+ DBH. Was furrow-seeded to JP in fall 2002 (C72-470), then re-planted by hand in spring 2003. Most of the planted stock was JP, with an unspecified amount of overflow RP & WP mixed in. Excessive stocking where the initial seeding took. The planted RP recruited best in the stand's south edge. Scattered BC, NPO stump sprouts from cut.
55 No.	Canopy Species Bigtooth Aspen lorthern Pin Oak White Oak Quaking Aspen 42120 - Plar Canopy Species Jack Pine lorthern Pin Oak 42220 - Nate Canopy Species	% Cover	Size Class Sapling Sapling Sapling Sapling Pine Size Class Sapling Sapling Sapling Size Class Sapling Size Class	DBH 2 2 2 2 2 Sapling DBH 2 2 etimbe	1 Age	Sub-Canopy Species Prairie Willow Black Cherry 13.7 16 1 1.0 64 Sub-Canopy Species	Density Low Medium Immature 51-80 Density	Avg. Height < 5 feet 5 - 10 feet N/A N/A Avg. Height	Tall Shrub Tall Shrub	so it did not pass the regen check. Browse is light, so there is good potential for that oak to recruit with more time. The pre-harvest WO saplings are already secure. Cover is expected to remain sparse along the highway. Was final harvested January 2003 (#035-01), cutting stems 2"+ DBH. Dense patches of aspen regen with upland shrub cover in between. BTA in the west, QA in the east. NPO & WO saplings scattered throughout. See field notes. JP stand was final harvested in 2002 (#020-01), cutting stems 2"+ DBH. Was furrow-seeded to JP in fall 2002 (C72-470), then re-planted by hand in spring 2003. Most of the planted stock was JP, with an unspecified amount of overflow RP & WP mixed in. Excessive stocking where the initial seeding took. The planted RP recruited best in the stand's south edge. Scattered BC, NPO stump sprouts from cut.
55 No.	Canopy Species Bigtooth Aspen lorthern Pin Oak White Oak Quaking Aspen 42120 - Plar Canopy Species Jack Pine lorthern Pin Oak 42220 - Nate Canopy Species	% Cover	Size Class Sapling Sapling Sapling Sapling Pine Size Class Sapling Sapling Sapling Size Class Sapling Size Class	DBH 2 2 2 2 2 Sapling DBH 2 2 etimbe	1 Age	Sub-Canopy Species Prairie Willow Black Cherry 13.7 16 1.0 64 Sub-Canopy Species Jack Pine	Density Low Medium Immature 51-80 Density Low	Avg. Height < 5 feet 5 - 10 feet N/A N/A Avg. Height 10 - 20 feet	Tall Shrub Tall Shrub Size Sapling	so it did not pass the regen check. Browse is light, so there is good potential for that oak to recruit with more time. The pre-harvest WO saplings are already secure. Cover is expected to remain sparse along the highway. Was final harvested January 2003 (#035-01), cutting stems 2"+ DBH. Dense patches of aspen regen with upland shrub cover in between. BTA in the west, QA in the east. NPO & WO saplings scattered throughout. See field notes. JP stand was final harvested in 2002 (#020-01), cutting stems 2"+ DBH. Was furrow-seeded to JP in fall 2002 (C72-470), then re-planted by hand in spring 2003. Most of the planted stock was JP, with an unspecified amount of overflow RP & WP mixed in. Excessive stocking where the initial seeding took. The planted RP recruited best in the stand's south edge. Scattered BC, NPO stump sprouts from cut.