

Compartment Review Presentation

Atlanta Forest Management Unit Compartment 54078 Entry Year 2019 Acreage: 1,571 County Montmorency Management Area: Kirtland's Warbler

Revision Date: 2017-05-24

Stand Examiner: Chad Fate

Legal Description:

T32N R02E Sec 21, 22, 27, 28, 33

Identified Planning Goals:

The main goal in this compartment is Kirtland Warbler habitat as well multiple resource management for the good of the citizens of the State of Michigan.

Soil and topography:

The topography of the compartment is level upland ground predominated by Jack Pine.

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

There is a few small private in holdings within the compartment and the Clear Lake State Park is in the SE corner of the compartment.

Unique Natural Features:

Some species are present in and around the compartment.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

The majority of this compartment is a High Conservation Value Area for Kirtland Warbler habitat management.

Watershed and Fisheries Considerations:

Fisheries Division asks for a 300 foot buffer strip as per Fisheries Division Policy and Procedure 02.02.011 in stand 27. These upper reaches of Canada Creek support wild brook trout populations. Canada Creek Ranch members spend considerable time trying to control beaver populations (recruiting trappers and removing old dams) not only within the ranch boundaries, but also upstream, specifically in Section 33. There has been a plethora of excessive beaver activity in this area. Fisheries Division also asks that any future management plans for this area by FRD do not encourage beaver activity. Hourly temperature loggers are placed in various reaches of Canada Creek each year (through the ranch) by ranch members and this information is shared with MDNR Fisheries Division. We typically see water temperatures on the verge of not being suitable to brook trout nearly every summer. Increased water warming in the upper reaches will only degrade the cold water habitat further

Wildlife Habitat Considerations:

This compartment is part of a larger component of state land designated for Kirtland's Warbler management. Jack pine is managed in large patches with relatively high stem densities to provide breeding habitat. Rotational age class diversity is important to maintain habitat across time. Other game and non-game species such as white-tailed deer and snowshoe hare benefit from this management.

Mineral Resource and Development Concerns and/or Restrictions

There is no metallic mineral potential in this part of the state. A former state sand/gravel pit is located in sections 27 & 34, and there appears to be some additional potential within the compartment. The compartment is mostly leased and unitized for Antrim Shale development. Relatively few producing wells are currently within the compartment. Therefore, this area is likely to see additional drilling in the future if natural gas prices rise. The north end of the compartment may be approaching the geographic limit of Antrim development potential, as the Antrim Shale is thinning and appears to disappear just north of the compartment.

Vehicle Access:

This compartment is accessed from Highway M-33 & County Roads: Co Rd 622 & Clear Lake Drive. There are several two tracks for traversing the area.

Survey Needs:

None Known at this time.

Recreational Facilities and Opportunities:

The State Park has a nature hiking trail which extends into Section 33 and there are many opportunities for hunting and wildlife viewing in the area.

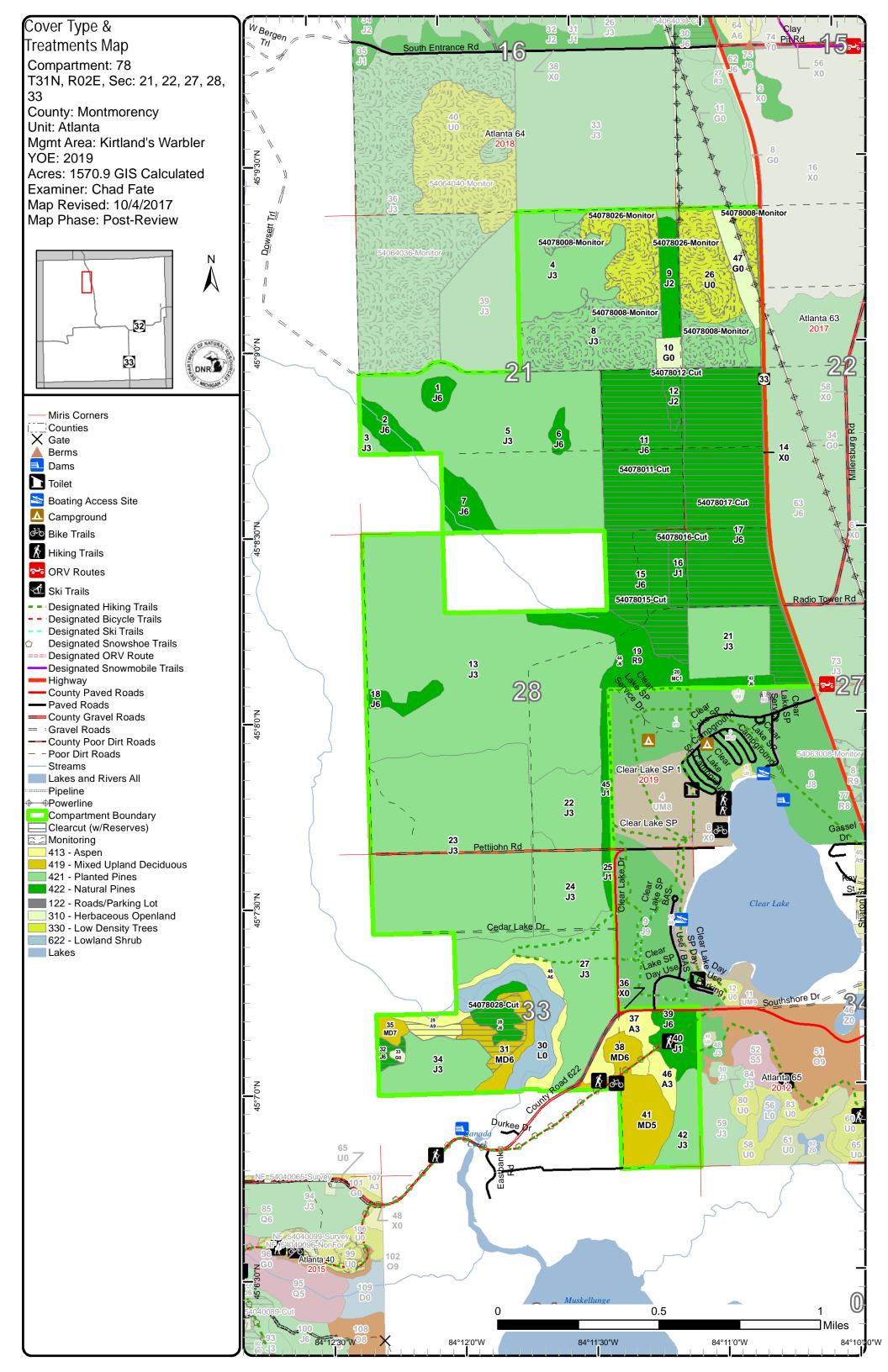
Fire Protection:

Fire response to the compartment will be covered by the Atlanta DNR office as well as the Hillman Fire Department.

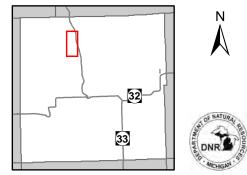
Additional Compartment Information:

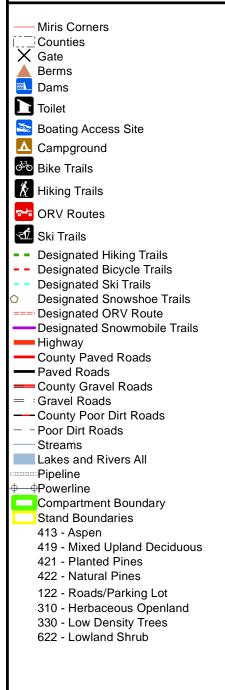
The following reports from the Inventory are attached: Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

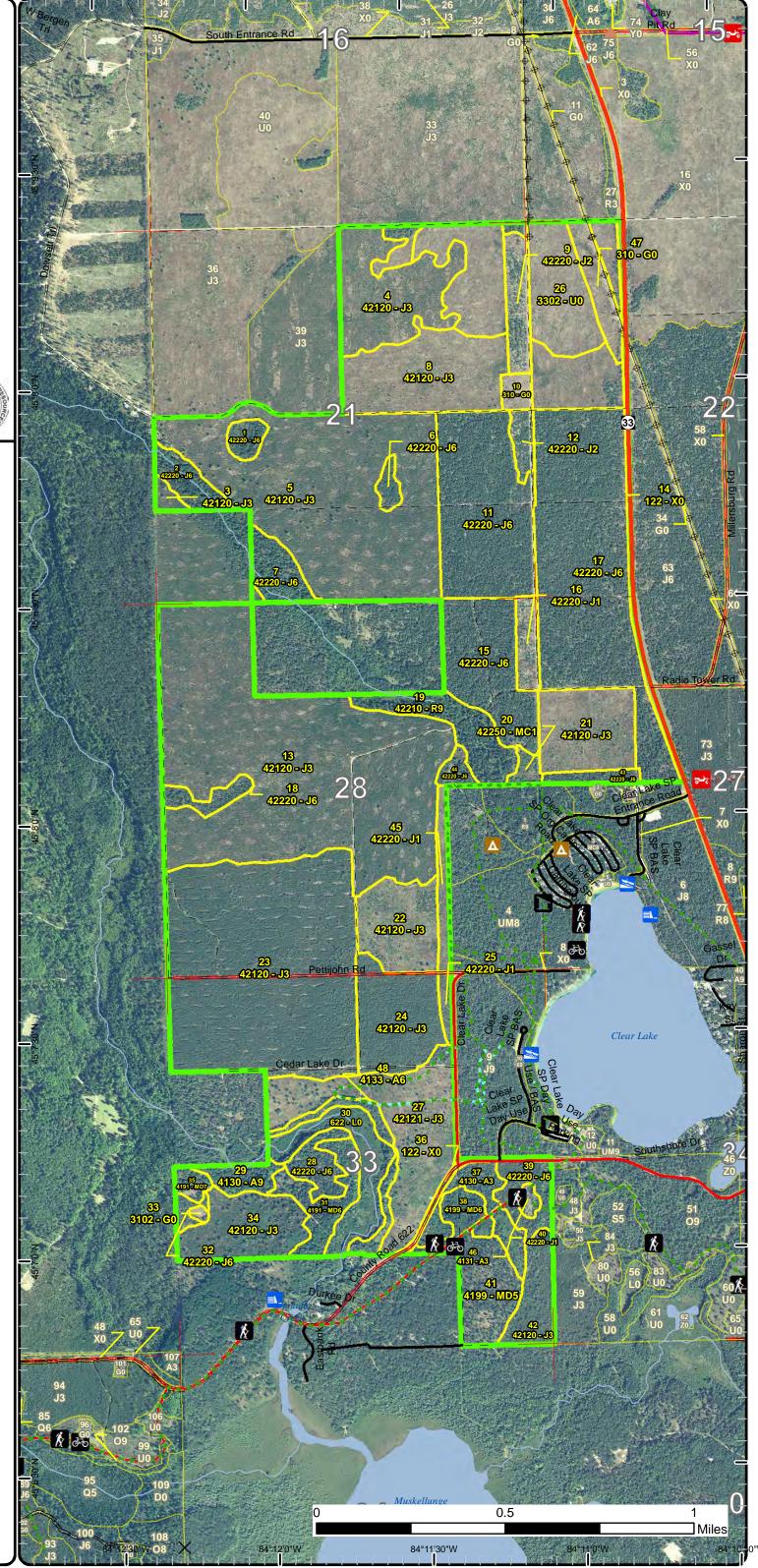
The following information is displayed, where pertinent, on the attached compartment maps: Base feature information, stand boundaries, cover types, and numbers Proposed treatments Site condition boundaries Details on the road access system

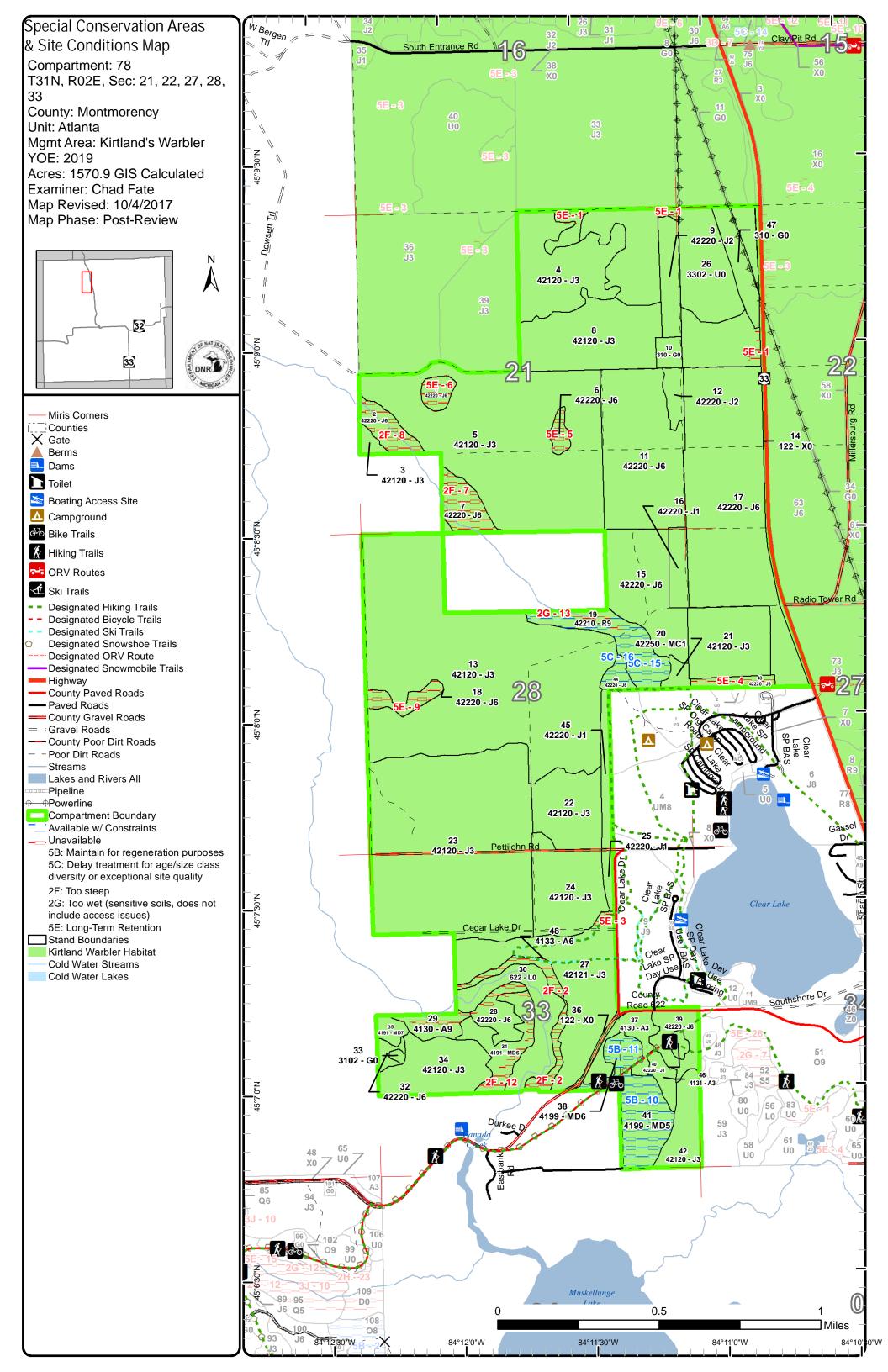


Stand Boundary Map Compartment: 78 T31N, R02E, Sec: 21, 22, 27, 28, 33 County: Montmorency Unit: Atlanta Mgmt Area: Kirtland's Warbler YOE: 2019 Acres: 1570.9 GIS Calculated Examiner: Chad Fate Map Revised: 10/4/2017 Map Phase: Post-Review









Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit

Chad Fate : Examiner



Age Class

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Aspen	0	6	12	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	38
Herbaceous Openland	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Jack Pine	0	224	503	258	0	131	102	45	17	35	0	0	0	0	0	0	0	0	1315
Low-Density Trees	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71
Lowland Shrub	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	13	45	0	0	0	0	0	0	0	58
Natural Mixed Pines	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Red Pine	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	24
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Total	132	230	519	258	0	131	102	45	41	68	45	0	0	0	0	0	0	0	1571



 Year of Entry: 2019
 Acres of Harvest
 Total Compartment Acres: 1,571

 Commercial Harvest - 292
 Commercial Harvest - 292

 Harvests with Site Condition - 0
 Next Step Harvest - 0

 Habitat Cut - 0
 Habitat Cut - 0

Cover Type by Harvest Method

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Aspen		4	0	0	0	0	0	0	0	0	4	
Jack Pine		277	0	0	0	0	0	0	0	0	277	
Mixed Upland Deciduous		11	0	0	0	0	0	0	0	0	11	
	Total	292	0	0	0	0	0	0	0	0	292	

Proposed and Next Step Treatments by Method

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Current		292	0	0	0	0	0	149	0	0	440	
Next Step		0	312	312	0	0	46	650	0	0	1320	
	Total	292	312	312	0	0	46	798	0	0	1760	

Comment: Proposed Start Date: 10/01/2019 12 54078012-Cut 6.4 42220 - Natural Jack Pine Medium re Harvest Medium re Clearcut A212 - Planted Jack Pine Even-Aged Boundary Boundary Habitat Cut: No Site Condition: Site Condition: Site Condition: Site Condition: Site Condition: Next Step SitePrep, Trenching: Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) Next Step SitePrep, Trenching: Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) Other SiteProposed Start Date: 10/01/2019 Vert Step Site Condition: Proposed Start Date: 10/01/2019 Vert Step Site Condition: Vert Step Site Condition: Prescription Clearcut, leave retention for visual near PVT property. Cut stumps low, chip tops, follow KW timing specs for cutting and hauling. Contract and plant JP as per KW plan. Mabitat Cut: No Site Condition: Vert Step Site Condition: Vert Step Site Condition: Prescription Clearcut, leave retention for visual near PVT property. Cut stumps low, chip tops, follow KW timing specs for cutting and hauling. Contract	S t		۵	tlanta Mgt. Unit		Re	eport 3	Treatme	nts	•	ment: 78 Entry: 2019	DIR DIR E
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Regen: Other Comment: Proposed Start Date: 10/01/2019 15 54078015-Cut 45.4 42220 - Natural Poletimber 62 51-80 Harvest Clearcut with 4212 - Planted Even-Aged Draft Field Jack Pine Well 62 51-80 Harvest Clearcut with 4212 - Planted Even-Aged Draft Field Habitat Cut: No Site Condition: Site Condition: Draft Field Boundary Prescription Clearcut, leave retention for visual near PVT property. Cut stumps low, chip tops. follow KW timing specs for cutting and hauling. Contract and specs: SitePrep, Trenching; Planting, Initial Plant; Monitoring, Natural Regen (Intermediate); Monitoring, Artificial Regen(3yr) Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Natural Regen (Intermediate); Monitoring, Artificial Regen(3yr) Treatments: Acceptable Fully stocked stand of jack pine Regen: Other Comment: Other			ep, Trench	ing; Planting, Initial	Plant; Mo	onitorin	g, Artificia	I Regen(1yr);	Monitoring, Artificia	l Regen(3yr)		
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15 54078015-Cut 45.4 42220 - Natural Veltimber 62 51-80 Harvest Clearcut with Retention 4212 - Planted Jack Pine Even-Aged Boundary Habitat Cut: No Site Condition: Prescription Clearcut, leave retention for visual near PVT property. Cut stumps low, chip tops. follow KW timing specs for cutting and hauling. Contract and extensions must be completed by 2023. Trench and plant JP as per KW plan. Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Natural Regen (Intermediate); Monitoring, Artificial Regen(3yr) Acceptable Fully stocked stand of jack pine Regen: Other Comment: Comment:	<u>Other</u> Comm	ient:										
Jack Pine Well Retention Jack Pine Boundary Habitat Cut: No Site Condition: Boundary Prescription Specs: Clearcut, leave retention for visual near PVT property. Cut stumps low, chip tops. follow KW timing specs for cutting and hauling. Contract and contract and plant JP as per KW plan. Contract and plant JP as per KW plan. Contract and plant JP as per KW plan. Next Step Treatments: SitePrep, Trenching; Planting, Initial Plant; Monitoring, Natural Regen (Intermediate); Monitoring, Artificial Regen(3yr) Vertical Kegen(3yr) Acceptable Regen: Fully stocked stand of jack pine Fully stocked stand ping Fully stocked stand ping <td< td=""><td>Propos</td><td>sed Start Date</td><td><u>:</u> 10/0⁻</td><td>1/2019</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Propos	sed Start Date	<u>:</u> 10/0 ⁻	1/2019								
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Treatments: Acceptable Fully stocked stand of jack pine Regen: Other Comment: Comment:	Prescr	ription Clearco		Site Condition: etention for visual ne	ar PVT pro						and hauling. C	
Regen: Other Comment:			ep, Trench	ing; Planting, Initial	Plant; Mo	onitorin	g, Natural	Regen (Interm	ediate); Monitoring	g, Artificial Regen	(3yr)	
Comment:	-		ocked sta	nd of jack pine								
Proposed Start Date: 10/01/2019	<u>Other</u> Comm	ient:										
	Propos	sed Start Date	<u>:</u> 10/0 ²	1/2019								

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S t		A	tlanta Mgt. Unit		R	eport 3	Treatme	nts	•	ment: 78 Entry: 2019	NATURAL MANANA DNR
a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
16	54078016-Cut	9.3	42220 - Natural Jack Pine	Sapling Poor	15	Immatu re	Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary
			Site Condition: ntion necessary due t and extensions mu							ing specs for c	utting and
	<u>Step</u> SitePre tments:	ep, Trenchi	ing; Planting, Initial	Plant; M	onitorin	g, Artificia	Regen(1yr);	Monitoring, Artificia	al Regen(3yr)		
Acce Reg	e <u>ptable</u> fully sto en:	ocked stan	d of Jack pine								
<u>Othe</u> Com	e <u>r</u> ment:										
	osed Start Date: 54078017-Cut	_		Poletimbe	r 42	1-50	Harvest	Clearcut with	4212 - Planted	Even Aged	Draft Field
		130.7	Jack Pine	Well	42	1-50	Haivesi	Retention	Jack Pine	Even-Aged	Boundary
	<u>itat Cut:</u> No <u>cription</u> Clearcu	ut, leave re	Site Condition: etention for visual ne	ar M-33 ar	nd Clea	r Lake Sta	te Park. Cut stu	umps low, chip top:	s. follow KW timin	g specs for cut	tting and
	<u>Step</u> SitePre		t and extensions muing; Planting, Initial			•					
	tments:	okod otop	d of look pipo								
Reg	e <u>ptable</u> fully sto en:	JCKEU SIAN	u of Jack pille								
	e <u>r</u> ment:										
Com	_	<u>:</u> 10/01	/2019								
Prop 26	ment: osed Start Date: 54078026- Monitor	-	3302 - Low Density Conifer Trees	Nonstocke	d		Monitoring	Other - Specify	4212 - Planted Jack Pine	Even-Aged	
Prop 26 Hab	ment: osed Start Date 54078026- Monitor <u>itat Cut:</u> No cription Monitor	46.2 3	3302 - Low Density			ion collaps	Ũ			Even-Aged	Draft Field Boundary
Com Prop 26 Hab Pres Spec	ment: osed Start Date 54078026- Monitor itat Cut: No cription Monitor s:	46.2 3	3302 - Low Density Conifer Trees <u>Site Condition:</u>	fly. When∣	populat		ses, replant JP.		Jack Pine	Ū	
2 om 2 rop 2 6 Hab 2 res 3 pec Next Trea	ment: osed Start Date 54078026- Monitor itat Cut: No cription Monitor s: Step SitePre tments: eptable fully sto	46.2 3 r the sprea ep, Trenchi	3302 - Low Density Conifer Trees <u>Site Condition:</u> Id of redheaded saw	fly. When∣	populat		ses, replant JP.		Jack Pine	Ū	
2 com 2 rop 2 c 2 c 2 c 2 c 2 c 2 c 2 c 2 c	ment: osed Start Date 54078026- Monitor <u>itat Cut:</u> No cription Monitor cs: Step SitePre tments: sptable fully sto en:	46.2 3 r the sprea ep, Trenchi	3302 - Low Density Conifer Trees <u>Site Condition:</u> Id of redheaded saw	fly. When∣	populat		ses, replant JP.		Jack Pine	Ū	
Com Prop 26 26 Pres Spec Next Crea Acce Regu	ment: osed Start Date 54078026- Monitor <u>itat Cut:</u> No cription Monitor s: Step SitePre tments: eptable fully sto en: er	46.2 3 r the sprea ep, Trenchi ocked JP fo	3302 - Low Density Conifer Trees <u>Site Condition:</u> Id of redheaded saw	fly. When∣	populat		ses, replant JP.		Jack Pine	Ū	
20m Prop 26 Pres Pres Spec Next Irea Acces Com Prop	ment: osed Start Date 54078026- Monitor <u>itat Cut:</u> No cription Monitor ss: Step SitePre tments: sptable fully sto en: fully sto en:	46.2 3 r the sprea ep, Trenchi ocked JP fo	3302 - Low Density Conifer Trees <u>Site Condition:</u> Id of redheaded saw Ing; Planting, Initial or KW	fly. When∣	populat		ses, replant JP.		Jack Pine	Ū	Boundary Draft Field
Com Prop 26 Pres Spec Pres Spec Pres Com Prop 28 Hab	ment: osed Start Date 54078026- Monitor itat Cut: No cription Monitor s: Step SitePre tments: sptable fully sto en: fully sto fully sto en: fully sto en: fully sto fully sto en: fully sto fully sto fully fully sto fully sto fully fully sto fully fully fully fully full	46.2 3 r the sprea ep, Trenchi ocked JP fo <u>: 10/01</u> 7.8 ut. Retenti	 3302 - Low Density Conifer Trees <u>Site Condition:</u> ad of redheaded saw ang; Planting, Initial or KW /2017 42220 - Natural 	fly. When p Plant; Pe Poletimber Well steep slop	populat esticide r 52 wes and	, Aerial; 1 81-110 river buffe	ses, replant JP. Monitoring, Artif Harvest er, no additional	icial Regen(1yr); Clearcut with Retention	Jack Pine Monitoring, Artifici 4222 - Natural Jack Pine	al Regen(3yr)	Boundary Draft Field Boundary
2007 226 Hab Press Spec Next Trea Access Com Prop 28 Hab Press Spec Next	ment: osed Start Date 54078026- Monitor itat Cut: No cription Monitor S: Step SitePre tments: sptable fully sto en: osed Start Date 54078028-Cut itat Cut: No cription Clearcu ser permise	46.2 3 r the sprea op, Trenchi ocked JP fo <u>: 10/01</u> 7.8 ut. Retenti sion to acc	 3302 - Low Density Conifer Trees <u>Site Condition:</u> ad of redheaded saw ing; Planting, Initial or KW /2017 42220 - Natural Jack Pine <u>Site Condition:</u> ion is already left on 	fly. When p Plant; Pe Poletimber Well steep slop reek Ranc	populat esticide r 52 wes and	, Aerial; 1 81-110 river buffe	ses, replant JP. Monitoring, Artif Harvest er, no additional	icial Regen(1yr); Clearcut with Retention	Jack Pine Monitoring, Artifici 4222 - Natural Jack Pine	al Regen(3yr)	Boundary Draft Field Boundary
2 om Prop 26 Hab Press Spec Next Com Prop 28 Hab Press Spec Next Trea Acce 20 Acce Acce Acce Acce Acce Acce Acce Acce Acce Acce Acce Acce	ment: osed Start Date 54078026- Monitor itat Cut: No cription Monitor is: Step SitePre tments: osed Start Date 54078028-Cut itat Cut: No cription Clearcu s: Dermise Step Monitor tments: Step Monitor	46.2 3 r the sprea ep, Trenchi ocked JP fo <u>: 10/01</u> 7.8 ut. Retenti sion to acc ring, Natur	 3302 - Low Density Conifer Trees <u>Site Condition:</u> d of redheaded saw ing; Planting, Initial or KW /2017 42220 - Natural Jack Pine <u>Site Condition:</u> ion is already left on press from Canada C 	fly. When p Plant; Pe Poletimbe Well steep slop reek Rancl ory)	populat esticide r 52 bes and h throug	, Aerial; 1 81-110 river buffe gh gate off	Harvest r, no additional	icial Regen(1yr); Clearcut with Retention	Jack Pine Monitoring, Artifici 4222 - Natural Jack Pine	al Regen(3yr)	Boundary Draft Field Boundary
2 om 2 rop 2 6 2 6 2 7 2 8 2 8 2 8 2 8 2 8 2 8 2 8 2 8	ment: osed Start Date 54078026- Monitor itat Cut: No cription Monitor s: Step SitePre tments: step fully sto ent osed Start Date 54078028-Cut itat Cut: No cription Clearcu s: permiss Step Monitor tments: Step Monitor	46.2 3 r the sprea ep, Trenchi ocked JP fo <u>: 10/01</u> 7.8 ut. Retenti sion to acc ring, Natur	3302 - Low Density Conifer Trees Site Condition: Ind of redheaded saw (ing; Planting, Initial or KW /2017 42220 - Natural Jack Pine Site Condition: from is already left on cess from Canada C al Regen (Re-Invent	fly. When p Plant; Pe Poletimbe Well steep slop reek Rancl ory)	populat esticide r 52 bes and h throug	, Aerial; 1 81-110 river buffe gh gate off	Harvest r, no additional	icial Regen(1yr); Clearcut with Retention	Jack Pine Monitoring, Artifici 4222 - Natural Jack Pine	al Regen(3yr)	Boundary Draft Field Boundary

S t		At	tlanta Mgt. Unit		Re	eport 3	Treatme	nts	•	ment: 78 Entry: 2019	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	Approval Status
29	54078029- CCut	4.1	4130 - Aspen	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
			Site Condition on is left on steep anada Creek Ranc	slopes and r		,		on is needed. Cut	with stands 28, 31	, and 32. Need	l permission
<u>Vext S</u> Freatr	<u>Step</u> Monito <u>ments:</u>	ring, Natur	al Regen (Re-Inve	ntory)							
Accep Reger		n to well st	ocked stand of as	oen with oak	and pir	ne					
<u>Other</u> Comm											
ropo	sed Start Date	<u>:</u> 05/03	/2017								
31 4	54078031-Cut		4191 - Mixed Jpland Deciduous with Conifer	Poletimber Well	95	51-80	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
Specs Next S	s: to acce	ess from Ca	on is left on steep anada Creek Ranc al Regen (Re-Inve	h through ga							
Accep Reger		n to well st	ocked stand of re	d oak, white	oak, ja	ck pine					
<u>Other</u> Comm											
Propo	sed Start Date	<u>:</u> 10/01	/2018								
32 !	54078032-Cut	3.3	42220 - Natural Jack Pine	Poletimber Well	52	81-110	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
	<u>tat Cut:</u> No		Site Condition	-	and siz	e and pler		cover type surrour	iding the stand. C	ut with stands	28. 29. and
	ription Clearc		ntion is needed du sion to access from			nch throug	gh gate off of Co	ounty Road 622.	-		-, -, -, -
Presc Specs Next S	ription Clearce <u>s:</u> 31. Ne	ed permiss		Canada Cro		nch throug	gh gate off of Co	ounty Road 622.	-		-, -,
Presc Specs Next S Freatr	ription Clearce <u>5:</u> 31. Ne <u>Step</u> Monito <u>ments:</u> Mediur	ed permiss ring, Natur	ion to access from	Canada Cro ntory)	eek Rai	nch throug	gh gate off of Co	ounty Road 622.	-		-, -,
Presc Specs Next S Freatr Accep	ription Clearc <u>s:</u> 31. Ne <u>Step</u> Monito <u>ments:</u> <u>btable</u> Mediur <u>n:</u>	ed permiss ring, Natur	sion to access from al Regen (Re-Inve	Canada Cro ntory)	eek Rai	nch throug	gh gate off of Co	ounty Road 622.	-		., ., .

Atlanta Mgt. Unit

Chad Fate : Examiner

Compartment: 78 Year of Entry: 2019

Availability for Management

Total	Acres	Acres Avail	Acres	I	Dominai	nt Site	e Con	dition	s
Acres	Available	With Condition	Not Available		5B	5C	2F	2G	5E
39	22	0	16	Aspen			16		
19	19	0	0	Herbaceous Openland					
1314	947	5	362	Jack Pine		5	269		92
71	71	0	0	Low-Density Trees					0
28	28	0	0	Lowland Shrub					
59	15	35	8	Mixed Upland Deciduous	35		8		
4	4	0	0	Natural Mixed Pines					
24	0	21	4	Red Pine		21		4	
14	14	0	0	Urban					
1,570	1,120	61	390	Total Forested Acres	35	25	294	4	93
	71%	4%	25%	Relative Percent					

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

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
C	omments:						
2	Unavailable	2F: Too steep	12	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
C	omments:						
3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						

Report 4 – Site Conditions

Compartment: 78

Chad Fate : Examiner

Atlanta Mgt. Unit

Year of Entry: 2019

4	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
5	Unavailable	5E: Long-Term Retention	4	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	5E: Long-Term Retention	6	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
	Comments:						
7	Unavailable	2F: Too steep	14	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments:						
8	Unavailable	2F: Too steep	11	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments:						
9	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
	1/2047 44-25-40 AM - D-	no 0 of 0					

		Atlanta Mgt. Unit nd Fate : Examiner		Report 4 – Site Cond	itions	Compartment: 78 Year of Entry: 2019	
10	Available	5B: Maintain for regeneration purposes	26	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						
11	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						
2	Unavailable	2F: Too steep	16	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
С	comments:						
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
С	comments:						
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
c	comments:						



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



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 conditi stocked trout populations and those of other coldwater fish spe- conditions for coldwater fishes may occur in Michigan lakes if th groundwater inflows, or are located in colder (northern) areas o Director's action and designated as trout resources by Fisherier	cies to persist from year to year. Suitable ney are relatively deep, have substantial f the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen con stocked trout populations and those of other coldwater fish spe- year to year. Coldwater streams in Michigan typically provide th contributions of groundwater to their stream flows. Such stream designated as trout resources by Fisheries Order 210.	cies (e.g., slimy sculpin) to persist from ese conditions due to substantial
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and coo U.S. Fish and Wildlife service for the recovery of threatened an 365, Endangered Species Protection, of the Natural Resources PA 451, and the Federal Endangered Species Act of 1973. This species plans in various stages of review. As of now only two e Plover Habitat.	d endangered species, as governed by Part and Environmental Protection Act, 1994 s is an active program, with proposed

S t	Atlanta	a Mgt. Unit		Report 7	 Forested 	Stands Compartment: 78 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42220 - Natural Jack Pine	Poletimber Well	5.7	70	81-110	Stand is a small lowland stand with scattered trees and includes steep slopes going down to bog. Hold for Retention from adjacent stand 5.
2	42220 - Natural Jack Pine	Poletimber Well	11.1	82	81-110	Buffer Along Stream. Very steep slopes
3	42120 - Planted Jack Pine	Sapling Well	3.2	15	Immature	Warbler Weave.
4	42120 - Planted Jack Pine	Sapling Well	48.8	12	Immature	Some individual dead trees scattered throughout
5	42120 - Planted Jack Pine	Sapling Well	161.8	15	Immature	Scattered Mature RP. Planted with Weave Pattern.
6	42220 - Natural Jack Pine	Poletimber Well	4.0	70		Leave for Retention from adjacent stand 5.
7	42220 - Natural Jack Pine	Poletimber Well	13.8	82	81-110	Buffer Along Stream
8	42120 - Planted Jack Pine	Sapling Well	83.7	8	Immature	Stand includes retention pockets of mature pine. Replanted JP in 2009. KW. Has redheaded sawfly problem on the north. Killed 2 large pockets of young JP. Mortality area is now stand 26.
9	42220 - Natural Jack Pine	Sapling Medium	14.6	20	Immature	Stand was created for Fire Management. Stand is grown in with jack pine
11	42220 - Natural Jack Pine	Poletimber Well	74.1	52	51-80	
12	42220 - Natural Jack Pine	Sapling Medium	6.4	20	Immature	Stand was created for Fire Management. Mostly grown in. The opening could be moved farther to the east and replant this area to maximize the warbler habitat. While still working as a fire break. Should treat with adjacent stands per KW plan.
13	42120 - Planted Jack Pine	Sapling Well	241.1	15	Immature	Scattered Mature Red Pine and Oak. Few Oak sprouts along west edge. Warbler Weave.
15	42220 - Natural Jack Pine	Poletimber Well	45.4	62	51-80	
16	42220 - Natural Jack Pine	Sapling Poor	9.3	15	Immature	
17	42220 - Natural Jack Pine	Poletimber Well	130.7	42	1-50	
18	42220 - Natural Jack Pine	Poletimber Well	7.4	78	51-80	Hold for retention from adjacent stand 13.

S t	Atlanta		Report 7	– Forested	Stands Compartment: 78 Year of Entry: 2019	
t a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	42210 - Natural Red Pine	Sawtimber Well	24.4	79	81-110	Stand was thinned in 1990 and then underplanted Jack Pine. Only stand in north part of compartment that is not Jack Pine dominated. Clear Lake State Park Nature Trail runs along edge of stand.
20	42250 - Pine, Oak	Sapling Poor	3.9	12	Immature	
21	42120 - Planted Jack Pine	Sapling Well	35.2	5	Immature	Planted in 2012 FTP# 54-926
22	42120 - Planted Jack Pine	Sapling Well	30.7	5	Immature	Planted in 2012 FTP# 54-926. Old 5 spots within the stand.
23	42120 - Planted Jack Pine	Sapling Well	181.2	22	Immature	Scattered Mature RP. Some oak sprouts. Warbler Weave.
24	42120 - Planted Jack Pine	Sapling Well	38.4	25	Immature	
25	42220 - Natural Jack Pine	Sapling Poor	3.7	10	Immature	
27	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	63.9	5	Immature	
28	42220 - Natural Jack Pine	Poletimber Well	11.1	52	81-110	Access through Canada Creek Ranch
29	4130 - Aspen	Sawtimber Well	8.7	80	81-110	Access must be through Canada Creek Ranch
31	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	18.9	95	51-80	Access through Canada Creek Ranch
32	42220 - Natural Jack Pine	Poletimber Well	3.3	52	81-110	Access must be through Canada Creek Ranch
34	42120 - Planted Jack Pine	Sapling Well	32.3	17	Immature	Some scattered mature Oak Left. Pocket of aspen regeneration in the middle of the stand.
35	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	4.3	80	1-50	
37	4130 - Aspen	Sapling Well	12.4	16	Immature	Stand was species thinned in 2001.
38	4199 - Other Mixed Upland Deciduous	Poletimber Well	9.2	85	51-80	Stand was species thinned in 2001. High Country Pathway Runs through Stand.
39	42220 - Natural Jack Pine	Poletimber Well	13.1	55	81-110	Part of stand was cut in 1995. It is to small for a seperate stand. High Country Pathway Runs through Stand.

S t	Atlanta Mgt. Unit			Report 7	- Forested	Stands Compartment: 78 Year of Entry: 2019
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	42220 - Natural Jack Pine	Sapling Poor	2.6	12	Immature	
41	4199 - Other Mixed Upland Deciduous	Poletimber Medium	26.2	92	1-50	-Stand had 3 spots cut in 2000. Very poor regen in southern 2 spots. Some natural pine regen in stand. High Country Pathway Runs through Stand. -north spot is primarily thick cherry
42	42120 - Planted Jack Pine	Sapling Well	17.7	23	Immature	scattered mature oaks.
43	42220 - Natural Jack Pine	Poletimber Well	5.5	81	81-110	Retention from stand 21
44	42220 - Natural Jack Pine	Poletimber Well	4.6	83	51-80	Stump pine and top soil pine from Clear Lake State Park
45	42220 - Natural Jack Pine	Sapling Poor	9.5	5	Immature	Fire Break, some natural regeneration present
46	4131 - Aspen, Oak	Sapling Well	5.9	7	Immature	Stand had 3 spots cut in 2000. Very poor regen in southern 2 spots. Some natural pine regen in stand. High Country Pathway Runs through Stand.
48	4133 - Aspen, Mixed Pine	Poletimber Well	11.6	85	81-110	Steep slopes down to the river

Atlanta Mgt. Unit

Compartment: 78 Year of Entry: 2019



Stand	Cover Type	Acres	Managed Site	General Comments:
10	310 - Herbaceous Openland	4.9	No	Weather station and MDOT GPS site
14	122 - Road/Parking Lot	9.9	No	
26	3302 - Low Density Conifer Trees	70.8		Part of original stand 8. Replanted JP in 2009. KW. Has redheaded sawfly problem Killed young JP. Monitor and re-treat with stand 40 in compartment 64.
30	622 - Lowland Shrub	27.8	No	
33	3102 - Grass	1.0	No	Gas Well
36	122 - Road/Parking Lot	3.8	No	
47	310 - Herbaceous Openland	13.2	No	Scattered pockets of small JP.