

# **Compartment Review Presentation**

Atlanta Forest Management Unit Compartment 54155 Entry Year 2017 Acreage: 1,743 County Presque Isle Management Area: Hammond Bay Lake Plain

Revision Date: 2015-06-18

Stand Examiner: John St. Pierre

# Legal Description:

T36N, R2E, Sec. 7, 8, & 9.

# **Identified Planning Goals:**

Within the Hammond Bay Lake Plain Management Area, 10-year harvest projections indicate that red pine and aspen cover types will be the primary focus for treatments (final and partial harvests). Management will strive to balance cover type age classes, produce sustainable forest products, enhance game and non-game wildlife habitat, protect areas of unique character and provide for forest-based recreational uses.

# Soil and topography:

Landtype Associations (LTAs) include Kalkaska (10%), Ocqueoc (10%), Graycalm (10%), Rubicon (8%), Deer Park-Croswell-Au Gres complex (7%), Zimmerman (6%), Au Gres (5%), Croswell (4%), Mancelona loamy (4%), Klacking (3%), and Cheboygan loamy sands (3%). A host of other upland sandy soil types are present at percentages less than 3%. Lower lying areas feature Wheatley muck (6%), Aquents (5%), Roscommon muck (3%), Aquents and Histols, ponded (2%), and Brevort mucky loamy sand (2%). Remaining lowland soil types are present at percentages less than 2%.

The approximate west half of the compartment is part of a broad northwest to southeast moraine known as Black Mountain. It consists of well drained sands and loamy sands supporting jack pine, white pine, red pine red oak, aspen and occasionally hardwoods. The remainder of the compartment is an old lake bed. It supports mostly lowland conifers, aspen, but can (and does) support hardwoods.

Kotar cover types found within C155 include (at nearly equal distribution) PArVHa, PArVVb, PArVHa/PArVVb, PArVVb/AFO, AFO, PArVCo, PVCd, and unclassified lowland. Because of these cover types the fire history for the compartment is a mix of catastrophic stand replacing fires in the western third and infrequent fires in the central and eastern portions of the compartment. GLO data suggest aspen, hemlock and tamarack were found in the eastern third, northern hardwoods in the central and red pine in the western third of the compartment.

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

Compartment 155 has both state and private-land interfaces along its extremities. Privately owned property bordering C155 exists along the entire northern boundary. The south half of section 7 contains two 80-acre parcels in private holding(s). The remainder of this compartment of bordered by State owned lands.

# **Unique Natural Features:**

No known MNFI hits or other related occurrences within this compartment.

The entirety of this compartment features a broad range of cover types. These variations appear to be the result of the differing soil series and previous fire history. Natural pine, northern hardwood, mixed pine/oak, lowland conifer/aspen, homogenous hemlock, and treed bogs are a few examples of the growing potential this compartment offers. Plantation red pine has also faired very well since being planted in areas during '29 & '63. A few stands offer unique habitat corridors across the large bog complex as well as important vertical and compositional structure. Large natural pine in access of one-hundred years of age can be found as individuals or populating entire stands.

# Archeological, Historical, and Cultural Features:

No official Archeological, Historical, or Cultural Features known. A possible old homestead foundation may be located in stand 428.

# **Special Management Designations or Considerations:**

Black Mountain Forest Recreation Area hiking & ski trails heavily populate areas of section 7. Silvicultural treatments have been formulated to minimize negative impacts on recreation.

General forest health concerns and issues are present within this compartment. Beech Bark Disease (BBD), Emerald Ash Borer (EAB), and White Trunk Rot are present and quite prolific in the cover types they affect. Many of these issues will be addressed during 2017 year of entry. Almost no non-native/invasive flora was observed during the inventory process.

Spotted Knapweed can be found along regularly traveled two-tracks and poor dirt roads but native flora remains dominant throughout compartment 155. It should be noted that inventory for this compartment was primarily conducted during the winter months with 1-2 feet of snow on the ground. These conditions weren't conducive to identifying all potential forest health issues and invasive flora present.

# Watershed and Fisheries Considerations:

No special considerations exist for this compartment.

# Wildlife Habitat Considerations:

The primary focus of wildlife habitat management will be to address the habitat requirements identified for the listed featured species found in this compartment. These species include ruffed grouse, black bear, and white-tailed deer. Based on the selected featured species, some of the most significant wildlife management issues in the management area are the maintenance of young forest, the retention of large, over-mature trees and snags and the maintenance and expansion of hard mast and mesic conifer components.

# Mineral Resource and Development Concerns and/or Restrictions

The drier ground in sections 8 and 9 are classified as development. Most of the rest of the compartment is nondevelopment. Surface sediments consist of lacustrine (lake) sand and gravel and coarse-textured till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Devonian Detroit River Group. The Detroit River could be used for stone. A gravel pit is located in Section 16 and there is potential on the uplands. This area has had no drilling for oil and gas. Oil and gas producing Silurian Niagaran Reefs are located fifteen miles to the south.

### Vehicle Access:

Seasonal county roads provide decent/good access into the compartment during snow off and on conditions. Several poordirt and two-track forest roads exist offering further access during snow off conditions. Lake Sixteen Rd is kept plowed during winter by the county. Brown Rd was plowed during the inventory process, yet I believe this was done by private to access their property north of the compartment. Further winter access is limited to snowmobile, snowshoe, legs, and ski's. Black Lake Route #994 snowmobile route doubles as a mixed traffic forest road (in the off season) and is also kept groomed during the appropriate winter months.

### **Survey Needs:**

Surveys may be required for timber sale prep.

### **Recreational Facilities and Opportunities:**

The Black Mountain Forest Recreation Area hike/ski trail system, in section 7, is the most notable feature in this compartment. Black Lake Route #994 snowmobile trail winds through portions of sections 7 & 8 as well. Both of these trail systems are widely used by recreationists. Snowmobiles, ORVs, dirt biking, hunting, and general meandering are extremely popular during the appropriate seasons.

### **Fire Protection:**

This area is covered by the Onaway Field Office.

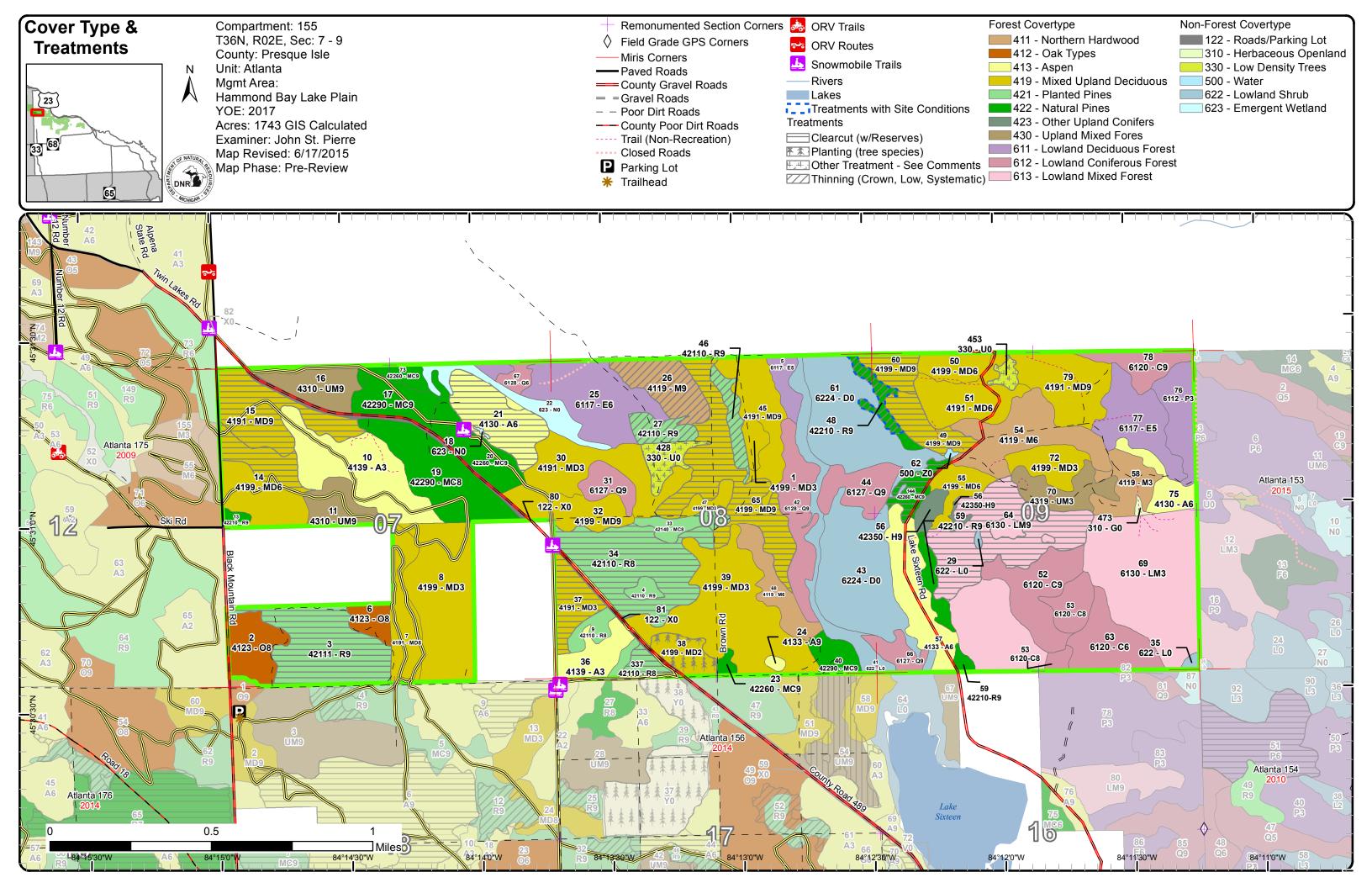
At the time of writing (5/14/15), a small wildfire occurred the previous week on private holdings north of section 8. Components of planted red pine and natural pine cover types are found within compartment 155. The natural stands of pine are undoubtedly of fire origin. Burn scar stumps are prolific throughout the compartment as well. This suggests that fire is a natural regime that has and will most likely occur again within the localized area. Fire access into the compartment is generally suitable during snow-off conditions. However, no watering points and/or bodies of water are present within the compartment.

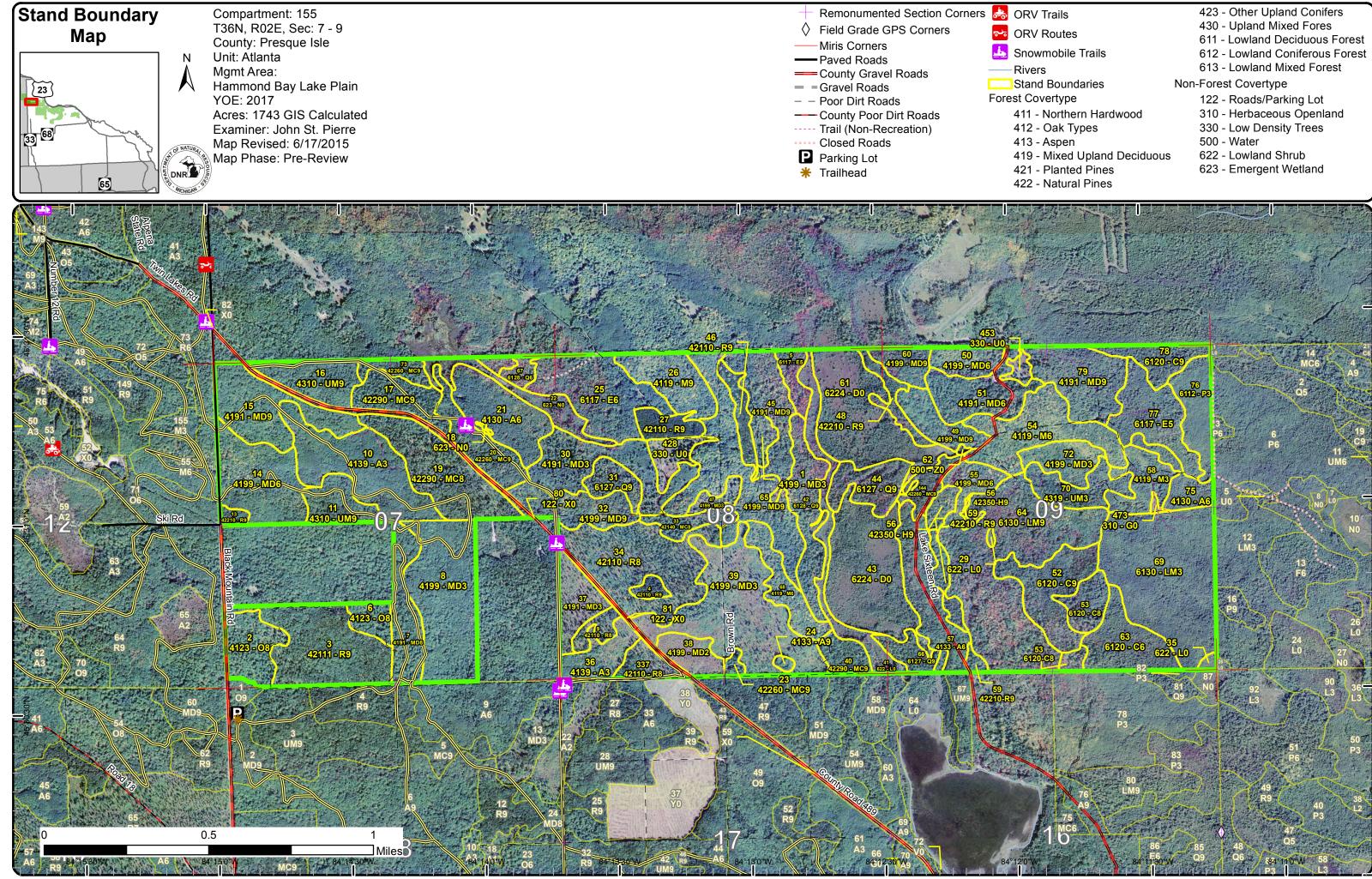
### **Additional Compartment Information:**

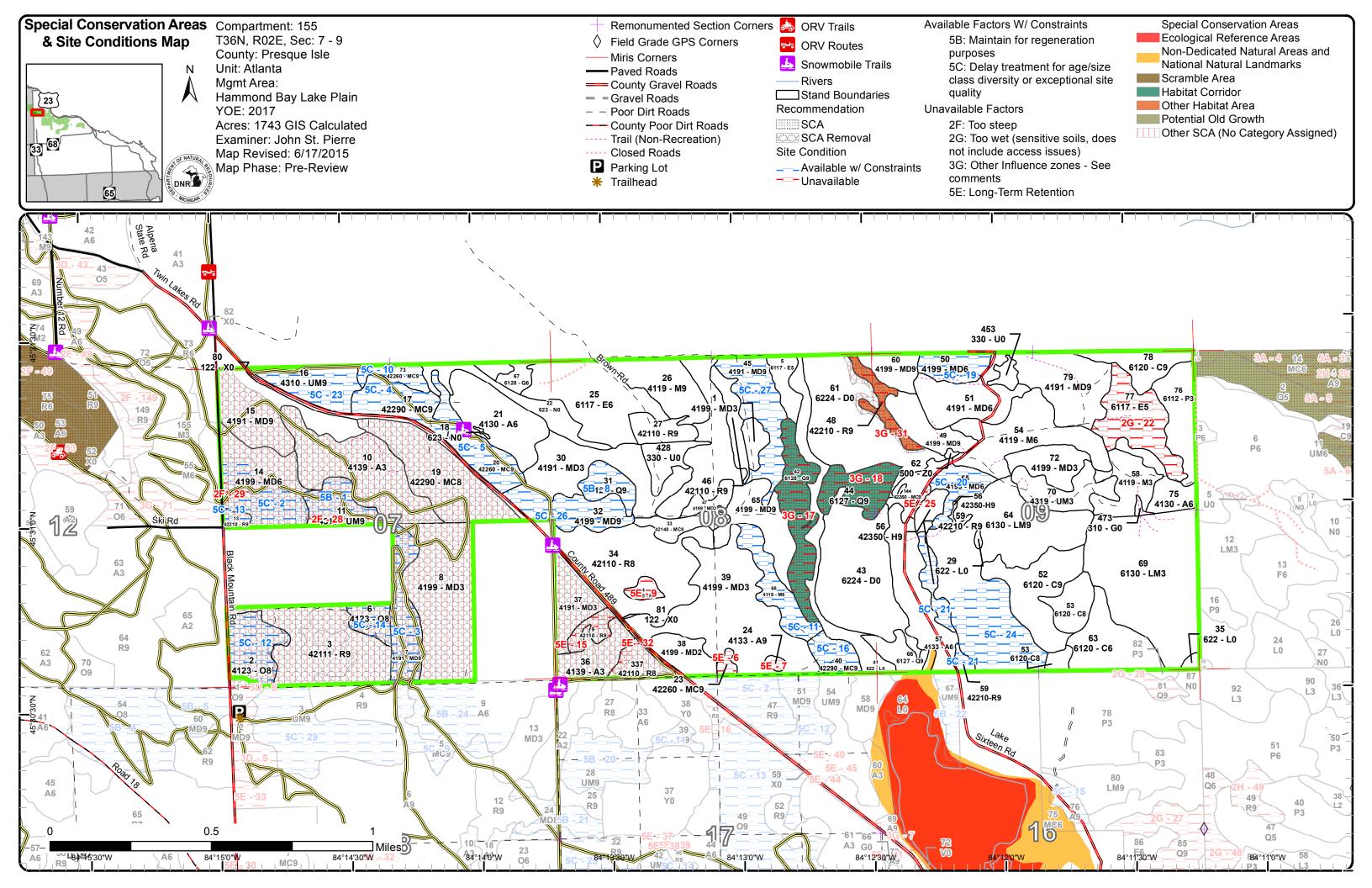
None.

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

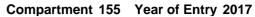






Atlanta Mgt. Unit

# John St. Pierre : Examiner





Age Class

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Aspen	0	16	0	48	0	73	0	0	2	0	0	0	0	0	0	0	0	0	139
Cedar	0	0	0	0	0	0	0	0	0	0	0	45	26	15	0	0	0	0	86
Hemlock	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	7
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Low-Density Trees	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Aspen/Balsam Poplar	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Conifers	0	0	0	0	0	0	0	10	31	27	0	0	0	0	0	0	0	0	68
Lowland Deciduous	0	0	0	0	45	0	0	8	0	0	28	0	0	0	0	0	0	0	81
Lowland Mixed Forest	0	0	0	0	83	0	0	0	0	98	0	0	0	0	0	0	0	0	181
Lowland Shrub	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Marsh	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Mixed Upland Deciduous	0	110	36	0	57	0	41	0	80	134	66	0	0	0	0	0	0	0	524
Natural Mixed Pines	0	0	0	0	0	0	0	0	74	17	0	19	0	0	0	0	0	0	110
Northern Hardwood	0	0	0	0	0	17	0	0	0	18	60	0	0	0	0	0	0	0	95
Oak	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	28
Planted Mixed Pines	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	9
Red Pine	0	0	0	0	0	0	18	0	9	124	0	10	3	0	0	0	0	0	164
Treed Bog	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112
Upland Mixed Forest	0	0	0	0	0	18	0	0	0	35	0	0	0	0	0	0	0	0	53
Urban	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	183	126	56	48	185	108	59	18	205	481	154	81	29	15	0	0	0	0	1748



Year of Entry: 2017Acres of HarvestTotal Compartment Acres: 1,743Commercial Harvest - 0<br/>Harvests with Site Condition - 7<br/>Next Step Harvest - 0<br/>Habitat Cut - 25Total Compartment Acres: 1,743

# Cover Type by Harvest Method

			Concrut	Delection Dates	"Clearer	Color Loo	Cellernood	Ologia Contraction	Con Penner	oolleg Oolleg	10,000 (U.S.	Sec. 1
Aspen		30	0	0	0	0	0	0	0	0	30	
Lowland Mixed Forest		57	0	0	0	0	0	0	0	0	57	
Mixed Upland Deciduous		146	0	0	0	0	0	0	0	0	146	
Natural Mixed Pines		8	0	0	0	0	0	0	0	0	8	
Northern Hardwood		0	0	0	0	0	23	0	0	0	23	
Red Pine		112	0	0	0	0	25	0	0	0	138	
	Total	353	0	0	0	0	48	0	0	0	401	

# Proposed and Next Step Treatments by Harvest Method

		/.	Co. Leve	CT CT CT	Continue of	oooooooooooooooooooooooooooooooooooooo	in and a second	esticios	in in in ite	No No	4 / 3	Sec. Astronomy
Current		401	0	12	0	0	0	0	0	13	426	1
Next Step		0	281	194	0	0	141	747	0	0	1363	]
	Total	401	281	206	0	0	141	747	0	13	1789	

S t			Atlanta Mgt. Unit		Re	eport 4	Treatme	ents		ment: 155 Entry: 2017	DRR DR ATURA
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
3	54155003- CC/Replant	49.7	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	86	111- 140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Proposal
	<u>s:</u> - Requ - Follo - Crea	uire 6-inch w retentio te at least	Site Condition etention. Replant to l stump height and c n guidelines leaving 2-retention pockets uld be extended out	Red Pine. Us hipping of to 3-10% and focus n	ps ear sta	nd bound	ary to facilitate	replanting ops. Ca	pture representativ	ve oak and pir	ne within both.
<u>Next S</u> Treati	<u>Step</u> Monito <u>nents:</u>	oring, Natu	ural Regen (Intermed	diate); SiteF	Prep, R	oller Chop	oping; Pesticio	de, Aerial; SitePre	p, Trenching; Pla	anting, Initial F	Plant
<u>Accer</u> Regei		n survey 1	and 3-years after in	itial replant.	Accepta	able reger	n is a well stocl	ked planted red pine	e stand with minor	r components	of oak.
<u>Other</u> Comn	nent: will su - Rolle	pplement r Choppin	rcut and prior to repl original retention. Ig and Herbicide ope	0 .	•		Ū	0		echanical trea	atment. These
14	sed Start Date	_	/2016 4199 - Other Mixed	Poletimber	87	81-110	Harvest	Clearcut with	4199 - Other	Even-Aged	Draft Proposal
	Clearcut w/R		Upland Deciduous	Well	01	01-110	ThatVCSt	Retention	Mixed Upland Deciduous	Lven Ageu	Dian Toposai
	- Follo - Crea - Leav - Leav - Leav - *Who	w retentio te at least e any com e the few ble tree sk	Site Condition etention. Use 2-inch n guidelines leaving 1-retention pocket. bination of 2-3 oak hemlock present id when ground isn't ural Regen (Intermed	cutting spec 3-10% Focus one p and/or red/w	oocket a hite pir omote	e every 1	-2 acres. Leav	e in clumps or as o spersal (See Other	pen grown/wind fir	m single sten	IS.
Treat	nents:	-			•			.,			
<u>Accer</u> <u>Rege</u> i			urvey 3-years after h mination (unlikely in		luring 2	025 inven	itory cycle. Acc	ceptable regen is an	ly mixture of the p	arent stand(s)	, excluding
<u>Other</u> Comn	n <u>ent:</u> - *Con - *Do Rec P	nbine Star not allow v ath". Allov	ack Mountain Rec P nds 14 & 15 into one vhole tree skidding a v producer to establi ning log spec in prop	sale across "Black sh one landi	k Moun ng site	in each u	nit.	-payment units. On	e north of, and on	e south of "Bl	ack Mountain
Propo	sed Start Date	<u>ə:</u> 10/1	/2016								
15	54155015- Clearcut w/R	35.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	85	111- 140	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Proposal
	tat Cut: No	out with Do	Site Condition								
Spece	- Follo - Crea - Leav - Leav	w retentio te at least e any con e any hen	n guidelines leaving 2-retention pockets abination of 2-3 oak alock if present id when ground isn't	3-10% . Focus one and/or red/w	retentic hite pir	ie every 1	-2 acres. Leav	e in clumps or as o	pen grown/wind fir	m single sten	IS.
<u>Next S</u> Treatr	<u>Step</u> Monito <u>ments:</u>	oring, Natu	ural Regen (Intermed	diate); Monit	oring, N	Natural Re	egen (Re-Inven	itory)			
<u>Accer</u> <u>Rege</u> i			urvey 3-years after h ous components (as						ides any mixture o	of the parent s	tand(s). Expect
<u>Other</u> Comn	- PRO <u>nent:</u> - *Con - *Do i Rec P - One	TECT "Bla nbine Star not allow v ath". Allov corner mig	ack Mountain Rec P nds 14 & 15 into one vhole tree skidding a v producer to establi ght be in Black Moun ing log spec in prop	athway" in s sale across "Black sh one landi ntain Rd. Jac	pecs. < Moun ng site ck pine	tain Rec F in each u witness tr	Path". Create 2 nit. ree present (se	-payment units. On			ack Mountain

Proposed Start Date: 10/1 /2016

S t		At	lanta Mgt. Unit		Re	eport 4	Treatme	ents		ment: 155 Entry: 2017	THE DURATE AND THE DU
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
	54155021- Clearcut w/R <u>tat Cut:</u> No	29.8	4130 - Aspen Site Condition	Poletimber Well	45	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Proposal
Presc Specs	<u>rription</u> Clearct <u>s:</u> - Follov - Leave - Leave - Exclu - Cond	w retention the few he the few su de the sma	ention. Use 2-inch guidelines leaving emlock and red oa uper-canopy red/w	cutting spec 3-10% k hite pine 18' np of hemloo	DBH ok along	eastern l		tment layer approxir	nates this)		
	ments:	l regen sun	vev during 2025 in	ventory cycl		ntable rec	eneration inclu	udes any combinatio	n of the parent st	and	
Reger Other	<u>n:</u>	-	r ground as you m							and.	
Comr	nent: - Incluc	le drummir	ng log spec in prop								
26	54155026- Thin + Salvage	22.8	4119 - Mixed orthern Hardwood	Sawtimber s Well	94	111- 140	Harvest	Crown Thinning	4119 - Mixed Northern Hardwoods	Two-Aged	Draft Proposal
Presc Specs	<u>s:</u> - Requ - Leave - Mana - Creat - Remo - Run e	ire 6-inch s e 1-3 beech ge for the ' e 100ft reg ove high ris	tump height spec	free) per ac Regardless hen able beech, whe	re for fu of Spe n they c	ture mast cies	/hard snag ma	movals during BA sv terial. Salvage rema ocations			
<u>Next S</u> Treatr	<u>Step</u> ments:										
<u>Accep</u> <u>Rege</u> i								e understory. This s eaches final harvest		naged for the	present/future
<u>Other</u> Comr	<u>nent:</u> - The e				erface co	ould poter	ntially serve as	the northern bound	ary (blue) line. Th	is will need to	be verified.
	osed Start Date	_		0				0 TI · ·			<u> </u>
	54155027-RP Thin	9.3	42110 - Planted Red Pine	Sawtimber Well	55	201+	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Proposal
	<u>s:</u> - Focus - Do no	s marking o t mark/cut	Site Condition bine to 120 BA. defect prone red pi other species unle eaf-off season is a	ne and those ess they imp				first			
<u>Next S</u> Treatr	<u>Step</u> ments:										
<u>Accep</u> <u>Rege</u> i	<u>otable</u> n:										
<u>Other</u> Comr		oine Stands	s 27 & 46 into one	sale Old ne	xt step (	comment	S:				
Propo	osed Start Date	<u>:</u> 10/1 /:	2016								

S t	Atlanta Mgt. Unit Report 4 Treatments								•	tment: 155 Entry: 2017	DIR NATURAL WILDO
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
34	54155034- CC/Replant	56.3	42110 - Planted Red Pine	Sawtimber Medium	88	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Proposal
	<u>-</u> - Requi	re 6-inch de Stand	Site Condition tention. Replant to l stump height and c 4 from this treatmen g and Herbicide ope	- Red Pine. Us hipping of to nt. It will serv	ps /e as lo	ng-term re	• etention (5E-9)				
<u>Next S</u> Treatr	<u>Step</u> SitePre <u>ments:</u>	ep, Roller (	Chopping; Pesticio	de, Aerial; S	SitePrep	o, Trenchi	ng; Planting,	Initial Plant; Monit	oring, Artificial Re	gen(1yr)	
<u>Accep</u> <u>Rege</u> i		survey 1 a	and 3-years after in	itial replant.	Accepta	able reger	n is a well stocl	ked planted red pine	e stand.		
<u>Other</u> Comr	nent: - Comb	ine Stand	date is 8/21/2015, t is 34, 37, 337 into c is 34, 37, 38, 337 in	ne sale	•			ments:			
Propo	sed Start Date	<u>.</u> 8 /21	/2015								
37	54155037- CC/Replant	16.7	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	7	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Proposal
	<u>s:</u> - Requi - Exclu - Roller	re 6-inch de Stand Chopping	Site Condition tention. Replant to l stump height and c 9 from this treatmen g and Herbicide ope Chopping; Pesticio	Red Pine. Us hipping of to nt. It will server ations are v	ps /e as loi /ery like	ng-term re	• etention (5E-15 • trench & repla	int	oring. Artificial Re	aen(1vr)	
<u>Treatr</u> Accep	<u>ments:</u> <u>otable</u> Regen		and 3-years after in							3(-)-)	
<u>Reger</u> Other Comr	- Propo nent: - Comb	ine Stand	date is 8/21/2015, t Is 34, 37, 337 into c Is 34, 37, 38, 337 ir	ne sale	•			ments:			
Propo	sed Start Date	8 /21	/2015								
38	54155038- Plant RP	11.9 4	4199 - Other Mixed Upland Deciduous	Sapling Medium	5	Immatu re	Planting	Initial Plant	4211 - Planted Red Pine	Even-Aged	Draft Proposal
			Site Condition this stand back into and Herbicide ope	Red Pine.	very like	ely prior to	o trench & RP r	eplant			
<u>Next S</u> Treatr	<u>Step</u> SitePre ments:	ep, Roller (	Chopping; Pesticio	de, Aerial; S	SitePrep	o, Trenchi	ng; Planting,	Initial Plant; Monit	oring, Artificial Re	gen(1yr)	
<u>Accep</u> <u>Rege</u> i	0	survey at	1 and 3-years after	initial replar	nt. Acce	ptable reç	gen is a well ste	ocked planted red p	bine stand.		
<u>Other</u> Comr	<u>nent:</u> - Comb	ine Stand	date is 8/21/2015, t s 34, 37, 38, 337 in omments:				view				
Propo	sed Start Date	<u>:</u> 5 /21	/2015								

S t		Α	tlanta Mgt. Unit		Re	eport 4	Treatme	ents	•	tment: 155 Entry: 2017	DNR DR NATURAL PLAN
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
46	54155046-RP Thin	9.1	42110 - Planted Red Pine	Sawtimber Well	55	201+	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Proposal
	<u>s:</u> - Focus - Do no - Some	s marking ot mark/cut areas of s	Site Condition pine to 120 BA. defect prone red pi t other species unle stand will require m leaf-off season is a	ne and those ass they imp inimal mark	ede equ			first			
<u>Next S</u> Treatr	<u>Step</u> ments:										
<u>Accep</u> Reger Other		oine Stand	s 27 & 46 into one	sale Old ne	xt step	comments	s:				
Comm			/2016		in orop						
	54155048-RP Thin	7.1	42210 - Natural Red Pine	Sawtimber Well	72	141- 170	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	Draft Proposa
Habit	<u>tat Cut:</u> No		Site Condition	: Other Ir	fluend	e Zones	5				
Specs	- Retair - Harve - Only - Cond	h/leave rec est all jack mark rema	to manage once for d pine with good for pine, paper birch, I aining species if the t during frozen wint	rm, healthy l palsam fir ey impede eo	ive crov quipmer	vns, and v	vind firm chara	icteristics			
<u>Next S</u> Treatr	<u>ments:</u>										
Accep Reger	<u>otable</u> n:										
<u>Other</u> Comm	nent: - Found - South - Cond	d PVT corr ern exclus	sion from thin appead then retain as an	of Std.60's ars to wet/se	ensitive	for equipr	nent	ndary line trees/plus ture	wire along this sta	ands PVT/Sta	te interface.
Propo	sed Start Date	<u>:</u> 10/1 /	/2016								
49	54155049- Clearcut w/R		4199 - Other Mixed Upland Deciduous	Sawtimber Well	<sup>.</sup> 86	111- 140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Proposal
<u>Habit</u>	<u>tat Cut:</u> No		Site Condition	<u>:</u>							
<u>Presc</u> Specs	<u>s:</u> - Follov - Leave	v retention the few h	ention. Use 2-inch guidelines leaving emlock and pine sproducing red oak	3-10% pecies prese	ent (mos	st already	in clumps of 2		sinale stems.		
<u>Next S</u> Treatr			,	- , <u>-</u>			,		0		
<u>Accep</u> Reger			rvey 3-years after h n (unlikely in this st		onitor be	ech sapli	ngs. Acceptab	le regen is any mixt	ure of the parent :	stand, excludi	ng heavy
<u>Other</u> Comm	- Comb nent: - Treat	oine Stand Stand 48	s 49 & 60 into one concurrent with Sto	sale Is.49 & 60	a to har	vesting er	nuismost. Old		_		
	oouu		ary near boy migh	De sensitive	5 to nai	vesting ee	Juipinent Olu i	next step comments	3:		

S t				Atlanta Mgt. Unit		Re	eport 4	Treatme	nts	-	tment: 155 Entry: 2017	OF NATURAL DNR DNR
a n d	Treatı Nar		Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
60	54155 Clearce		10.3	4199 - Other Mixed Upland Deciduous	Sawtimber Well	81	111- 140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Proposa
	<u>S:</u>	Clearcu - Follow - Exclue represe - Leave	v retentic de the sr entative s the very	Site Condition: etention. Use 2-inch of on guidelines leaving nall cedar clumps/low species. / few hemlock and pi est during frozen wint	cutting spec 3-10% w areas alor ne species p	ig north present			hese could serve	as retention if exte	ended out to c	apture other
		Natural in this s		urvey 3-years after h	arvest. Acce	eptable	regen is a	iny mixture of th	ne parent stand, ex	cluding heavy be	ech dominatio	n (very unlikel
Other	-			ds 49 & 60 into one s								
<u>Comr</u> Propo		- Includ - PVT c	le drumn corner fo mments	3 concurrent with Std ning log spec in prop und on western portio : I /2016	osal	ne. Gre	en marke	d ~boundary lir	ne trees/plus wire a	along PVT/State ir	nterface in Std	.48. Old next
<u>Propc</u> 64		- Includ - PVT c step co art Date 5064- land	le drumn corner for mments <u>:</u> 10/1	ning log spec in propo und on western portion: :	osal			d ~boundary lir Harvest	e trees/plus wire a Clearcut with Retention	along PVT/State ir 613 - Lowland Mixed Forest		
Propc 64	osed Sta 54155 Lowl	- Includ - PVT c step co art Date 5064- land cut w/R	le drumn corner for mments <u>:</u> 10/1	ning log spec in propund on western portion 1 /2016 6130 - Fir, Aspen,	osal on of north li Sawtimber Well				Clearcut with	613 - Lowland		.48. Old next Draft Propos
Propo 64 Habi	54155 Lowl Clearci tat Cut rription S:	- Includ - PVT c step co art Date 5064- land cut w/R <u>t: No</u> Clearcu - Follow - Create two of c - Leave - Feel f - Condu	le drumn corner fo mments 10/* 57.0 ut with Roving rete e at leas cedar (m e the few the few the few ree to gr uct harve	ning log spec in propund on western portion : I /2016 6130 - Fir, Aspen, Maple	Sawtimber Well cutting spec ng 7-10% of larger siz ovided). OF: (26" DBH or Std.69 er months. /	81 e (~1ac S point	81-110 c+). Try to "Good Re r)	Harvest capture natura ten Local" offer	Clearcut with Retention I red pine just nort s all of the above.	613 - Lowland Mixed Forest h of Std.56 (see C	Even-Aged	Draft Propos
Propo 64 Habi Presc Spec:	54155 54155 Lowi Clearcu tat Cuf tat Cuf s:	- Includ - PVT c step co art Date 5064- land cut w/R tt: No Clearcu - Follov - Creatu two of c - Leave - Leave - Feel f - Condu - Consi	le drumn corner fo mments : 10/ <sup>2</sup> 57.0 ut with Reving rete e at leas cedar (m e the few ree to gr uct harve der maki	ning log spec in propund on western portion (2016) 6130 - Fir, Aspen, Maple Site Condition: etention. Use 2-inch of ntion guidelines leaving t 3-retention pockets ultiply OFS points pro- hemlock present legacy pine present legacy pine present ab a little aspen from est during frozen wint	Sawtimber Well Cutting spec ng 7-10% of larger siz ovided). OF: (26" DBH or Std.69 er months. / contract	81 • (~1ac S point • greate Areas ~	81-110 c+). Try to "Good Re r) may be op	Harvest capture natura ten Local" offer perable during V	Clearcut with Retention	613 - Lowland Mixed Forest h of Std.56 (see C	Even-Aged	Draft Propos
Propo 64 Habi Presc Spec: Next : Treat	54155 Lowi Clearci tat Cut rription <u>s:</u> Step ments: otable	- Includ - PVT c step co art Date 5064- land cut w/R t: No Clearcu - Follov - Creatu two of c - Leave - Feel f - Condu - Consi Monitor	le drumn corner fo mments i 10/* 57.0 ut with Rr ving rete e at leas cedar (m e the few ree to gr uct harve der maki ring, Nati	ning log spec in propund on western portion 1 /2016 6130 - Fir, Aspen, Maple Site Condition: toton guidelines leaving t 3-retention pockets ultiply OFS points pro- hemlock present legacy pine present ab a little aspen from set during frozen wint ing this sale a 4-year	Sawtimber Well cutting spec ng 7-10% of larger siz ovided). OF (26" DBH or Std.69 er months. <i>i</i> contract liate); Monit	81 e (~1ac S point greate Areas ~	81-110 "Good Re r) may be op Natural Re	Harvest capture natura eten Local" offer perable during \ egen (Re-Invent	Clearcut with Retention	613 - Lowland Mixed Forest h of Std.56 (see C	Even-Aged	Draft Propos

S t a		J	Atlanta Mgt. Unit		Re	port 4	Treatme	nts	•	ment: 155 Entry: 2017	DUR NATURAL
n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
65	54155065- Clearcut w/R	53.5	4199 - Other Mixed Upland Deciduous	Sawtimber Well	92	111- 140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Proposal
<u>Spec</u>	- Follow - Create within re - Place - Run w	v retentio e at least etention. retentior vest treat	etention. Use 2-inch of n guidelines leaving 3-retention pockets. n near stand boundar ment line at ridge bo d (no seasonal restrict	3-10% Capture ma y to facilitat ttom along \$	ast proc e possil	lucing oa	k, some of the f			well represen	ted species
	<u>Step</u> Monitor tments:	ing, Natu	ural Regen (Intermed	iate); Moni	toring,	Natural R	egen (Intermed	liate); Planting, In	terplant		
<u>Acce</u> <u>Reg</u> e			urvey 1 and 3-years a beech/iron dominati					lings. Acceptable r	egen is any mixtu	re of the parer	nt stand,
<u>Othe</u> Com	ment: - The e	ast/west	hauling restriction in forest road along Sta Rx" comments in N	te/PVT inte							be verified.
Prop	osed Start Date:	. 10/1	/2016								
144	54155144- Clearcut w/R	8.2	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	82	111- 140	Harvest	Clearcut with Retention	42260 - Natural Pine, Mixed Deciduous	Even-Aged	Draft Proposal

#### Habitat Cut: No Site Condition:

Prescription Clearcut with Retention. Use 2-inch cutting spec.

Specs:

- \*See "Other Comments" regarding retention
   Whole tree skid during VERY DRY summer months to promote scarification and cone dispersal. Do not allow producer to whole tree skid across Lake Sixteen Rd.
  - Leave any combination of 2-3 oak and/or red/white pine every 2-3 acres. Leave in clumps or as open grown/wind firm single stems.

- Leave the few hemlock present

Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory) Next Step Treatments:

Acceptable Natural regen survey 5-years after harvest. Acceptable regen includes any mixture of natural pine and deciduous species. Expect stronger deciduous components (aspen) than what the parent stand contained. Regen:

- \*Long-Term Retention (5C-25) will already be in place. This is a 1-acre boundary exclusion east of Lake Sixteen Rd. Other
- Western boundary along bog might be sensitive to harvesting equipment. Remainder of stand may pose operational difficulties as well. Old Comment: next step comments:

10/1 /2016 Proposed Start Date:

337	54155337- CC/Replant	6.2	42110 - Planted Red Pine	Sawtimber Medium	88	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Proposal
	<u>s:</u> - Require - Exclude	6-inch weste	Site Condition etention. Replant to stump height and c rn portion from treat g and Herbicide ope	Red Pine. Us chipping of top ment. It will s	s erve a	is long-ter	m retention (5E				
<u>Next</u> Treat	<u>Step</u> SitePrep, <u>ments:</u>	Roller	Chopping; Pestici	de, Aerial; S	itePre	p, Trench	ing; Planting, I	nitial Plant; Moni	toring, Artificial Re	gen(1yr)	
<u>Acce</u> <u>Reg</u> e		urvey 1	and 3-years after in	iitial replant. A	ccept	able rege	n is a well stock	ed planted red pin	e stand.		
<u>Othe</u> Com	<u>ment:</u> - Combin	e Stan	date is 8/21/2015, ds 34, 37, 337 into d ds 34, 37, 38, 337 ir	one sale	•			nents:			
Prop	osed Start Date:	5 /2′	1/2015								

S t		atment Acres Stand Size Stand					Treatmer	nts	•	tment: 155 Entry: 2017	DR NATURAL PLEASE
a n d	Treatmen Name	t Acre	s Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
428	54155428-1	NF 9	.5 330 - Low-Density Trees	Nonstocke	ed	Unspec ified	NonForestMgt	Other - Specify	330 - Low- Density Trees		Proposal
Preso Spec			Site Condition		nods or	fire as fur	nding allows.				
Treat	tments:										
<u>Othe</u> Com	<u>r</u> Olo <u>ment:</u>	d next ste	p comments:								
<u>Prop</u>	osed Start D	<u>ate:</u> 10	0/1 /2016								
453	54155453-1	NF 3	.4 330 - Low-Density Trees	Nonstocke	ed	Unspec ified	NonForestMgt	Other - Specify	320 - Upland Shrub		Proposal
Preso Spec	<u>s:</u> Step		Site Condition	_	nods or	fire as fur	nding allows.				
	tments: ptable_ en:										
<u>Othe</u> Com	<u>r</u> Ole ment:	d next ste	p comments:								
Prop	osed Start D	<u>ate:</u> 10	0/1 /2016								
A	Total Treat creage Prop		426.2								

Atlanta Mgt. Unit

John St. Pierre : Examiner

Compartment: 155 Year of Entry: 2017

**Dominant Site Conditions** 

	2G	3G	5B	5C	5E
Aspen					2
Cedar	0				
Hemlock					
Herbaceous Openland					
Low-Density Trees					
Lowland Aspen/Balsam Poplar					
Lowland Conifers		45	10		
Lowland Deciduous	28				
Lowland Mixed Forest				37	
Lowland Shrub					
Marsh					
Mixed Upland Deciduous				115	
Natural Mixed Pines				56	4
Northern Hardwood				18	
Oak				28	
Planted Mixed Pines					
Red Pine		9		13	12
Treed Bog					
Upland Mixed Forest			11	20	
Urban					
Water					
Total Forested Acres	28	54	21	286	17
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 Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition					
5B: Maintain for regeneration purposes	11	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified					
or exceptional site										
	5B: Maintain for regeneration purposes	5B: Maintain for 11 regeneration purposes	5B: Maintain for 11 5C: Delay treatment for age/size class diversity or exceptional site quality	5B: Maintain for       11       5C: Delay treatment for       Unspecified         regeneration purposes       age/size class diversity       or exceptional site         quality       quality	5B: Maintain for regeneration purposes       11       5C: Delay treatment for unspecified       Unspecified         regeneration purposes       age/size class diversity or exceptional site quality       Unspecified       Unspecified					

		Atlanta Mgt. Unit Pierre : Examiner		Report 5 – Site Cor	nditions	Compartment: 15 Year of Entry: 20	
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21	Unspecified	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> Also: A ridge line v 29.	vith steep slopes (35-45%) trave	ls ~eas	st/west through ~center of s	tand. Might be operable e	ccept for the area occupied	by site condition 2F-
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> Also: Black Mount	ain ski/hiking trail travels through	n this s	tand. Steep slopes exist alc	ng northern tip and easter	n boundary as well (35-45%	6).
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
	Comments: Large log and with	some legacy tree sized red and	white	pine dominated stand. Red	oak and hemlock present	as well.	
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
	Comments:						
6	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
7	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

8       Available       5B: Maintain for regeneration purposes       10       5C: Delay treatment for age/size class diversity or exceptional site quality       Unspecified       Unspecified         Comments:       Sensitive soils and contains difficult to regenerate species. Some of which are managing to regenerate at this time. Stand is still a bit on the putting on decent growth given proximity to water table.       Unspecified       Unspecified       Unspecified         9       Unavailable       5E: Long-Term Retention       4       Unspecified       Unspecified       Unspecified         10       Available       5E: Delay treatment for age/size class diversity or exceptional site quality       7       Unspecified       Unspecified       Unspecified         11       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       18       Unspecified       Unspecified       Unspecified         11       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       18       Unspecified       Unspecified       Unspecified         12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20       Unspecified       Unspecified       Unspecified         12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20       Unspecified       Uns		Compartment: 155 Year of Entry: 2017	itions	Report 5 – Site Cond		Atlanta Mgt. Unit John St. Pierre : Examiner				
Sensitive soils and contains difficult to regenerate species. Some of which are managing to regenerate at this time. Stand is still a bit on the putting on decent growth given proximity to water table.         9       Unavailable       5E: Long-Term Retention       4       Unspecified       Unspecified       Unspecified         10       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       7       Unspecified       Unspecified       Unspecified       Unspecified         11       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       18       Unspecified       Unspecified       Unspecified       Unspecified         11       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       18       Unspecified       Unspecified       Unspecified       Unspecified         11       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20       Unspecified       Unspecified       Unspecified         12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20       Unspecified       Unspecified       Unspecified         12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20       Unspecified       Unspecified       Unspecified	Unspecified	Unspecified	Unspecified	age/size class diversity or exceptional site	10		Available	3		
Comments:       7       Unspecified       Unspecified       Unspecified         10       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       7       Unspecified       Unspecified       Unspecified         Comments:       11       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       18       Unspecified       Unspecified       Unspecified         Comments:       18       Unspecified       Unspecified       Unspecified       Unspecified         Comments:       20       Unspecified       Unspecified       Unspecified         12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20       Unspecified       Unspecified         12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20       Unspecified       Unspecified         12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20       Unspecified       Unspecified         13       Unspecified       Unspecified       Unspecified       Unspecified	young side but is	ne. Stand is still a bit on the yo	ig to regenerate at this t	. Some of which are managin		Sensitive soils and contains difficult to regenerate spec				
10       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       7       Unspecified       Unspecified       Unspecified         Image/size class diversity or exceptional site quality         11       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       18       Unspecified       Unspecified       Unspecified         Image/size class diversity or exceptional site quality       18       Unspecified       Unspecified       Unspecified         Comments:         Pole size stand with large component of saps converting to poles. Allow the smaller component of beech to fall out and self-thin stand.         12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20       Unspecified       Unspecified       Unspecified         12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20       Unspecified       Unspecified       Unspecified         Wait at least two-entrys before harvesting oak with the possibly merchantable aspen/red maple at that time.	Unspecified	Unspecified	Unspecified	Unspecified	4	5E: Long-Term Retention	Unavailable	9		
age/size class diversity or exceptional site quality         Comments:         11       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       18       Unspecified       Unspecified       Unspecified         Comments:       Pole size stand with large component of saps converting to poles. Allow the smaller component of beech to fall out and self-thin stand.         12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20       Unspecified       Unspecified       Unspecified         12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20       Unspecified       Unspecified       Unspecified         12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20       Unspecified       Unspecified       Unspecified         Wait at least two-entrys before harvesting oak with the possibly merchantable aspen/red maple at that time.       Unspecified       Unspecified       Unspecified						Comments:				
11       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       18       Unspecified       Unspecified       Unspecified         11       Available       5C: Delay treatment for exceptional site quality       18       Unspecified       Unspecified       Unspecified         Comments:       Pole size stand with large component of saps converting to poles. Allow the smaller component of beech to fall out and self-thin stand.       12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20       Unspecified       Unspecified       Unspecified         12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20       Unspecified       Unspecified       Unspecified         12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20       Unspecified       Unspecified       Unspecified         Wait at least two-entrys before harvesting oak with the possibly merchantable aspen/red maple at that time.       Unspecified       Unspecified       Unspecified	Unspecified	Unspecified	Unspecified	Unspecified	7	age/size class diversity or	Available	10		
age/size class diversity or exceptional site quality       -         Comments:       Pole size stand with large component of saps converting to poles. Allow the smaller component of beech to fall out and self-thin stand.         12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality         20       Unspecified       Unspecified         12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20         Wait at least two-entrys before harvesting oak with the possibly merchantable aspen/red maple at that time.       Unspecified							Comments:			
Pole size stand with large component of saps converting to poles. Allow the smaller component of beech to fall out and self-thin stand.         12       Available       5C: Delay treatment for age/size class diversity or exceptional site quality       20       Unspecified       Unspecified       Unspecified         Comments:       Wait at least two-entrys before harvesting oak with the possibly merchantable aspen/red maple at that time.       Vertical stress of the stress	Unspecified	Unspecified	Unspecified	Unspecified	18	age/size class diversity or	Available	11		
age/size class diversity or exceptional site quality Comments: Wait at least two-entrys before harvesting oak with the possibly merchantable aspen/red maple at that time.		out and self-thin stand.	mponent of beech to fall	o poles. Allow the smaller cor	erting to	h large component of saps conv				
Wait at least two-entrys before harvesting oak with the possibly merchantable aspen/red maple at that time.	Unspecified	Unspecified	Unspecified	Unspecified	20	age/size class diversity or	Available	12		
13 Available 5C: Delay treatment for 3 5B: Maintain for Unspecified Unspecified			d maple at that time.	ssibly merchantable aspen/re	the pos	ntrys before harvesting oak with				
age/size class diversity or regeneration purposes exceptional site quality	Unspecified	Unspecified	Unspecified	5B: Maintain for regeneration purposes	3		Available	13		
Comments:							Comments:			

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14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified					
	Comments: Wait at least two-e	ntries before considering a treat	ment. 3	Should allow aspen/red ma	ple to achieve some merch	antability.						
15	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified					
	Comments: Long-term retention for final harvest and replanting activities that are supposed to take place in Stands 38, 337, 37, and 34.											
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified					
	Comments: Small acreage stand and difficult to regen species. Current species composition will hold for longer than I have left on this planet. Consider treating with Stand 68 during next entry.											
17	Unavailable	3G: Other Influence zones - See comments	27	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified					
	hemlock (75-85yrs	nd 44 are acting as a wildlife sar old) that is managing to regene ing below the scattered red oak	rate in	areas. Barred owl and grou	use were both observed du	ring stand inventory. Other	terrestrial wildlife					
18	Unavailable	3G: Other Influence zones - See comments	18	Unspecified	Unspecified	Unspecified	Unspecified					
		his stand is serving as a wildlife sies. Would like to propose this a			e large bog complex. Is also	o found atop sensitive soils	and contains difficult					
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified					
	Comments:											

	,	Atlanta Mgt. Unit		Report 5 – Site Cond	Compartment: 15	5	
		Pierre : Examiner				Year of Entry: 2017	
20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> Delay treatment du	ue to surrounding management a	activitie	5.			
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	28	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
		nd appears too wet and operatio llow birch sap/pole regen observ				nanaged when Std.75 is tre	ated in the future.
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
		ults in Std.15, and Std.14 to a les ne production. A similar Rx could				as used (Hopefully) in both	stands (14/15) to
24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Assess harvest an	d regeneration results within the	northe	rn portion of this stand before	proposing/conducting	any further treatment(s) in t	ne southern portion.
25	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
		erm retention portion of Std.144 i ment west of the road. This actio					ding is in the Rx

		Atlanta Mgt. Unit Pierre : Examiner		Report 5 – Site Cond	itions	Compartment: 15 Year of Entry: 20 <sup>7</sup>	
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> Consider treating c	during 2027 YOE. A lot of manag	gement a	activity occurring south of thi	s stand during 2017 YO	Ε.	
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
		ed. Removed the Rx in an attem 10-years. Removed Rx can be fo			st target acres for Hamn	nond Lake Bay Plain M.A. f	or 2017 YOE. This
28	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> Steep slopes (40-4	5%).					
29	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
		the prominent ridgeline traveling ng ridgeline/steep slopes might b				quipment and could easily	result in resource
31	Unavailable	3G: Other Influence zones - See comments	9	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
		ve is to manage once for current a small but unique representation				nduct thin and then capture	as an "Other Habitat
32	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Long-term retentio	n for final harvest and replanting	activitie	es that are supposed to take	place in Stands 38, 337	, 37, and 34.	



# Report 6 – 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 7 – 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.

Conservat Area	ion Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area					
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources an Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.						
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resou and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominative require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, we proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and We Areas is accomplished through legislative action.						
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of identified as Element Occurrences (EOs) by the Michigan Natura context of their natural community classification system. Element (Excellent) or B (Good) and a Global (G) or State (S) element (ra threatened (2), or rare (3) serve as an initial base of ERAs. They the State. The system is comprised of individual or associations of managed for restoration and maintenance of natural ecological p submit recommendations for lands as ERAs using the DNR Cons	I Features Inventory (MNFI) within the Occurrences with viability ranks of A rity) ranking of endangered (1), may be located upon any ownership in of natural community types that are rocesses and values. The public may					

S t	Atlanta	Atlanta Mgt. Unit				Stands Compartment: 155 Year of Entry: 2017
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4199 - Other Mixed Upland Deciduous	Sapling Well	5.5	7	1-50	Area affected by blow down possibly ~7yrs ago based upon BTA age. May of been during the '07-08 tornado or some other wind event. Downed log size trees still present. Now a broad mix of sapling size species present before and/or establishing shortly the event. Some pole/log and log/pole size species still remain in overstory.
2	4123 - Red Oak	Sawtimber Medium	20.3	88	51-80	This stand was part of "Extra Blue" timber sale cut in '98. Rx was to leave all oak and cut the rest (some pole/log and log/pole pine remains, and a few pole RM). This stand could very easily be called a O7/O8 or MD2/MD3 stand. Aspen and RM are primarily the future for this stand. Sapling stocking can vary a bit and I'd estimate a future canopy closure of 50-75% after competition is said and done between sap understory and RO remaining in overstory. No RO regen and some scattered pockets of sapling pine production.
3	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	49.7	86	111-140	<ul> <li>This stand (3) was previously two separate stands. Stand 3 was coded as an R6 and was basically the west 1/2 of current shape. Stand 5 was an R9 and basically the east 1/2 of current shape. Std.5 was part of "VF30" timber harvest in '98 where all orange/yellow marked RP was cut. Both stands were part of "155 Red Pine" timber harvest in '10. Rx was cut all orange marked RP and cut all RM, JP, and aspen.</li> <li>The entire 80 this stand resides in was planted to RP in '31 (with 2yr old RP). Portions of that planting obviously failed. Today, the west 1/2 (what was Std.3) has greater RP diameter variability (some smaller DBH's than found in east 1/2). Sapling presence (BTA clones, RM sprouts) is greater in west 1/2 as well. The east 1/2 (what was Std.5) holds pretty steady with RP between 14-16" DBH. Nearly absent understory in east 1/2. Red oak log/xlog is everywhere. Not the highest quality but has lots of character and quite large on average.</li> </ul>
4	42110 - Planted Red Pine	Sawtimber Well	3.6	86	141-170	A pocket of log RP that escaped 2008 salvage. Yellow marked RP (and un-marked) within. Deciduous removal more than likely occurred during the '98-01 timeframe. OPIC - FMD: SCA Black Mountain Forest Recreation Area.This stand was cut in 2008 to salvage timber from a tornado.A variance was issued on 11/30/2007 to accomplish this salvage. All undamaged oak and pine trees were left. Mixed regeneration of aspen, oak and pine is acceptable.
5	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	7.9	68	81-110	Somewhat of a lowland version of Std.45 featuring more conifer (fir, cedar, ~hemlock). Becomes wetter, diameters decrease, and canopy closure reduces as you move east. Becomes somewhat more "lowland shrubby" as you move east as well. A lot of blow down and tip-ups present.
6	4123 - Red Oak	Sawtimber Medium	8.2	86	51-80	Like Std.2, this stand was part of "Extra Blue" timber sale cut in '98. All red oak was left, the rest was cut. Some sap/pole red/white pine present. BTA and RM saps strong (75-100% closure) in areas and less dense (50-75% closure) in others. The lower closure % occurs mainly below areas with high BA of RO in overstory. Very little RO regen as there as there are no stumps to sprout from. The stand will probably develop into an MD5, then MD8 overtime if the RO left isn't taken into account.

S t	Atlanta	Atlanta Mgt. Unit				I Stands	Compartment: 155 Year of Entry: 2017	DRR DR NATURAL
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	MICHIGAN
7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	22.7	86	51-80	sure what to call fairly obvious that while below is a deciduous and p center and north Some large p northern 1/2- understory, I'd occurred about heavier to log/x avoided. I'll say lo high side of 50- pathway snakes ti	nd is in used to be privately owned this stand. Beginning in the south log RO and some pine remain in a ~35 year old sap/pole understory ine. More log/xlog RP begins to pinem 1/2, especially along with ove ole/small log BTA/RM can also be 1/3 of stand. Given the prevalent s fathom a BTA/RM + some WP/JF t 35yrs ago. RO and RP were left log RP (the north 1/2-1/3) were mini- g is still dominant but canopy clos 75%. It is 75-100% in areas. Black hrough stand. Steep slopes in nor ions along the eastern boundary.	thern 1/2, it's the overstory y of mixed op-up in the prstory RO. found in sap/pole P removal and areas ore or less sure is on the < Mountain
8	4199 - Other Mixed Upland Deciduous	Sapling Well	57.5	35	1-50	The 80 this stand is in was privately owned in the not so distant past. As such, not cut record was located. A very upland mixed stand featuring many sap and many pole sizes depending upon location and species. The stand is getting very close to being nearly uniform pole size but think it's a little to soon to label it that. BTA and RO seem to be mostly pole size. Maple, beech, pine are nearly pole. Saw a lot of RO stump sprouts that have recruited. My RO, 20%, 5", p/s/l canopy listing above includes 5% log/xlog RO that MIFI wouldn't allow me to place in the list. Quite a few individual and clumps of log/xlog RO, WP, RP leave trees. Especially on steeper slopes along western boundary. Definitely a structurally (vertically) diverse stand with these present. Log versions of all other remaining species were observed but at reduced frequency. Basically walked right down center (north to south) of stand and may of missed a heavier log sized pocket or two. Imagery shows possible conifer log clumps in the NE and SE corners.		
9	42110 - Planted Red Pine	Sawtimber Medium	6.3	86	51-80	were treated/sa	s just a bit higher than surrounding Ivaged. Pockets of WP/RP advan ous sprouting present but not over	ced regen
						a tornado.A varia this salvage. All u	s stand was cut in 2008 to salvage ance was issued on 11/30/2007 to ndamaged oak and pine trees we on of aspen, oak and pine is acce	accomplish re left. Mixed
10	4139 - Aspen, Mixed Deciduous	Sapling Well	47.9	26	1-50	Clumps/pockets Undulating a percentages m stand was similar suggests this sta Harvest bega BTA: 761cds RO	e winning specie at this point in th of RP/WP observed. Scattered R and rolling terrain throughout. RO a ight be higher than what I have lis to Std.15 before harvest (cruise f and had more BTA), than I would's see more RO regen. n '87 and finished up in '90. Cruis 345cds/45mbf PB: 88cds MxdF WD: 74cds RP: 45mbf WP: 11m	O mixed in. and RM ted. If this igures below /e hoped to e figures: Pine: 87cds

S t	Atlanta	Atlanta Mgt. Unit			– Forested	Stands Compartment: 155 Year of Entry: 2017
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
11	4310 - Pine, Oak Mix	Sawtimber Well	15.5	81	111-140	One of the few "undisturbed by man" stands (within the last ~80yrs anyway) I've viewed in awhile. Fire went through as burned stumps abound and a few charred snags present. Pine/aspen are mainly log size. Red oak is large pole/small log. Oak is scrubby to marginal quality. Good WP sap understory and deciduous saps are in check. Likely because no removal harvests have taken place. Steep slopes (upslope) south of the Black Mountain trail that runs through this stand.
						OPIC - FMD: Lots of Burned WP stumps. Manage for WP.
13	42210 - Natural Red Pine	Sawtimber Well	2.8	113	171-200	An outlier pocket (even though it used to be everywhere) of red pine. The RP I aged was just as the OIPC comment states "badly suppressed". The core I took was from an RP that might of been a two-stemmer. As a result, my age might be a little off (it's old RP either way). BTA along northern boundary. A mix of RO, BTA, and pine near the southern boundary. Center of stand is RP with a few WP/RO mixed in.
						OPIC - FMD: STAND HAS ALWAYS BEEN BADLY SUPPRESSED.
14	4199 - Other Mixed Upland Deciduous	Poletimber Well	38.3	87	81-110	A bit of size and age variation within this stand depending upon where you venture. Very pole size in areas and very log size in other areas. BTA varies from very log in western areas to clumps of pole/log as you move east. Similar scenario with RO, more log in west moving into pole/log in east. Mostly pole sized species along and atop the prominent ridge in south. Very good looking red oak and sugar maple poles along/atop the prominent ridge. Dominant age of 86 years might be a bit excessive, but variation of sizes made pinpointing a clear stand age difficult. Present are a few larger RP, WP, and RO that must of served as leave trees when last harvested. Appears that hemlock was left as well. Quite a bit of pole/sap/and some log beech (with scale) present. Mostly in clumps yet scattered throughout as well. Most sap species present are on the cusp of converting to pole size. The main ridge in south is steep (~40-45 degrees) but gradual. A few other steep ridges just north of the south "Black Lake Rec Trail" appeared inoperable due to slope.
15	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	35.6	85	111-140	Primarily dominated by marginal to scrubby RO of small log/large pole size. Western and southern areas are atop a slight ridgeline/higher elevation and feature the "scrubbier" version of RO. WP and RP are common in overstory as are pockets of/and scattered BTA. 1929, 100 TPA of WP planted in general area. WP saps are giving it a go in the understory as well as RP to a lesser extent. RM aren't overwhelming the understory and RO saps are present. Southeast "blob/pan- handle" has more canopy WP/RP representation and is of larger size. Old burnt stumps abound.
16	4310 - Pine, Oak Mix	Sawtimber Well	19.8	86	111-140	Compositionally similar to Std.15 to the west. RO, WP, and RP are the dominant canopy species. Most deciduous species are of poorer form and marginal in quality. The exception being a handful of better quality, log-sized RO scattered about. Pine species are well suited (some WP planted here in '29) to the site and appeared healthy and of good form. Prolific WP saps in understory. A prominent patch (~2ac) of RP/WP located in center/SE of stand. This can be seen quite well on imagery. Pockets of BTA present as well as scattered individuals of BTA and RM. Old burnt stumps present.

S t	Atlanta	Atlanta Mgt. Unit			– Forested	Stands Compartment: 155 Year of Entry: 2017
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	42290 - Natural Mixed Pine	Sawtimber Well	18.7	100	141-170	A very impressive large/and legacy RP and WP stand. A planting record from '29 specifies some WP planted in quarter/quarter that captures some of the stands western portions. The majority of pine present is 100 or more years old, so I labeled it as a natural stand. Pine averages nearly 100ft tall. Measured a WP at 104ft. Scattered RO log trees and clumps of hemlock present. A shelterwood harvest completed here in '87. Rx was cut marked RP, WP, RO and remove all the rest. Natural and vegetative RM sap/some poles are prolific in understory. One prominent hemlock/WP pocket along snowmobile trail (OFS point marks the location).
19	42290 - Natural Mixed Pine	Sawtimber Medium	41.7	78	81-110	Unit 2 of "155 Red Pine" cut in ~'10. Thin/cut marked pine and harvest all RM, BTA, and JP. Did not find a planting record so stating this in a natural pine stand. North 1/2 (more or less) has a more desirable understory mix of WP/RO saps and some RM to a lesser extent. South 1/2 has areas with prolific RM/BTA sap production (where gaps in pine overstory can be seen on imagery). This was spurred on by deciduous removal when thin + removal took place in '10. Might of been part of tornado salvage? But I think not.
						<ul> <li>OPIC - FMD: Remove jack pine and aspen, red maple, plus red pine where needed for equipment movement.</li> <li>Sale cut 2010 on 54-033-07-01; FTP's C54-870 (burn) C54-871 (plant rp) if applicable.</li> </ul>
20	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	20.1	71	141-170	A pine/aspen mixed stand. WP and RP were more or less of the same size class yet WP aged about ~10yrs older. Aspen appears offsite, old, and of poor form. Pine is where it belongs. Some undulating/slight ridgeline terrain. Aspen is found in pockets as well as being scattered throughout. The same holds true for pine. Understory isn't overrun with deciduous (which is nice). Small chunk in northeast area was part thin + removal harvests that took place in Std.17. Some dense BTA/RM sap/poles there.
						OPIC - FMD: Consists of amalgamated clumps of smaller white pine, sawtimber red pine and nesting cavity aspen. PArVHa/PArVVb
21	4130 - Aspen	Poletimber Well	30.6	45	111-140	Aspen and RM dominated stand. Large log/and xlog WP scattered about. Clumps of log/pole hemlock are present as well. One larger hemlock clump on far east boundary (see OFS point). Aspen diameters are a more log/pole in western ~1/2. Aspen DBH's begin to decrease as you move east (onto lower ground). Pit and "moundy" within stand. Appeared primarily upland with some lower locations.
23	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	2.4	76	141-170	Possible boundary exclusion and/or retention when Std.39 was set-up for harvest. Wolfy versions of large WP, RP, and aspen tend to dominate. Some pole sized pine nestled within.
24	4133 - Aspen, Mixed Pine	Sawtimber Well	1.5	75	141-170	Appears to be another retention pocket when Std.39 was set-up for harvest. May of been retained for its relatively high percentage of pine and red oak. Age of 75yrs was taken from an RP as I didn't trust the "coring soundness" of the aspen present.

S t	Atlanta	Atlanta Mgt. Unit				Stands	Compartment: 155 Year of Entry: 2017	DRR DRR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	MICHIGAN .
25	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	44.8	37	81-110	primarily log/pole si higher percentage depending upon loc probably the result here in '72 & '78. I merchantable in som other areas. Pit and lowland until reach chunk of A6/M3 spl extends a few OPIC - FMD: A s patches larger trees	every species, size class, and a ze but saps are present. Rema species (RM, BF) are sap/pole vation. Current composition and of a treatments that apparently It's my opinion that the stand is he areas and obviously non-me d "moundy" throughout. Appearing the eastern ~1/3 of the star it from Std.26 was added to this v chains on either side of Browr low growing mix of P,E, Q, and a on higher (PArVCo) land. Site streme east end of stand.	inder of the or pole/sap structure is took place obviously rchantable in ed primarily nd. A ~5ac s stand and n Rd. L. A few
26	4119 - Mixed Northern Hardwoods	Sawtimber Well	22.8	94	111-140	This stand sits atop The soil type is allo usual NHD species single stem SM/beeo along the ridge line common througho	a ridge composed of mainly Kla owing the growth of somewhat I for this particular region. A mix th tends to dominate. The easte e features more BTA, although ut. Beech scale is just about ev ore than dominate the sub-can	better than of multi and ern boundary the type is verywhere.
27	42110 - Planted Red Pine	Sawtimber Well	9.3	55	201+	planted. Their grow pine appeared healti thinned in '98 (as average with exan between 6-8 sticks understory are par	d in spring of '63. RP was 3yrs of th rate is impressive (to me any hy with good live crown still rem was Std.46) and small log (~10 mples +- 2" DBH. Merchantable depending upon the tree. NHD tohy and not really consistent th species listed in canopy table along the perimeter.	yway). Red naining. Row )" DBH) is e height is saps in the nroughout.
						OPIC - FI	MD: THINNED 1998, SALE 32-	97
30	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	35.9	14	1-50	leave all WP and cu areas. Some scatte above remain (thes vegetative growth ar areas as near lowlar at the sap level wi where you're stand	ue" timber harvest cut in '00-01 ut the rest. Residual BA is well ared pole/log sizes of canopy sp e escaped the processor). Pole e beginning to pop-up as well. I nd shrub Std.22. A completely in ith variable mixing ratios depen ding. Very well could be lowland the day I was visiting. OPIC - Fl 2001.	above 50 is becies listed sizes from _ower/wetter mixed stand ding upon I w/upland.
31	6127 - Lowland Pine	Sawtimber Well	10.3	60	111-140	and Blk Spruce are of of WP that was core the water table. Two hemlock pockets pr throughout as well a	d with white pine being most pre- common associates. Given the ed, growth seems to be aided b o (or one because they're quite resent (see OFS point). Scatter nd was regenerating in areas. A eas of lowland shrub present.	younger age proximity to close) small ed hemlock

S t	Atlanta	ı Mgt. Unit		Report 8	– Forested	Stands	Compartment: 155 Year of Entry: 2017	DNR DNR
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range		General Comments:	A. MICHIGAN
32	4199 - Other Mixed Upland Deciduous	Sawtimber Well	21.7	74	111-140	in areas and more l oak, and the small size. SM and RM v upon location. W SM/RM with the af stand (north of E// SM/RM. East port log/pole NHD and ap and timber quality of more mixing of p pole/sap/log size. portion of stand. Th	ated stand (with aspen/oak/pin M9 in others. Aspen, pine, basis component of hemlock are ver vary between pole/sap and log est of snowmobile trail is more orementioned log size species N forest rd) begins to offer more tion (north of E/W forest rd) has opears to be lower ground (BAI degrades. South of E/W forest ine/aspen/RO and lower quality A pine pocket is located in cer is pocket can be seen on image S point marks the location.	swood, red y much log depending pole/sap . Center of re log size s a mix of M observed) rd features / NHD of hter/south
33	42140 - Planted Mixed Pine	Sawtimber Medium	9.2	75	51-80	Couldn't located the part of a larger remo sale left some log/p present is a fairly a understory with a pro small ~1.5ac pocket stand. This doesr	and probably part of '29 RP/WF particular sale, but I believe thi oval sale that occurred in '89. A ole WP/RP and removed all th aggressive vegetatively regene ominent "residual" pine oversto east of Brown Rd that I've lum n't appear to of been part of '89 ere the log/pole sized BTA, JP, occur.	s stand was ppears that e rest. Now rating sap ry. There's a ped into this removal
34	42110 - Planted Red Pine	Sawtimber Medium	56.3	88	51-80	<ol> <li>A 50ac RP,WP,F ~20ac of stand h timeframe that left all an area just east of another species rem RP shelterwood + s think a tornado salva as well RP planted in '29 of composition now fea planted RP and som ranged between 40-1 An very dense sap stand. Species doi location. RM and N portions) while asper areas). RO saps fai stump-sprouts off of happen). This st dominated dependi felt the remaining F stand to b OPIC - Reduce to 30 On November 30, Parts of stands 34 Previous prescription All undamaged oak and da Sale cut 2010 on 54-</li> </ol>	"Quick" Stand History: RO thin + species removal in '8 ad a species removal harvest if pine. Sap layer is now ~15yrs of Co.Rd489. 3) About ~51ac unoval while leaving yellow mark species removal) in '08-10 time age occurred sometime in '08-10 that took out damaged pine. (RP was 2yrs old when planted atures an overstory of mainly late e WP of the same general size 100 residual with an average B/ ling layer extends throughout no minance within the sap layer van VHD associates own some are in clones claim other areas (wes f large DBH stumps (which doe and could be considered sapling ng upon the who's eyes are lood RP overstory was to extensive the e labeled as "sap dominant". PBA, retaining species diversing red maple. 2007, the following variance ward and 37 were leveled by a recert is of shelterwood were changed. and pine trees will be left uncu- maged trees will be salvaged. -033-07-01; FTP's C54-870 (bu (plant rp) if applicable.	in '98-01 advanced in inderwent ied pine (~a iframe. 4) I 0 timeframe I). Current irge log/xlog 2. BA swings A of 55 sq/ft. host of this aries upon as (center stern/eastern d some RO esn't always ng or log sking at it. I o allow the ty other than as granted: ht tornado. d to clearcut. it. All down

S t	Atlanta	a Mgt. Unit		Report 8	– Forested	Stands Compartment: 155 Year of Entry: 2017
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
36	4139 - Aspen, Mixed Deciduous	Sapling Well	15.8	7	1-50	East 1/2 was part of '08 salvage and the west 1/2 (~7ac) was clearcut in "98-01 timeframe. The aspen (and other species) in west 1/2 is sapling and pole size. East 1/2 is still sapling size. In both is a broad is a somewhat broad mix of species. A few scattered pole/log and log/pole size WP/RP throughout. OPIC - FMD: SCA Black Mountain Forest Recreation
						Area. This stand was cut in 2008 to salvage timber from a tornado. A variance was issued on 11/30/2007 to accomplish this salvage. All undamaged oak and pine trees were left. Mixed regeneration of aspen, oak and pine is acceptable.
37	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	16.7	7	1-50	<ul> <li>"Brief Stand History"</li> <li>1) ~7ac of the northern triangle had a removal harvest in "98-01 timeframe, left pine and cut the rest.</li> <li>2) This stand, and Std.9/337 had had an RP seed tree + species removal in 08'-10 timeframe.</li> <li>3) May of been part of '10 salvage after tornado.</li> <li>4) FTP C54-870: burn to remove competition and regenerate RP never occurred here. APPEARS RP WAS THE MO FOLLOWING LAST TREATMENT. IF THIS IS THE CASE, I FAIL THE REGEN CHECK.</li> <li>So, based upon the above history, this stand now has an average BA of 14 sq.ft of log RP (and some WP) in the overstory. And a mix of ~5-15 year old saps in the understory.</li> <li>WP saps (probably there before treatments) are present. Some RP and JP saps can be found throughout as well. Aspen clones only start to increase as you move into northern/narrowing portion of stand. Aspen density isn't overly thick and walking through clones isn't a chore. Southern/larger portion of stand has a less densely stocked sap layer (50-75%). I chose to call this a sapling dominated stand and it's on the high side of 50-75 canopy closure (higher in north, lower in some southern areas).</li> </ul>
38	4199 - Other Mixed Upland Deciduous	Sapling Medium	11.9	5	Immature	Fifty percent forested (medium to high stocking) and fifty percent non-forested. If you're looking at this stand from County Road 489, the regen looks acceptable (mainly RM sprouts). Once 40-50 yards into the stand (off of Co.Rd 489), the regen more or less abruptly quits. Aspen clones begin to pick up as you reach the east and northern boundaries near Std.39. This was a planted RP final harvest back in 2010. It was supposed to be burned and then replanted (see FTP notes below), these never took place. I recommend this stand receive a "fail" with regard to acceptable regen (both deciduous and especially conifer). OPIC - FMD: Previously species thinned. Excellent red maple regeneration. Sale cut 2010 on 54-033-07-01; FTP's C54-870 (burn) C54-871 (plant rp) if applicable.

S t	Atlanta	n Mgt. Unit		Report 8	– Forested	Stands Compartment: 155 Year of Entry: 2017	DNR DRATURAL PROVINCE
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN .
39	4199 - Other Mixed Upland Deciduous	Sapling Well	70.2	6	1-50	As the OPIC note states below, this was part of timber sale that sold but was never cut. The stat cut in 2009 (I don't know much else). Two-aged of all WP was left. WP residual BA's are dense in ar is others. Some RP log/poles remain throughout and other deciduous saps seem to be doing fir browsed. OPIC - FMD: This stand was previous not cut. Manage as a mixed stand of predominar and aspen. PRE-SALE: Use GPS to adjust line Mark red pine to half-height spacing, as approp SALE: Regard as a combination WP release regeneration. Else, accept as pocket of U or A. Any combination of white pine, aspen, red pine, of hardwoods. Managing for both white pine and clearcut completed 12/200954-015-0	nd was finally verall because eas and lighter as well. Aspen e. RO saps ly sold, but ntly white pine s as needed. riate. POST- and aspen Alt. Covertype: ak, or northern d aspen
40	42290 - Natural Mixed Pine	Sawtimber Well	9.6	77	111-140	Natural mixed pine stand with RP being the mo specie. Xlog examples of RP, WP, RO observed WP present near eastern boundary (near Std.41 few stump sprouting RM of sap/pole size. Own suggest some kind of pine thinning in ~'79. Bu present. Understory species composition does desirable characteristics. Darrick Coy accidental along this stands eastern boundary while setting the south). He later browned out the first ~100 OPIC - FMD: Year of origin is correct for RP overs of JP, RP, and WP. W3 is 20' tall. Manage for n	. Some legacy ). I did view a ership cards med stumps have some ly ran red line up Std.54 (to or so feet. story. Midstory
42	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	27.2	80	171-200	Conifer dominated stand with variable species depending upon location. Hemlock is dominant walkable trail and pockets pop-up in southern 1/ between is a mix of WP, RP, Hemlock and va species (mainly RM). Majority of hemlock is still pole sized and aged younger than I expected ( Good hemlock sap production north of E/W trail. S variable from low to medium density depending are. A few scattered pockets and individual exam WP/RP present. Flushed grouse and a barred of beds/browse observed. OPIC - FMD: HEMLOCK REGEN ON W SIDE NUMEROUS 36-40" W PINE.	north of E/W 3 of stand. In- rious decid small log/Irg 74 & 85yrs). Sapling layer is on where you uples of legacy owl, and deer
44	6127 - Lowland Pine	Sawtimber Well	17.9	72	111-140	Primarily a log/pole sized conifer mix. Some areas pole sizes. RP has a strong presence along the stand (mainly north perimeter). Unsure of how so outside of winter. Lowland species (leatherlead spruce, mountain holly) indicate it might be qui obvious it is serving as a wildlife corridor to trave surrounding bog complex. Grouse, hare/rabbit, d unidentifiable tracts observed through OPIC - FMD: Travel corridor across b	perimeter of soft ground is , tamarack, te soft. Very erse the large eer, and other out.
45	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	26.8	76	111-140	Primarily upland until venturing into eastern area Conifer component increase as you move east component increase as you move south. A smal of log hemlock present that are accompanied regenerating saps within a ~chain of parent treed marks one hemlock clump.	as well. NHD l clump or two d by some

S t	Atlanta	a Mgt. Unit		Report 8	– Forested	Stands Compartment: 155 Year of Entry: 2017
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	42110 - Planted Red Pine	Sawtimber Well	9.1	55	201+	Narrow vein of red pine planted in spring of '63. Pine was 3yrs old when planted. Third row thinned in '98. Response to row thir was good yet the growth rate of these pine on hardwood soil has been very impressive. As such, pine quickly filled the gaps from the '98 thin. RP average ~10" DBH plus or minus 2". BA swings and recent growth rates suggest conducting a crown thin. BA's swings averaged above 200, but some areas were in lesser need of marking. Northern hardwood saps dense in areas, and light in others. Scattered NHD log trees present (imagery shows these).
						OPIC - FMD: THIRD ROW THINNING, DONE 1998, SALE 32- 97
47	4199 - Other Mixed Upland Deciduous	Sapling Well	5.3	7	1-50	Appears to be another location affected by wind throw. Possibly from the '07-08 tornado that passed through this compartment. Tip-up stumps still present. Looks like firewooders salvaged the site. A light overstory of log/pole and pole/log species still present. Red oak saps are heavily browsed. A possible indicato as to what an adjacent final harvest in Std.65 might look like.
48	42210 - Natural Red Pine	Sawtimber Well	8.6	72	141-170	A narrow band of natural red pine sandwiched between the bog and Stds.49/60. Pine and oak are quite large and tall. Two RP ages taken, 72 & 124yrs old. Must have easy access to the water table. Only ~2+ chains wide for the most part. Western boundary is a little difficult to clearly define. Portions of the bog are being reclaimed by conifer which butts up to the western boundary of this stand. Ownership cards suggest RP here was thinned in '64.
49	4199 - Other Mixed Upland Deciduous	Sawtimber Well	15.2	86	111-140	A bit different size and species composition when compared to Std.54. More aspen and RO present and NHD species are an inch (DBH) or two larger on average. Still many poles throughout. It seems that this stand is a bit more on the log size (with help from larger RO/BTA) than Std.54. Possibly because it's closer to adjacent bog water table?
50	4199 - Other Mixed Upland Deciduous	Poletimber Well	11.5	99	81-110	Primarily pole size with scattered logs of many of the canopy species listed above. Sugar maple is quite old given its ~6-8" DBH average. I witnessed this in ATL C172 north of here last year. Observed a fair amount of sap RO in the understory. Unsure if they'll recruit, but younger RO poles were present as well.
51	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	26.5	55	81-110	BTA tips the scale as being the more dominant overstory specie. This stand is a hogde podge mix of aspen, NHD, and pine. According to ownership cards, 12ac of this quarter-quarter was planted to 600 TPA of white pine in '61. Aspen is log/pole or pole/log depending upon location and competition it faced for growing space. I leaned toward this stand being more pole size and on the lower end of 75-100% canopy closure. Scattered xlog BTA, WP, and RP observed. Sapling layer is quite dense ir most areas with a strong presence of SM, RM, RO, and BF/Beech in area. Eastern areas pick up log JP/mixed species formally part of Std.453. It also picks up a ~1ac clump of log RF

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a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
52	6120 - Lowland Cedar	Sawtimber Well	30.9	105	171-200	This stand was split out of Std.64. Difficult to delineate with a high degree of accuracy. The portion that makes up this stand (52) is more or less solid cedar. Pockets of cedar extend outside of this stands boundaries. Some areas have almost no understory, while others have a dense BF, Ash sapling understory. Some wind throw in areas but not the extent as found in Std.53. Deciduous/other conifer mixing in areas that aren't completely dominated by cedar. Of a slightly larger size than the cedar found in Std.63.
53	6120 - Lowland Cedar	Sawtimber Medium	14.8	120	111-140	Pronounced cedar blow down stand. Clumps of cedar remain while blow down gaps are being aggressively reclaimed by deciduous species (RM, Ash). A very "big tree/old growthy" in appearance stand. Most overstory species are large log or xlog (and legacy) in size. Canopy closer is on the low end of 50-75% in areas, and closer to 75+% in others.
54	4119 - Mixed Northern Hardwoods	Poletimber Well	37.7	92	81-110	Pole/Log in areas and Log/Pole in others. The majority appears to be larger pole transitioning to small log. RO, BW, Beech, Hemlock, and some RM make up obvious log sizes. Sugar maple is still pole/sap for most part. RO and some BW are of better quality and could yield some sawlogs. The remaining species are mediocre quality at best once entered into sawlog sizes. Some poles look promising but time doesn't/didn't seem to improve older siblings form/quality. Scattered xlog/log hemlock present. Decent SM advanced regen as well. More RM in SE tail. SM more prevalent as you move into central/western portion of stand. More RO in central/western areas as well.
55	4199 - Other Mixed Upland Deciduous	Poletimber Well	11.4	81	81-110	A pole sized stand for the most part with areas (like the southern tail) that feature more log sizes. Small pole/large sap sized RO of good form was quite prevalent throughout. Scattered log/xlog examples as well. Aspen presence is spotty. Beech (with scale) does have a presence. Fir saps thick in areas and light in others. A couple of low/tag alder populated pockets present. RM age may misrepresent stand age a bit. It seems a little younger and NHD species do seem to take much longer to recruit on these soils than the other species present.
56	42350 - Upland Hemlock	Sawtimber Well	6.6	102	141-170	Hemlock dominated stand with a variety of other conifer/deciduous species mixed in. Appears mainly upland with a few "soft" locations. Wildlife was using heavily for thermal cover and feeding below mast producing large red oak.
						OPIC - FMD: SOME HEMLOCK SEEDLINGS PRESENT ON EDGE OF STAND
57	4133 - Aspen, Mixed Pine	Poletimber Well	30.6	45	51-80	Heavily mixed stand of nearly all the species listed in canopy. Dominance of species depends upon location. Pole is the most common size with lots of saps still present. Log sizes exist, especially pine and red oak. These appear to of been leave trees when last treated. Western boundary is low/soft as it borders the bog. Ownership cards suggest that treatments took place in the general area in "70 & '74.
58	4119 - Mixed Northern Hardwoods	Sapling Well	17.0	40	1-50	Basically the reverse of Std.75. Mainly/mostly dominated by sap/some pole sugar/red maple with distinct aspen pole/log pockets within. OPIC stated cut in '76 as did ownership cards. Northern hardwood species are primarily from stump-sprout origin. This stand is nearing uniform pole size (NHD species anyway, remaining species are pole or larger).

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a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
59	42210 - Natural Red Pine	Sawtimber Well	9.8	105	81-110	A unique natural "bigger tree" RP and WP dominated stand. Large RO present as well. BA's and density isn't that high but pine and RO diameters are large and easier to pick up from quite a distance. Small diameter RM, PB, Cedar, and BF present. Somewhat two-aged in appearance but primarily even- aged. Wildlife using heavily for thermal cover as well as feeding below the larger mast producing red oak.
60	4199 - Other Mixed Upland Deciduous	Sawtimber Well	10.3	81	111-140	A general mixing of RM, SM, and QA along with lowland conifer species (BF, NWC, hemlock). A few dead ash and elm present. Appears mostly upland until reaching northern portions of stand. A small cedar w/hemlock clump present in north/northeast (OFS point marks location). Balsam understory relents as you move south. The few WP are super-canopy/legacy size. A few red oak and red pine located along northern portion of west line near Std.48.
63	6120 - Lowland Cedar	Poletimber Well	26.2	110	111-140	Overstory NWC of pole/log and log/pole is the most dominant specie. A pronounced sap/pole understory of ash (dead/dying, EAB), BF, and a host of other species at lower density. Cedar can very from clumpy, scattered, and dominant/homogenous depending upon location. Western boundary near C8 blow down Std.53 picks up some larger log sized cedar. No cedar regen observed. On verge of being primarily a log size stand.
64	6130 - Fir, Aspen, Maple	Sawtimber Well	97.6	81	81-110	Lowland (w/some upland) stand that features complete variability in size classes, ages, and species dominance. Log sizes seem to be the more common class. Western boundary has quite a bit of log/xlog conifer and deciduous as do NW portions of stand. Clumps of cedar (some a few acres in size) are scattered throughout. Pockets of low/tag alder dominated areas where observed. Merchantability of species can vary depending upon location.
						OPIC - FMD: OI Stand Year Origin was 1923
65	4199 - Other Mixed Upland Deciduous	Sawtimber Well	53.6	92	111-140	A combination of klacking and graycalm sandy soil within this stand. Red oak and BTA are prevalent within (compared to Std.26). Sugar maple and beech quality isn't quite what it is in Std.26. This reason (lower quality) and differing species composition is why I split this out of what originally part of Std.26. Still a heavy beech understory with quite a bit of ironwood, depending upon where you are. More SM and RP saps than Std.26, but still not a significant amount present. Some scattered WP/RP and a few hemlock as you near Std.42.
66	6127 - Lowland Pine	Sawtimber Well	8.4	70	81-110	A mixed conifer "somewhat of an island" stand. Being used heavily as a corridor (the day I was visiting). Connects somewhat to Std.57. Was difficult to tell if that "bridge" location is/was wet, soft, or passable (quite a bit of snow present at the time). Bog and lowland shrub more or less surrounds this stand. Soils would at least be sensitive to harvesting equipment.
67	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	4.7	73	141-170	Small hemlock pocket nestled within Std.25. Mainly pole/sap size with log thrown in. Pit and mound with sapling sized hemlock (<3ft and <1"dbh) seeding in atop mounds. Good hem sap production present that's made it above browse line. Perimeter (where canopy is less dense) offers a lot of these saps. QA is mostly standing dead and being utilized as snag material. Scattered WP, RP, RO, and NWC present in overstory.

S t	Atlant	a Mgt. Unit		Report 8	– Forested	Stands Compartment: 155 Year of Entry: 2017
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
68	4119 - Mixed Northern Hardwoods	Poletimber Well	17.5	88	111-140	Graycalm sand dominates within stand. I had a difficult time deciding to call this stand pole size instead of log. Pole size sugar maple abounds throughout as well as pole beech/red maple to a lesser extent. Small log SM/RM/BE present. Larger log sized species present include RO, BTA, and some beech. A lot of sugar maple is currently large sap converting to small pole. Quality of most species is somewhat better than Std.65. Fewer BTA than Std.65 as well. Like Std.65 this stand was split out of what was originally part of Std.26. Beech saps dominate below the SM sap/pole, pole/sap layer. Few SM saps 1" DBH or less.
69	6130 - Fir, Aspen, Maple	Sapling Well	82.7	37	1-50	Lowland conifer, QA, and RM mix. Previous OPIC note states year of origin is '78. Balsam fir ages matched up quite nicely with the O.I. statement. Ownership cards also state a '78 clearcut harvest. Fir is primarily still larger sap size as is RM. QA is a bit larger yet still mainly saps with poles emerging. Scattered QA poles throughout, especially in areas with less canopy closure. Old skid trails still present and quite obvious on imagery. A good "poke your eye out" stand. More openings/wetter areas as you move into southern portion of stand. NW 1/4 (especially) and northern 1/2 of stand has more pole sized aspen than remainder of stand.
70	4319 - Mixed Upland Forest	Sapling Well	17.6	44	51-80	Sap/pole size fir, pine, deciduous mix with sapling appearing to be more common/dominant. Ownership cards state a treatment took place within the general area in '72. This stand may of also been treated with Stds.58,69,75 in the past? Areas with more NHD saps than fir/conifer are present. Some deciduous and conifer log sizes observed and portions of the stand are transitioning to pole size.
72	4199 - Other Mixed Upland Deciduous	Sapling Well	14.4	52	1-50	Very similar to M3 Std.58 but with clumps of xlog/log hemlock that were left following clearcut harvest in the past. A lot of ironwood saps present. Seemingly more IW saps than SM saps. Hemlock is at least 110+ years old. A minimum of ~10BA of hemlock present and very large so you can pick them up from a distance when conducting a swing. Observed beds under each hemlock clump I walked past/through. Observed one very prominent BTA pole/log clone pocket located along center-south boundary line.
73	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	7.4	80	111-140	A mix of pine, aspen, and some red oak. West portion may have some '29 planted WP, based upon ownership cards. Dense RM sap understory. Not sure if it's the result of the '87 shelterwood + removal harvest that occurred in Std.17. Aspen is getting old and turning into good cavity trees/soft snag material. Pine form is good for the most part (some wolfy WP's present). Undulation and a couple of rolling ridge lines along the east end of the stand (near low Std.22).
						OPIC - FMD: Burned WP stumps. PArVHa. W2M1.
75	4130 - Aspen	Poletimber Well	11.9	40	111-140	Mostly aspen dominated but NHD species (SM, RM) are everywhere. Aspen is mainly pole/log and NHD is mainly sap/pole. OPIC comment stated year of origin as '76. Ownership cards suggest a harvest in '76 as well. Betting this stand and Std.58 were treated at the same time. Slivers in the east and southeast of this stand appear low. ~1-2 acres south of Std.76 are of log/pole size and escaped harvest when Std.76 was cut in ~'01. White trunk rot forming on aspen.

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a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
76	6112 - Lowland Aspen	Sapling Well	19.8	14	Immature	Might be upland w/low. Difficult to determine with ~2ft of snow cover. Aspen is regenerating well.
						OPIC - FMD: cut 2001
77	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	28.3	95	81-110	Conifer pockets of log/pole size (primarily cedar mixed w/deciduous) dotted throughout. In between are pole/sap and sap/pole areas of mainly regenerating deciduous atop and with blow downs/tip-ups. Yellow birch advanced regen of sap/pole size is quite impressive in the northern ~1/2 to 1/3 of stand. Three OFS points created that designate regen pockets I observed, there might be more. YB is primarily found atop tip-ups in wetter/mucky area (I'm guessing as 2ft of snow present). Other YB regen throughout but best in the north (sorry for the excitement, don't often see this). The stand as a whole looks very difficult to work in and only scattered pockets with volume. See OPIC comment below. OPIC - FMD: A mix of wetter, sparser P-type plus clumps of cedar and younger P-type. This is the part of stand 76 that did not get cut.
78	6120 - Lowland Cedar	Sawtimber Well	13.8	107	171-200	Cedar stand with minor components of other conifer and deciduous. Some larger log (not yet xlog) NWC observed. Blow down common with BF, RM saps filling those gaps. Scattered legacy and xlog WP observed. Deer browse heavy in areas. Private along north line was strip cut (~20+ years ago). Cedar stumps everywhere but no NWC regen observed. A mix of BF, RM, BAM, and other species regenerating in cut strips. Blue paint, brush line, and flagging still present along PVT/State interface. Found what I believe was a witness tree with carved letters on it (now a stump). Took an OFS point of this stump.
79	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	31.9	72	81-110	Areas that are log/pole and other areas pole/log. More or less in transition from pole to log. Hard to tell how wet it is outside of winter. The stand does seem to move from more upland in western locations to some lower ground as you move East/NE. Lowland type species correspond with this movement as well. Thick BF pole/sap throughout. RM seemed most dominant with pockets heavier to BTA/QA. A few scattered xlog red oak observed and some RO advanced regen. Trail in west is walkable only (blowdown across). Trail veering into east area of stand might be drivable. Tip-ups and blowdowns common. Small cedar pocket in NE corner.
						OPIC - FMD: P-type component being replaced by low hardwoods and conifer.
144	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	9.3	82	111-140	JP, RP, and BTA each kind of have their own areas of dominance depending upon where you go. JP likes the northern 1/2, RP like the south, and BTA exists in pockets and as scattered examples throughout. West line borders low/bog portions of Stds.61/43. JP is dying out in most areas. Decent pine/oak advanced regen in understory.

S t	Atlanta Mgt. Unit			Report 8	- Forested	d Stands Compartment: 155 Year of Entry: 2017
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
337	42110 - Planted Red Pine	Sawtimber Medium	8.8	88	51-80	RP present was planted in 1929 (RP was 2yrs old). Part of '08- 10 RP shelterwood/seed tree + JP/WP/deciduous removal named "155 Red Pine". Possibly part of twister salvage during the same timeframe. Was supposed to be burned following treatment(s). A burn never happened. Red pine seems to been the management objective. If so, this stand failed the regen check. Although composed of the same RP as Std.34 (and other adjacent stands) the understory deciduous flush, post '08-10 harvest, isn't nearly as dense as it is in Std.34. There are still areas heavy with deciduous regen but I'd still call the overstory RP the dominant specie. The western ~2-3 acres weren't thinned as much as remainder of the stand and return higher RP BA swing values. Yellow marked (RP leave trees) and unmarked RP still found in this area, unlike remainder of stand.

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Stand	Cover Type	Acres	Managed Site	General Comments:
18	623 - Emergent Wetland	0.3	No	Aspen and hardwood along perimeter.
22	623 - Emergent Wetland	16.3	No	Appears that some water may flow through eastern "vein" and standing water may seasonally populate the western "fingers". QA, RM, BF, Hemlock, WP, and Blk Spruce populate edges and some interior locations.
29	622 - Lowland Shrub	0.7	No	
35	622 - Lowland Shrub	1.5	No	Only briefly saw the edge of this lowland shrub stand while inventorying Std.69.
41	622 - Lowland Shrub	23.4	No	Lowland shrub corridor with some conifer and deciduous species present. Sap (and few pole and log) sizes of WP, Blk Spruce, PB, Tamarack, BF, and RM present on edges and some interior locations.
43	6224 - Treed Bog	58.3	No	Very similar to tree bog Std.61 to the north. More JP present than Std.61. Less tamarack as well.
61	6224 - Treed Bog	53.3	No	Bog complex being reclaimed by conifer species of sap/pole and pole/sap size. Some scattered log sizes of nearly all the species listed above are present. Southern 1/2 is quite heavily reclaimed. Northern 1/2 is more open. If time had permitted, some areas could been delineated and would roughly typed out to MC3 and MC6 stands. Interestingly enough, a burn to increase blueberry production took place somewhere in the northern 1/2 during '68.
62	500 - Water	0.6	No	Ice present during inventory on 3/9/15. Open water when viewed on 4/24/15. Unsure if water remains year round.
80	122 - Road/Parking Lot	8.9	No	Town Hall Rd and/or County Rd. 489.
81	122 - Road/Parking Lot	3.9	No	Town Hall Rd. and/or County Rd. 489.
428	330 - Low-Density Trees	9.5	No	A mix of grass/sedge dominated areas with tree specie reclamation areas. All size classes (sap/pole/log) of the following tree species can be found within: JP, WP, RP, RM, BW, SM, BTA/QA, Cherry, RO, Apple. GPS what I think is the foundation OPIC commented about? Rx'ed burn mentioned for this opening but fairly certain that never took place. OPIC - FMD: Old foundation near center of field. Use a fifty foot bufferprotected by foam linearound any evidence of old farmstead. Foam line may be tied to existing two-track.
453	330 - Low-Density Trees	3.4	No	Do not believe any opening maintenance has occurred here in quite some time, if ever. OPIC - FMD: reclaim and maintain orginal opening by burning.
473	310 - Herbaceous Openland	0.9	No	Believe this was used a landing site when stands 58, 69, and 75 were treated in the mid to late 70's. Lots of grass and a few scattered seedlings.