

Morgan Jones
 Howard County, Arkansas
 4/2/2008

Inventory Report
 Cossatot 15
 15 Total Acres
 15 Cruised Acres

RFC
 P. O. Box 1129
 Magnolia, AR 71754
 (870) 234-0200

Pine Sawtimber

Merchantable Heights in 16 Foot Logs

Diameter at 4.5'	Form Class	1
10	81	0
12	81	15
Total		15

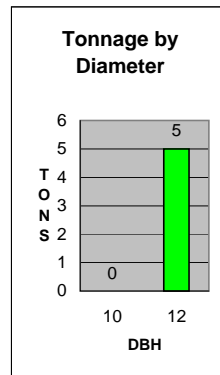
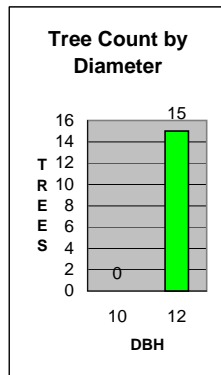
Trees			
Total Trees	Per Acre	Total 16 ft. Logs	Average Logs/Tree
0	0.0	0	0.0
15	1.0	15	1.0
15	1	15	1.0

Doyle Log Rule (derived from CF)			
Total BF	Per Acre	Per Tree	Average BF/Log
0	0	0	0
429	29	29	29
429	29	29	29

Tons		
Tons Total	Tons Per Tree	Loads (28 Tons)
0	0.0	0.0
5	0.3	0.2
5	0.3	0

Cubic Feet		
CF Total	CF Per Acre	CF Per Tree
0	0	0
143	10	10
143	10	10

Pine Sawtimber Summary	
Average DBH (inches)	12.0
Average Height (16 Ft Logs)	1.0
Average Tons/Acre	0



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Pine Pulpwood

Merchantable Heights in 16 Foot Logs					<u>Trees</u>		<u>Cords</u>		<u>Tons</u>		
Diameter at 4.5'	Form Class	1	1.5	2	Total Trees	Per Acre	Total Cords	Per Acre	Tons Total	Tons Per Acre	Loads (28 Tons)
6	81	0	45	15	60	4.0	2.6	0.2	7	0.5	0.2
8	81	15	765	0	780	52.0	57.2	3.8	150	10.0	5.4
	Total	15	810	15	840	56.0	59.9	4.0	157	10.5	5.6

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Hardwood Pulpwood

Diameter at 4.5'	Merchantable Heights in 16 Foot Logs					Trees		Cords		Tons		
	Form Class	1	1.5	2	2.5	Total Trees	Per Acre	Total Cords	Per Acre	Tons Total	Tons Per Acre	Loads (28 Tons)
6 & 8	76	0	90	75	30	195	13.0	15	1.0	39	2.6	1.4
10	76	0	15	60	0	75	5.0	10	0.7	25	1.7	0.9
12	76	0	0	15	15	30	2.0	6	0.4	16	1.1	0.6
14	79	0	0	45	0	45	3.0	12	0.8	31	2.1	1.1
16	79	0	0	30	0	30	2.0	11	0.7	28	1.9	1.0
Total		0	105	225	45	375	25.0	55	3.7	139	9.3	4.9

Inventory Utilizations

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- * Trees were inventoried by diameter at breast height (dbh; two inch classes at 4.5 feet).
- * Pine Sawtimber dbh reported as ≥ 10 inches in two inch classes as follows: 10" = 9.1" - 11.0" dbh; 12" = 11.1" - 13.0" dbh, etc.
- * Hardwood Sawtimber dbh reported as ≥ 14 inches in two inch classes as follows: 14" = 13.1" - 15.0" dbh; 16" = 15.1" - 17.0" dbh, etc.
- * Tree heights were called in 16 feet logs to 6" top diameters outside bark (dob) for pine sawtimber, 9" top dob for hardwood sawtimber, 3" top dob for all pulpwood, or to merchantability (whichever occurred first).
- * Saw-log merchantable heights are defined as: 1) to the heights specified above, or 2) the height where a whorl of 3 or more branches (whose diameters are equal to or greater than the diameter of the supporting stem) occurs within a 1-foot stem section if there is not a minimum of 8 feet of clear stem above the whorl. If a one foot section has three or more 3 inch diameter branches, regardless of the diameter, the height is called just below the one foot section.
- * Cubic Feet were derived from USFS's "Stem Profile Equations for Southern Tree Species" by Clark, Souter and Schlaegel.
- * Board Feet in Doyle was derived from the cubic feet using conversion tables in the Forest Service's "Service Forester's Handbook".
- * Pine Sawtimber tons were derived from Cubic feet using 3.37 tons per Cunit (10" - 18" dbh) and 3.30 tons per Cunit (20" - 30" dbh).
- * Hardwood Sawtimber tons were derived from Cubic feet using 3.65 tons per Cunit for Oak and 3.40 tons per Cunit for Misc. Hardwood.
- * Pulpwood volumes were derived from cubic feet. Cords were derived using 78 cubic feet per cord for pine and 74 cubic feet per cord for hardwood. Cubic feet were converted to tons using 3.37 tons per cunit for pine and 3.4 tons per cunit for hardwood.
- * Expected tonnage fluctuations occur between winter and summer logging due to sap flow and moisture composition.
- * Pine sawtimber tree count and dbh are not guaranteed.