

Allen Nipper
Lafayette County, Arkansas
11/30/2007

Inventory Report
Forest Grove
50 Total Acres
4 Cruised Acres

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

Pine Sawtimber

Diameter at 4.5'	Form Class	Merchantable Heights in 16 Foot Logs							
		1	1.5	2	2.5	3	3.5	4	4.5
10	82	0	8	12	12	0	4	0	
12	82	0	0	4	0	4	8	24	0
14	82	0	4	8	4	0	16	16	16
16	82	0	0	4	4	4	12	24	12
18	82	0	0	0	0	0	8	32	4
20	82	0	0	0	0	0	16	0	8
22	82	0	0	0	0	8	12	0	0
Total		0	12	28	20	16	76	96	40

Trees			
Total Trees	Per Acre	Total 16 ft. Logs	Average Logs/Tree
36	9.0	80	2.2
40	10.0	144	3.6
64	16.0	224	3.5
60	15.0	222	3.7
44	11.0	174	4.0
24	6.0	92	3.8
20	5.0	66	3.3
Total	288	1,002	3.5

Doyle Log Rule (derived from CF)			
Total BF	Per Acre	Per Tree	Average BF/Log
1,046	262	29	13
3,024	756	76	21
7,796	1,949	122	35
11,495	2,874	192	52
12,526	3,132	285	72
8,966	2,242	374	97
9,169	2,292	458	139
Total	54,022	13,506	188

Tons		
Tons Total	Tons Per Tree	Loads (28 Tons)
15	0.4	0.5
34	0.8	1.2
71	1.1	2.5
92	1.5	3.3
90	2.0	3.2
58	2.5	2.1
55	2.8	2.0
Total	415	15

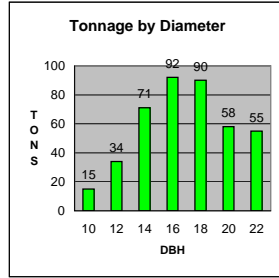
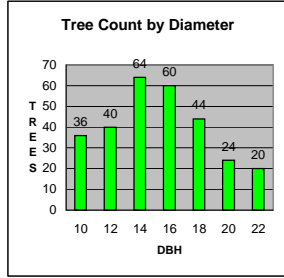
Cubic Feet		
CF Total	CF Per Acre	CF Per Tree
449	112	12
1,008	252	25
2,107	527	33
2,737	684	46
2,665	666	61
1,758	440	73
1,667	417	83
Total	12,391	3,098

Pine
Sawtimber Summary

Average DBH (inches)
15.3

Average Height (16 Ft Logs)
3.5

Average Tons/Acre
104



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Pine Pulpwood

Diameter at 4.5'	Merchantable Heights in 16 Foot Logs							Trees		Cords		Tons		
	Form Class	1	1.5	2	2.5	3	3.5	Total Trees	Per Acre	Total Cords	Per Acre	Tons Total	Tons Per Acre	Loads (28 Tons)
6	81	0	4	4	0	0	0	8	2.0	0.4	0.1	1	0.2	0.0
8	81	0	0	0	8	44	8	60	15.0	5.9	1.5	15	3.9	0.6
	Total	0	4	4	8	44	8	68	17.0	6.2	1.6	16	4.1	0.6

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Hardwood Pulpwood

Diameter at 4.5'	Merchantable Heights in 16 Foot Logs					
	Form Class	1	1.5	2	2.5	3
6 & 8	76	0	12	24	24	4
10	76	0	0	4	8	4
12	76	0	0	4	4	8
Total		0	12	32	36	16

Trees		Cords		Tons		
Total Trees	Per Acre	Total Cords	Per Acre	Tons Total	Tons Per Acre	Loads (28 Tons)
64	16.0	5	1.3	13	3.3	0.5
16	4.0	2	0.6	6	1.5	0.2
16	4.0	3	0.9	9	2.3	0.3
96	24.0	11	2.7	28	7.0	1.0

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.