

Keith & Linnea Whitman  
 Ouachita County, Arkansas  
 7/31/2009

Inventory Report  
 Whitman 43  
 120 Total Acres  
 34 Cruised Acres

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

**Pine Sawtimber**

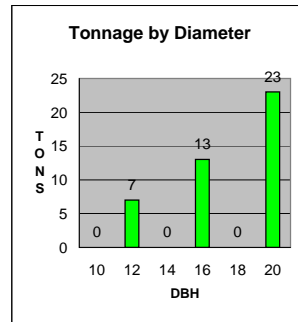
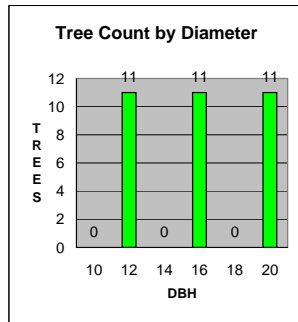
Diameter at 4.5'	Merchantable Heights in 16 Foot Logs					Trees				Doyle Log Rule (derived from CF)				Tons			Cubic Feet					
	Form Class	1	1.5	2	2.5	3	Total Trees	Per Acre	Total 16 ft. Logs	Average Logs/Tree	Total BF	Per Acre	Per Tree	Average BF/Log	Tons Total	Tons Per Tree	Loads (28 Tons)	CF Total	CF Per Acre	CF Per Tree		
10	81	0	0	0	0	0	0.0	0	0.0	0	0	0	0	0	0.0	0.0	0	0	0	0		
12	81	0	0	0	11	11	0.3	28	2.5	660	19	60	24	7	0.7	0.3	220	6	20			
14	81	0	0	0	0	0	0.0	0	0.0	0	0	0	0	0	0.0	0.0	0	0	0	0		
16	81	0	0	0	11	11	0.3	28	2.5	1,651	49	150	60	13	1.2	0.5	393	12	36			
18	81	0	0	0	0	0	0.0	0	0.0	0	0	0	0	0	0.0	0.0	0	0	0	0		
20	81	0	0	0	0	11	0.3	33	3.0	3,565	105	324	108	23	2.1	0.8	699	21	64			
<b>Total</b>		0	0	0	22	11		33	1	88	2.7		5,876	173	178	67	43	1.3	2	1,312	39	40

**Pine**  
 Sawtimber Summary

Average DBH (inches)

Average Height (16 Ft Logs)

Average Tons/Acre



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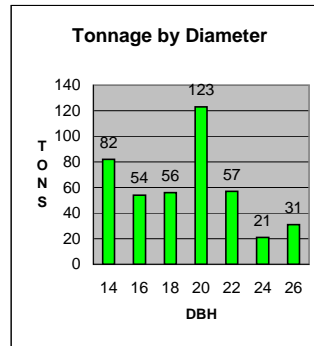
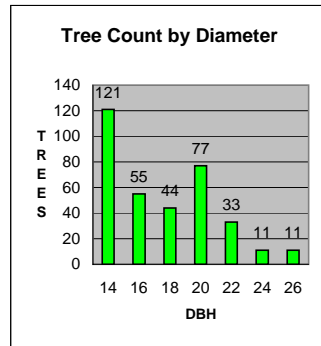
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Red Oak Sawtimber

Diameter at 4.5'	Merchantable Heights in 16 Foot Logs				Trees				Doyle Log Rule (derived from CF)				Tons			Cubic Feet		
	Form Class	1	1.5	2	Total Trees	Per Acre	Total 16 ft. Logs	Average Logs/Tree	Total BF	Per Acre	Per Tree	Average BF/Log	Tons Total	Tons Per Tree	Loads (28 Tons)	CF Total	CF Per Acre	CF Per Tree
14	76	0	11	110	121	3.6	237	2.0	8,336	245	69	35	82	0.7	2.9	2,253	66	19
16	76	0	0	55	55	1.6	110	2.0	6,182	182	112	56	54	1.0	1.9	1,472	43	27
18	76	0	0	44	44	1.3	88	2.0	7,182	211	163	82	56	1.3	2.0	1,528	45	35
20	76	0	0	77	77	2.3	154	2.0	17,172	505	223	112	123	1.6	4.4	3,367	99	44
22	76	0	22	11	33	1.0	55	1.7	8,635	254	262	157	57	1.7	2.0	1,570	46	48
24	76	0	11	0	11	0.3	17	1.5	3,469	102	315	210	21	1.9	0.8	588	17	53
26	76	0	0	11	11	0.3	22	2.0	5,336	157	485	243	31	2.8	1.1	847	25	77
<b>Total</b>		0	44	308	<b>352</b>	<b>10</b>	<b>682</b>	<b>1.9</b>	<b>56,312</b>	<b>1656</b>	<b>160</b>	<b>83</b>	<b>424</b>	<b>1.2</b>	<b>15</b>	<b>11,625</b>	<b>342</b>	<b>33</b>

Red Oak	
Sawtimber Summary	
Average DBH (inches)	17.6
Average Height (16 Ft Logs)	1.9
Average Tons/Acre	12.8



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**White Oak Sawtimber**

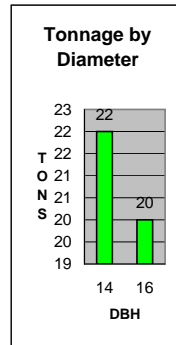
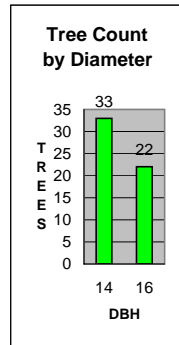
Diameter at 4.5'	Merchantable Heights in 16 Foot Logs				Trees				Doyle Log Rule (derived from CF)				Tons			Cubic Feet		
	Form Class	1	1.5	2	Total Trees	Per Acre	Total 16 ft. Logs	Average Logs/Tree	Total BF	Per Acre	Per Tree	Average BF/Log	Tons Total	Tons Per Acre	Loads (28 Tons)	CF Total	CF Per Acre	CF Per Tree
14	76	0	0	33	33	1.0	66	2.0	2,279	67	69	35	22	0.6	0.8	616	18	19
16	76	0	11	11	22	0.6	39	1.8	2,247	66	102	58	20	0.6	0.7	535	16	24
<b>Total</b>		0	11	44	55	2	105	1.9	4,526	133	82	43	42	1.2	2	1,151	34	21

**White Oak**  
 Sawtimber Summary

Average DBH (inches)  
 14.8

Average Height (16 Ft Logs)  
 1.9

Average Tons/Tree  
 0.8



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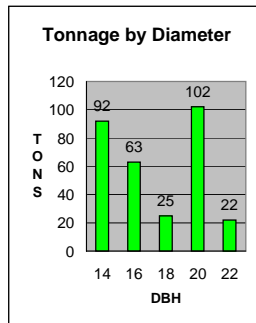
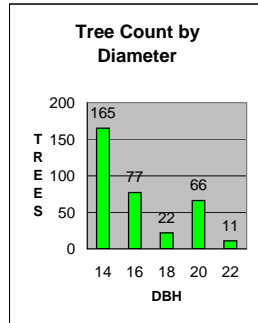
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Miscellaneous Hardwood Sawtimber

Diameter at 4.5'	Merchantable Heights in 16 Foot Logs					Trees				Doyle Log Rule (derived from CF)				Tons			Cubic Feet		
	Form Class	1	1.5	2	2.5	Total Trees	Per Acre	Total 16 ft. Logs	Average Logs/Tree	Total BF	Per Acre	Per Tree	Average BF/Log	Tons Total	Tons Per Tree	Loads (28 Tons)	CF Total	CF Per Acre	CF Per Tree
14	76	0	44	121	0	165	4.9	308.0	1.9	9,986	294	61	32	92	0.6	3.3	2,699	79	16
16	76	0	11	55	11	77	2.3	154.0	2.0	7,745	228	101	50	63	0.8	2.2	1,844	54	24
18	76	0	0	22	0	22	0.6	44.0	2.0	3,459	102	157	79	25	1.1	0.9	736	22	33
20	76	0	0	11	55	66	1.9	159.5	2.4	15,239	448	231	96	102	1.5	3.6	2,988	88	45
22	76	0	0	0	11	11	0.3	27.5	2.5	3,537	104	322	129	22	2.0	0.8	643	19	58
<b>Total</b>		0	55	209	77	<b>341</b>	<b>10</b>	<b>693</b>	<b>2.0</b>	<b>39,966</b>	<b>1175</b>	<b>117</b>	<b>58</b>	<b>304</b>	<b>0.9</b>	<b>11</b>	<b>8,910</b>	<b>262</b>	<b>26</b>

Miscellaneous Hardwood Sawtimber Summary	
Average DBH (inches)	16.1
Average Height (16 Ft Logs)	2.0
Average Tons/Acre	9.2



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**Hardwood Pulpwood**

Diameter at 4.5'	Form Class	Merchantable Heights in 16 Foot Logs				<u>Trees</u>		<u>Cords</u>		<u>Tons</u>		
		1	1.5	2	2.5	Total Trees	Per Acre	Total Cords	Per Acre	Tons Total	Tons Per Acre	Loads (28 Tons)
6	76	0	264	319	0	583	17.1	28	0.8	70	2.1	2.5
8	76	0	0	297	33	330	9.7	30	0.9	76	2.2	2.7
10	76	0	0	55	110	165	4.9	24	0.7	61	1.8	2.2
12	76	0	0	44	132	176	5.2	37	1.1	94	2.8	3.3
<b>Total</b>		0	264	715	275	<b>1,254</b>	<b>36.9</b>	<b>119</b>	<b>3.5</b>	<b>301</b>	<b>8.9</b>	<b>10.7</b>

## Inventory Utilizations

[www.reynoldsforestry.com](http://www.reynoldsforestry.com)

- \* Trees were inventoried by diameter at breast height (dbh; two inch classes at 4.5 feet).
- \* Pine Sawtimber dbh reported as  $\geq 10$  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  $\geq 14$  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 dop 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.
- \* Tree count and dbh are not guaranteed.