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TEXAS FORESTRY PA



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STEPHEN F. AUSTIN STATE UNIVERSITY

Nacogdoches, Texas

GREEN AND DRY WEIGHT YIELDS
FOR
UNTHINNED OLD-FIELD LOBLOLLY PINE PLANTATIONS
IN THE INTERIOR WEST GULF COASTAL PLAIN

J. David Lenhart1

Increasing familiarity with weight-scaling at mills is alerting foresters, wood procurement personnel, and mill management to advantages of timber estimates presented in terms of product weight. This paper presents schedules of merchantable green weight and ovendry weight yields per acre for unthinned old-field loblolly pine (Pinus taeda L.) plantations in the Interior West Gulf Coastal Plain.

MERCHANTABLE GREEN WEIGHT PER ACRE

Recent mensurational work by Hicks, Lenhart and Somberg (1972) has produced equations for predicting green weight of merchantable stems of planted loblolly pine trees. Using these equations in conjunction with schedules of number of trees and total heights by diameter classes developed by Lenhart (1972), tables showing the expected merchantable green weight per acre were calculated. These yields are presented in Tables 1 through 6.

OVENDRY BARK-FREE WEIGHT PER ACRE

Equations for predicting the dry weight of planted loblolly pine trees have been developed by Hyink, Lenhart and Somberg (1972). A procedure similar to that used for green weight yields was followed to calculate the expected ovendry bark-free weight per acre. These yields are presented in Tables 7 through 10.

Assistant Professor of Forest Biometrics, School of Forestry, Stephen F. Austin State University.

Table 1. Estimated merchantable green weight yield per acre, including bark, to a 2.0-inch top d.o.b., of trees 4.6 d.b.h. or larger, for old-field loblolly pine plantations.

				ELGHT	PER AC	RE (po	(ebm							W	IGHT I	PER AC	RE (por	unds)			
Trees	Age		-		by	I-Inch	diamet	ter cl			Trees per Acre					by	1-inch	diame	ter cla		
Acre	(yra)	TOTAL	5	6	7	8	9	10	11	12	Acre	(yre	TOTAL	5	6	7	8	9	10	11	12
				s	ITE IN	DEX 40									S	ITE IN	DEX 60		Ŧ		
500	10 15 20 25										500	10 15 20 25	85378 151853 194690 224171	9924 8217 8012 7958	23364 21472 21669 22288	32504 37280 38292 39157	19154 44671 49686 51972	412 34791 48193 54646	5427 27881 39828	957 8322	
100	15	26519 69458 98288	14518	25159	24209	5572	2061					15	89549 161941 209434 240415	12711	29819 30379	45332	47709 56187	25692 46635	16264	2080	
700	20	23585 70546 102350 125026	18603	29039	20954 34809	16788	423				700	20	90910 171995 222858 258625	17931 17746	38122 38386	52462 56683	46887 60570	16593	7745		
800	20 2	20801 70275 105427 129320	22426 22568	30590 37000	16682 34882	575 10977 23757	1371				800	15	92880 179027 234718 272165	23073 23497	45073	57037	61989	9836	3153		
900	15	18381 70329 106645	26845	30872	12612						900	20	94005 185820 244608 286799	29090 28990	51392 54347	69087	61989	4918 29366	788		
000	15	15404 59578 107761	29878	31232	8618	3551						15	92590 191463 254974	34367	58427	61612	34871				
		12676 67360									1100	15	90934 197084 263052	40655	63601	63292	28989				
	10 15 20 25		9961 34257	111 27291	3363							15	199521 269007	45929	68128	62357	23107	11247			
	-		-								******			******							
-	Ve					DEX 50					***	1	*******				DEX 70				
300	15 20 25	108654 142247 165996	8753 8026 7960	21865 20979 20976	33863 35587 35991	13031 41169 44954	11142 31285 39891	5201 16224			300	- 70								14393 30959	145
600	20	56069 113671 151719 177585	13458	28527	38629	28945 43669	23079	650)		600	20	125151 214157 269427 309145	12564	30780	51485	59150	6258;	2 40449	5536	
700	10 15 20 75	35744 118905 181099 190083	20116 16067 17741 17140	26387 35311 35812 37298	9243 40636 49258 52068	23757 42907 51906	914 15386 29555	2110			700	10 15 20 25	129759 226991 287809 329226	19236 17546 18197 18713	38635 38957 40744 4221	5885 6197 6461	24226 3 63030 2 72343 5 76466	6 4746 7 5266 4 7164	7 5518 4 30361 4 47125	1124 8452	
#00	26	53617 123164 167467 198798	23446	43144	33047	17119	8909	715			900	20	134564 238538 304844 348523	23405 24040	4786	7076	4 6507 6 7724	0 3436	1 21904		
900	15 20	52281 125283 173635 206551	28224 28375	44821	40792 55379	11529	4717				900	15	137280 248290 320111	29017	5571	7224	5 6459	4 2671	2 4 13690		
000	15	49443 126520 179066	33799	49350	39384	6987					1000								o		
1100	15	47035 128684 183278	38267	51700	34777	3940					1100								6		
1200	15	41602 129594 186577	42392	5332	7 31726						1200	10 15 20 25									

Table 2. Estimated merchantable green weight yield per acre, excluding bark, to a 2.0-inch top d.o.b., of trees 4.6 d.b.h. or larger, for old-field loblolly pine plantations.

	-			*****	PER AC						*****		-					4		******	
Trees	Apr		-		maked being	STATE STATE OF	diame	ter cl	asses	12	Trees			-		by	1-inch	diame	ter El	annes	
Acre	(ута	TOTAL	5	. 6	7		9	10	11	12	Acre	(yrs) TOTAL	5	6	7	8	9	10	31	12
				s	ITE IN	DEE 40									5	ITE IN	DEX NO				
500	10 15 20 25										500	15 20	75666 137109 176782 204087	7127 7006	19369	33605 34636	17291 40366 45247 47390	31759 44070	4966		
600	10 15 20 25	22053 60627 87051	11706 12177 11224	21905	21532	5013					600	10 15 20	79049 145841 189784 218472	12860 11025 10954	26880 26533 27176	29672 40864 42912	9637 43345 51167	23453	671		
700		19477 61338 90380 111206	15604	25342 28860	18637 31114	15166	385				700	10 15 20	79927 154602 201623 234711	17146 15581 13539	31124 33956 34339	27405 47321 51298	4252 42597 53177	15147 38166	7104		
800		17112 60863 92872 114748	18813	26695 32539	31213	9916					800	-20	81461 160607 212033 246665	20048	40147	57554	39982	8982 32553	2893		
900	10 15 20 25		12746 22608 22890	26941	11233						900	20	82273 166444 220691 239679	25320	46653	62554	36639	4491 26867	723		
000	10 15 20 25	12638 60109 94689	23120	27313	7676						1000	15	80824 171269 229818	29913	52090	35575	31093				
100		10376 57953									1100	10 15 20 25			56704	57124	26349				
260	10 15 20 25	8232 55712	8137 28850	95 23867	2995						1200	15	78351 178063 241999	40041	60740	56280	21002				
							-				Admin	****	*******			*****					000
				51	te mi	EX. 50															
/90	16	17700 97140	9245	19004	17341	2108	16110				inisi	100		aire.			W.E. 70				
	25		6904	18607 18665	32036 32464	37349 40859	28539	4763				13	180261 227901 258490	6921	19384	35659	47849	Nt.564	23867		13
	15 20 25	136379 136379 180291	11517 10915 10769	25167 25717 25889	34633 38443 39893	76185 19656	21053	393			600	19 15 20	111842 194137 245347 282146	111006	27971 27556 28183	39971 44730	29274 53884 59881	2620 44368	17295	ioni	
	15	47981 105621 144506 171273	15356	31373	3643Z 44373	38943	14035	1939			100	16 15 20	145610 205463 261751 300110	16585 15385 16065	34224 34875 3664L	42409 53285 56269	21935 37984 66038	537 38873 57611	30%3 78075	2020	
	20	45931 169171 149927 178808	20117	35887 38351	37681 47187	36083	81.10					(5) 15 20	11961 213600 276941 317373	21830 20318 2174a	46765 42879 45141	42409 39988 64236	10637 19301 70526	31440	3448		
00	15 70	110782 135216 185514	24717 24610	39604 43524	36525 49887	10436 32891	4304				900	10 15 20	121791 224113 290529	26553 25480	45332 49916	40701 65410	9203 58862	14645			
00.	15	47131 113499 159828	29071	43659	36444	6373 28506	1913					10	123500 233791	32.172	48715	18501	3113				
00	15	40022 113429 163386	32914	45738	31208	3569					1100	10	124605 24097B	36663 36450	51253 63535	34501 74180	2386 34391	17227			
	15	37008 114081 156140	36462	47178	28494	1947					1200	10 15 20									

Table 3. Estimated merchantable green weight yield per acre, including bark, to a 3.0-inch top d.o.b., of trees 4.6 d.b.h. or larger, for old-field loblolly pine plantations.

-			-	E-TH-HIT	BEN W	ne (be	The state of	-		-	-				recons	TAN NO	ur the	unus?			
Per .	Age				hy	1-inch	dim	ster c	Lausen		Trees per Acre	ARE		-		by	1-inch	diame	ter cl		
Mere	(yes)	TOTAL	5	6	7		0	10	11	12	Acte	(yrs	TOTAL	5	-	7	8	9	10	11	12
				3	ITE IS	DEX 40) -								5	ITE IN	DEX 60				
	10 15 20 25										500	15	79634 146084 189043 218607	7391	20128	35767	48475	34077	3339	948	
600	10 15 20 25	22188 63153 91579	11556 12331 11458	10059 22779 24617	571 22715 3206)	5328 21440	200				600	20	82975 135127 202680 233739	11434 11425	28001 28780	43493	46367 54817	25165 45827	16057		
700	16 15	19493 63721 94891 117321	12310	6985 26394	19663	1865					700	10 15 20	#3666 164242 215100 250901	17544 16179 16222	32586 35857 36365	29007 50386 54737	4529 45568 59126	16252 41004	7646		
600	10 15 20	17077 63037 97347 120866	12563 19050 19649	4514 27803 34068	1565	551					800	20	85133 170402 226019 263452	20818 21528	42395	54780	42770 60512	9639	3114 13345		
900	10 15	15104 62881 98016	12651	2453 28060	11861						900	20	85857 176416 235022 277180	26323 26560	48338 51550	57709	39226 60512	4820 28869	778		
900	10 15 20 25	12587 62105 98732	11409 25511 26930	1176 28485 40276	810	3415	1				1000	15	84194 181369 244586	31098	55041	59174	33914				
100	15 20	10318 59763	27599	27024	514	í.					1100	10 15 20 25	82367 186384 251960	33741 36890 37678	38280 59916 65267	10346 60848 75606	28194 57439	536 15970			
200	10 15 20 25	8175 57356	8077 29299	24894	316						1200	10 15 20 25	81432 188277 257225	37865 41674 42835	36393 64181 70861	6972 39949 78330	22473 54143	11056			
-														-				*****	0.000	******	
					nt in																
00	10 15 20 1 25 1	49524 02832 36445 60225	9298 7680 7143 7160	19728 20239 19592 19697	19260 32199 34066 34567	2738 31877 39917 43720	10857 30608 39092	5117 15989			500	10 15 20 25	111651 192810 244408 277548	7824 7225 7543 7540	21351 20525 21680 22525	36053 38049 39283 40043	36594 51273 53985 55719	9829 50048 39593 62933	25690 48037 56581	14285 30754	145
06	10 15 1 20 1 25 1	50154 06913 44884 70749	(3380 (381) (1289 (1182	22326 28406 27100 27339	13990 36731 40879 42476	258 27913 42396 47807	4010 21580 34993	840 8932			H00	10 15 20 25	118364 207413 262846 302698	12399 11603 11786 12143	29429 29197 29938 31703	47728 47728 49962 51926	31263 57740 63961 66984	2808 47911 61674 69201	13234 40031 52745	3494 17994	
00	10 15 1 20 1	49497 11333 33308 82239	16958 15903 15907	23887 32949 13509	8632 38639 47207	22951 41632	891 15033				700	10 15 20 25	122106 219267 280196 321726	17128 16076 16865 17450	36008 36932 38937 40481	45053 56875 60170 62909	23449 62147 70891 75068	468 41768 61971 20722	5449 30246 46699	1116	
00	15 1	47224 14910 58853 90037	20706 20276	17680 40443	39986 50839	16376		709			800	10 15 20	126169 129868 296243 340007	22578 21489 22316	42925 43454 47986	45053 64026 68710	15633 63559 75688	51783 59858	1357 21683		
00	20 1	45882 16419 64287 96976	24926 25523	41595 45899	38760 53023	351.75	4617				900	15	128270 238733 310383	26646	52913	69516	630HI	26270			
00	15 1	43152 19171 69010	29974	45895	36552		2052				1000	16 13 20 25	129920 246899								
00	15 1	40951 18945 72633	11936	46081	33118		513				1100		131162 236389								
100	15 1	37797 19520 75408	37594	49594	30754						1200	10 15 20 25									

Table 4. Estimated merchantable green weight yield per acre, excluding bark, to a 3.0-inch top d.o.b., of trees 4.6 d.b.h. or larger, for old-field loblolly pine plantations.

Yrees					8.77	100 100 100	ARTON			-	Trees	*****			Time:	by	1-inch	diamer	er cla	sses	
per	Age	TOTAL	-	6	7	- Lucin	d THINGS	10	11	12	per	Age (yrs)	TOTAL	5	6	7	8	9	10.	11	12
ar I e	(3192	TO LINE		-			-			-	Trees per Acre										
				5	IVE. INC	EX 40									51	ITE IN	DEX 60				
500	10 15 20 25										500	20	70594 131996 171763 199133	6384	17899	32265	39420 44168	43306	25255		
600	15 20	18239 55069 81120	9175 10251	8561 19807	20213	6797	1821					15	73247 139085 183789 212537	9899 9982	24927 25762	39235	42151	41933	14732	1000	
700	15	15877 55320 83797	13137	23009	17495	1679 14613	375				700	10 15	73537 147740 194741	14851 14036	28649 31955	25945 45481	4092 41425	14843			
	25	104401	13152	27340	34880	25376	3653					25	227848	14441	33826	51741	59015				
800	15 20	13834 34500 85743 107284	15838 16633	24238 29952	13928 29603	496 9555 20790	1218					15 20	74627 152977 204339 238929	18061 18866	37781 39846	49448 55615	38881 55153	32001	2858		
900	15	12246 54218 86074	19187	74467	10570	5902						15 20	75088 158126 212196 251144	22880 23276	43077 46180	52092 60451	35674 55153	25422	714		
000	10 15	10158 53436 86526	9151 21319	1007	7223						1000	10 15	73420 162345 220615	25875 27031	34254 49099	13291 53414	30844	1957			
100	10	8303 51258										10 15 20	71641 166660 227062	32124	53447	54959	25641				
200	10 15	6562 49056	24484	21753	2819						1200	15 20	70749 168127 231570	36290	57252	54146	20439	10119			
-	-										****	25									-
					ITE IN												DEX 50				
500	10 15 20 25	100151 175255 223033 253737	6708 6322 6652 6671	18892 18373 19499 20303	32404 34457 35678 36418	33187 46733 49302 50944	8960 45795 54621 57728	23575 44135 52018	13146 28316	1339		10 15 20 25	42950 91992 123073 145066	7638 6507 6143 6199	17106 17855 17382 17535	16196 28888 30689 31202	2010 28857 36238 39762	9885 27935 35713	14655		
600	10 15 20 25	105845 188167 239487 276389	10660 10168 10394 10753	26075 26155 26927 28593	38196 43223 45377 47239	28354 52627 58428 61256	2560 43849 56526 63487	12145 36779 48491	5056 16570		600	10 15 20 25	43249 95275 130329 154233	11227 10086 9730 9701	19360 23295 24072 24363	12430 32954 36827 38342	232 25287 38506 43478	3653 20608 31977	586 6372		
700					A STATE OF	www.w	1000				700	10 15 20	42476 98935 137614 164326	14019 13555 13741	20770 29112 29765	7687 34666 42557	20790	612 13736			
800	10 15 20	117243 207913 269296 309786	19459 18858 19723	38082 40749 43210	40525 58009 62427	14177 57949 69139	30919 54872	1429			500	10 15 20	40300 101685 142310 171051	16404 17704 17515	19807 33292 33965	4089 35908 45831	14981 L 35037	7961			
900	15	113835 215644 282064	23384	47436	63255	57520	24049	12453			900	10 15 20	39057 102957 146937 177040	19214 21311 22097	17880 36751 40817	1963 34806 47845	1 5 10086 5 3196	4215			
000	10 15	115089 224628									1000	10	36590 105249 150941	20626	15310	654	611				
100	10	116008 231161									1100	10 15 20	3466Z 104835 153981	29098	42543	2974	0 345				
1200											1200	10	31895 105192 156271	3223	4 43882	2 2719	2 188 9 1846	,			

Table 5. Estimated merchantable green weight yield per acre, including bark, to a 4.0-inch top d.o.b., of trees 4.6 d.b.h. or larger, for old-field loblolly pine plantations.

			N.	LIGHT	PER ACI	re (bon	nds)			-	-			-	FICHT	PER AC	KE (po	unds)			
Trees	Age		-		by I	-inch	diamet	er cl	Ausen		Trees		0			by	1-inch	diame	ter cl	Anses	
Acre	(yrs)	TOTAL	5	6	7	8	9	10	11	12	Acre	(yrs) TOTAL	3	6	7	8	9	10	11	12
				5	ITE IN	EX 40									5	ITE IN	DEX 60				
500	10 15 20 25										500	20	65228 131757 175116 204959	5311	16759	32004	40204	372 32338 45275 51706	3141 26684	927	
500	10 15 20 25	11240 47287 74745	6806	16786	445 18974 27495	4721	1860				600	15 20	66465 138162 185975 217301	8216 8651	23446 24782	41640	43060 51458	23880 43878 52325	15566	2024	
700	10 15 20 25	9157 46532 76160 98020	8721 9236	23680	16423 28244	14617	383 3759				700	20	65462 144917 195873 231836	11766	30185	45225	42318 55589	15423 39259	7412 21102		
800	10 15 20 25	7661 44869 77047 99669	10514 12282	26693	13075 28510	9557	1253				800	20	65650 148876 204421 241903	15140 16575	35688 38450	49169 55997	39719 56892	9160	3021 12986		
900	10 15 20 25	6821 44111 76327	13149		9981	5903					900	20	65362 152927 211197 253367	19357 20450	40691	51798 60866	36501 56892	27671	755 7431		
000	10 15 20 25	5462 43017 76030	14610		6820	3092					1000	10 15 20 25	63062 156143 218745	22868	46568	53113	31558 56742	2036 21195			
100	10 15 20 25	4355 40607									1100	15	60798 159623 224345	27411	50692	54776	26235 54082	509 15307			
	10	3376 38364									1200		59716 160145 227677	30966	54300	53967		10597			
				4	SITE IN	DEX 50									s	ITE IN	DEX 70			19050	****
500	20	35956 88275 122019 145929	4902	14306 16156 16114		1962 29015 36827	10157 28957	491			500	20	97147 178936 231087 264658	5518	17674	34694 36320	48206 51229	47919 57498	24925 46869	14042	
600	15	35198 89988 127846 133765	773/ 789	21078	1 11594 8 31992 1 36336 4 38125	25425 39204	3759 21361	61			600	20	101397 190739 246715 286988	8933 9392	25239 26401	43519 46194	54286	45922 59504	12840 39058	5401	
700	1.5 20	33746 92356 133863 162723	1039	26520	0.46704	20953 38497	44444				700	20	102936 200133 261473 303384	12378	34434	51973 55726	58515 67348	40035 59839	29510	1097	
NOD		0.7.7.2.7	1379	3032	6 45343	15098 35672	8264		5		800	15 20	105202 208360 275053 319172	16673 17989	39439 42554	58511 63636	59845 71906	32381 57799	21169		
900	15	29739 94169 140868 173095	1661	3347	8 33913 8 47336	10168	4375				900	15	105674 214995 287068	20674	45911	63802	59402	25206	13230		
1000	1.5	27278 95698 143847	2032	9 3722	5 31981	6163					1000		106017 223188								
1100		23590 94480 145987	2301	7 3899		3489		i			1100		106151 228804								
1200	15	23144 94210 147436	2549	7 4022	5 2658						1200	10 15 20 25									

Table 6. Estimated merchantable green weight yield per acre, excluding bark, to a 4.0-inch top d.o.b., of trees 4.6 d.b.h. or larger, for old-field loblolly pine plantations.

-						RE (pou					*****				Toni I	ER ACI			-		
per	Age		1		-	1-inch						Age	- Carrie	-				diamet			
Acre	(yrs)	TOTAL	5		7		9	10	11	12	Acre	(31.0)	TOTAL	5	6	7	4	9	10	11	12
					ITE IN	0EX 40									5	ITE IN	EX 60				
500	10 15 20 25										500	20	57889 119327 159420 187019	4567	14928	28939 30490	36604 41531	339 29574 41466 47401	24500		
600	10 15 20 25	8604 41068 66283	5389	14527		4260 17492	1694				600	20	58691 124813 168998 197961	7065 7538	20909	37775	39220 46965	21840 40195 47972	14292	1862	
700	10 15 20 25	6780 40177 67281 87371	6905 7567	20804	14638 25316	1491 13245 23217					700		57489 130665 177729 210957	10148	26950 28093	45298	38544 50750	14105 35964			
800	10 15 20 25	5548 38480 67847 88587	8325	23456	11654 25584	8660	1143				800	20	57459 133964 185234 219847	13056	31863 34523	50822	36177 51939	8380 30675	2774		
900	10 15 20 25	4956 37686 66957	10551		8910						900	20	57028 137387 191129 230066	16743	36330 40011	46865 55241	33259 51939	4190 25353	694		
000	10 15 20 25	3888 36624 66518		18812	6089						1000		54799 140074 197772	19780	41622	48055	28755				
100	10 15 20 25	3055 34388									1100		52639 143040 202655	23772	45308	A9589	23905				
200		2340 32279									1200	15	51615 143298 205637	26855	48533	48856	19054				
																					_
non.	20	21000	3570			DEX 50					500	10	97344	LANG		THE DE					
500	20	31000 79142 110317 132413	A079 A188	1425	5 25220 4 27342	1767 26324 33500 37069	9264 26467	4506			300	15 20	87344 162957 211195 242258	4818 5302	15856 17236	31468	46851	8447 43897 52745 55952	43083		12
800		30075 80342 115274 139215	6744	1859	8 28765 3 32811	205 23068 35678 40534	3430 19525	363			600	20	90867 173402 225167 262419	7816 8286	22661 23802	39498 42038	49560 55584	2413 42076 54385 61575	35903		
760		28664 82195 120439 147073	8705 9670	23467	2, 38044	19021 35035	13016				700	20	91934 181676 238375 277129	10829	28681 31062	47193 30730	33437 61606	54901	27126	1010	
800	20	26100 83627 123313 151762	11620	2680	9 3149	13707	7555				800	20	93730 188885 250511 291249	14613	35438 38408	53127	94631 65775	29669 53029	19461		
900	15 20	24842 83338 126264 155941	13988	3 2959	4 3052	9231	4000				900	1.5	93906 194649 261230	18120	41253	57931	54246	23099			
1000	15	22614 84552 128734	17207	7 3296	4 2878	7. 5594					1000		94010 201894								
1100	15	21139 83267 130466	1948	2 3453	4 2608	2 3169					1100		93953 206778								
1200	15	18995 82880 131591	2158	2 3562	0 2395						1200	10 15 20 25									

Table 7. Estimated total ovendry bark-free weight yield per acre, of trees 4.6 d.b.h. or larger, for old-field loblolly pine plantations.

rees		******			hy 1	I-Inch	diamet	er cla	ssee		Trees					by 1	- Lnch	diamet	er clas		
Mre	(yrs)	TOTAL	5	-6-	7		9	10	-11	1.2	Acre	Age (YES)	TOTAL	5	6	1	4	9	10	11	12
	******	******					-		7		-				-	-		-	-		
				51	ITE IN	3EX 40										TE IN		144			
980	10 15 20 25										500	15	34637 61149 78221 89971	3361 3267	#700 #761	15022	19939	13948 19307 21882	11156	382 3326	
00		11018 28343 39883	6013	10276	9607	2247	828				600		36384 65280 84215	5200	12078		19164	10300 18681			
	25		-		2,3,730													22146		831	
100	10 15 20 25	9822 28831 41580 50647	7705	13353	14074	6759	170 1650				700	15	36996 69385 89670 103931	7530 7233	15435 15515	22806	16834 24303	6652 16714 21716			
00	10 15 20 25	8675 28763 42869 52437	6576 9289 9298	2099 12484 15055	6758 14097	2. 441	550				800	10 15 20	37833 72278 94497	10636 9432 9572	15710 18249 18947	10837 22977 25587	650 17677 24873		1262		
00	10 15 20	7663 28808 43410	6524 11102	1141 12599	5107						900	10 15 20	38322 75066 98530	12566 11884 11809	16995 20807 21959	8631 24206 27812	130 16198 24873	1971 11762	315		
00	10 15 20	6431 28562 43897	12336		3490						1000	10	37782 77388 102746	14324	17129 23647	6329 24821	14005	876	3086		
00	25 10 15	5296	5068 13345	228							1100	25 10 15	37139 79691	15868	16860	4411					
00	20 25		4165								1200	20	106040 36796	16708	27761	31470	23594				
00	10 15 20 25	26659							A Laboratoria		1200	15	80718 108486	18751	27573	25114	9280				
			111111	11211							-	-									
				51	TH IN	MX 50									-	ITE D	NDEX 7				
	15		3602 3291	5886 8508	13675	13291	4473 12546 15990				500			3221	875 916	1 1585	3 21076	4038 20401 24207 25517	19408	5751	
00.	15 20	22974 46922 61205 71521	5533	11593 11741	15599	11647 17556	1650 9255				600	20	50603 86097 108123 123949	5159	1243	1 1988	2616	1154 19320 23031 28049	5367 16174	2212	
06.	10 15 20 25		8346 7436 7262 7007	14423 14517	19854	17240	6170	847			700	15	52530 91316 115558 137065	7146 7393	1574	1 2367 4 2489	3 2552 9 1900	192 17018 1 25162 7 28665	2208 12220	149	
00	10 15 20 25	22034 47962 67666 80177	9765 9630 9257	10276 16494 17482	1995 16951 21381	5887 15974	3572	288			300	10 15 20	34570	10351 9530 9763	1864 1933 1 2023	1 1903 4 2663 1 2843	3 649 0 2610 3 3096	13764	631 8758		
00	10 15	21504 50869 70711 8335J	11270 11592 11607	9277 18208 19840	957 16431 22321	4638 14552	1891					10	55668 99997 128637	1259) 1181	2072	9 1826 7 2906	5 408 0 2591	5 10698			
00	10 15 20 25	20360 52210 72440	12098 13870	7943 20034	319 13495	2811					1000	10 15 20	56585 104444								
00	10 15 20 25	19379 52315 74179	15703	20988	14039	1585					1100	20	57300 107804				5 2402				
00	10 15	17981 52711 75549	17396	21648	12803 23974	364 8408					1200	16 15 20 21									

Table 8. Estimated ovendry bark-free weight yield per acre, to a 2.0-inch top d.o.b., of trees 4.6 d.b.h. or larger, for old-field loblolly pine plantations.

-						41.4	-			-	Tree	_	-			40	Laborat	24.		-	-
per	Age		-	-	39	1-1ach	diame	ter cl	annes.	-	per	Age		-	-	py	I-Tuch	diane	ter cl	ARRES	_
Acre	(yes)	TOTAL	5	6	7	8	9	10	11	12	Trees per Acre	(yrs)	TOTAL	5	6	7	4	9	10	11	12
				S	ITE IS	DEX 40									5	ITE IN	DEK 60				
500	10 15 20 25											15 20	34194 60687 77756 89503	3299	8596 8670	14901	19837	13887	2163	382	
600	10 15 20 25	10694 27864 39366	5849	10096	9691	2228						10 15 20	35879 64737 83663 96009	6080 5103 5025	12251 11936 12154	13281 18120 18956	4267 19053 22433	10255 18609	270 6488		
700	15 20	9518 28313 41007 50050	7495 7048	13154	8388	780 6709 11585	169					15 20	36441 68771 89041 103296	8106 7197 7116	14186 15259 15357	12267 20968 22648	1882 18724 24181	6623 16650			
100	15 20	8397 28216 42251 51784	9036	14831	6678 13955	230 4386 9492					800	15 20	37240 71600 93797 108723	9261 9421	18041	22797 25410	24746	3926	1258		
100	15	7420 28244 42751	10811	12385	5048	2709					900	20	37701 74328 97763 114579	11673 11624	20570	24016 27619	16106	1963	314		
990	10 13 20 25	6221 27988 43208	5685 12012 12443	536 12526 17480	3450 11866	1419					1000	15	37144 76597 101917	13791	23383	24626	13925	672 8975			
100		5120 27066		11883								15	36488 78855 105158	16312	25454	25295	11576				
100		4069 26088										15 20 1	36141 79842 107552	18427	27266	24921	9228				
	-			*	77 19	DEX: 50					-					***	- YO				
100	15 20	72940 43472 56859 66324	4486 3520 3224	8782 8761 8401	7833 13544 14227	939 13198	4449 12488	2075			500	10 15 20 25	46980 79250 99738	3545 3169 3267 3267		15116 15743 16169		4018 20323 24126 25438	10377 19359 22774	5739 12344	
100	10	22525 45497 60663 70973	6494 5410 5074	9939 11430 11597	5984 15450 17072	108	1642	259			600	10 15 20	50075	3595 5078 3103	12647 12313 12538	17781 19748 20565	12904 23615 26053	1148 19447 24968	3346 16133		
100	15 20	22397 47608 64431 75982	7272 7124	14339	16253 19691	9492 17135 20727	6142	844			700	15 20	51936 90689 114923 131426	7035 7291	15584 16290	23513 24750		16954 25080	12189		
ioo	15 20	21554 49325 66991 79483	9423 9080	17273	16793 21205	6840 13877 20556	3556					20 3	53871 95317 121741 139146	9383	19145	26469 28263	25979 30829	24225	8736		
100	15 20	21021 50187 69479 82597	11344	17959	16278 22137	14465					900	15	54972 99230 127853	11635	22286	26863	25707	10659			
190	15	19887 51491 71657	13581	19768	15350	3792	837					15 1	55850 103617		25641	31.251		7613			
100	15	18921 51567 73351	15376	20709	13908	1574						15 1	56532 106920	16622							
200	15	17545 51940 74682	17033	21361	12687							10 15 20 25									

Table 9. Estimated ovendry bark-free weight yield per acre, to a 3.0-inch top d.o.b., of trees 4.6 d.b.h. or larger, for old-field loblolly pine plantations.

-	-			- the								*****				-	-		-		-	
rees	346					by 1	-Luch	diame	ter c	lasses		Trees	Arr	TOTAL	-		by	-Inch	diame	ter cl		
lare	(yra)	TOTAL	3	6		2	8	9	10	11	12	Acre	(yrs)	TOTAL	5	6	1	B	9	10	11	12
					SITE	m	EX 40									5	ITE IN	DEX 60				
560	10 15 20 23											500		32322 38848 75983 67777	3027 2982	8160 8292	14418 14873	17436 19462		7139 11020	379 3301	
	15	9261 25796 37180	5176	931	4 9	206	2150	803				600	10 15 20 25	33734 62555 81529 93920	4683 4663	11346	18426	18633	18367	6428		
700	20	8163 26072 36572 47548	6565		2 7	320	6510	1610				700	15	86581	6622 6617	14524 14704	22030	16311 23735	6519 16434 21392	3061		
	15 20	7165 25844 39611 49034	7920 8116		2 13	366	4257					800		34705 68821 91028 105970	8520 8777	17172	24717	17187 24291	3866 14017	1247		
. 07	15	6336 25796 39929	9529		3. 4	805						900	20			19579 20837	23257 26866	15760 24791	1933	312		
000	15	5288 25497 40253	1,0566	1162	8 3	283						1000	15			22286	23847	13626				
100	16 15 20 25	4339 24564	4137 1145	1103	2 2	087						1100	15	33678 75396 101604	15077	24260	24516	11328				
200	10 10 10	3449. 23600	3400 37158	1018	0 1 1	281						1200	15	33310 76201 103772	17032	25987	24153	9029				
										-		-										
				3	TTE	INDE	X 50									S	ITE IN	DEX 70				
00	15 20	20271 41589 35003 64493	1160	7950	130	39 1	2831 6050	4360 12280 15678				500	15 20	45107 77485 98065 111277	2947 3066	8299 8749	15792	20582	20039	10284	5712	5
000	15	20574 43305 58468 68795	46.32	10991	164	67 1	7043	1610 9059 14033				600	20	47878 83417 105529 171422	4730 4793	11802	19709	23178	19200	14017	2197	
co	15	61920	6552	13590	156	109	6736	358 6039 11630				700	20	49453 88242 112550 179116	6554 6856	14937	22886 24185	28432	24819	12102	446	
100	15 20	19446 46638 64210 76670	8311	15314	161	98 3	5507	3499	284				15	91149 92561 119047 136308	8756 9068	18368	25764 27617	25511	1353V 23971	8675		
	15 20	18912 47296 66449 79517	10257	16905	213	152	14137	1852				900	15	52041 96183 124857	10636	21382	28094	25322	:10527	5422		
000	15	17813 48440 68399	12321	18642	14	161	2716						10 15 20 25	51747 100313	13227 13326	20814 24624	16509 30467	2197 24377	7519			
100		16914 48387 69901	13950	19530	13	374	1533							53284 103373								
200	15	15629 48647 71058	15454	2014	12																	

Table 10. Estimated ovendry bark-free weight yield per acre, to a 4.0-inch top d.o.b., of trees 4.6 d.b.h. or larger, for old-field loblolly pine plantations.

Trees										Trees		*******			by	1-inch	diane	ter cl	nases	
per	Age	TOTAL		-	-			-	 12) TOTAL	-	-						12
				5	ITE IND	EX 40	444							-	ITE TN	DEX 60				
300	16 15 20 25									500	16 15 20 25	27560 53975 71289 83206	2307	7084 7001 7291	18936 13135 13740	6801 16365 18468	13092 18297	10751	373 3253	
600	10 15 20 23	5455 20308 31381	3206	7241	189 7919 11401	1942	757			600	10 15 20 25	28039 56768 75878 88388	3569 3704	9780 10266	17024	3791 17319 20884 22250	17728	6272	813	
700	10 15 20 25	4568 20123 32112 40910	4109	10047	6855 11711 13988	5984	156 1526			700	10 15 20 25	27785 59677 80059 94436	5094 5293	12574	20393	1672 17217 22553 24775	15862	2986		
800	35 20	3888 19543 32665 41735	4953 5559	11327	5457 11806 14501					900	10 15 20 25	27973 61453 83685 98680	6554 7065	14867 15913	27880	575 16160 23061 26103	13529	1217		
900		3454 19291 32438	6119		6158 11083	2917				900	10 15 20 25	27947 63248 86591 103466	8355 8717	18447	21244	115 14844 23081 27178	1834			
000		2806 18881 32408	6799		2841 10039	1266				1000	10 15 20 25	27082 64686 89789			21763	12834 23013				
100		2264 17923	7353		Lanz					1100	10 15 20 25	26213 66211 92165	11797	21090						
390		1770	1741 7809		1109					1300	10 15 20 25		13327	22597	22117	8504	1781			
					RE IN	EX 10									STTE :	CADIDE .	0			
100	15 20	15574 36594 50086 59643	2278 2202 2165 2235	6822 6752	6288 11383 12447 12723	11860 15006	11.731	1985		500	15	40141 72815 93633 107029	2357 2539	7322	14792	19558 20746	19361 23191	18857	3640 12164	
HOQ -	15	15392 37466 52646 63014	3434 3453 3457 3521	9384	4849 13216 14937 15636	10393	3654	246		600	15	42057 77790 100132 210211	3808	10073	18814	11709 22024 24594 25860	18549 24000	35734	2169 7139	
100	25	14881 38615 35263 66819	4643 4920	11174	2999 13902 17294 18468	15679	5769			700	10 13 30 25	42866 81755 T06263 123000	9.176 9.702	13220	21.326 22687	8192 23732 27259 28981	16171 34131	12873	144	
900		13854 39307 36837 69215	6123 6271	14067	1595 18437 18624 20348	14578	3347				15	43930 85236 111913 129521	7093 7576	16307	23893		23309	8514		
900	20	13311 39627 58415 71351			766 13994 19443 22328					-900	15	44261 88105 116926	6795	10903	26056		10179			
000	15	12303 40343 39759	8978	13653	253 13197 19852	2517				1000	10 13 20 25	44512 91553								
100		31583 39945 60745	10163	14399		1524	197			1100		44663 93967								
200	15	10342 39911 61442	11260	16915	10959	777				1200	10 15 20 25									

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