

APPENDIX IV: CONVERSIONS FOR WOOD PRODUCTS

COMMON METRIC CONVERSION FACTORS FOR WOOD PRODUCTS			
Quantity	From Inch-Pound Units	To Metric Units	Multiply By
Length	ft	mm	304.8
	in	mm	25.4
General	mm	in	0.03937
	in	cm	2.54
	cm	in	0.3937
	ft	m	0.3048
	m	ft	3.28
	MBF, full sawn*	m ³	2.36
	m ³	MBF, full sawn*	0.424
	MSF, 3/8" basis	m ³	0.885
	m ³	MSF, 3/8" basis	1.13
	Acres	Hectares	0.4047
	Hectares	Acres	2.4711
	cubic ft	m ³	0.028
	m ³	cubic ft	35.3137
Mass	lb	kg	0.453592
	kip	metric ton	0.453592
	Short Tons (2,000lbs)	metric ton	0.907
	Long Tons (2,240 lbs)	metric ton	1.016
	metric ton (1000lb)	Short Tons (1000kg)	1.102
Mass density	pcf	kg/m ³	16.0185
Force	lb	N	4.44822
	kip	kN	4.44822
Force/unit length	plf	N/m	14.5939
	klf	kN/m	14.5939
Force/unit area	psf	N/m ²	47.88026
	ksf	kN/m ²	47.88026

STANDARD LUMBER LENGTHS (U.S.) CONVERSIONS			
Actual	Metric	Metric	Actual
6'	1.83m	2.0m	6.56'
8'	2.44m	2.5m	8.20'
10'	3.05m	3.0m	9.84'
12'	3.66m	3.5m	11.48'
14'	4.27m	4.0m	13.12'
16'	4.88m	4.5m	14.76'
18'	5.49m	5.0m	16.40'
20'	6.10m	5.5m	18.04'
22'	6.71m	6.0m	19.68'
24'	7.32m	6.5m	21.32'

General standards for southern forest products

Product	Relative Value	Minimum Tree Characteristics		
		DBH	Merchantable Height	Form
Pulpwood	Low	4"	16' to a 4" diameter	Relatively straight
Chip-n-saw	Intermediate	8"	16' to a 6" diameter	Straight, few large branches
Sawtimber	Intermediate	10"	16' to an 8" diameter	Straight, few large branches
Plylogs	Intermediate	12"	17' to an 8" diameter	Relatively straight, few large branches
Poles	High	10"	35' to a 7" diameter	Very straight, few branches, small branches

VOLUME PER PRODUCT UNIT FACTORS		
PRODUCT	UNITS	VALUE
Cord	ft ³ solid per cord	79.2
	Cord of pulpwood per ton pulp	1.5
Rail crosstie	Board feet per tie	40
	ft ³ per tie	3.5
	m ³ per tie	0.1
	board feet per tie	63
Rail bridge/switch tie	ft ³ per tie	5.25
	m ³ per tie	0.15
	Board feet lumber per pallet	17
Pallet	ft ² (3/8 basis) structural panel per pallet	0.86
	ft ² (3/8 basis) nonstructural panel per pallet	0.5
	Ton of wood pulp per ton of paper and paperboard	1.02
Pulp	Cord of pulpwood per ton of wood pulp	1.5