FORISK
CONSULTING

Forisk Standard Conversion Values and Product Specifications

Product Specifications

Pine Pulpwood:	6-8" DBH classes
Pine Chip-n-Saw:	10" DBH class (assume 50% of volume is pulpwood)
Pine Sawtimber:	12-24" DBH classes (assume 10% is culled to pulpwood)
Hardwood Pulpwood:	6-12" DBH classes
Hardwood Sawtimber:	14-24" DBH classes (assume 25% is culled to pulpwood)

Volume to Volume and Volume to Weight Conversions

Ft^3 per MBF	83	Standard conversion (lumber)
Ft^3 per m^3	35.315	
MBF per m^3	0.425	
m^3 per MBF	2.353	
msf panels (3/4 inch) per m^3	0.565	Source: Random Lengths
msf panels (3/8 inch) per m^3	1.13	Source: Random Lengths
Tons per scaled MBF (PNW)	4.8	Log Scale: Scribner Decimal C
Tons per m^3 – pine (South)	1.226	Source: USFS
Tons per m^3 – hardwood (South)	1.352	Source: USFS

Product Recovery Factors (tons of raw material needed per unit of output product)

Mill Type	Tons per MBF (South)	Tons per MBF (PNW)	Tons per m^3	Tons per MSF	Tons per Ton	Tons per MW	Tons per Gal
Chip mill					1.05		
Softwood lumber	(see below)	4.61	(see below)				
Hardwood lumber	7.17		4.22				
OSB/panel	3.54		2.08	1.83			
Plywood/veneer	5.62		3.31	1.95			
Pulp					3.59		
Newsprint					3.2		
Linerboard					5.3		
Fluff Pulp					3.6		
Wood Pellets					2.2		
Electricity						12,000	
Ethanol							0.025

Softwood Lumber Mill Product Recovery by Size (South)

Mill Size	Tons per MBF	Tons per m^3
<50	7.87	4.63
50-100	4.6	2.69
100+	4.31	2.51