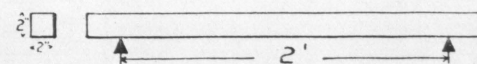


New South Wales Timbers Transverse Tests of 2-inch Beams.  
NORTH COAST TIMBERS. SOUTH COAST TIMBERS.

Local Name.	Number and Letter of corresponding 10-inch beam.	Number of Specimens Tested.	Moisture, per cent.	Average Values.					Breaking Load, lbs.
				Moisture, per cent.	Modulus of Elasticity, lbs. per Square Inch.	Modulus of Rupture, lbs. per Square Inch.	Moment of Resilience, inch lbs. per Cubic Inch.		
Blackbutt	1 F (1)	11	14.1 to 16.1	15.5	$2.62 \times 10^6$	19,400	3.55	4,160	
	1 F (1)	4	28.6 to 30.5	29.5	$2.24 \times 10^6$	13,500	1.23	2,990	
	1 F (3)	5	21.3 to 29.3	23.4	$2.21 \times 10^6$	14,000	2.56	3,070	
Tallow-wood	2 F (2)	12	15.2 to 16.5	16.1	$2.61 \times 10^6$	21,400	4.55	4,570	
	2 F (2)	4	34.1 to 42.8	39.4	$2.38 \times 10^6$	15,000	1.61	3,380	
	2 F (3)	7	21.6 to 27.8	23.3	$2.70 \times 10^6$	15,800	2.35	3,610	
Grey Gum	3 F (2)	7	16.4 to 17.4	17.2	$2.39 \times 10^6$	15,600	3.24	3,600	
	3 F (2)	2	34.2 to 39.1	36.6	$2.07 \times 10^6$	14,000	1.51	3,300	
	3 F (4)	5	22.6 to 29.4	23.6	$2.57 \times 10^6$	16,000	2.07	3,470	
Grey Ironbark	4 F (1)	4	25.3 to 27.8	26.1	$2.52 \times 10^6$	14,000	1.61	3,900	
	4 F (1)	11	15.0 to 17.1	16.2	$3.12 \times 10^6$	22,400	3.90	4,580	
	4 F (3)	11	18.3 to 25.3	20.6	$2.65 \times 10^6$	16,900	2.27	3,720	
Blue Gum	6 F (1)	2	26.1 to 26.5	26.3	$2.45 \times 10^6$	14,700	1.15	3,360	
	6 F (1)	8	13.7 to 16.5	15.2	$2.61 \times 10^6$	21,000	3.51	4,550	
	6 F (2)	3	15.7 to 15.8	15.7	$2.45 \times 10^6$	20,600	4.05	4,400	
	6 F (4)	8	18.1 to 25.2	21.9	$2.54 \times 10^6$	16,000	2.13	3,430	
Brush Box	7 F (2)	4	22.4 to 36.1	26.7	$2.24 \times 10^6$	15,500	1.75	2,700	
	7 F (2)	12	14.4 to 16.6	15.9	$2.14 \times 10^6$	19,000	3.36	3,940	
	7 F (3)	7	20.4 to 31.6	24.9	$2.12 \times 10^6$	15,400	1.96	3,290	
Turpentine	8 F (1)	1	26.3	26.3	$1.67 \times 10^6$	14,000	1.96	2,950	
	8 F (1)	7	15.1 to 16.6	15.8	$1.86 \times 10^6$	16,100	2.31	3,360	
	8 F (2)	3	22.8 to 25.4	24.3	$2.42 \times 10^6$	16,700	1.70	3,590	
	8 F (2)	5	14.4 to 16.7	15.6	$2.17 \times 10^6$	13,100	2.16	3,320	
	8 F (3)	12	18.1 to 23.9	20.2	$2.14 \times 10^6$	16,400	2.24	3,540	
Red Mahogany	9 F (1)	1	29.7	29.7	$2.24 \times 10^6$	15,700	1.61	3,650	
	9 F (1)	7	14.9 to 16.3	15.6	$2.62 \times 10^6$	20,300	3.88	4,300	
	9 F (2)	2	31.2 to 35.4	33.3	$2.24 \times 10^6$	15,400	1.59	3,500	
	9 F (2)	5	15.2 to 16.2	15.8	$2.40 \times 10^6$	19,500	3.38	4,260	
	9 F (4)	8	19.7 to 30.0	23.4	$2.48 \times 10^6$	15,200	2.06	3,310	
White Mahogany	10 F (1)	1	40.1	40.1	$2.14 \times 10^6$	11,600	1.02	2,710	
	10 F (1)	7	15.2 to 16.5	15.9	$2.68 \times 10^6$	19,500	3.50	3,840	
	10 F (3)	3	41.5 to 50.2	44.6	$2.51 \times 10^6$	13,300	1.66	2,970	
	10 F (3)	5	15.1 to 16.7	16.1	$2.48 \times 10^6$	18,000	2.53	3,730	
	10 F (3)	7	19.2 to 24.1	21.8	$2.15 \times 10^6$	13,300	1.95	2,820	
Colonial Teak	11 F (1)	1	19.3	19.3	$1.46 \times 10^6$	11,000	1.63	2,450	
	11 F (1)	5	12.4 to 13.5	13.0	$1.99 \times 10^6$	12,600	2.11	2,400	
	11 F (2)	2	23.9 to 24.7	24.3	$1.61 \times 10^6$	11,800	1.73	2,750	
	11 F (2)	5	12.8 to 14.0	13.4	$1.87 \times 10^6$	14,300	2.62	3,300	
	11 F (3)	8	15.0 to 30.4	19.1	$1.57 \times 10^6$	12,100	1.71	2,550	

Local Name.	Number and Letter of corresponding 10-inch beam.	Number of Specimens Tested.	Moisture, per cent.	Average Values.				
				Moisture, per cent.	Modulus of Elasticity, lbs. per Square Inch.	Modulus of Rupture, lbs. per Square Inch.	Moment of Resilience, inch lbs. per Cubic Inch.	Breaking Load, lbs.
Grey Box	12 F (1)	4	28.6 to 32.3	31.9	$2.94 \times 10^6$	15,600	1.69	3,840
	12 F (1)	12	15.6 to 18.5	16.0	$2.96 \times 10^6$	22,500	4.34	4,920
	12 F (4)	7	20.8 to 32.2	29.5	$2.66 \times 10^6$	17,600	2.86	3,800
Woollybutt	13 F (1)	1	40.1	40.1	$2.22 \times 10^6$	13,800	1.34	3,390
	13 F (1)	2	16.2 to 16.9	16.5	$2.86 \times 10^6$	20,400	5.12	4,400
	13 F (2)	3	46.2 to 48.5	47.5	$2.54 \times 10^6$	14,300	1.64	3,220
	13 F (2)	10	15.6 to 20.3	16.7	$2.61 \times 10^6$	19,700	3.46	4,040
	13 F (4)	11	20.0 to 27.3	24.5	$2.25 \times 10^6$	15,700	2.47	3,360
Spotted Gum	14 F (1)	11	15.9 to 22.6	17.6	$2.18 \times 10^6$	18,000	3.03	3,680
	14 F (2)	4	49.5 to 52.0	50.6	$1.85 \times 10^6$	11,600	1.33	2,680
	14 F (2)	1	17.1	17.1	$1.89 \times 10^6$	14,800	3.85	3,130
	14 F (3)	12	21.7 to 28.5	24.9	$1.87 \times 10^6$	11,900	0.93	2,600
	14 F (3)	4	35.0 to 45.2	38.9	$1.75 \times 10^6$	12,000	1.33	2,510
Turpentine	15 F (1)	4	33.0 to 45.0	40.7	$2.18 \times 10^6$	13,000	1.51	2,600
	15 F (1)	12	15.8 to 17.6	16.4	$2.07 \times 10^6$	17,900	3.47	3,390
	15 F (3)	5	19.2 to 25.4	22.2	$1.94 \times 10^6$	17,100	1.21	3,120
	15 F (3)	4	28.3 to 36.5	32.7	$1.99 \times 10^6$	13,100	1.49	2,800
Blackbutt	16 F (1)	2	36.4 to 45.0	40.7	$2.23 \times 10^6$	13,200	1.84	3,080
	16 F (1)	9	15.6 to 17.1	16.3	$2.39 \times 10^6$	18,400	2.68	3,860
	16 F (2)	2	32.9 to 35.9	34.4	$2.37 \times 10^6$	14,600	1.64	3,410
	16 F (2)	1	15.8	15.8	$2.65 \times 10^6$	16,060	4.11	3,960
	16 F (4)	4	19.2 to 26.7	22.8	$2.27 \times 10^6$	15,300	1.92	3,430
Mountain Ash	17 F (1)	3	31.7 to 35.7	33.2	$1.99 \times 10^6$	13,700	1.76	3,300
	17 F (1)	3	15.5 to 15.8	15.6	$2.55 \times 10^6$	22,600	3.19	4,510
	17 F (2)	1	35.1	35.1	$2.34 \times 10^6$	15,400	1.61	3,600
	17 F (2)	5	15.2 to 16.8	16.2	$2.75 \times 10^6$	22,900	3.38	4,780
	17 F (3)	2	19.3 to 20.0	19.6	$2.56 \times 10^6$	18,400	1.28	4,010
White Stringybark	18 F (1)	4	41.4 to 54.8	47.2	$2.12 \times 10^6$	13,200	1.49	3,400
	18 F (1)	7	15.8 to 22.2	16.9	$2.51 \times 10^6$	18,800	3.08	3,640
	18 F (2)	4	15.7 to 17.9	16.5	$2.43 \times 10^6$	18,100	2.90	3,740
	18 F (3)	3	19.5 to 21.4	20.4	$2.22 \times 10^6$	15,500	1.78	3,400
	18 F (3)	2	26.5 to 26.9	26.7	$1.13 \times 10^6$	14,600	1.43	3,140
	18 F (3)	2	32.9 to 34.4	33.6	$1.73 \times 10^6$	15,000	1.65	3,090

All beams tested thus:—



Approximate dimensions, 2ft. x 2in. x 2in.