FOR EQUATIONS SEE NATIONAL DESIGN STANDARD	SPAN FT	4x4	2x6	4x6	2x8	2x10	2x12
'`SPAN OF FLOOR JOIST'' EXAMPLE	6 (1)	+ 269.95	257 . 12	599 . 96	413.69	665.49	937.50
	(2)	739.36	497.93	1161.84	656.37	837.43	1018.50
	(3)			479.27			1757.81
	(4)			662.46			
Southern Yellow Pine Reference Design Values:	(5)	123.51	205.40	479.27	283.91	283.91	283.91
wood = No 1 Standard Southern Pine	8 (1)	l .		337.48			527.34
load duration factor (CD) = 1.6 for 10 minute loads	(2)	!	373.45	871.38			763.88
Possible Values: 1.6 for ten minutes	(3)	52.11	86.65		198.48		741.58
1.25 for seven days	(4)	1		496.85			212.93
0.9 for dead load	(5)	52.11	86.65	202.19	198.48	212.93	212.93
deflection limit = span/360		+					
design bearing length = 1.5 inches	10 (1)	97.18		215.98		239.57	337.50
	(2)	!	298.76	697.11	393.82	502.46	611.10
	(3)	26.68		103.52			379.69
	(4)	!		397.48			
TO GET ALLOWED WEIGHT PER SQUARE FOOT,	(5)	26.68	44.37	103.52	101.62	170.35	170.35
TAKE ALLOWED WEIGHT FOR ONE STRINGER PER FOOT,	10 (1)	+		1 40 00	100 40	166 00	
MULITPLY BY THE NUMBER OF STRINGERS,	12 (1)	67.49		149.99			234.38
AND DIVIDE BY THE LENGTH OF THE TREAD IN FEET.	(2)	!	248.97	580.92		418.72	
(1) ALLOWED WELCHE IN LDE PER DV MOMENT CADACTEV	(3)	15.44	25.68 141.96	59.91 331.23		122.14	
(1) ALLOWED WEIGHT IN LBF/FT BY MOMENT CAPACITY (2) ALLOWED WEIGHT IN LBF/FT BY SHEAR	(4) (5)	15.44		59.91		122.14	141.96
(3) ALLOWED WEIGHT IN LBF/FT BY DEFLECTION	(5)						141.90
(4) ALLOWED WEIGHT IN LBF/FT FOR 1.5 INCH BEARING	14 (1)	49.58	47.23	110.20	75 . 98	122.23	172.19
(5) MINIMUM OF ABOVE ALLOWED WEIGHTS IN LBF/FT	(2)			497.93			436.50
(3) MINIMON OF ADOVE ADDOWED WEIGHTS IN EDF/FI	(3)	9.72	16.17	37.73	37.03		138.37
	(4)	l .		283.91			121.68
Allowable weights (1) and (2) are proportional to CD.	(5)	9.72	16.17	37.73	37.03		121.68
Allowable weight (3) is proportional to		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
deflection limit.	16 (1)	37.96	36.16	84.37	58.17	93.58	131.84
Allowable weight (4) is proportional to	(2)		186.73	435.69			381.94
design bearing length.	(3)	6.51	10.83	25.27	24.81	51.53	92.70
	(4)	!		248.42			
	(5)	6.51		25.27		51.53	92.70
		+					

SPAN FT	4x4	2x6	4x6	2x8	2x10	2x12
18 (1) (2) (3) (4) (5)	29.99 246.45 4.57 220.82 4.57	165.98 7.61 94.64	66.66 387.28 17.75 220.82 17.75	45.97 218.79 17.42 94.64 17.42	73.94 279.14 36.19 94.64 36.19	104.17 339.50 65.10 94.64 65.10
20 (1)	24.30	149.38	54.00	37.23	59.89	84.38
(2)	221.81		348.55	196.91	251.23	305.55
(3)	3.33		12.94	12.70	26.38	47.46
(4)	198.74		198.74	85.17	85.17	85.17
(5)	3.33		12.94	12.70	26.38	47.46
22 (1)	20.08	19.12	44.62	30.77	49.50	69.73
(2)	201.64	135.80	316.87	179.01	228.39	277.77
(3)	2.51	4.17	9.72	9.54	19.82	35.66
(4)	180.67	77.43	180.67	77.43	77.43	77.43
(5)	2.51	4.17	9.72	9.54	19.82	35.66
24 (1)	16.87		37.50	25.86	41.59	58.59
(2)	184.84		290.46	164.09	209.36	254.62
(3)	1.93		7.49	7.35	15.27	27.47
(4)	165.62		165.62	70.98	70.98	70.98
(5)	1.93		7.49	7.35	15.27	27.47

- NOTES: (1) LRDF for pedestrian bridges requires 90 lbf / sqft, deflection limit = span/360
 - (2) For two stringer boardwalk sections with 3 ft treads, this is met by 2x6's for 6 ft span 2x8's for 8 ft span 2x10's for 10 ft span 2x12's for 12 ft span
 - (3) For 4 ft treads this is met by (2) if the bearing length is increased by 1 inch for 2x10's and 2x12's