SPAN FT	4 x 4	x4 2x6	4x6	2x8	2x10	2x12
6 (1) (2) (3) (4)	739.36 123.51	497.93 205.40	1161.84 479.27	656.37 470.47	837.43 977.10	1018.50 1757.81
(5)						
8 (1) (2) (3) (4) (5)	554.52 52.11 496.85	373.45 86.65 212.93	871.38 202.19 496.85	492.28 198.48 212.93	628.08 412.22 212.93	527.34 763.88 741.58 212.93 212.93
10 (1) (2) (3) (4) (5)	26.68 397.48	298.76 44.37 170.35	697.11 103.52 397.48	393.82 101.62 170.35	502.46 211.05 170.35	
12 (1) (2) (3) (4) (5)	369.68 15.44 331.23 15.44	248.97 25.68 141.96 25.68	580.92 59.91 331.23 59.91	328.18 58.81 141.96 58.81	418.72 122.14 141.96 122.14	141.96
14 (1) (2) (3) (4) (5)	49.58 316.87 9.72	47.23 213.40 16.17	110.20 497.93 37.73	75.98 281.30 37.03	122.23 358.90 76.91 121.68	172.19 436.50 138.37
16 (1) (2) (3) (4) (5)	6.51 248.42	10.83 106.47	435.69 25.27 248.42	246.14 24.81 106.47	314.04 51.53	131.84 381.94 92.70 106.47 92.70
	6 (1) (2) (3) (4) (5) 8 (1) (2) (3) (4) (5) 10 (1) (2) (3) (4) (5) 12 (1) (2) (3) (4) (5) 14 (1) (2) (3) (4) (5) 16 (1) (2) (3) (4)	6 (1) 269.95 (2) 739.36 (3) 123.51 (4) 662.46 (5) 123.51 8 (1) 151.85 (2) 554.52 (3) 52.11 (4) 496.85 (5) 52.11 10 (1) 97.18 (2) 443.61 (3) 26.68 (4) 397.48 (5) 26.68 (4) 397.48 (5) 26.68 (4) 397.48 (5) 26.68 (4) 397.48 (5) 26.68 (1) 37.44 (2) 369.68 (3) 15.44 (4) 331.23 (5) 15.44 (4) 331.23 (5) 15.44 (1) 49.58 (2) 316.87 (3) 9.72 (4) 283.91 (5) 9.72 16 (1) 37.96 (2) 277.26 (3) 6.51 (4) 248.42	6 (1) 269.95 257.12 (2) 739.36 497.93 (3) 123.51 205.40 (4) 662.46 283.91 (5) 123.51 205.40 (4) 662.46 283.91 (5) 123.51 205.40 (4) 496.85 212.93 (5) 52.11 86.65 (4) 496.85 212.93 (5) 52.11 86.65 (4) 496.85 212.93 (5) 52.11 86.65 (2) 443.61 298.76 (3) 26.68 44.37 (4) 397.48 170.35 (5) 26.68 44.37 (4) 397.48 170.35 (5) 26.68 44.37 (4) 331.23 141.96 (5) 15.44 25.68 (4) 331.23 141.96 (5) 15.44 25.68 (4) 331.23 141.96 (5) 15.44 25.68 (4) 283.91 121.68 (5) 9.72 16.17 (4) 283.91 121.68 (5) 9.72 16.17 (6) 277.26 186.73 (3) 6.51 10.83 (4) 248.42 106.47	6 (1) 269.95 257.12 599.96 (2) 739.36 497.93 1161.84 (3) 123.51 205.40 479.27 (4) 662.46 283.91 662.46 (5) 123.51 205.40 479.27 (4) 652.45 205.40 479.27 (4) 254.52 373.45 871.38 (3) 52.11 86.65 202.19 (4) 496.85 212.93 496.85 (5) 52.11 86.65 202.19 (4) 496.85 212.93 496.85 (5) 52.11 86.65 202.19 (1) 43.61 298.76 697.11 (3) 26.68 44.37 103.52 (4) 397.48 170.35 397.48 (5) 26.68 44.37 103.52 (1) 369.68 248.97 580.92 (3) 15.44 25.68 59.91 (4) 331.23 141.96 331.23 (5) 15.44 25.68 59.91 (4) 331.23 141.96 331.23 (5) 15.44 25.68 59.91 (4) 283.91 21.68 283.91 (5) 9.72 16.17 37.73 (4) 283.91 121.68 283.91 (5) 9.72 16.17 37.73 (4) 283.91 121.68 283.91 (5) 9.72 16.17 37.73 (4) 283.91 121.68 283.91 (5) 9.72 16.17 37.73 (4) 283.91 121.68 283.91 (5) 9.72 16.17 37.73 (4) 283.91 121.68 283.91 (5) 9.72 16.17 37.73 (4) 283.91 121.68 283.91 (5) 9.72 16.17 37.73 (4) 283.91 121.68 283.91 (5) 9.72 16.17 37.73 (4) 283.91 121.68 283.91 (5) 9.72 16.17 37.73 (4) 283.91 121.68 283.91 (5) 9.72 16.17 37.73 (4) 283.91 121.68 283.91 (5) 9.72 16.17 37.73 (4) 283.91 121.68 283.91 (5) 9.72 16.17 37.73 (4) 283.91 121.68 283.91 (5) 9.72 16.17 37.73 (4) 283.91 121.68 283.91 (5) 9.72 16.17 37.73 (4) 283.91 121.68 283.91 (5) 9.72 16.17 37.73 (4) 283.91 121.68 283.91 (5) 9.72 16.17 37.73 (4) 283.91 121.68 283.91 (5) 9.72 16.17 37.73 (4) 283.91 121.68 283.91 (5) 9.72 16.17 37.73	6 (1) 269.95 257.12 599.96 413.69 (2) 739.36 497.93 1161.84 656.37 (3) 123.51 205.40 479.27 470.47 (4) 662.46 283.91 662.46 283.91 (5) 123.51 205.40 479.27 283.91 (5) 123.51 205.40 479.27 283.91 (2) 554.52 373.45 871.38 492.28 (3) 52.11 86.65 202.19 198.48 (4) 496.85 212.93 496.85 212.93 (5) 52.11 86.65 202.19 198.48 (4) 496.85 212.93 496.85 212.93 (5) 52.11 86.65 202.19 198.48 (1) 43.61 298.76 697.11 393.82 (3) 26.68 44.37 103.52 101.62 (4) 397.48 170.35 397.48 170.35 (5) 26.68 44.37 103.52 101.62 (4) 397.48 170.35 397.48 170.35 (5) 26.68 44.37 103.52 101.62 (4) 31.23 141.96 31.23 141.96 (5) 15.44 25.68 59.91 58.81 (4) 331.23 141.96 331.23 141.96 (5) 15.44 25.68 59.91 58.81 (4) 331.23 141.96 331.23 141.96 (5) 15.44 25.68 59.91 58.81 (4) 248.42 106.47 248.42 106	6 (1) 269.95 257.12 599.96 413.69 665.49 (2) 739.36 497.93 1161.84 656.37 837.43 (3) 123.51 205.40 479.27 470.47 977.10 (4) 662.46 283.91 662.46 283.91 283.91 283.91 (5) 123.51 205.40 479.27 283.91 283.91 283.91 (5) 123.51 205.40 479.27 283.91 283.91 283.91 (2) 554.52 373.45 871.38 492.28 628.08 (3) 52.11 86.65 202.19 198.48 412.29 (4) 496.85 212.93 496.85 212.93 212.93 (5) 52.11 86.65 202.19 198.48 212.93 (5) 52.11 86.65 202.19 198.48 212.93 (6) 243.61 298.76 697.11 393.82 502.46 (3) 26.68 44.37 103.52 101.62 211.05 (4) 397.48 170.35 397.48 170.35 170.35 (5) 26.68 44.37 103.52 101.62 211.05 (4) 397.48 170.35 397.48 170.35 170.35 (5) 26.68 44.37 103.52 101.62 170.35 (7) (1) (1) (1) (1) (2) (3) (4) (5) (4)

2x12	2x10	2x8	4x6	2x6	4×4	SPAN FT
104.17	73.94		66.66		29.99	18 (1)
339.50	279.14	218.79		165.98	246.45	(2)
65.10	36.19 94.64	17.42	17.75 220.82		4.57	(3)
94.64	36.19		17.75			(4)
65.10		17.42 		7.61 	4.57 	(5)
84.38	59.89	37.23	54.00	23.14	24.30	20 (1)
305.55	251.23	196.91	348.55	149.38	221.81	(2)
47.46	26.38	12.70	12.94	5.55	3.33	(3)
85.17	85.17	85.17	198.74	85.17	198.74	(4)
47.46	26.38	12.70	12.94	5.55	3.33	(5)
69.73	49.50	30.77	44.62	19.12	20.08	22 (1)
277.77	228.39	179.01	316.87	135.80	201.64	(2)
35.66	19.82	9.54	9.72	4.17	2.51	(3)
77.43	77.43	77.43	180.67	77.43	180.67	(4)
35.66	19.82	9.54	9.72	4.17	2.51	(5)
58.59	41.59	 25.86	 37 . 50	16.07	16.87	24 (1)
254.62	209.36	164.09	290.46	124.48	184.84	(2)
27.47	15.27	7.35	7.49	3.21	1.93	(3)
70.98	70.98	70.98		70.98	165.62	(4)
27.47	15.27	7.35	7.49		1.93	(5)

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 the spans just given if the design bearing length is increased to 2.5 inchs for 2x10's and 2x12's
- (4) If you double the number of stringers (to 4) you can increase the span by a factor of the cube root of 2 = 1.26.
- (5) If you triple the number of stringers (to 6) you can increase the span by a factor of the cube root of 3 = 1.44.