

# Lumber Span Tables (Spruce-Pine-Fir South)

**Table 1** Floor Joists - 40 psf Live Load, 10 psf Dead Load, 360 Deflection

		Span (feet and inches)											
		2x6			2x8			2x10			2x12		
		12" oc	16" oc	24" oc	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc
Species	Grade												
SPF(s)	No.1	9-9	8-10	7-8	12-10	11-8	10-2	16-5	14-11	12-5	19-11	17-7	14-4
	No.2	9-6	8-7	7-6	12-6	11-4	9-6	15-11	14-3	11-8	19-1	16-6	13-6
	No.3	8-0	6-11	5-8	10-2	8-9	7-2	12-5	10-9	8-9	14-4	12-5	10-2

Note: Deflection is limited to the span in inches divided by 360 for live load only. Maximum spans are inside to inside of bearings

**Table 2** Floor Joists - 30 psf Live Load, 10 psf Dead Load, 360 Deflection

		Span (feet and inches)											
		2x6			2x8			2x10			2x12		
		12" oc	16" oc	24" oc	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc
Species	Grade												
SPF(s)	No.1	10-9	9-9	8-6	14-2	12-10	11-3	18-0	16-5	13-10	21-11	19-8	16-1
	No.2	10-5	9-6	8-3	13-9	12-6	10-8	17-6	15-11	13-0	21-4	18-6	15-1
	No.3	8-11	7-9	6-4	11-4	9-10	8-0	13-10	12-0	9-9	16-1	13-11	11-4

Note: Deflection is limited to the span in inches divided by 360 for live load only. Maximum spans are inside to inside of bearings

**Table 3** Ceiling Joists - 20 psf Live Load, 10 psf Dead Load, 240 Deflection (*Limited Attic Storage*)

		Span (feet and inches)											
		2x6			2x8			2x10			2x12		
		12" oc	16" oc	24" oc	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc	12" oc	16" oc	24" oc
Species	Grade												
SPF(s)	No.1	14-1	12-8	10-4	18-6	16-0	13-1	22-7	19-7	16-0	26-3	22-8	18-6
	No.2	13-8	11-11	9-8	17-5	15-1	12-4	21-3	18-5	15-0	24-8	21-4	17-5
	No.3	10-4	8-11	7-4	13-1	11-4	9-3	16-0	13-10	11-4	18-6	16-1	13-1

Note: Deflection is limited to the span in inches divided by 240 for live load only. Maximum spans are inside to inside of bearings