

**Table 2. Maximum Joist Spans and Overhangs.<sup>1</sup>**

Species	Size	Joist Spacing (o.c.)					
		12"	16"	24"	12"	16"	24"
		Allowable Span <sup>2</sup> (L <sub>j</sub> )			Allowable Overhang <sup>3</sup> (L <sub>o</sub> )		
Southern Pine	2x6 <sup>6</sup>	9' - 11"	9' - 0"	7' - 7"	1' - 0"	1' - 1"	1' - 3"
	2x8	13' - 1"	11' - 10"	9' - 8"	1' - 10"	2' - 0"	2' - 4"
	2x10	16' - 2"	14' - 0"	11' - 5"	3' - 1"	3' - 5"	2' - 10"
	2x12	18' - 0" <sup>7</sup>	16' - 6"	13' - 6"	4' - 6"	4' - 2"	3' - 4"
Douglas Fir-Larch, Hem-Fir, Spruce-Pine-Fir <sup>4</sup>	2x6 <sup>6</sup>	9' - 6"	8' - 4"	6' - 10"	0' - 11"	1' - 0"	1' - 2"
	2x8	12' - 6"	11' - 1"	9' - 1"	1' - 8"	1' - 10"	2' - 2"
	2x10	15' - 8"	13' - 7"	11' - 1"	2' - 10"	3' - 2"	2' - 9"
	2x12	18' - 0" <sup>7</sup>	15' - 9"	12' - 10"	4' - 4"	3' - 11"	3' - 3"
Redwood, Western Cedars, Ponderosa Pine <sup>5</sup> , Red Pine <sup>5</sup>	2x6 <sup>6</sup>	8' - 10"	8' - 0"	6' - 10"	0' - 9"	0' - 10"	0' - 11"
	2x8	11' - 8"	10' - 7"	8' - 8"	1' - 5"	1' - 7"	1' - 9"
	2x10	14' - 11"	13' - 0"	10' - 7"	2' - 5"	2' - 7"	2' - 8"
	2x12	17' - 5"	15' - 1"	12' - 4"	3' - 7"	3' - 9"	3' - 1"

1. Assumes 40 psf live load, 10 psf dead load, No. 2 grade, and wet service conditions.

2. Assumes L/360 deflection.

3. Maximum allowable overhang cannot exceed L/4 or ¼ of actual main span. Assumes cantilever length/180 deflection with 220 lb point load (See Figure 1A and Figure 2).

4. Incising assumed for Douglas Fir-Larch, Hem-Fir, and Spruce-Pine-Fir.

5. Design values based on northern species with no incising assumed.

6. Ledger shall be a minimum of 2x8 nominal. Joists and rim joists to which guard posts are attached shall be a minimum of 2x8 nominal.

7. Joist length prescriptively limited to 18'-0" for footing design.