

TABLE NO. 2

JOIST LENGTH

| POST SPACING | | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' |
|--------------|------------|-----------------|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------------------------|------------------|----------------------------|-----------------------|
| 4' | JOIST SIZE | 2x6 24" oc | 2x6 16" oc 2x8 24" oc | 2x6 16" oc 2x8 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 12" oc 2x10 16" oc | 2x10 16" oc 2x12 24" oc | 2x10 16" oc | 2x10 12" oc 2x12 16" oc | 2x12 16" oc |
| | BEAM SIZE | 1-2x6 | 1-2x6 1-2x8 | 1-2x6 1-2x8 | 1-2x8 1-2x10 | 1-2x8 1-2x10 | 1-2x8 1-2x10 | 1-2x8 1-2x10 | 1-2x10 1-2x12 | 1-2x10 | 1-2x10 1-2x12 | 1-2x12 |
| 5' | JOIST SIZE | 2x6 24" oc | 2x6 16" oc 2x8 24" oc | 2x6 16" oc 2x8 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 12" oc 2x10 16" oc | 2x10 16" oc 2x12 24" oc | 2x10 16" oc | 2x10 12" oc 2x12 16" oc | 2x12 16" oc |
| | BEAM SIZE | 1-2x6 | 2-2x6 1-2x8 | 2-2x6 1-2x8 | 1-2x8 1-2x10 | 1-2x8 1-2x10 | 1-2x8 1-2x10 | 1-2x8 1-2x10 | 1-2x10 1-2x12 | 1-2x10 | 1-2x10 1-2x12 | 1-2x12 |
| 6' | JOIST SIZE | 2x6 24" oc | 2x6 16" oc 2x8 24" oc | 2x6 16" oc 2x8 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 12" oc 2x10 16" oc | 2x10 16" oc 2x12 24" oc | 2x10 16" oc | 2x10 12" oc 2x12 16" oc | 2x12 16" oc |
| | BEAM SIZE | 2-2x6 | 2-2x6 1-2x8 | 2-2x6 2-2x8 | 2-2x8 1-2x10 | 2-2x8 1-2x10 | 2-2x8 1-2x10 | 2-2x8 1-2x10 | 2-2x10 1-2x12 | 2-2x10 1-2x12 | 2-2x10 1-2x12 | 2-2x10 1-2x12 |
| 7' | JOIST SIZE | 2x6 24" oc | 2x6 16" oc 2x8 24" oc | 2x6 16" oc 2x8 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 12" oc 2x10 16" oc | 2x10 16" oc 2x12 24" oc | 2x10 16" oc | 2x10 12" oc 2x12 16" oc | 2x12 16" oc |
| | BEAM SIZE | 2-2x6 | 3-2x6 2-2x8 | 3-2x6 2-2x8 | 2-2x8 2-2x10 | 2-2x8 2-2x10 | 2-2x8 2-2x10 | 3-2x8 2-2x10 | 2-2x10 1-2x12 | 2-2x10 2-2x12 | 2-2x10 2-2x12 | 2-2x10 2-2x12 |
| 8' | JOIST SIZE | 2x6 24" oc | 2x6 16" oc 2x8 24" oc | 2x6 16" oc 2x8 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 12" oc 2x10 16" oc | 2x10 16" oc 2x12 24" oc | 2x10 16" oc | 2x10 12" oc 2x12 16" oc | 2x12 16" oc |
| | BEAM SIZE | 3-2x6 2-2x8 | 3-2x6 2-2x8 | 3-2x6 2-2x8 | 3-2x8 2-2x10 | 3-2x8 2-2x10 | 3-2x8 2-2x10 | 3-2x8 2-2x10 | 2-2x10 2-2x12 | 3-2x10 2-2x12 | 3-2x10 2-2x12 | 3-2x10 2-2x12 |
| 9' | JOIST SIZE | 2x6 24" oc | 2x6 16" oc 2x8 24" oc | 2x6 16" oc 2x8 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 12" oc 2x10 16" oc | 2x10 16" oc 2x12 24" oc | 2x10 16" oc | 2x10 12" oc 2x12 16" oc | 2x12 16" oc |
| | BEAM SIZE | 3-2x6 2-2x8 | 4-2x6 3-2x8 | 4-2x6 3-2x8 | 3-2x8 2-2x10 | 3-2x8 2-2x10 | 3-2x8 2-2x10 | 4-2x8 3-2x10 | 3-2x10 2-2x12 | 3-2x10 2-2x12 | 3-2x10 2-2x12 | 3-2x10 2-2x12 |
| 10' | JOIST SIZE | 2x6 24" oc | 2x6 16" oc 2x8 24" oc | 2x6 16" oc 2x8 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 12" oc 2x10 16" oc | 2x10 16" oc 2x12 24" oc | 2x10 16" oc | 2x10 12" oc 2x12 16" oc | 2x12 16" oc |
| | BEAM SIZE | 4-2x6 3-2x8 | 3-2x8 2-2x10 | 3-2x8 2-2x10 | 3-2x8 3-2x10 | 4-2x8 3-2x10 | 4-2x8 3-2x10 | 4-2x8 3-2x10 | 3-2x10 2-2x12 | 3-2x10 3-2x12 | 4-2x10 3-2x12 | 4-2x10 3-2x12 |
| 11' | JOIST SIZE | 2x6 24" oc | 2x6 16" oc 2x8 24" oc | 2x6 16" oc 2x8 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 12" oc 2x10 16" oc | 2x10 16" oc 2x12 24" oc | 2x10 16" oc | 2x10 12" oc 2x12 16" oc | 2x12 16" oc |
| | BEAM SIZE | 3-2x8 2-2x10 | 3-2x8 2-2x10 | 4-2x8 3-2x10 | 4-2x8 3-2x10 | 3-2x10 2-2x12 | 3-2x10 3-2x12 | 3-2x10 3-2x12 | 4-2x10 3-2x12 | 4-2x10 3-2x12 | 4-2x10 3-2x12 | 4-2x10 3-2x12 |
| 12' | JOIST SIZE | 2x6 24" oc | 2x6 16" oc 2x8 24" oc | 2x6 16" oc 2x8 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 12" oc 2x10 16" oc | 2x10 16" oc 2x12 24" oc | 2x10 16" oc | 2x10 12" oc 2x12 16" oc | 2x12 16" oc |
| | BEAM SIZE | 3-2x8 2-2x10 | 4-2x8 3-2x10 | 4-2x8 3-2x10 | 3-2x10 2-2x12 | 3-2x10 3-2x12 | 4-2x10 3-2x12 | 4-2x10 3-2x12 | 4-2x10 3-2x12 | 3-2x12 | 3-2x12 | 3-2x12 |
| 13' | JOIST SIZE | 2x6 24" oc | 2x6 16" oc 2x8 24" oc | 2x6 16" oc 2x8 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 12" oc 2x10 16" oc | 2x10 16" oc 2x12 24" oc | 2x10 16" oc | 2x10 12" oc 2x12 16" oc | 2x12 16" oc |
| | BEAM SIZE | 3-2x8 3-2x10 | 4-2x8 3-2x10 | 3-2x10 3-2x12 | 4-2x10 3-2x12 | 4-2x10 3-2x12 | 4-2x10 3-2x12 | 3-2x10 | 3-2x12 | 4-2x12 | 4-2x12 | 4-2x12 |
| 14' | JOIST SIZE | 2x6 24" oc | 2x6 16" oc 2x8 24" oc | 2x6 16" oc 2x8 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 16" oc 2x10 24" oc | 2x8 12" oc 2x10 16" oc | 2x10 16" oc 2x12 24" oc | 2x10 16" oc | 2x10 12" oc 2x12 16" oc | 2x12 16" oc |
| | BEAM SIZE | 4-2x8 3-2x10 | 3-2x10 3-2x12 | 4-2x10 3-2x12 | 4-2x10 3-2x12 | 4-2x10 3-2x12 | 3-2x12 | 4-2x12 | 4-2x12 | 4-2x12 | Eng. Beam Required | Eng. Beam Required |

This table is based on the use of Ponderosa Pine No. 2 or better (treated for weather and/or ground exposure).

BEAM SIZE _____

BEAM SPAN _____

JOIST SIZE _____ O.C.

JOIST SPAN _____

POST SIZE _____

POST DEPTH _____

TYPE OF LUMBER _____

DETACHED _____ ATTACHED _____

