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The bridge built by Palmer, over the Piscataqua, near Portsmouth, New Hampshire, in 1744, is the segment of a circle 800 feet in diameter. Its chord line measures 250 feet, its versed sine 27 feet 4 inches, and the height of the timber frame work of the arch 18 feet 15 inches. It is put together with wooden keys. The same ingenious mechanic erected 30 other wooden bridges, one over the Merrimack at Deer Island, near Newburyport, of 160 feet diameter, finished in 1752, and the other over the Schuylerville at Philadelphia, of 194 foot chord, and 12 feet versed sine, being the segment of a circle 796 feet in diameter. This was finished in 1803.