

Each set of lateral braces requires,	
12 rods, $\frac{3}{4}$ inch in diameter, $9\frac{1}{2}$ feet long	602 cubic in
3 rings, 8 inches in diameter, $2 \times \frac{3}{4}$	108 "
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	710 "
Weight =	178 pounds.

Wood for the whole Bridge.

44 floor beams of yellow pine, 6×12 , 17 feet long	B. M.	4,488
Floor plank	do.	2 inches
		" 4,356
do. oak,		$1\frac{1}{2}$ inches
		" 3,267
64 lineal feet of timber under rails, 10×10		" 533
8 cross beams for lateral braces, 5×6 , 16 feet		
long		" 860
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		13,504

The weight of which at 3 pounds per foot B. M. = 40,512 lbs.

Recapitulation of Bill of Materials.

Cast-iron in 5 trusses, 1237 pounds each	6,185 lbs.
Malleable iron in 5 trusses, 1386 pounds each,	6,930
Bolts for railroad track	106
do. for 2 sets of lateral braces, 178 pounds	
each	356
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	7,392 lbs.
Weight of wood	40,512 "
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Total weight =	54,089 "

Estimate of cost.

6185 pounds cast-iron @ $2\frac{1}{4}$ cents	\$139 16
7392 " malleable iron @ $3\frac{1}{4}$ cents	240 24
13504 feet B. M. timber and plank, average \$15	
per M.	203 56
Workmanship, 22 lineal feet @ \$13 per foot	416 00
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Total cost	\$997 96