

USEFUL INFORMATION.

Cross Ties per Mile of Single Track.

From Center to Center, 18 inches.....	3,520 Ties
From Center to Center, 24 inches.....	2,641 Ties
From Center to Center, 27 inches.....	2,348 Ties
From Center to Center, 30 inches.....	2,113 Ties
From Center to Center, 33 inches.....	1,921 Ties
From Center to Center, 36 inches.....	1,761 Ties

Average Number of Track Bolts in a Keg of 200 Pounds.

$\frac{7}{8}$ x $3\frac{1}{2}$ with Hexagon Nuts.....	170 Bolts
$\frac{3}{4}$ x $3\frac{1}{2}$ with Square Nuts.....	210 Bolts
$\frac{3}{4}$ x $3\frac{3}{4}$ with Hexagon Nuts.....	220 Bolts
$\frac{5}{8}$ x $2\frac{1}{2}$ with Square Nuts.....	370 Bolts
$\frac{1}{2}$ x $2\frac{1}{2}$ with Square Nuts.....	650 Bolts
$\frac{1}{2}$ x 3 with Square Nuts.....	600 Bolts

Weights of Flat Iron.

Per lineal foot in pounds

Width by Inches	Thickness in Inches											
	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
1	.21	.42	.63	.84	1.05	1.26	1.47	1.68	2.11	2.53	-----	-----
$1\frac{1}{4}$	.24	.47	.71	.95	1.18	1.42	1.66	1.90	2.37	2.84		
$1\frac{1}{2}$	.26	.53	.79	1.05	1.32	1.58	1.84	2.11	2.63	3.16	3.68	4.21
$1\frac{3}{4}$	.29	.58	.87	1.16	1.45	1.74	2.03	2.32	2.89	3.47	4.05	4.63
$1\frac{1}{2}$	.32	.63	.95	1.26	1.58	1.90	2.21	2.53	3.16	3.79	4.42	5.05
$1\frac{3}{4}$	.34	.68	1.03	1.37	1.71	2.05	2.39	2.74	3.42	4.11	4.79	5.47
$1\frac{1}{2}$	.37	.74	1.11	1.47	1.84	2.21	2.58	2.95	3.68	4.42	5.16	5.89
2	.42	.84	1.26	1.68	2.11	2.53	2.95	3.37	4.21	5.05	5.89	6.74
$2\frac{1}{4}$	.47	.95	1.42	1.90	2.37	2.84	3.32	3.79	4.74	5.68	6.63	7.58
$2\frac{1}{2}$	.53	1.05	1.58	2.11	2.63	3.16	3.68	4.21	5.26	6.32	7.37	8.42
$2\frac{3}{4}$	.58	1.16	1.74	2.32	2.89	3.47	4.05	4.63	5.79	6.95	8.10	9.26
3	.63	1.26	1.90	2.53	3.16	3.79	4.42	5.05	6.32	7.58	8.84	10.10
$3\frac{1}{4}$	.68	1.37	2.05	2.74	3.42	4.11	4.79	5.47	6.84	8.21	9.58	10.95
$3\frac{1}{2}$	.74	1.47	2.21	2.95	3.68	4.42	5.16	5.89	7.37	8.84	10.32	11.79
$3\frac{3}{4}$	.79	1.58	2.37	3.16	3.95	4.74	5.53	6.32	7.89	9.47	11.05	12.63
4	.84	1.68	2.53	3.37	4.21	5.05	5.89	6.74	8.42	10.10	11.79	13.47
$4\frac{1}{4}$	.95	1.90	2.84	3.79	4.74	5.68	6.63	7.58	9.47	11.38	13.26	15.16
5	1.05	2.11	3.16	4.21	5.26	6.32	7.37	8.42	10.53	12.63	14.74	16.84
$5\frac{1}{4}$	1.16	2.32	3.47	4.63	5.79	6.95	8.10	9.26	11.58	13.89	16.21	18.52
6	1.26	2.53	3.79	5.05	6.32	7.58	8.84	10.10	12.63	15.16	17.68	20.20
7	1.47	2.94	4.42	5.90	7.36	8.84	10.32	11.79	14.74	17.68	20.64	23.58
8	1.68	3.36	5.05	6.74	8.42	10.10	11.78	13.48	16.84	20.20	23.58	26.94

Weights of Round and Square Iron.

Per lineal foot

Size in Inches	Weight in Lbs.	Weight in Lbs.	Size in Inches	Weight in Lbs.	Weight in Lbs.
$\frac{3}{16}$	.0930	.1184	$2\frac{1}{8}$	11.95	15.21
$\frac{1}{4}$	.1653	.2105	$2\frac{1}{4}$	13.39	17.05
$\frac{5}{16}$	.2583	.3290	$2\frac{3}{8}$	14.92	19.00
$\frac{3}{8}$	.3720	.4736	$2\frac{1}{2}$	16.53	21.05
$\frac{7}{16}$	.5063	.6446	$2\frac{5}{8}$	18.23	23.21
$\frac{1}{2}$	.6613	.8420	$2\frac{3}{4}$	20.01	25.47
$\frac{9}{16}$	.8370	1.066	3	23.81	30.31
$\frac{5}{8}$	1.033	1.316	$3\frac{1}{4}$	27.94	35.57
$\frac{3}{4}$	1.488	1.895	$3\frac{1}{2}$	32.41	41.26
$\frac{7}{8}$	2.025	2.579	$3\frac{3}{4}$	37.20	47.37
1	2.645	3.368	4	42.33	53.89
$1\frac{1}{8}$	3.348	4.263	$4\frac{1}{2}$	53.57	.....
$1\frac{1}{4}$	4.133	5.263	5	66.13	.....
$1\frac{3}{8}$	5.001	6.368	$5\frac{1}{2}$	80.02	.....
$1\frac{1}{2}$	5.952	7.578	6	95.23	.....
$1\frac{5}{8}$	6.985	8.893	$6\frac{1}{2}$	111.8	.....
$1\frac{3}{4}$	8.101	10.31	7	129.6	.....
$1\frac{7}{8}$	9.300	11.84	8	169.3	.....
2	10.58	13.47	.....	.....	.....