

# R. MACKENZIE, STAR METAL BEARINGS.

## WEIGHT OF RAILS PER MILE.

THE SECTIONAL AREA—WEIGHT PER YARD—WEIGHT PER MILE OF SINGLE TRACK.

Area in Inches.	Weight per yd. in lbs.	Tons, 2,240 lbs. per mile.		
		Tons.		Lbs.
5	50	78	11	48
5	52	81	14	33
5	55	86	8	64
5	56	88		
6	60	94		80
6½	64	100	1.	48
7	70	110		
7½	75	117	17	16
8	80	125	14	32
9	90	141	8	64
10	100	157	3	84

*To find weight in tons per mile of rail, divide weight per yard by 7, and multiply by 11.*

### Number of Rails per Mile of Track.

Length of Rail.	Number.	Length of Rail.	Number.
15 feet.	704	22 feet.	480
16 feet.	660	24 feet.	440
18 feet.	587	26 feet.	406
20 feet.	528	28 feet.	377
21 feet.	503	30 feet.	352

### Number of Fish-Joints per Mile of Track.

Length of Rail.	Number.	Length of Rail.	Number.
18 feet.	587	24 feet.	440
20 feet.	528	26 feet.	406
21 feet.	503	28 feet.	377
22 feet.	480	30 feet.	352

### Number of Pounds of Spikes per Mile of Track.

Size of Spike, 5½ by 9-16 inches.....from 5,250 to 5,500 lbs.

### Number of Cross-Ties per Mile of Track.

Distance from centre to centre > feet.....	2,641 ties,
“ “ “ 2¼ “.....	2,348 ties,
“ “ “ 2½ “.....	2,113 ties,
“ “ “ 2¾ “.....	1,921 ties,
“ “ “ 3 “.....	1,761 ties,

### Average Weight per Bushel of Coals.

1 Bushel Anthracite = .....86 lbs. | 1 Bushel Charcoal (hard-wood) = 30 lbs.  
 1 “ Bituminous = .....80 lbs. | 1 “ Coke = .....32 lbs.