

APPENDIX G

SPOKE SPACING CHART

TO DETERMINE THE SPACING OF THE SPOKES WITHIN THE FELLOES, WE CAN USE THE FOLLOWING FORMULA

$$\frac{\text{Diameter of the Wheel} - (2 \times \text{Thickness of Felloe}) \times \text{Pi}}{\text{Number of Spokes}}$$

Example: for Sarven wheel, 40" diameter, 16 spokes -

$$\frac{40 - (2 \times 1\frac{3}{8}) \times 3.1417}{16} = 7.314$$

The following chart is worked out for an average set of Sarven wheels from 26" to 52":

Wheel Size	Felloe Thickness	Spoke Spacing In Decimals	Spoke Spacing In Inches	Wheel Size	Felloe Thickness	Spoke Spacing In Decimals	Spoke Spacing In Inches
24	1 $\frac{3}{8}$	4.172	4 $\frac{11}{64}$	40	1 $\frac{3}{8}$	7.314	7 $\frac{3}{64}$
26	1 $\frac{3}{8}$	4.565	4 $\frac{9}{16}$	40	1 $\frac{3}{4}$	7.167	7 $\frac{3}{32}$
28	1 $\frac{3}{8}$	4.957	4 $\frac{61}{64}$	42	1 $\frac{3}{8}$	7.706	7 $\frac{45}{64}$
28	1 $\frac{3}{4}$	4.81	4 $\frac{13}{16}$	42	1 $\frac{3}{4}$	7.565	7 $\frac{9}{16}$
30	1 $\frac{3}{8}$	5.35	5 $\frac{11}{32}$	44	1 $\frac{3}{8}$	8.099	8 $\frac{3}{32}$
30	1 $\frac{3}{4}$	5.203	5 $\frac{13}{64}$	44	1 $\frac{3}{4}$	7.952	7 $\frac{61}{64}$
32	1 $\frac{3}{8}$	5.743	5 $\frac{3}{4}$	46	1 $\frac{3}{8}$	8.492	8 $\frac{1}{2}$
32	1 $\frac{3}{4}$	5.596	5 $\frac{19}{32}$	46	1 $\frac{3}{4}$	8.345	8 $\frac{11}{32}$
34	1 $\frac{3}{8}$	6.136	6 $\frac{1}{8}$	48	1 $\frac{3}{8}$	8.737	8 $\frac{47}{64}$
34	1 $\frac{3}{4}$	5.998	6	48	1 $\frac{3}{4}$	8.885	8 $\frac{7}{8}$
36	1 $\frac{3}{8}$	6.528	6 $\frac{1}{2}$	50	1 $\frac{3}{8}$	9.293	9 $\frac{9}{32}$
36	1 $\frac{3}{4}$	6.381	6 $\frac{3}{8}$	50	1 $\frac{3}{4}$	9.128	9 $\frac{1}{8}$
38	1 $\frac{3}{8}$	6.921	6 $\frac{59}{64}$	52	1 $\frac{3}{8}$	9.67	9 $\frac{11}{16}$
38	1 $\frac{3}{4}$	6.774	6 $\frac{49}{64}$	52	1 $\frac{3}{4}$	9.523	9 $\frac{33}{64}$

Original chart from Wheels, Wheels, Wagons & More by Melvin L. Dewitt, page 35, self-published Moscow, ID, USA 1984
Reprinted with permission.