Tire Selection Tables for Agricultural and Light Industrial Machines of Future Design — SAE J711c

SAE RECOMMENDED PRACTICE

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SOCIETY OF AUTOMOTIVE ENGINEERS, INC.
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TIRE SELECTION TABLES FOR AGRICULTURAL AND LIGHT INDUSTRIAL MACHINES OF FUTURE DESIGN — SAE J711c

SAE Recommended Practice

Report of Tractor Technical Committee approved June 1960 and last revised May 1975.

This SAE Recommended Practice is established for the purpose of providing selection tables of tires preferred for application to machines of future design. The objective of the table is to minimize the number of tire sizes.

TABLE 1 — PREFERRED DRIVE TIRE SIZES FOR USE ON AGRICULTURAL MACHINES OF FUTURE DESIGN

Grouped by Rim Dia In	Tire Size	Ply Rating	Std Rim Width In	Design Section Width In	Static Loaded Radius, In	Design Overall Dia In
Code R-1	(Regular Agricultural)					
16	9.5-16	4	W8, W8L, 8LB	9.5	15.1	33.26
	18.4-16.1	6	16.1-16LB	18.4	19.5	44.76
24	8.3-24	4	W-7	8.3	18.1	39.10
	9.5-24	4	W-8	9.5	19.0	41.26
	11.2-24	4	W-10	11.2	19.8	43.44
	12.4-24	4,6,8	W-11	12.4	20.8	45.62
	13.6-24	4	W-12	13.6	21.5	47.62
	14.9-24	6	W-13	14.9	22.4	49.82
	16.9-24	6,8	W-15L	16.9	23.4	52.48
26	14.9-26	6,8	W-13	14.9	23.5	51.82
	16.9-26	6,8	W-15L	16.9	24.4	54.48
	18.4-26	6,8,10	W-16L, DW-16	18.4	25.5	57.10
	23.1-26	8,10	DW-20	23.1	28.0	63.20
	28L-26	10	DW-25	28.1	28.2	63.60
28	11.2-28	4	W-10	11.2	21.8	47.44
	12.4-28	4	W-11	12.4	22.6	49.62
	13.6-28	4,6	W-12	13.6	23.5	51.62
	14.9-28	6	W-13	14.9	24.4	53.82
	16.9-28	6,8	W-15L	16.9	25.4	56.48
	18.4-28	6	W-16L, DW-16	18.4	26.6	59.10
30	14.9-30	6	W-13	14.9	25.5	55.82
	16.9-30	6	W-15L	16.9	26.5	58.48
	18.4-30	6,8,10	W-16L, DW-16	18.4	27.4	61.10
	23.1-30	8	Dw-20	23.1	29.8	67.20
32	24.5-32	10	DW-21	24.5	31.5	71.00
34	16.9-34	6	W-15L	16.9	28.5	62.48
	18.4-34	6,8,10	W-16L, DW-16	18.4	29.5	65.10
	20.8-34	8	W-18L	20.8	30.3	68.20
	23.1-34	8	Dw-20	23.1	31.8	71.20
36	13.9-36	6	W-12, DW-12	13.9	26.8	58.20
38	13.6-38	4,6	W-12, DW-12	13.6	28.5	61.62
	15.5-38	6,8	W-14L, DW-14	15.5	28.5	61.76
	16.9-38	6,8	W-15L	16.9	30.4	66.48
	18.4-38	6,8,10,12	W-16L	18.4	31.5	69.10
	20.8-38	8,10	W-18L	20.8	32.6	72.20
Code R-2	(Cane and Rice)					
26	18.4-26	6,8,10	W-16L, DW-16	18.4	26.2	58.96
	23.1-26	8,10	DW-20	23.1	29.3	65.44
	28L-26	10	DW-25	28.1	29.4	65.86
30	23.1-30	8	DW-20	23.1	31.2	69.44
32	24.5-32	10	DW-21	24.5	32.8	73.34
34	18.4-34	6,8	W-16L, DW-16	18.4	30.1	66.96
	20.8-34	8	W-18L	20.8	31.4	70.25
	23.1-34	8	DW-20	23.1	33.1	73.44
38	15.5-38	6	W-14L	15.5	30.0	63.18
	18.4-38	6,8,10	W-16L	18.4	32.0	70.96
	20.8-38	8,10	W-18L	20.8	33.4	74.26
Code R-3	(Industrial and Sand)					
16	9.5-16	4	W-8, W8L, 8LB	9.5	14.7	32.30
	12.4-16	6,8	W-11	12.4	16.3	36.66
	18.4-16.1	6,8	16.1-16LB	18.4	18.9	43.80
24	8.3-24	4	W-7	8.3	17.8	38.14
	9.5-24	4	W-8	9.5	18.4	40.30
	14.9-24	6	W-13	14.9	22.4	48.86
	16.9-24	6	W-15L	16.9	22.8	51.52
26	16.9-26	6	W-15L	16.9	23.8	53.52
	18.4-26	6,10	W-16L, DW16	18.4	25.3	56.14
	23.1-26	8	DW-20	23.1	26.9	62.24
Code R-4	(Industrial Tractor, Intermediate Tread)					
24	14.9-24	6,8	W-13	14.9	22.2	48.86
	16.9-24	6,8,10	W-15L	16.9	23.1	51.52
	17.5L-24	6	W-15L	17.5	22.0	48.84
28	14.9-28	6,8	W-13	14.9	24.2	52.86
	16.9-28	6,8	W-15L	16.9	25.1	55.52

TABLE 2 - PREFERRED STEERING TIRE SIZES FOR USE ON AGRICULTURAL MACHINES OF FUTURE DESIGN

Grouped by Rim Dia In	Tire Size	Ply Rating	Std Rim Width In	Design Section Width In	Static Loaded Radius In	Design Overall Dia In
Code F-1	(Single Rib)					
16	10.00-16 SL	6	W8L, W8, 8LB	10.8	16.3	35.66
	11.00-16 SL	8	W10L, 10LB	12.4	17.8	38.54
18	7.50-18 SL	6	5.50F	8.0	16.1	34.26
20	7.50-20 SL	6	5.50F	8.0	17.2	36.26
Code F-2	(Regular Agricultural)					
12	4.00-12 SL	4	3.00D	4.4	10.0	21.24
14	6.00-14 SL	4	5KB	6.6	12.6	27.10
15	5.00-15 SL	4	3.00D	5.1	12.0	26.14
	7.5L-15 SL	6,8	6LB	8.2	13.5	29.36
	9.5L-15 SL	6,8	W8L, 8LB	9.5	13.9	30.08
	11L-15 SL	6,8	W8L, 8LB	11.0	14.4	32.00
16	5.50-16 SL	4	4.00E	5.9	13.2	28.06
	6.00-16 SL	4,6	4.00E	6.2	13.5	29.10
	6.50-16 SL	4,6	4.50E	6.8	13.9	29.96
	7.50-16 SL	4,6,8	5.50F	8.0	14.8	31.80
	10.00-16 SL	6,8	W81, W8, 8LB	10.8	16.0	35.20
	11.00-16 SL	6,8	W10L, 10LB	12.4	17.3	38.08
	14L-16.1 SL	6	W11C-16.1	14.0	17.4	38.80
18	7.50-18 SL	4,6	5.50F	8.0	15.9	33.80
20	7.50-20 SL	6	5.50F	8.0	17.0	35.80
	9.50-20 SL	6,8	W7L	10.0	17.8	38.50
Code F-3	(Industrial Multiple Rib)					
10	9.00-10 SL	4	6.00F	9.2	12.2	26.54
16	7.50-16 SL	6	5.50F	8.0	14.7	30.78
	11.00-16 SL	6,8	W10L, 10LB	12.4	16.8	36.80
Code I-1	(Rib Implement)					
9	4.00-9SL	4	3.00D	4.4	8.1	17.44
10	9.00-10 SL	4	6.00F	9.2	11.1	26.60
12	4.00=12 SL	4	3.00D	4.4	9.5	20.44
	8.5L-14 SL	6.8	6KB	8.5	12.8	28.38
14	9.5L-14 SL	6,8	8KB	9.5	13.1	29.18
	11L-14 SL	6	8KB	11.0	13.2	29.60
15	5.00-15 SL	4	3.00D	5.1	11.4	25.16
	5.90-15 SL	4	4-1/2KB	5.9	12.0	26.20
	6.40-15 SL	4,6	4-1/2KB	6.4	12.4	26.92
	6.70-15 SL	4,6	4-1/2KB	6.7	12.7	27.70
	7.60-15 SL	4,6,8	5-1/2KB	7.6	13.1	28.90
	9.5L-15 SL	8	W8L, 8LB	9.5	13.4	30.18
	10.00-15 SL	8	8LB, W8L	10.8	14.8	33.60
	11L-15 SL	6,8,10	8LB, W8L	11.0	13.8	30.60
	12.5L-15 SL	6,8	10LB	12.5	14.3	32.40
16	5.50-16 SL	4	4.00E	5.9	12.3	27.04
	6.00-16 SL	4,6	4.00E	6.2	12.6	28.04
	6.50-16 SL	4,6,8	4.50E	6.8	13.0	28.92
	7.50-16 SL	4,6,8,10	5.50F	8.0	14.0	30.92
	9.00-16 SL	8,10	6.00F	9.2	15.0	33.40
	11L-16 SL	6,8,10	W8, W8L, 8LB	11.0	14.3	31.60
	12.5L-16SL	8	W10L, 10LB	12.5	14.8	33.40
18	4.00-18 SL	2,4	3.00D	4.4	12.5	26.44
	7.50-18 SL	4,6	5.50F	8.0	15.0	32.92
20	7.50-20 SL	4,6	5.50F	8.0	16.0	34.92
24	7.50-24 SL	4	W7	8.8	18.0	39.26
	9.00-24 SL	6,8	W8	10.7	19.4	43.06
	11.25-24 SL	8	W10H	12.8	21.0	46.10
28	11.25-28 SL	10	W10H	12.8	23.0	50.10
Code I-2	(Moderate Traction)					
16	13.50-16.1 SL	6,8	W11C-16.1	13.9	17.4	40.70
	16.5L-16.1 SL	6,8,10	16.1-14LB	16.5	17.3	40.80
Code I-3	(Traction Implement)					
15	5.00-15 SL	4	3.00D	5.1	11.6	25.78
	5.90-15 SL	4	4-1/2KB	5.9	12.2	26.82
	6.70-15 SL	4	4-1/2KB	6.7	12.8	28.35
	12.5L-15 SL	6,8	10 LB	12.5	14.4	33.15
16	7.50-16 SL	4	5.50F	8.0	14.1	31.54
	13.50-16.1 SL	6	W11C-16.1	13.9	17.5	41.08
18	7.50-18 SL	4	5.50F	8.0	15.2	33.54
20	7.50-20 SL	4	5.50F	8.0	16.2	35.54
24	7.50-24 SL	4	W7	8.8	18.3	39.88
Code I-6	(Smooth Implement)					
8	4.00-8 SL	2,4	3.00D	4.4	7.4	16.00