

SURFACE VEHICLE RECOMMENDED PRACTICE

SAE J711

REV.
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TIRE SELECTION TABLES FOR AGRICULTURAL TRACTORS OF FUTURE DESIGN

Foreword—This Document has also changed to comply with the new SAE Technical Standards Board format.

- 1. Scope**—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 Tables 1 and 2 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

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

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
	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

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

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
26	14.9 — 24	6	W — 13	14.9	22.4	48.86
	16.9 — 24	6	W — 15L	16.9	22.8	51.52
	16.9 — 26	6	W — 15L	16.9	23.8	53.52
	18.4 — 26	6, 10	W — 16L, DW — 16	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 — 16SL	6	W8L, W8, 8LB	10.8	16.3	35.66
	11.00 — 16SL	8	W10L, 10LB	12.4	17.8	38.54
18	7.50 — 18SL	6	5.50F	8.0	16.1	34.26
20	7.50 — 20SL	6	5.50F	8.0	17.2	36.26
CODE F-2 (Regular Agricultural)						
12	4.00 — 12SL	4	3.00D	4.4	10.0	21.24
14	6.00 — 14SL	4	5KB	6.6	12.6	27.10
15	5.00 — 15SL	4	3.00D	5.1	12.0	26.14
	7.5L — 15SL	6, 8	6LB	8.2	13.5	29.36
	9.5L — 15SL	6, 8	W8L, 8LB	9.5	13.9	30.80
	11L — 15SL	6, 8	W8L, 8LB	11.0	14.4	32.00
16	5.50 — 16SL	4	4.00E	5.9	13.2	28.06
	6.00 — 16SL	4, 6	4.00E	6.2	13.5	29.10
	6.50 — 16SL	4, 6	4.50E	6.8	13.9	29.96
	7.50 — 16SL	4, 6, 8	5.50F	8.0	14.8	31.80
	10.00 — 16SL	6, 8	W8L, W8, 8LB	10.8	16.0	35.20
	11.00 — 16SL	6, 8	W10L, 10LB	12.4	17.3	38.08
	14L — 16.1SL	6	W11C — 16.1	14.0	17.4	38.80
18	7.50 — 18SL	4, 6	5.50F	8.0	15.9	33.80
20	7.50 — 20SL	6	5.50F	8.0	17.0	35.80
	9.50 — 20SL	6, 8	W7L	10.0	17.8	38.50
CODE F-3 (Industrial Multiple Rib)						
10	9.00 — 10SL	4	6.00F	9.2	12.2	26.54
16	7.50 — 16SL	6	5.50F	8.0	14.7	30.78
	11.00 — 16SL	6, 8	W10L, 10LB	12.4	16.8	36.80

NOTES: For vehicle design clearance purposes:

1. Maximum grown tire widths may exceed the above design new tire section widths by 8% for drive tires and 9% for steering wheel tires.
2. Maximum grown tire outside diameters may exceed the above design new tire outside diameters for drive tires by 6% and for steering wheel tires by 8% of the difference between the design new tire outside diameter and the nominal rim diameter.