

			Gallons per Acre--20 Inch Spacing									
Orifice and Tip #	PSI	Nozzle GPM	5 MPH	6 MPH	7 MPH	8 MPH	9 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH
1.5 #2 Tip	30	0.13	7.7	6.4	5.5	4.8	4.3	3.9	3.2	2.8	2.4	2.1
	40	0.15	8.9	7.4	6.4	5.6	5.0	4.5	3.7	3.2	2.8	2.5
	50	0.17	10.0	8.3	7.1	6.2	5.5	3.9	4.2	3.6	3.1	2.8
2 #2 Tip	30	0.17	10.3	8.6	7.4	6.4	5.7	5.1	4.3	3.7	3.2	2.9
	40	0.2	11.9	9.9	8.5	7.4	6.6	5.9	5.0	4.2	3.7	3.3
	50	0.22	13.3	11.1	9.5	8.3	7.4	6.6	5.5	4.7	4.2	3.7
3 #4 Tip	30	0.26	15.4	12.9	11.0	9.7	8.6	7.7	6.4	5.5	4.8	4.3
	40	0.3	17.8	14.9	12.7	11.1	9.9	8.9	7.4	6.4	5.6	5.0
	50	0.34	19.9	16.6	14.2	12.5	11.1	10.0	8.3	7.1	6.2	5.5
3 #2 Tip	30	0.19	11.1	9.3	7.9	6.9	6.2	5.6	4.6	4.0	3.5	3.1
	40	0.22	12.8	10.7	9.2	8.0	7.1	6.4	5.4	4.6	4.0	3.6
	50	0.24	14.3	12.0	10.3	9.0	8.0	7.2	6.0	5.1	4.5	4.0
3 #6 Tip	30	0.28	16.7	13.9	11.9	10.5	9.3	8.4	7.0	6.0	5.2	4.6
	40	0.33	19.3	16.1	13.8	12.1	10.7	9.7	8.0	6.9	6.0	6.4
	50	0.36	21.6	18.0	15.4	13.5	12.0	10.8	9.0	7.7	6.7	6.0
4 #4 Tip	30	0.35	20.6	17.2	14.7	12.9	11.4	10.3	8.6	7.4	6.4	5.7
	40	0.4	23.8	19.8	17.0	14.9	13.2	11.9	9.9	8.5	7.4	6.6
	50	0.45	26.6	22.1	19.0	16.6	14.8	13.3	11.1	9.5	8.3	7.4
4 #2 Tip	30	0.21	12.6	10.5	9.0	7.9	7.0	6.3	5.3	4.5	3.9	3.5
	40	0.25	14.6	12.1	10.4	9.1	8.1	7.3	6.1	5.2	4.6	4.0
	50	0.27	16.3	13.6	11.6	10.2	9.0	8.1	6.8	5.8	5.1	4.5
4 #6 Tip	30	0.4	23.9	19.9	17.1	15.0	13.3	12.0	10.0	8.5	7.5	6.6
	40	0.47	27.6	23.0	19.7	17.3	15.4	13.8	11.5	9.9	8.6	7.7
	50	0.52	30.9	25.7	22.1	19.3	17.2	15.4	12.9	11.0	9.7	8.6
5 #6 Tip	30	0.43	25.7	21.4	18.4	16.1	14.3	12.9	10.7	9.1	8.0	7.1
	40	0.5	29.7	24.8	21.2	18.6	16.5	14.9	12.4	10.6	9.3	8.3
	50	0.56	33.2	27.7	23.7	20.8	18.5	16.6	13.8	11.9	10.4	9.2
5 #2 Tip	30	0.22	13.1	10.9	9.3	8.2	7.3	6.5	5.4	4.7	4.1	3.6
	40	0.25	15.1	12.6	10.8	9.4	8.3	7.5	6.3	5.4	4.7	4.2
	50	0.28	16.9	14.1	12.1	10.5	9.4	8.4	7.0	6.0	5.3	4.7
5 #4 Tip	30	0.38	22.6	18.9	16.2	14.2	12.6	11.3	9.4	8.1	7.1	6.3
	40	0.44	26.3	21.9	18.8	16.5	14.6	13.2	11.0	9.4	8.2	7.3
	50	0.49	29.2	24.4	20.9	18.3	16.2	14.6	12.2	10.4	9.1	8.1
6 #6 Tip	30	0.52	30.9	25.7	22.1	19.3	17.2	15.4	12.9	11.0	9.7	8.6
	40	0.6	35.6	29.7	25.5	22.3	19.8	17.8	14.9	12.7	11.1	9.9
	50	0.67	39.9	33.2	28.5	24.9	22.1	19.9	16.6	14.2	12.5	11.1
6 #2 Tip	30	0.22	13.6	11.3	9.7	8.5	7.5	6.8	5.7	4.9	4.2	3.8
	40	0.25	15.7	13.1	11.2	9.8	8.7	7.8	6.5	5.6	4.9	4.4
	50	0.28	17.5	14.6	12.5	11.0	9.7	8.8	7.3	6.3	5.5	4.9
6 #4 Tip	30	0.38	24.2	20.2	17.3	15.1	13.4	12.1	10.1	8.6	7.6	6.7
	40	0.44	27.9	23.3	19.9	17.5	15.5	14.0	11.6	10.0	8.7	7.8
	50	0.49	31.2	26.0	22.3	19.5	17.3	15.6	13.0	11.2	9.8	8.7

Droplet Size data derived mathematical models as reported in "Fritz, B.K., Hoffmann, W.C and Anderson, J. 2015, Response Surface Method for Evaluation of Agricultural Application Nozzles. STP from 35th Symposium Pesticide Formulations and Delivery Systems: Pesticides and Adjuvant Formulations in 2014." Southern Plains Agricultural Research Center, Agricultural Research Service, U.S. Department of Agriculture, 3109 F&B Road, College Station, TX 77845, USA

Spray Quality Classification	VMD
Fine (F)	Between 106-235
Medium (M)	Between 236-340
Coarse (C)	Between 341-403
Very Coarse (VC)	Between 404-502
Extremely Coarse (XC)	Between 503-665
Ultra Coarse (UC)	Over 665

*Always read the product label to determine which spray quality is required.

