

Orifice/Tip Combinations			Gallons Per Acre														
			30" Spacing					40" Spacing					60" Spacing				
Orifice and Tip #	PSI	Nozzle GPM	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH	10 MPH	12 MPH	14 MPH	16 MPH	18 MPH
2.5 #7.5 & #5	30	0.43	8.5	7.1	6.1	5.3	4.7	6.4	5.3	4.6	4.0	3.6	4.3	3.6	3.1	2.7	2.4
	40	0.5	9.9	8.3	7.1	6.2	5.5	7.4	6.2	5.3	4.6	4.1	5.0	4.2	3.6	3.1	2.8
	50	0.56	11.1	9.2	7.9	6.9	6.2	8.3	6.9	5.9	5.2	4.6	5.6	4.6	4.0	3.5	3.1
5 #7.5	30	0.87	17.2	14.3	12.3	10.7	9.5	12.9	10.7	9.2	8.0	7.1	8.6	7.2	6.2	5.4	4.8
	40	1.00	19.8	16.5	14.1	12.4	11.0	14.9	12.4	10.6	9.3	8.3	10.0	8.3	7.1	6.2	5.5
	50	1.12	22.1	18.5	15.8	13.8	12.3	16.6	13.8	11.9	10.4	9.2	11.1	9.3	7.9	6.9	6.2
7.5 #18	30	1.30	25.7	21.4	18.4	16.1	14.3	19.3	16.1	13.8	12.1	10.7	12.9	10.7	9.2	8.1	7.2
	40	1.50	29.7	24.8	21.2	18.6	16.5	22.3	18.6	15.9	13.9	12.4	14.9	12.4	10.6	9.3	8.3
	50	1.68	33.2	27.7	23.7	20.8	18.5	24.9	20.8	17.8	15.6	13.8	16.6	13.9	11.9	10.4	9.3
7.5 #7.5	30	0.94	18.6	15.5	13.3	11.7	10.4	14.0	11.7	10.0	8.7	7.8	9.3	7.8	6.7	5.9	5.2
	40	1.09	21.7	18.1	15.5	13.5	12.0	16.3	13.5	11.6	10.2	9.0	10.9	9.1	7.8	6.8	6
	50	1.22	24.2	20.2	17.3	15.1	13.5	18.2	15.1	13.0	11.4	10.1	12.1	10.1	8.7	7.6	6.8
10 #18	30	1.73	34.3	28.6	24.5	21.4	19.1	25.7	21.4	18.4	16.1	14.3	17.2	14.3	12.3	10.7	9.6
	40	2.00	39.6	33.0	28.3	24.8	22.0	29.7	24.8	21.2	18.6	16.5	19.8	16.5	14.2	12.4	11
	50	2.24	44.3	36.9	31.6	27.7	24.6	33.2	27.7	23.7	20.8	18.5	22.2	18.5	15.8	13.9	12.3
10 #7.5	30	1.25	24.7	20.6	17.7	15.5	13.7	18.6	15.5	13.3	11.6	10.3	12.4	10.3	8.9	7.8	6.9
	40	1.45	28.8	24.0	20.5	18.0	16.0	21.6	18.0	15.4	13.5	12.0	14.4	12	10.3	9	8
	50	1.62	32.2	26.8	23.0	20.1	17.9	24.1	20.1	17.2	15.1	13.4	16.1	13.4	11.5	10.1	9
15 #18	30	2.60	51.4	42.9	36.7	32.2	28.6	38.6	32.2	27.6	24.1	21.4	25.7	21.5	18.4	16.1	14.3
	40	3.00	59.4	49.5	42.4	37.1	33.0	44.6	37.1	31.8	27.8	24.8	29.7	24.8	21.2	18.6	16.5
	50	3.35	66.4	55.3	47.4	41.5	36.9	49.8	41.5	35.6	31.1	27.7	33.2	27.7	23.7	20.8	18.5
15 #7.5	30	1.27	25.1	20.9	17.9	15.7	13.9	18.8	15.7	13.4	11.8	10.5	12.6	10.5	9	7.9	7
	40	1.47	29.2	24.3	20.8	18.2	16.2	21.9	18.2	15.6	13.7	12.2	14.6	12.2	10.4	9.1	8.1
	50	1.65	32.6	27.2	23.3	20.4	18.1	24.5	20.4	17.5	15.3	13.6	16.3	13.6	11.7	10.2	9.1
20 #35	30	3.46	68.6	57.2	49.0	42.9	38.1	51.4	42.9	36.7	32.2	28.6	34.3	28.6	24.5	21.5	19.1
	40	4.00	79.2	66.0	56.6	49.5	44.0	59.4	49.5	42.4	37.1	33.0	39.6	33	28.3	24.8	22
	50	4.47	88.6	73.8	63.3	55.3	49.2	66.4	55.3	47.4	41.5	36.9	44.3	36.9	31.7	27.7	24.6
20 #18	30	2.56	50.8	42.3	36.3	31.7	28.2	38.1	31.7	27.2	23.8	21.2	25.4	21.2	18.2	15.9	14.1
	40	2.98	59.0	49.2	42.2	36.9	32.8	44.3	36.9	31.6	27.7	24.6	29.5	24.6	21.1	18.5	16.4
	50	3.33	66.0	55.0	47.1	41.2	36.7	49.5	41.2	35.4	30.9	27.5	33	27.5	23.6	20.6	18.4
24 #35	30	4.16	82.3	68.6	58.8	51.4	45.7	61.7	51.4	44.1	38.6	34.3	41.2	34.3	29.4	25.7	22.9
	40	4.80	95.0	79.2	67.9	59.4	52.8	71.3	59.4	50.9	44.6	39.6	47.5	39.6	34	29.7	26.4
	50	5.37	106.3	88.6	75.9	66.4	59.0	79.7	66.4	56.9	49.8	44.3	53.2	44.3	38	33.2	30
24 #18	30	2.85	56.4	47.0	40.3	35.2	31.3	42.3	35.2	30.2	26.4	23.5	28.2	23.5	20.2	17.6	15.7
	40	3.31	65.6	54.6	46.8	41.0	36.4	49.2	41.0	35.1	30.7	27.3	32.8	27.3	23.4	20.5	18.2
	50	3.70	73.3	61.1	52.4	45.8	40.7	55.0	45.8	39.3	34.4	30.5	36.7	30.6	26.2	22.9	20.4
30 #35	30	5.20	102.9	85.7	73.5	64.3	57.2	77.2	64.3	55.1	48.2	42.9	51.5	42.9	36.8	32.2	28.6
	40	6.00	118.8	99.0	84.9	74.3	66.0	89.1	74.3	63.6	55.7	49.5	69.4	49.5	42.5	37.2	33
	50	6.71	132.8	110.7	94.9	83.0	73.8	99.6	83.0	71.2	62.3	55.3	66.4	55.4	47.5	41.5	36.9
30 #18	30	2.99	59.1	49.3	42.2	36.9	32.8	44.3	36.9	31.7	27.7	24.6	29.6	24.7	21.1	18.5	16.4
	40	3.47	68.7	57.3	49.1	43.0	38.2	51.6	43.0	36.8	32.2	28.6	34.4	28.7	24.6	21.5	19.1
	50	3.88	76.9	64.0	55.0	48.0	42.7	57.6	48.0	41.2	36.0	32.0	38.5	32	27.5	24	21.4

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

Spray Quality Classification*	VMD
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

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Data for CP's Low Volume Sprayer Turbo Nozzles developed by Dr. Womac, Ph.D., P.E., Assoc. Prof., University of Tennessee Institute of Agriculture, Knoxville, TN Nozzle Classification Using ASAE Reference Nozzle Set #5 & 6 (Malvern laser diffraction instrument, still air)