

| 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 |
| 5 #12 | 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 | 7.1 | 6.1 | 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 | 9.9 | 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 | 9.2 | 7.9 | 6.9 | 6.2 |
| 10 #12 | 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 | 9.5 |
| | 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 | 14.1 | 12.4 | 11.0 |
| | 50 | 2.24 | 44.3 | 36.9 | 31.6 | 27.7 | 24.6 | 33.2 | 27.7 | 23.7 | 20.8 | 18.5 | 22.1 | 18.5 | 15.8 | 13.8 | 12.3 |
| 15 #35 | 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 | 21.4 | 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 | 33.0 | 27.7 | 23.7 | 20.8 | 18.5 |
| 15 #12 | 30 | 1.69 | 33.6 | 28.0 | 24.0 | 21.0 | 18.6 | 26.2 | 21.0 | 18.0 | 15.7 | 14.0 | 16.8 | 14.0 | 12.0 | 10.5 | 9.3 |
| | 40 | 1.97 | 39.0 | 32.5 | 27.9 | 24.4 | 21.7 | 29.3 | 24.4 | 20.9 | 18.3 | 16.3 | 19.5 | 16.3 | 13.9 | 12.2 | 10.8 |
| | 50 | 2.20 | 43.6 | 36.3 | 31.2 | 27.3 | 24.2 | 32.7 | 27.3 | 23.4 | 20.4 | 18.2 | 21.8 | 18.2 | 15.6 | 13.6 | 12.1 |
| 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 | 21.4 | 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 | 33.0 | 28.3 | 24.8 | 22.0 |
| | 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 | 31.6 | 27.7 | 24.6 |
| 20 #12 | 30 | 1.89 | 37.5 | 31.2 | 26.8 | 23.4 | 20.8 | 28.1 | 23.4 | 20.1 | 17.6 | 15.6 | 18.7 | 15.6 | 13.4 | 11.7 | 10.4 |
| | 40 | 2.20 | 43.6 | 36.3 | 31.1 | 27.2 | 24.2 | 32.7 | 27.2 | 23.3 | 20.4 | 18.2 | 21.8 | 18.2 | 15.6 | 13.6 | 12.1 |
| | 50 | 2.46 | 48.7 | 40.6 | 34.8 | 30.4 | 27.1 | 36.5 | 30.4 | 26.1 | 22.8 | 20.3 | 24.4 | 20.3 | 17.4 | 15.2 | 13.5 |
| 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 | 51.4 | 42.9 | 36.7 | 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 | 59.4 | 49.5 | 42.4 | 37.1 | 33.0 |
| | 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 | 55.3 | 47.4 | 41.5 | 36.9 |
| 30 #12 | 30 | 2.09 | 41.4 | 34.5 | 29.6 | 25.9 | 23.0 | 31.0 | 25.9 | 22.2 | 19.4 | 17.2 | 20.7 | 17.2 | 14.8 | 12.9 | 11.5 |
| | 40 | 2.43 | 48.1 | 40.1 | 34.4 | 30.1 | 26.7 | 36.1 | 30.1 | 25.8 | 22.6 | 20.1 | 24.1 | 20.1 | 17.2 | 15.0 | 13.4 |
| | 50 | 2.72 | 53.8 | 44.8 | 38.4 | 33.6 | 29.9 | 40.4 | 33.6 | 28.8 | 25.2 | 22.4 | 26.9 | 22.4 | 19.2 | 16.8 | 14.9 |
| 40 #60 | 30 | 6.93 | 137.2 | 114.3 | 98.0 | 85.7 | 76.2 | 102.9 | 85.7 | 73.5 | 64.3 | 57.2 | 68.6 | 57.2 | 49.0 | 42.9 | 38.1 |
| | 40 | 8.00 | 158.4 | 132.0 | 113.1 | 99.0 | 88.0 | 118.8 | 99.0 | 84.9 | 74.3 | 66.0 | 79.2 | 66.0 | 56.6 | 49.5 | 44.0 |
| | 50 | 8.94 | 177.1 | 147.6 | 126.5 | 110.7 | 98.4 | 132.8 | 110.7 | 94.9 | 83.0 | 73.8 | 88.6 | 73.8 | 63.3 | 55.3 | 49.2 |
| 40 #35 | 30 | 5.28 | 104.5 | 87.1 | 74.6 | 65.3 | 58.0 | 78.3 | 65.3 | 56.0 | 49.0 | 43.5 | 52.2 | 43.5 | 37.3 | 32.6 | 29.0 |
| | 40 | 6.13 | 121.5 | 101.2 | 86.8 | 75.9 | 67.5 | 91.1 | 75.9 | 65.1 | 56.9 | 50.6 | 60.7 | 50.6 | 43.4 | 38.0 | 33.7 |
| | 50 | 6.86 | 135.8 | 113.2 | 97.0 | 84.9 | 75.4 | 101.9 | 84.9 | 72.8 | 63.7 | 56.6 | 67.9 | 56.6 | 48.5 | 42.4 | 37.7 |
| 50 #60 | 30 | 8.66 | 171.5 | 142.9 | 122.5 | 107.2 | 95.3 | 128.6 | 107.2 | 91.9 | 80.4 | 71.5 | 85.7 | 71.5 | 61.2 | 53.6 | 47.6 |
| | 40 | 10.00 | 198.0 | 165.0 | 141.4 | 123.8 | 110.0 | 148.5 | 123.8 | 106.1 | 92.8 | 82.5 | 99.0 | 82.5 | 70.7 | 61.9 | 55.0 |
| | 50 | 11.18 | 221.4 | 184.5 | 158.0 | 138.4 | 123.0 | 166.0 | 138.4 | 118.6 | 103.8 | 92.2 | 110.7 | 92.2 | 79.1 | 69.2 | 61.5 |
| 50 #35 | 30 | 5.77 | 114.3 | 95.2 | 81.6 | 71.4 | 63.5 | 85.7 | 71.4 | 61.2 | 53.6 | 47.6 | 57.1 | 47.6 | 40.8 | 35.7 | 31.8 |
| | 40 | 6.71 | 132.9 | 110.7 | 94.9 | 83.1 | 73.8 | 99.7 | 83.1 | 71.2 | 62.3 | 55.4 | 66.4 | 55.4 | 47.5 | 41.5 | 36.9 |
| | 50 | 7.50 | 148.6 | 123.8 | 106.1 | 92.9 | 82.5 | 111.4 | 92.9 | 79.6 | 69.7 | 61.2 | 74.3 | 61.9 | 53.1 | 46.4 | 41.3 |
| 60 #60 | 30 | 10.39 | 205.8 | 171.5 | 147.0 | 128.6 | 114.3 | 154.3 | 128.6 | 110.2 | 96.5 | 85.7 | 102.9 | 85.7 | 73.5 | 64.3 | 57.2 |
| | 40 | 12.00 | 237.6 | 198.0 | 169.7 | 148.5 | 132.0 | 178.2 | 148.5 | 127.3 | 111.4 | 99.0 | 118.8 | 99.0 | 84.9 | 74.3 | 66.0 |
| | 50 | 13.42 | 265.7 | 221.4 | 189.8 | 166.0 | 147.6 | 199.2 | 166.0 | 142.3 | 124.5 | 110.7 | 132.8 | 110.7 | 94.9 | 83.0 | 73.8 |
| 60 #35 | 30 | 6.07 | 120.3 | 100.2 | 85.9 | 75.2 | 66.8 | 90.2 | 75.2 | 64.4 | 56.4 | 50.1 | 60.1 | 50.1 | 43.0 | 37.6 | 33.4 |
| | 40 | 7.06 | 139.8 | 116.5 | 99.9 | 87.4 | 77.7 | 104.9 | 87.4 | 74.9 | 65.6 | 58.3 | 69.9 | 58.3 | 49.9 | 43.7 | 38.8 |
| | 50 | 7.90 | 156.3 | 130.3 | 111.7 | 97.7 | 86.9 | 117.3 | 97.7 | 83.8 | 73.3 | 65.1 | 78.2 | 65.1 | 55.8 | 48.9 | 43.4 |

Data for CP's Low Volume Sprayer Turbo Nozzles developed by Dr. Wo mac, 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)

* 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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