



770.664.6513 (V) 770.664.6565 (F)

Discharge Table For 8" Palmer-Bowlus Flume

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| LEVEL | | FLOW | | |
|-------|--------|--------|--------|--------|
| FEET | INCHES | CFS | GPM | MGD |
| 0.01 | 0.12 | 0.0004 | 0.17 | 0.0002 |
| 0.02 | 0.24 | 0.0015 | 0.65 | 0.0009 |
| 0.03 | 0.36 | 0.0032 | 1.42 | 0.002 |
| 0.04 | 0.48 | 0.0055 | 2.47 | 0.0036 |
| 0.05 | 0.60 | 0.0084 | 3.78 | 0.0055 |
| 0.06 | 0.72 | 0.012 | 5.37 | 0.0077 |
| 0.07 | 0.84 | 0.0161 | 7.21 | 0.0104 |
| 0.08 | 0.96 | 0.0208 | 9.32 | 0.0134 |
| 0.09 | 1.08 | 0.026 | 11.68 | 0.0168 |
| 0.10 | 1.20 | 0.0318 | 14.29 | 0.0206 |
| 0.11 | 1.32 | 0.0382 | 17.15 | 0.0247 |
| 0.12 | 1.44 | 0.0452 | 20.26 | 0.0292 |
| 0.13 | 1.56 | 0.0526 | 23.6 | 0.0340 |
| 0.14 | 1.68 | 0.0607 | 27.2 | 0.0392 |
| 0.15 | 1.80 | 0.0693 | 31.08 | 0.0448 |
| 0.16 | 1.92 | 0.0784 | 35.17 | 0.0506 |
| 0.17 | 2.04 | 0.0880 | 39.50 | 0.0569 |
| 0.18 | 2.16 | 0.0982 | 44.07 | 0.0635 |
| 0.19 | 2.28 | 0.1089 | 48.89 | 0.0704 |
| 0.20 | 2.40 | 0.1202 | 53.94 | 0.0777 |
| 0.21 | 2.52 | 0.1320 | 59.22 | 0.0853 |
| 0.22 | 2.64 | 0.1443 | 64.74 | 0.0932 |
| 0.23 | 2.76 | 0.1571 | 70.50 | 0.1015 |
| 0.24 | 2.88 | 0.1704 | 76.49 | 0.1102 |
| 0.25 | 3.00 | 0.1843 | 82.72 | 0.1191 |
| 0.26 | 3.12 | 0.1987 | 89.17 | 0.1284 |
| 0.27 | 3.24 | 0.2136 | 95.86 | 0.1380 |
| 0.28 | 3.36 | 0.2290 | 102.8 | 0.1480 |
| 0.29 | 3.48 | 0.2449 | 109.9 | 0.1583 |
| 0.30 | 3.60 | 0.2614 | 117.3 | 0.1689 |
| 0.31 | 3.72 | 0.2783 | 124.9 | 0.1799 |
| 0.32 | 3.84 | 0.2958 | 132.8 | 0.1912 |
| 0.33 | 3.96 | 0.3138 | 140.8 | 0.2028 |
| 0.34 | 4.08 | 0.3322 | 149.1 | 0.2147 |
| 0.35 | 4.20 | 0.3512 | 157.6 | 0.2270 |
| 0.36 | 4.32 | 0.3707 | 166.4 | 0.2396 |
| 0.37 | 4.44 | 0.3907 | 175.3 | 0.2525 |
| 0.38 | 4.56 | 0.4112 | 184.5 | 0.2657 |
| 0.39 | 4.68 | 0.4322 | 194.0 | 0.2793 |
| 0.40 | 4.80 | 0.4537 | 203.6 | 0.2932 |
| 0.41 | 4.92 | 0.4756 | 213.5 | 0.3074 |
| 0.42 | 5.04 | 0.4981 | 223.56 | 0.3219 |
| 0.43 | 5.16 | 0.5211 | 233.87 | 0.3368 |
| 0.44 | 5.28 | 0.5446 | 244.4 | 0.3519 |
| 0.45 | 5.40 | 0.5685 | 255.16 | 0.3674 |
| 0.46 | 5.52 | 0.593 | 266.13 | 0.3832 |
| 0.47 | 5.64 | 0.6179 | 277.33 | 0.3994 |
| 0.48 | 5.76 | 0.6434 | 288.75 | 0.4158 |
| 0.49 | 5.88 | 0.6693 | 300.39 | 0.4326 |
| 0.50 | 6.00 | 0.6957 | 312.25 | 0.4496 |

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| Best Results Between 0.23D and 0.73D |
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Source: "Development of Theoretical Rating Curves for Standardized Palmer-Bowlus Flumes," Vol. 2, TRACOM, Inc.