OPENCHANNELFLOW

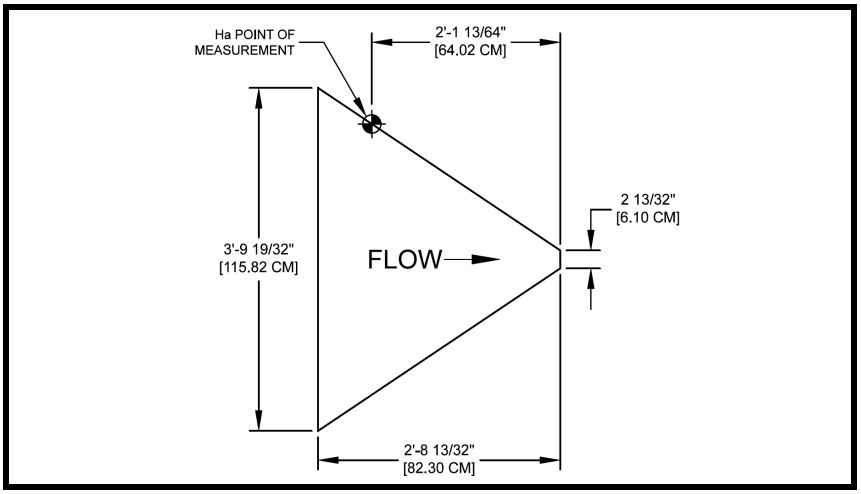
# 2.0-Foot H Flume Discharge Table

25-30% Submergence Transition ±2-5% Accuracy

Formulas (H in feet): $CFS = 0.00787 - 0.01082\ H_{ft}^{0.5} + 0.745962\ H_{ft}^{1.5} + 1.511207\ H_{ft}^{2.5}$

Formulas (H in meters): $L/S = 0.022285358 - 0.55496382\ H_{m}^{0.5} + 125.5275778\ H_{m}^{1.5} + 939.5717311\ H_{m}^{2.5}$

| FEET | INCHES | METERS | CFS | GPM | MGD | L/S | M3/HR |
|---|---|---|---|---|---|---|---|
| 0.01 | 0.12 | 0.0030 | Excessive error due to fluid-flow properties and boundary conditions | | | | |
| 0.02 | 0.24 | 0.0061 | 0.0014 | 0.6283 | 0.0009 | 0.0396 | 0.1427 |
| 0.03 | 0.36 | 0.0091 | 0.0031 | 1.391 | 0.0020 | 0.0878 | 0.3159 |
| 0.04 | 0.48 | 0.0122 | 0.0050 | 2.244 | 0.0032 | 0.1416 | 0.5095 |
| 0.05 | 0.60 | 0.0152 | 0.0073 | 3.276 | 0.0047 | 0.2067 | 0.7439 |
| 0.06 | 0.72 | 0.0183 | 0.0100 | 4.488 | 0.0065 | 0.2832 | 1.019 |
| 0.07 | 0.84 | 0.0213 | 0.0130 | 5.834 | 0.0084 | 0.3682 | 1.325 |
| 0.08 | 0.96 | 0.0244 | 0.0166 | 7.450 | 0.0107 | 0.4701 | 1.692 |
| 0.09 | 1.08 | 0.0274 | 0.0205 | 9.200 | 0.0132 | 0.5806 | 2.089 |
| 0.10 | 1.20 | 0.0305 | 0.0248 | 11.13 | 0.0160 | 0.7023 | 2.527 |
| 0.11 | 1.32 | 0.0335 | 0.0293 | 13.15 | 0.0189 | 0.8298 | 2.986 |
| 0.12 | 1.44 | 0.0366 | 0.0341 | 15.30 | 0.0220 | 0.9657 | 3.475 |
| 0.13 | 1.56 | 0.0396 | 0.0392 | 17.59 | 0.0253 | 1.110 | 3.994 |
| 0.14 | 1.68 | 0.0427 | 0.0447 | 20.06 | 0.0289 | 1.266 | 4.555 |
| 0.15 | 1.80 | 0.0457 | 0.0505 | 22.66 | 0.0326 | 1.430 | 5.146 |
| 0.16 | 1.92 | 0.0488 | 0.0567 | 25.45 | 0.0366 | 1.606 | 5.778 |
| 0.17 | 2.04 | 0.0518 | 0.0632 | 28.36 | 0.0408 | 1.790 | 6.440 |
| 0.18 | 2.16 | 0.0549 | 0.0701 | 31.46 | 0.0453 | 1.985 | 7.143 |
| 0.19 | 2.28 | 0.0579 | 0.0774 | 34.74 | 0.0500 | 2.192 | 7.887 |
| 0.20 | 2.40 | 0.0610 | 0.0850 | 38.15 | 0.0549 | 2.407 | 8.662 |
| 0.21 | 2.52 | 0.0640 | 0.0930 | 41.74 | 0.0601 | 2.634 | 9.477 |
| 0.22 | 2.64 | 0.0671 | 0.1015 | 45.55 | 0.0656 | 2.874 | 10.34 |
| 0.23 | 2.76 | 0.0701 | 0.1103 | 49.50 | 0.0713 | 3.124 | 11.24 |
| 0.24 | 2.88 | 0.0732 | 0.1195 | 53.63 | 0.0772 | 3.384 | 12.18 |
| 0.25 | 3.00 | 0.0762 | 0.1290 | 57.90 | 0.0834 | 3.653 | 13.15 |
| 0.26 | 3.12 | 0.0792 | 0.1390 | 62.38 | 0.0898 | 3.936 | 14.16 |
| 0.27 | 3.24 | 0.0823 | 0.1494 | 67.05 | 0.0966 | 4.231 | 15.22 |
| 0.28 | 3.36 | 0.0853 | 0.1602 | 71.90 | 0.1035 | 4.537 | 16.32 |
| 0.29 | 3.48 | 0.0884 | 0.1714 | 76.92 | 0.1108 | 4.854 | 17.47 |
| 0.30 | 3.60 | 0.0914 | 0.1830 | 82.13 | 0.1183 | 5.183 | 18.65 |




Curve fitted equation accurate to within 1.5%

Notes: Discharge is calculated to top of flume

Source: Field Manual for Research in Agricultural Hydrology, Agriculture Handbook No. 224, U.S. Department of Agriculture, February 1972

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25-30% Submergence Transition ±2-5% Accuracy

Formulas (H in feet): $CFS = 0.00787 - 0.01082\ H_{ft}^{0.5} + 0.745962\ H_{ft}^{1.5} + 1.511207\ H_{ft}^{2.5}$

Formulas (H in meters): $L/S = 0.022285358 - 0.55496382\ H_{m}^{0.5} + 125.5275778\ H_{m}^{1.5} + 939.5717311\ H_{m}^{2.5}$

| FEET | INCHES | METERS | CFS | GPM | MGD | L/S | M3/HR |
|---|---|---|---|---|---|---|---|
| 0.31 | 3.72 | 0.0945 | 0.1950 | 87.52 | 0.1260 | 5.522 | 19.87 |
| 0.32 | 3.84 | 0.0975 | 0.2070 | 92.90 | 0.1338 | 5.862 | 21.09 |
| 0.33 | 3.96 | 0.1006 | 0.2200 | 98.74 | 0.1422 | 6.230 | 22.42 |
| 0.34 | 4.08 | 0.1036 | 0.2340 | 105.0 | 0.1512 | 6.627 | 23.84 |
| 0.35 | 4.20 | 0.1067 | 0.2480 | 111.3 | 0.1603 | 7.023 | 25.27 |
| 0.36 | 4.32 | 0.1097 | 0.2620 | 117.6 | 0.1693 | 7.420 | 26.70 |
| 0.37 | 4.44 | 0.1128 | 0.2760 | 123.9 | 0.1784 | 7.816 | 28.12 |
| 0.38 | 4.56 | 0.1158 | 0.2910 | 130.6 | 0.1881 | 8.241 | 29.65 |
| 0.39 | 4.68 | 0.1189 | 0.3070 | 137.8 | 0.1984 | 8.694 | 31.28 |
| 0.40 | 4.80 | 0.1219 | 0.3230 | 145.0 | 0.2088 | 9.147 | 32.91 |
| 0.41 | 4.92 | 0.1250 | 0.3390 | 152.1 | 0.2191 | 9.600 | 34.54 |
| 0.42 | 5.04 | 0.1280 | 0.3560 | 159.8 | 0.2301 | 10.08 | 36.28 |
| 0.43 | 5.16 | 0.1311 | 0.3740 | 167.9 | 0.2417 | 10.59 | 38.11 |
| 0.44 | 5.28 | 0.1341 | 0.3920 | 175.9 | 0.2533 | 11.10 | 39.94 |
| 0.45 | 5.40 | 0.1372 | 0.4100 | 184.0 | 0.2650 | 11.61 | 41.78 |
| 0.46 | 5.52 | 0.1402 | 0.4290 | 192.5 | 0.2773 | 12.15 | 43.72 |
| 0.47 | 5.64 | 0.1433 | 0.4480 | 201.1 | 0.2895 | 12.69 | 45.65 |
| 0.48 | 5.76 | 0.1463 | 0.4680 | 210.0 | 0.3025 | 13.25 | 47.69 |
| 0.49 | 5.88 | 0.1494 | 0.4880 | 219.0 | 0.3154 | 13.82 | 49.73 |
| 0.50 | 6.00 | 0.1524 | 0.5090 | 228.4 | 0.3290 | 14.41 | 51.87 |
| 0.51 | 6.12 | 0.1554 | 0.5300 | 237.9 | 0.3425 | 15.01 | 54.01 |
| 0.52 | 6.24 | 0.1585 | 0.5520 | 247.7 | 0.3568 | 15.63 | 56.25 |
| 0.53 | 6.36 | 0.1615 | 0.5740 | 257.6 | 0.3710 | 16.26 | 58.49 |
| 0.54 | 6.48 | 0.1646 | 0.5970 | 267.9 | 0.3858 | 16.91 | 60.83 |
| 0.55 | 6.60 | 0.1676 | 0.6200 | 278.3 | 0.4007 | 17.56 | 63.18 |
| 0.56 | 6.72 | 0.1707 | 0.6440 | 289.0 | 0.4162 | 18.24 | 65.62 |
| 0.57 | 6.84 | 0.1737 | 0.6680 | 299.8 | 0.4317 | 18.92 | 68.07 |
| 0.58 | 6.96 | 0.1768 | 0.6930 | 311.0 | 0.4479 | 19.63 | 70.62 |
| 0.59 | 7.08 | 0.1798 | 0.7190 | 322.7 | 0.4647 | 20.36 | 73.27 |
| 0.60 | 7.20 | 0.1829 | 0.7450 | 334.4 | 0.4815 | 21.10 | 75.92 |
| 0.61 | 7.32 | 0.1859 | 0.7710 | 346.0 | 0.4983 | 21.83 | 78.56 |
| 0.62 | 7.44 | 0.1890 | 0.7980 | 358.1 | 0.5157 | 22.60 | 81.32 |
| 0.63 | 7.56 | 0.1920 | 0.8260 | 370.7 | 0.5338 | 23.39 | 84.17 |
| 0.64 | 7.68 | 0.1951 | 0.8540 | 383.3 | 0.5519 | 24.19 | 87.02 |
| 0.65 | 7.80 | 0.1981 | 0.8820 | 395.8 | 0.5700 | 24.98 | 89.88 |
| 0.66 | 7.92 | 0.2012 | 0.9110 | 408.9 | 0.5888 | 25.80 | 92.83 |
| 0.67 | 8.04 | 0.2042 | 0.9410 | 422.3 | 0.6082 | 26.65 | 95.89 |
| 0.68 | 8.16 | 0.2073 | 0.9710 | 435.8 | 0.6276 | 27.50 | 98.94 |
| 0.69 | 8.28 | 0.2103 | 1.002 | 449.7 | 0.6476 | 28.38 | 102.1 |
| 0.70 | 8.40 | 0.2134 | 1.030 | 462.3 | 0.6657 | 29.17 | 105.0 |
| 0.71 | 8.52 | 0.2164 | 1.070 | 480.2 | 0.6915 | 30.30 | 109.0 |
| 0.72 | 8.64 | 0.2195 | 1.100 | 493.7 | 0.7109 | 31.15 | 112.1 |
| 0.73 | 8.76 | 0.2225 | 1.130 | 507.1 | 0.7303 | 32.00 | 115.1 |
| 0.74 | 8.88 | 0.2256 | 1.160 | 520.6 | 0.7497 | 32.85 | 118.2 |
| 0.75 | 9.00 | 0.2286 | 1.200 | 538.6 | 0.7756 | 33.98 | 122.3 |
| 0.76 | 9.12 | 0.2316 | 1.230 | 552.0 | 0.7949 | 34.83 | 125.3 |
| 0.77 | 9.24 | 0.2347 | 1.270 | 570.0 | 0.8208 | 35.97 | 129.4 |
| 0.78 | 9.36 | 0.2377 | 1.300 | 583.4 | 0.8402 | 36.82 | 132.5 |
| 0.79 | 9.48 | 0.2408 | 1.340 | 601.4 | 0.8660 | 37.95 | 136.5 |
| 0.80 | 9.60 | 0.2438 | 1.380 | 619.3 | 0.8919 | 39.08 | 140.6 |

Source: Field Manual for Research in Agricultural Hydrology, Agriculture Handbook No. 224, U.S. Department of Agriculture, February 1972

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| FEET | INCHES | METERS | CFS | GPM | MGD | L/S | M3/HR |
|---|---|---|---|---|---|---|---|
| 0.81 | 9.72 | 0.2469 | 1.420 | 637.3 | 0.9177 | 40.21 | 144.7 |
| 0.82 | 9.84 | 0.2499 | 1.460 | 655.2 | 0.9436 | 41.35 | 148.8 |
| 0.83 | 9.96 | 0.2530 | 1.490 | 668.7 | 0.9630 | 42.20 | 151.8 |
| 0.84 | 10.08 | 0.2560 | 1.530 | 686.7 | 0.9888 | 43.33 | 155.9 |
| 0.85 | 10.20 | 0.2591 | 1.570 | 704.6 | 1.015 | 44.46 | 160.0 |
| 0.86 | 10.32 | 0.2621 | 1.620 | 727.1 | 1.047 | 45.88 | 165.1 |
| 0.87 | 10.44 | 0.2652 | 1.660 | 745.0 | 1.073 | 47.01 | 169.2 |
| 0.88 | 10.56 | 0.2682 | 1.700 | 763.0 | 1.099 | 48.14 | 173.2 |
| 0.89 | 10.68 | 0.2713 | 1.740 | 780.9 | 1.125 | 49.28 | 177.3 |
| 0.90 | 10.80 | 0.2743 | 1.780 | 798.9 | 1.150 | 50.41 | 181.4 |
| 0.91 | 10.92 | 0.2774 | 1.830 | 821.3 | 1.183 | 51.83 | 186.5 |
| 0.92 | 11.04 | 0.2804 | 1.870 | 839.3 | 1.209 | 52.96 | 190.6 |
| 0.93 | 11.16 | 0.2835 | 1.920 | 861.7 | 1.241 | 54.37 | 195.6 |
| 0.94 | 11.28 | 0.2865 | 1.960 | 879.6 | 1.267 | 55.51 | 199.7 |
| 0.95 | 11.40 | 0.2896 | 2.010 | 902.1 | 1.299 | 56.92 | 204.8 |
| 0.96 | 11.52 | 0.2926 | 2.060 | 924.5 | 1.331 | 58.34 | 209.9 |
| 0.97 | 11.64 | 0.2957 | 2.100 | 942.5 | 1.357 | 59.47 | 214.0 |
| 0.98 | 11.76 | 0.2987 | 2.150 | 964.9 | 1.390 | 60.89 | 219.1 |
| 0.99 | 11.88 | 0.3018 | 2.200 | 987.4 | 1.422 | 62.30 | 224.2 |
| 1.00 | 12.00 | 0.3048 | 2.250 | 1010 | 1.454 | 63.72 | 229.3 |
| 1.01 | 12.12 | 0.3078 | 2.300 | 1032 | 1.486 | 65.14 | 234.4 |
| 1.02 | 12.24 | 0.3109 | 2.350 | 1055 | 1.519 | 66.55 | 239.5 |
| 1.03 | 12.36 | 0.3139 | 2.400 | 1077 | 1.551 | 67.97 | 244.6 |
| 1.04 | 12.48 | 0.3170 | 2.450 | 1100 | 1.583 | 69.38 | 249.7 |
| 1.05 | 12.60 | 0.3200 | 2.510 | 1126 | 1.622 | 71.08 | 255.8 |
| 1.06 | 12.72 | 0.3231 | 2.560 | 1149 | 1.655 | 72.50 | 260.9 |
| 1.07 | 12.84 | 0.3261 | 2.620 | 1176 | 1.693 | 74.20 | 267.0 |
| 1.08 | 12.96 | 0.3292 | 2.670 | 1198 | 1.726 | 75.61 | 272.1 |
| 1.09 | 13.08 | 0.3322 | 2.730 | 1225 | 1.764 | 77.31 | 278.2 |
| 1.10 | 13.20 | 0.3353 | 2.780 | 1248 | 1.797 | 78.73 | 283.3 |
| 1.11 | 13.32 | 0.3383 | 2.840 | 1275 | 1.835 | 80.43 | 289.4 |
| 1.12 | 13.44 | 0.3414 | 2.900 | 1302 | 1.874 | 82.13 | 295.5 |
| 1.13 | 13.56 | 0.3444 | 2.960 | 1328 | 1.913 | 83.83 | 301.6 |
| 1.14 | 13.68 | 0.3475 | 3.020 | 1355 | 1.952 | 85.53 | 307.7 |
| 1.15 | 13.80 | 0.3505 | 3.080 | 1382 | 1.991 | 87.23 | 313.9 |
| 1.16 | 13.92 | 0.3536 | 3.140 | 1409 | 2.029 | 88.92 | 320.0 |
| 1.17 | 14.04 | 0.3566 | 3.200 | 1436 | 2.068 | 90.62 | 326.1 |
| 1.18 | 14.16 | 0.3597 | 3.260 | 1463 | 2.107 | 92.32 | 332.2 |
| 1.19 | 14.28 | 0.3627 | 3.320 | 1490 | 2.146 | 94.02 | 338.3 |
| 1.20 | 14.40 | 0.3658 | 3.380 | 1517 | 2.184 | 95.72 | 344.4 |
| 1.21 | 14.52 | 0.3688 | 3.450 | 1548 | 2.230 | 97.70 | 351.6 |
| 1.22 | 14.64 | 0.3719 | 3.510 | 1575 | 2.269 | 99.40 | 357.7 |
| 1.23 | 14.76 | 0.3749 | 3.580 | 1607 | 2.314 | 101.4 | 364.8 |
| 1.24 | 14.88 | 0.3780 | 3.650 | 1638 | 2.359 | 103.4 | 371.9 |
| 1.25 | 15.00 | 0.3810 | 3.710 | 1665 | 2.398 | 105.1 | 378.0 |
| 1.26 | 15.12 | 0.3840 | 3.780 | 1696 | 2.443 | 107.0 | 385.2 |
| 1.27 | 15.24 | 0.3871 | 3.850 | 1728 | 2.488 | 109.0 | 392.3 |
| 1.28 | 15.36 | 0.3901 | 3.920 | 1759 | 2.533 | 111.0 | 399.4 |
| 1.29 | 15.48 | 0.3932 | 3.990 | 1791 | 2.579 | 113.0 | 406.6 |
| 1.30 | 15.60 | 0.3962 | 4.060 | 1822 | 2.624 | 115.0 | 413.7 |

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| FEET | INCHES | METERS | CFS | GPM | MGD | L/S | M3/HR |
|---|---|---|---|---|---|---|---|
| 1.31 | 15.72 | 0.3993 | 4.130 | 1854 | 2.669 | 117.0 | 420.8 |
| 1.32 | 15.84 | 0.4023 | 4.200 | 1885 | 2.714 | 118.9 | 428.0 |
| 1.33 | 15.96 | 0.4054 | 4.280 | 1921 | 2.766 | 121.2 | 436.1 |
| 1.34 | 16.08 | 0.4084 | 4.350 | 1952 | 2.811 | 123.2 | 443.3 |
| 1.35 | 16.20 | 0.4115 | 4.430 | 1988 | 2.863 | 125.5 | 451.4 |
| 1.36 | 16.32 | 0.4145 | 4.500 | 2020 | 2.908 | 127.4 | 458.6 |
| 1.37 | 16.44 | 0.4176 | 4.580 | 2056 | 2.960 | 129.7 | 466.7 |
| 1.38 | 16.56 | 0.4206 | 4.660 | 2091 | 3.012 | 132.0 | 474.9 |
| 1.39 | 16.68 | 0.4237 | 4.740 | 2127 | 3.063 | 134.2 | 483.0 |
| 1.40 | 16.80 | 0.4267 | 4.820 | 2163 | 3.115 | 136.5 | 491.2 |
| 1.41 | 16.92 | 0.4298 | 4.900 | 2199 | 3.167 | 138.8 | 499.3 |
| 1.42 | 17.04 | 0.4328 | 4.980 | 2235 | 3.219 | 141.0 | 507.5 |
| 1.43 | 17.16 | 0.4359 | 5.060 | 2271 | 3.270 | 143.3 | 515.6 |
| 1.44 | 17.28 | 0.4389 | 5.140 | 2307 | 3.322 | 145.6 | 523.8 |
| 1.45 | 17.40 | 0.4420 | 5.230 | 2347 | 3.380 | 148.1 | 532.9 |
| 1.46 | 17.52 | 0.4450 | 5.310 | 2383 | 3.432 | 150.4 | 541.1 |
| 1.47 | 17.64 | 0.4481 | 5.400 | 2424 | 3.490 | 152.9 | 550.3 |
| 1.48 | 17.76 | 0.4511 | 5.480 | 2459 | 3.542 | 155.2 | 558.4 |
| 1.49 | 17.88 | 0.4542 | 5.570 | 2500 | 3.600 | 157.7 | 567.6 |
| 1.50 | 18.00 | 0.4572 | 5.650 | 2536 | 3.652 | 160.0 | 575.7 |
| 1.51 | 18.12 | 0.4602 | 5.740 | 2576 | 3.710 | 162.6 | 584.9 |
| 1.52 | 18.24 | 0.4633 | 5.830 | 2617 | 3.768 | 165.1 | 594.1 |
| 1.53 | 18.36 | 0.4663 | 5.920 | 2657 | 3.826 | 167.7 | 603.2 |
| 1.54 | 18.48 | 0.4694 | 6.010 | 2697 | 3.884 | 170.2 | 612.4 |
| 1.55 | 18.60 | 0.4724 | 6.110 | 2742 | 3.949 | 173.0 | 622.6 |
| 1.56 | 18.72 | 0.4755 | 6.200 | 2783 | 4.007 | 175.6 | 631.8 |
| 1.57 | 18.84 | 0.4785 | 6.290 | 2823 | 4.065 | 178.1 | 641.0 |
| 1.58 | 18.96 | 0.4816 | 6.380 | 2863 | 4.123 | 180.7 | 650.1 |
| 1.59 | 19.08 | 0.4846 | 6.480 | 2908 | 4.188 | 183.5 | 660.3 |
| 1.60 | 19.20 | 0.4877 | 6.580 | 2953 | 4.253 | 186.3 | 670.5 |
| 1.61 | 19.32 | 0.4907 | 6.670 | 2993 | 4.311 | 188.9 | 679.7 |
| 1.62 | 19.44 | 0.4938 | 6.770 | 3038 | 4.375 | 191.7 | 689.9 |
| 1.63 | 19.56 | 0.4968 | 6.870 | 3083 | 4.440 | 194.6 | 700.1 |
| 1.64 | 19.68 | 0.4999 | 6.970 | 3128 | 4.505 | 197.4 | 710.2 |
| 1.65 | 19.80 | 0.5029 | 7.070 | 3173 | 4.569 | 200.2 | 720.4 |
| 1.66 | 19.92 | 0.5060 | 7.170 | 3218 | 4.634 | 203.1 | 730.6 |
| 1.67 | 20.04 | 0.5090 | 7.270 | 3263 | 4.699 | 205.9 | 740.8 |
| 1.68 | 20.16 | 0.5121 | 7.370 | 3308 | 4.763 | 208.7 | 751.0 |
| 1.69 | 20.28 | 0.5151 | 7.470 | 3353 | 4.828 | 211.6 | 761.2 |
| 1.70 | 20.40 | 0.5182 | 7.580 | 3402 | 4.899 | 214.7 | 772.4 |
| 1.71 | 20.52 | 0.5212 | 7.680 | 3447 | 4.964 | 217.5 | 782.6 |
| 1.72 | 20.64 | 0.5243 | 7.790 | 3496 | 5.035 | 220.6 | 793.8 |
| 1.73 | 20.76 | 0.5273 | 7.900 | 3546 | 5.106 | 223.7 | 805.0 |
| 1.74 | 20.88 | 0.5304 | 8.000 | 3590 | 5.170 | 226.6 | 815.2 |
| 1.75 | 21.00 | 0.5334 | 8.110 | 3640 | 5.241 | 229.7 | 826.4 |
| 1.76 | 21.12 | 0.5364 | 8.220 | 3689 | 5.313 | 232.8 | 837.6 |
| 1.77 | 21.24 | 0.5395 | 8.330 | 3739 | 5.384 | 235.9 | 848.8 |
| 1.78 | 21.36 | 0.5425 | 8.440 | 3788 | 5.455 | 239.0 | 860.0 |
| 1.79 | 21.48 | 0.5456 | 8.560 | 3842 | 5.532 | 242.4 | 872.3 |
| 1.80 | 21.60 | 0.5486 | 8.670 | 3891 | 5.603 | 245.5 | 883.5 |

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| FEET | INCHES | METERS | CFS | GPM | MGD | L/S | M3/HR |
|---|---|---|---|---|---|---|---|
| 1.81 | 21.72 | 0.5517 | 8.780 | 3940 | 5.675 | 248.6 | 894.7 |
| 1.82 | 21.84 | 0.5547 | 8.900 | 3994 | 5.752 | 252.0 | 906.9 |
| 1.83 | 21.96 | 0.5578 | 9.010 | 4044 | 5.823 | 255.2 | 918.1 |
| 1.84 | 22.08 | 0.5608 | 9.130 | 4098 | 5.901 | 258.6 | 930.3 |
| 1.85 | 22.20 | 0.5639 | 9.240 | 4147 | 5.972 | 261.7 | 941.6 |
| 1.86 | 22.32 | 0.5669 | 9.360 | 4201 | 6.049 | 265.1 | 953.8 |
| 1.87 | 22.44 | 0.5700 | 9.480 | 4255 | 6.127 | 268.5 | 966.0 |
| 1.88 | 22.56 | 0.5730 | 9.600 | 4308 | 6.204 | 271.9 | 978.2 |
| 1.89 | 22.68 | 0.5761 | 9.720 | 4362 | 6.282 | 275.3 | 990.5 |
| 1.90 | 22.80 | 0.5791 | 9.850 | 4421 | 6.366 | 279.0 | 1004 |
| 1.91 | 22.92 | 0.5822 | 9.970 | 4475 | 6.444 | 282.4 | 1016 |
| 1.92 | 23.04 | 0.5852 | 10.09 | 4528 | 6.521 | 285.7 | 1028 |
| 1.93 | 23.16 | 0.5883 | 10.21 | 4582 | 6.599 | 289.1 | 1040 |
| 1.94 | 23.28 | 0.5913 | 10.34 | 4641 | 6.683 | 292.8 | 1054 |
| 1.95 | 23.40 | 0.5944 | 10.47 | 4699 | 6.767 | 296.5 | 1067 |
| 1.96 | 23.52 | 0.5974 | 10.60 | 4757 | 6.851 | 300.2 | 1080 |
| 1.97 | 23.64 | 0.6005 | 10.72 | 4811 | 6.928 | 303.6 | 1092 |
| 1.98 | 23.76 | 0.6035 | 10.85 | 4869 | 7.012 | 307.3 | 1106 |
| 1.99 | 23.88 | 0.6066 | 10.98 | 4928 | 7.096 | 311.0 | 1119 |

Source: Field Manual for Research in Agricultural Hydrology, Agriculture Handbook No. 224, U.S. Department of Agriculture, February 1972