



Discharge Table For 42" Montana Flume

770.664.6513 (V) 770.664.6565 (F)

Document: MON42-D-T Rev.: 1 Date: May 11, 2001 By: Jon Wachter

| LEVEL | | FLOW | | |
|-------|--------|------|-------|-------|
| FEET | INCHES | CFS | GPM | MGD |
| 0.01 | 0.12 | | | |
| 0.02 | 0.24 | | | |
| 0.03 | 0.36 | | | |
| 0.04 | 0.48 | | | |
| 0.05 | 0.60 | | | |
| 0.06 | 0.72 | | | |
| 0.07 | 0.84 | | | |
| 0.08 | 0.96 | | | |
| 0.09 | 1.08 | | | |
| 0.10 | 1.20 | | | |
| 0.11 | 1.32 | | | |
| 0.12 | 1.44 | | | |
| 0.13 | 1.56 | | | |
| 0.14 | 1.68 | | | |
| 0.15 | 1.80 | | | |
| 0.16 | 1.92 | | | |
| 0.17 | 2.04 | | | |
| 0.18 | 2.16 | | | |
| 0.19 | 2.28 | | | |
| 0.20 | 2.40 | 1.11 | 500.2 | 0.720 |
| 0.21 | 2.52 | 1.20 | 540.1 | 0.778 |
| 0.22 | 2.64 | 1.29 | 581.0 | 0.837 |
| 0.23 | 2.76 | 1.39 | 623.1 | 0.897 |
| 0.24 | 2.88 | 1.48 | 666.2 | 0.959 |
| 0.25 | 3.00 | 1.58 | 710.4 | 1.023 |
| 0.26 | 3.12 | 1.68 | 755.6 | 1.088 |
| 0.27 | 3.24 | 1.79 | 801.8 | 1.155 |
| 0.28 | 3.36 | 1.89 | 849.0 | 1.223 |
| 0.29 | 3.48 | 2.00 | 897 | 1.292 |
| 0.30 | 3.60 | 2.11 | 946 | 1.363 |
| 0.31 | 3.72 | 2.22 | 996 | 1.435 |
| 0.32 | 3.84 | 2.33 | 1047 | 1.508 |
| 0.33 | 3.96 | 2.45 | 1099 | 1.583 |
| 0.34 | 4.08 | 2.57 | 1152 | 1.659 |
| 0.35 | 4.20 | 2.69 | 1206 | 1.736 |
| 0.36 | 4.32 | 2.81 | 1260 | 1.815 |
| 0.37 | 4.44 | 2.93 | 1316 | 1.895 |
| 0.38 | 4.56 | 3.06 | 1372 | 1.976 |
| 0.39 | 4.68 | 3.19 | 1429 | 2.059 |
| 0.40 | 4.80 | 3.31 | 1488 | 2.142 |
| 0.41 | 4.92 | 3.45 | 1546 | 2.227 |
| 0.42 | 5.04 | 3.58 | 1606 | 2.313 |
| 0.43 | 5.16 | 3.71 | 1667 | 2.400 |
| 0.44 | 5.28 | 3.85 | 1728 | 2.488 |
| 0.45 | 5.40 | 3.99 | 1790 | 2.578 |
| 0.46 | 5.52 | 4.13 | 1853 | 2.669 |
| 0.47 | 5.64 | 4.27 | 1917 | 2.760 |
| 0.48 | 5.76 | 4.41 | 1981 | 2.853 |
| 0.49 | 5.88 | 4.56 | 2047 | 2.947 |
| 0.50 | 6.00 | 4.71 | 2113 | 3.042 |

| LEVEL | | FLOW | | |
|-------|--------|-------|------|-------|
| FEET | INCHES | CFS | GPM | MGD |
| 0.51 | 6.12 | 4.86 | 2180 | 3.139 |
| 0.52 | 6.24 | 5.01 | 2247 | 3.236 |
| 0.53 | 6.36 | 5.16 | 2315 | 3.334 |
| 0.54 | 6.48 | 5.31 | 2385 | 3.434 |
| 0.55 | 6.60 | 5.47 | 2454 | 3.534 |
| 0.56 | 6.72 | 5.63 | 2525 | 3.636 |
| 0.57 | 6.84 | 5.78 | 2596 | 3.739 |
| 0.58 | 6.96 | 5.94 | 2668 | 3.842 |
| 0.59 | 7.08 | 6.11 | 2741 | 3.947 |
| 0.60 | 7.20 | 6.27 | 2814 | 4.053 |
| 0.61 | 7.32 | 6.44 | 2888 | 4.159 |
| 0.62 | 7.44 | 6.60 | 2963 | 4.267 |
| 0.63 | 7.56 | 6.77 | 3039 | 4.376 |
| 0.64 | 7.68 | 6.94 | 3115 | 4.485 |
| 0.65 | 7.80 | 7.11 | 3192 | 4.596 |
| 0.66 | 7.92 | 7.28 | 3269 | 4.708 |
| 0.67 | 8.04 | 7.46 | 3347 | 4.820 |
| 0.68 | 8.16 | 7.63 | 3426 | 4.934 |
| 0.69 | 8.28 | 7.81 | 3506 | 5.049 |
| 0.70 | 8.40 | 7.99 | 3586 | 5.164 |
| 0.71 | 8.52 | 8.17 | 3667 | 5.281 |
| 0.72 | 8.64 | 8.35 | 3748 | 5.398 |
| 0.73 | 8.76 | 8.54 | 3831 | 5.516 |
| 0.74 | 8.88 | 8.72 | 3913 | 5.636 |
| 0.75 | 9.00 | 8.91 | 3997 | 5.756 |
| 0.76 | 9.12 | 9.09 | 4081 | 5.877 |
| 0.77 | 9.24 | 9.28 | 4166 | 5.999 |
| 0.78 | 9.36 | 9.47 | 4251 | 6.122 |
| 0.79 | 9.48 | 9.66 | 4337 | 6.246 |
| 0.80 | 9.60 | 9.86 | 4424 | 6.371 |
| 0.81 | 9.72 | 10.05 | 4511 | 6.496 |
| 0.82 | 9.84 | 10.25 | 4599 | 6.623 |
| 0.83 | 9.96 | 10.44 | 4687 | 6.750 |
| 0.84 | 10.08 | 10.64 | 4777 | 6.879 |
| 0.85 | 10.20 | 10.84 | 4866 | 7.008 |
| 0.86 | 10.32 | 11.04 | 4957 | 7.138 |
| 0.87 | 10.44 | 11.25 | 5048 | 7.269 |
| 0.88 | 10.56 | 11.45 | 5139 | 7.401 |
| 0.89 | 10.68 | 11.66 | 5231 | 7.533 |
| 0.90 | 10.80 | 11.86 | 5324 | 7.667 |
| 0.91 | 10.92 | 12.07 | 5417 | 7.801 |
| 0.92 | 11.04 | 12.28 | 5511 | 7.936 |
| 0.93 | 11.16 | 12.49 | 5606 | 8.072 |
| 0.94 | 11.28 | 12.70 | 5701 | 8.209 |
| 0.95 | 11.40 | 12.92 | 5796 | 8.347 |
| 0.96 | 11.52 | 13.13 | 5893 | 8.486 |
| 0.97 | 11.64 | 13.35 | 5989 | 8.625 |
| 0.98 | 11.76 | 13.56 | 6087 | 8.765 |
| 0.99 | 11.88 | 13.78 | 6185 | 8.906 |
| 1.00 | 12.00 | 14.00 | 6283 | 9.048 |

Source: United States Department of the Interior, Bureau of Reclamation, Water Measurement Manual, Third Edition, pp. A-17 - A-22, interpolation between 36" and 48".

This table is believed to be accurate, but is not warranted so.



Discharge Table For 42" Montana Flume

770.664.6513 (V) 770.664.6906 (F)

| LEVEL | | FLOW | | |
|-------|--------|-------|-------|--------|
| FEET | INCHES | CFS | GPM | MGD |
| 1.01 | 12.12 | 14.22 | 6382 | 9.191 |
| 1.02 | 12.24 | 14.44 | 6482 | 9.334 |
| 1.03 | 12.36 | 14.67 | 6582 | 9.479 |
| 1.04 | 12.48 | 14.89 | 6683 | 9.624 |
| 1.05 | 12.60 | 15.12 | 6784 | 9.770 |
| 1.06 | 12.72 | 15.34 | 6886 | 9.916 |
| 1.07 | 12.84 | 15.57 | 6988 | 10.064 |
| 1.08 | 12.96 | 15.80 | 7091 | 10.212 |
| 1.09 | 13.08 | 16.03 | 7195 | 10.361 |
| 1.10 | 13.20 | 16.26 | 7299 | 10.511 |
| 1.11 | 13.32 | 16.50 | 7404 | 10.662 |
| 1.12 | 13.44 | 16.73 | 7509 | 10.813 |
| 1.13 | 13.56 | 16.97 | 7614 | 10.965 |
| 1.14 | 13.68 | 17.20 | 7721 | 11.118 |
| 1.15 | 13.80 | 17.44 | 7827 | 11.272 |
| 1.16 | 13.92 | 17.68 | 7935 | 11.427 |
| 1.17 | 14.04 | 17.92 | 8043 | 11.582 |
| 1.18 | 14.16 | 18.16 | 8151 | 11.738 |
| 1.19 | 14.28 | 18.40 | 8260 | 11.895 |
| 1.20 | 14.40 | 18.65 | 8369 | 12.052 |
| 1.21 | 14.52 | 18.89 | 8479 | 12.210 |
| 1.22 | 14.64 | 19.14 | 8590 | 12.370 |
| 1.23 | 14.76 | 19.39 | 8701 | 12.529 |
| 1.24 | 14.88 | 19.63 | 8812 | 12.690 |
| 1.25 | 15.00 | 19.88 | 8924 | 12.851 |
| 1.26 | 15.12 | 20.13 | 9037 | 13.013 |
| 1.27 | 15.24 | 20.39 | 9150 | 13.176 |
| 1.28 | 15.36 | 20.64 | 9263 | 13.339 |
| 1.29 | 15.48 | 20.89 | 9377 | 13.504 |
| 1.30 | 15.60 | 21.15 | 9492 | 13.669 |
| 1.31 | 15.72 | 21.41 | 9607 | 13.834 |
| 1.32 | 15.84 | 21.66 | 9722 | 14.001 |
| 1.33 | 15.96 | 21.92 | 9838 | 14.168 |
| 1.34 | 16.08 | 22.18 | 9955 | 14.336 |
| 1.35 | 16.20 | 22.44 | 10072 | 14.504 |
| 1.36 | 16.32 | 22.70 | 10190 | 14.674 |
| 1.37 | 16.44 | 22.97 | 10308 | 14.844 |
| 1.38 | 16.56 | 23.23 | 10426 | 15.014 |
| 1.39 | 16.68 | 23.50 | 10545 | 15.186 |
| 1.40 | 16.80 | 23.76 | 10665 | 15.358 |
| 1.41 | 16.92 | 24.03 | 10785 | 15.531 |
| 1.42 | 17.04 | 24.30 | 10905 | 15.704 |
| 1.43 | 17.16 | 24.57 | 11026 | 15.879 |
| 1.44 | 17.28 | 24.84 | 11148 | 16.054 |
| 1.45 | 17.40 | 25.11 | 11270 | 16.229 |
| 1.46 | 17.52 | 25.38 | 11392 | 16.405 |
| 1.47 | 17.64 | 25.66 | 11515 | 16.583 |
| 1.48 | 17.76 | 25.93 | 11639 | 16.760 |
| 1.49 | 17.88 | 26.21 | 11762 | 16.939 |
| 1.50 | 18.00 | 26.49 | 11887 | 17.118 |

| LEVEL | | FLOW | | |
|-------|--------|-------|-------|--------|
| FEET | INCHES | CFS | GPM | MGD |
| 1.51 | 18.12 | 26.76 | 12012 | 17.298 |
| 1.52 | 18.24 | 27.04 | 12137 | 17.478 |
| 1.53 | 18.36 | 27.32 | 12263 | 17.659 |
| 1.54 | 18.48 | 27.60 | 12389 | 17.841 |
| 1.55 | 18.60 | 27.89 | 12516 | 18.023 |
| 1.56 | 18.72 | 28.17 | 12643 | 18.207 |
| 1.57 | 18.84 | 28.46 | 12771 | 18.390 |
| 1.58 | 18.96 | 28.74 | 12899 | 18.575 |
| 1.59 | 19.08 | 29.03 | 13027 | 18.760 |
| 1.60 | 19.20 | 29.31 | 13156 | 18.946 |
| 1.61 | 19.32 | 29.60 | 13286 | 19.133 |
| 1.62 | 19.44 | 29.89 | 13416 | 19.320 |
| 1.63 | 19.56 | 30.18 | 13546 | 19.508 |
| 1.64 | 19.68 | 30.48 | 13677 | 19.696 |
| 1.65 | 19.80 | 30.77 | 13809 | 19.885 |
| 1.66 | 19.92 | 31.06 | 13940 | 20.075 |
| 1.67 | 20.04 | 31.36 | 14073 | 20.266 |
| 1.68 | 20.16 | 31.65 | 14205 | 20.457 |
| 1.69 | 20.28 | 31.95 | 14339 | 20.649 |
| 1.70 | 20.40 | 32.25 | 14472 | 20.841 |
| 1.71 | 20.52 | 32.55 | 14606 | 21.034 |
| 1.72 | 20.64 | 32.85 | 14741 | 21.228 |
| 1.73 | 20.76 | 33.15 | 14876 | 21.422 |
| 1.74 | 20.88 | 33.45 | 15011 | 21.617 |
| 1.75 | 21.00 | 33.75 | 15147 | 21.813 |
| 1.76 | 21.12 | 34.05 | 15283 | 22.009 |
| 1.77 | 21.24 | 34.36 | 15420 | 22.206 |
| 1.78 | 21.36 | 34.66 | 15557 | 22.404 |
| 1.79 | 21.48 | 34.97 | 15695 | 22.602 |
| 1.80 | 21.60 | 35.28 | 15833 | 22.801 |
| 1.81 | 21.72 | 35.59 | 15972 | 23.000 |
| 1.82 | 21.84 | 35.90 | 16111 | 23.200 |
| 1.83 | 21.96 | 36.21 | 16250 | 23.401 |
| 1.84 | 22.08 | 36.52 | 16390 | 23.603 |
| 1.85 | 22.20 | 36.83 | 16530 | 23.805 |
| 1.86 | 22.32 | 37.15 | 16671 | 24.007 |
| 1.87 | 22.44 | 37.46 | 16812 | 24.210 |
| 1.88 | 22.56 | 37.78 | 16954 | 24.414 |
| 1.89 | 22.68 | 38.09 | 17096 | 24.619 |
| 1.90 | 22.80 | 38.41 | 17238 | 24.824 |
| 1.91 | 22.92 | 38.73 | 17381 | 25.030 |
| 1.92 | 23.04 | 39.05 | 17524 | 25.236 |
| 1.93 | 23.16 | 39.37 | 17668 | 25.443 |
| 1.94 | 23.28 | 39.69 | 17812 | 25.651 |
| 1.95 | 23.40 | 40.01 | 17957 | 25.859 |
| 1.96 | 23.52 | 40.33 | 18102 | 26.068 |
| 1.97 | 23.64 | 40.66 | 18247 | 26.277 |
| 1.98 | 23.76 | 40.98 | 18393 | 26.487 |
| 1.99 | 23.88 | 41.31 | 18539 | 26.698 |
| 2.00 | 24.00 | 41.64 | 18686 | 26.909 |

Source: United States Department of the Interior, Bureau of Reclamation, Water Measurement Manual, Third Edition, pp. A-17 - A-22, interpolation between 36" and 48".

This table is believed to be accurate, but is not warranted so.



770.664.6513 (V) 770.664.6565 (F)

Discharge Table For 42" Montana Flume

| LEVEL | | FLOW | | |
|-------|--------|-------|-------|--------|
| FEET | INCHES | CFS | GPM | MGD |
| 2.01 | 24.12 | 41.96 | 18833 | 27.121 |
| 2.02 | 24.24 | 42.29 | 18981 | 27.333 |
| 2.03 | 24.36 | 42.62 | 19129 | 27.546 |
| 2.04 | 24.48 | 42.95 | 19277 | 27.760 |
| 2.05 | 24.60 | 43.28 | 19426 | 27.974 |
| 2.06 | 24.72 | 43.62 | 19575 | 28.189 |
| 2.07 | 24.84 | 43.95 | 19725 | 28.405 |
| 2.08 | 24.96 | 44.28 | 19875 | 28.621 |
| 2.09 | 25.08 | 44.62 | 20025 | 28.837 |
| 2.10 | 25.20 | 44.96 | 20176 | 29.055 |
| 2.11 | 25.32 | 45.29 | 20327 | 29.273 |
| 2.12 | 25.44 | 45.63 | 20479 | 29.491 |
| 2.13 | 25.56 | 45.97 | 20631 | 29.710 |
| 2.14 | 25.68 | 46.31 | 20784 | 29.930 |
| 2.15 | 25.80 | 46.65 | 20936 | 30.150 |
| 2.16 | 25.92 | 46.99 | 21090 | 30.371 |
| 2.17 | 26.04 | 47.33 | 21244 | 30.592 |
| 2.18 | 26.16 | 47.68 | 21398 | 30.814 |
| 2.19 | 26.28 | 48.02 | 21552 | 31.037 |
| 2.20 | 26.40 | 48.37 | 21707 | 31.260 |
| 2.21 | 26.52 | 48.71 | 21863 | 31.483 |
| 2.22 | 26.64 | 49.06 | 22018 | 31.708 |
| 2.23 | 26.76 | 49.41 | 22174 | 31.933 |
| 2.24 | 26.88 | 49.76 | 22331 | 32.158 |
| 2.25 | 27.00 | 50.11 | 22488 | 32.384 |
| 2.26 | 27.12 | 50.46 | 22645 | 32.611 |
| 2.27 | 27.24 | 50.81 | 22803 | 32.838 |
| 2.28 | 27.36 | 51.16 | 22961 | 33.066 |
| 2.29 | 27.48 | 51.51 | 23120 | 33.294 |
| 2.30 | 27.60 | 51.87 | 23279 | 33.523 |
| 2.31 | 27.72 | 52.22 | 23438 | 33.752 |
| 2.32 | 27.84 | 52.58 | 23598 | 33.982 |
| 2.33 | 27.96 | 52.94 | 23758 | 34.213 |
| 2.34 | 28.08 | 53.29 | 23918 | 34.444 |
| 2.35 | 28.20 | 53.65 | 24079 | 34.676 |
| 2.36 | 28.32 | 54.01 | 24241 | 34.908 |
| 2.37 | 28.44 | 54.37 | 24402 | 35.141 |
| 2.38 | 28.56 | 54.73 | 24564 | 35.374 |
| 2.39 | 28.68 | 55.10 | 24727 | 35.608 |
| 2.40 | 28.80 | 55.46 | 24890 | 35.843 |
| 2.41 | 28.92 | 55.82 | 25053 | 36.078 |
| 2.42 | 29.04 | 56.19 | 25217 | 36.314 |
| 2.43 | 29.16 | 56.55 | 25381 | 36.550 |
| 2.44 | 29.28 | 56.92 | 25545 | 36.787 |
| 2.45 | 29.40 | 57.29 | 25710 | 37.024 |
| 2.46 | 29.52 | 57.65 | 25875 | 37.262 |
| 2.47 | 29.64 | 58.02 | 26041 | 37.500 |
| 2.48 | 29.76 | 58.39 | 26207 | 37.739 |
| 2.49 | 29.88 | 58.76 | 26373 | 37.979 |
| 2.50 | 30.00 | 59.14 | 26540 | 38.219 |

Source: United States Department of the Interior, Bureau of Reclamation, [Water Measurement Manual](#), Third Edition, pp. A-17 - A-22, interpolation between 36" and 48".

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