



770.664.6513 (V) 770.664.6565 (F)

Discharge Table For 12" W x 54" L Cutthroat Flume

Document: C-12-54-D-T Rev.: 0 Date: 5-26-00 By: Matt Kazmier

| 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 | 0.0758 | 34.04 | 0.0490 |
| 0.11 | 1.32 | 0.0893 | 40.10 | 0.0577 |
| 0.12 | 1.44 | 0.1038 | 46.57 | 0.0671 |
| 0.13 | 1.56 | 0.1191 | 53.45 | 0.0770 |
| 0.14 | 1.68 | 0.1353 | 60.71 | 0.0874 |
| 0.15 | 1.80 | 0.1523 | 68.36 | 0.0984 |
| 0.16 | 1.92 | 0.1702 | 76.39 | 0.1100 |
| 0.17 | 2.04 | 0.1889 | 84.78 | 0.1221 |
| 0.18 | 2.16 | 0.2084 | 93.54 | 0.1347 |
| 0.19 | 2.28 | 0.2287 | 102.7 | 0.1478 |
| 0.20 | 2.40 | 0.2498 | 112.1 | 0.1615 |
| 0.21 | 2.52 | 0.2717 | 121.9 | 0.1756 |
| 0.22 | 2.64 | 0.2943 | 132.1 | 0.1902 |
| 0.23 | 2.76 | 0.3177 | 142.6 | 0.2053 |
| 0.24 | 2.88 | 0.3419 | 153.4 | 0.2209 |
| 0.25 | 3.00 | 0.3667 | 164.6 | 0.2370 |
| 0.26 | 3.12 | 0.3923 | 176.1 | 0.2536 |
| 0.27 | 3.24 | 0.4186 | 187.9 | 0.2706 |
| 0.28 | 3.36 | 0.4457 | 200.0 | 0.2880 |
| 0.29 | 3.48 | 0.4734 | 212.5 | 0.3059 |
| 0.30 | 3.60 | 0.5018 | 225.2 | 0.3243 |
| 0.31 | 3.72 | 0.5309 | 238.3 | 0.3431 |
| 0.32 | 3.84 | 0.5607 | 251.6 | 0.3624 |
| 0.33 | 3.96 | 0.5912 | 265.3 | 0.3821 |
| 0.34 | 4.08 | 0.6223 | 279.3 | 0.4022 |
| 0.35 | 4.20 | 0.6542 | 293.6 | 0.4228 |
| 0.36 | 4.32 | 0.6866 | 308.2 | 0.4438 |
| 0.37 | 4.44 | 0.7198 | 323.0 | 0.4652 |
| 0.38 | 4.56 | 0.7535 | 338.2 | 0.4870 |
| 0.39 | 4.68 | 0.7880 | 353.6 | 0.5093 |
| 0.40 | 4.80 | 0.8231 | 369.4 | 0.5319 |
| 0.41 | 4.92 | 0.8588 | 385.4 | 0.5550 |
| 0.42 | 5.04 | 0.8951 | 401.7 | 0.5785 |
| 0.43 | 5.16 | 0.9321 | 418.3 | 0.6024 |
| 0.44 | 5.28 | 0.9697 | 435.2 | 0.6267 |
| 0.45 | 5.40 | 1.008 | 452.3 | 0.6514 |
| 0.46 | 5.52 | 1.047 | 469.8 | 0.6765 |
| 0.47 | 5.64 | 1.086 | 487.5 | 0.7020 |
| 0.48 | 5.76 | 1.126 | 505.4 | 0.7279 |
| 0.49 | 5.88 | 1.167 | 523.7 | 0.7541 |
| 0.50 | 6.00 | 1.208 | 542.2 | 0.7808 |

| LEVEL | | FLOW | | |
|-------|--------|-------|-------|-------|
| FEET | INCHES | CFS | GPM | MGD |
| 0.51 | 6.12 | 1.250 | 561.0 | 0.808 |
| 0.52 | 6.24 | 1.292 | 580.0 | 0.835 |
| 0.53 | 6.36 | 1.335 | 599.4 | 0.863 |
| 0.54 | 6.48 | 1.379 | 618.9 | 0.891 |
| 0.55 | 6.60 | 1.423 | 638.8 | 0.920 |
| 0.56 | 6.72 | 1.468 | 658.9 | 0.949 |
| 0.57 | 6.84 | 1.514 | 679.3 | 0.978 |
| 0.58 | 6.96 | 1.559 | 699.9 | 1.008 |
| 0.59 | 7.08 | 1.606 | 720.8 | 1.038 |
| 0.60 | 7.20 | 1.653 | 741.9 | 1.068 |
| 0.61 | 7.32 | 1.701 | 763.3 | 1.099 |
| 0.62 | 7.44 | 1.749 | 785.0 | 1.130 |
| 0.63 | 7.56 | 1.798 | 806.9 | 1.162 |
| 0.64 | 7.68 | 1.847 | 829.0 | 1.194 |
| 0.65 | 7.80 | 1.897 | 851.4 | 1.226 |
| 0.66 | 7.92 | 1.948 | 874.1 | 1.259 |
| 0.67 | 8.04 | 1.999 | 897.0 | 1.292 |
| 0.68 | 8.16 | 2.050 | 920.1 | 1.325 |
| 0.69 | 8.28 | 2.102 | 943.5 | 1.359 |
| 0.70 | 8.40 | 2.155 | 967.2 | 1.393 |
| 0.71 | 8.52 | 2.208 | 991.1 | 1.427 |
| 0.72 | 8.64 | 2.262 | 1015 | 1.462 |
| 0.73 | 8.76 | 2.316 | 1040 | 1.497 |
| 0.74 | 8.88 | 2.371 | 1064 | 1.532 |
| 0.75 | 9.00 | 2.427 | 1089 | 1.568 |
| 0.76 | 9.12 | 2.482 | 1114 | 1.604 |
| 0.77 | 9.24 | 2.539 | 1139 | 1.641 |
| 0.78 | 9.36 | 2.596 | 1165 | 1.678 |
| 0.79 | 9.48 | 2.653 | 1191 | 1.715 |
| 0.80 | 9.60 | 2.711 | 1217 | 1.752 |
| 0.81 | 9.72 | 2.770 | 1243 | 1.790 |
| 0.82 | 9.84 | 2.829 | 1270 | 1.828 |
| 0.83 | 9.96 | 2.889 | 1296 | 1.867 |
| 0.84 | 10.08 | 2.949 | 1323 | 1.906 |
| 0.85 | 10.20 | 3.009 | 1351 | 1.945 |
| 0.86 | 10.32 | 3.071 | 1378 | 1.985 |
| 0.87 | 10.44 | 3.132 | 1406 | 2.024 |
| 0.88 | 10.56 | 3.194 | 1434 | 2.065 |
| 0.89 | 10.68 | 3.257 | 1462 | 2.105 |
| 0.90 | 10.80 | 3.320 | 1490 | 2.146 |
| 0.91 | 10.92 | 3.384 | 1519 | 2.187 |
| 0.92 | 11.04 | 3.448 | 1548 | 2.229 |
| 0.93 | 11.16 | 3.513 | 1577 | 2.270 |
| 0.94 | 11.28 | 3.578 | 1606 | 2.313 |
| 0.95 | 11.40 | 3.644 | 1635 | 2.355 |
| 0.96 | 11.52 | 3.710 | 1665 | 2.398 |
| 0.97 | 11.64 | 3.777 | 1695 | 2.441 |
| 0.98 | 11.76 | 3.844 | 1725 | 2.484 |
| 0.99 | 11.88 | 3.912 | 1756 | 2.528 |
| 1.00 | 12.00 | 3.980 | 1786 | 2.572 |



770.664.6513 (V) 770.664.6906 (F)

**Discharge Table
For
12" W x 54" L Cutthroat Flume**

| LEVEL | | FLOW | | |
|-------|--------|-------|------|-------|
| FEET | INCHES | CFS | GPM | MGD |
| 1.01 | 12.12 | 4.049 | 1817 | 2.617 |
| 1.02 | 12.24 | 4.118 | 1848 | 2.661 |
| 1.03 | 12.36 | 4.188 | 1879 | 2.706 |
| 1.04 | 12.48 | 4.258 | 1911 | 2.752 |
| 1.05 | 12.60 | 4.328 | 1943 | 2.797 |
| 1.06 | 12.72 | 4.400 | 1975 | 2.843 |
| 1.07 | 12.84 | 4.471 | 2007 | 2.890 |
| 1.08 | 12.96 | 4.543 | 2039 | 2.936 |
| 1.09 | 13.08 | 4.616 | 2072 | 2.983 |
| 1.10 | 13.20 | 4.689 | 2104 | 3.030 |
| 1.11 | 13.32 | 4.763 | 2137 | 3.078 |
| 1.12 | 13.44 | 4.837 | 2171 | 3.126 |
| 1.13 | 13.56 | 4.911 | 2204 | 3.174 |
| 1.14 | 13.68 | 4.986 | 2238 | 3.223 |
| 1.15 | 13.80 | 5.062 | 2272 | 3.271 |
| 1.16 | 13.92 | 5.137 | 2306 | 3.320 |
| 1.17 | 14.04 | 5.214 | 2340 | 3.370 |
| 1.18 | 14.16 | 5.291 | 2375 | 3.419 |
| 1.19 | 14.28 | 5.368 | 2409 | 3.469 |
| 1.20 | 14.40 | 5.446 | 2444 | 3.520 |
| 1.21 | 14.52 | 5.524 | 2479 | 3.570 |
| 1.22 | 14.64 | 5.603 | 2515 | 3.621 |
| 1.23 | 14.76 | 5.682 | 2550 | 3.672 |
| 1.24 | 14.88 | 5.762 | 2586 | 3.724 |
| 1.25 | 15.00 | 5.842 | 2622 | 3.776 |
| 1.26 | 15.12 | 5.923 | 2658 | 3.828 |
| 1.27 | 15.24 | 6.004 | 2695 | 3.880 |
| 1.28 | 15.36 | 6.085 | 2731 | 3.933 |
| 1.29 | 15.48 | 6.167 | 2768 | 3.986 |
| 1.30 | 15.60 | 6.250 | 2805 | 4.039 |
| 1.31 | 15.72 | 6.333 | 2842 | 4.093 |
| 1.32 | 15.84 | 6.416 | 2880 | 4.147 |
| 1.33 | 15.96 | 6.500 | 2917 | 4.201 |
| 1.34 | 16.08 | 6.584 | 2955 | 4.255 |
| 1.35 | 16.20 | 6.669 | 2993 | 4.310 |
| 1.36 | 16.32 | 6.754 | 3031 | 4.365 |
| 1.37 | 16.44 | 6.840 | 3070 | 4.421 |
| 1.38 | 16.56 | 6.926 | 3108 | 4.476 |
| 1.39 | 16.68 | 7.012 | 3147 | 4.532 |
| 1.40 | 16.80 | 7.099 | 3186 | 4.588 |
| 1.41 | 16.92 | 7.187 | 3225 | 4.645 |
| 1.42 | 17.04 | 7.275 | 3265 | 4.702 |
| 1.43 | 17.16 | 7.363 | 3305 | 4.759 |
| 1.44 | 17.28 | 7.452 | 3344 | 4.816 |
| 1.45 | 17.40 | 7.541 | 3384 | 4.874 |
| 1.46 | 17.52 | 7.631 | 3425 | 4.932 |
| 1.47 | 17.64 | 7.721 | 3465 | 4.990 |
| 1.48 | 17.76 | 7.811 | 3506 | 5.049 |
| 1.49 | 17.88 | 7.902 | 3547 | 5.107 |
| 1.50 | 18.00 | 7.994 | 3588 | 5.166 |