



770.664.6513 (V) 770.664.6565 (F)

Discharge Table

For

8" 60° V Trapezoidal Flume

Document: TRAP-8-60-D-T Rev.: 0 Date: 9-13-2002 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			
0.11	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	0.2247	100.8	0.1452
0.21	2.52	0.2431	109.1	0.1571
0.22	2.64	0.2622	117.7	0.1695
0.23	2.76	0.2819	126.5	0.1822
0.24	2.88	0.3022	135.6	0.1953
0.25	3.00	0.3231	145.0	0.2088
0.26	3.12	0.3446	154.7	0.2227
0.27	3.24	0.3668	164.6	0.2370
0.28	3.36	0.3895	174.8	0.2517
0.29	3.48	0.4128	185.3	0.2668
0.30	3.60	0.4368	196.0	0.2823
0.31	3.72	0.4613	207.0	0.2981
0.32	3.84	0.4864	218.3	0.3144
0.33	3.96	0.5122	229.9	0.3310
0.34	4.08	0.5385	241.7	0.3481
0.35	4.20	0.5655	253.8	0.3655
0.36	4.32	0.5930	266.2	0.3833
0.37	4.44	0.6212	278.8	0.4015
0.38	4.56	0.6500	291.7	0.4201
0.39	4.68	0.6794	304.9	0.4391
0.40	4.80	0.7094	318.4	0.4585
0.41	4.92	0.7400	332.1	0.4782
0.42	5.04	0.7712	346.1	0.4984
0.43	5.16	0.8030	360.4	0.5190
0.44	5.28	0.8354	374.9	0.5399
0.45	5.40	0.8685	389.8	0.5613
0.46	5.52	0.9021	404.9	0.5831
0.47	5.64	0.9364	420.3	0.6052
0.48	5.76	0.9713	435.9	0.6278
0.49	5.88	1.007	451.9	0.6507
0.50	6.00	1.043	468.1	0.6741

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
0.51	6.12	1.080	484.6	0.6978
0.52	6.24	1.117	501.4	0.7220
0.53	6.36	1.155	518.4	0.7466
0.54	6.48	1.194	535.8	0.7715
0.55	6.60	1.233	553.4	0.7969
0.56	6.72	1.273	571.3	0.8227
0.57	6.84	1.313	589.5	0.8489
0.58	6.96	1.355	608.0	0.8755
0.59	7.08	1.396	626.7	0.9025
0.60	7.20	1.439	645.8	0.9300
0.61	7.32	1.482	665.1	0.9578
0.62	7.44	1.526	684.7	0.9861
0.63	7.56	1.570	704.6	1.015
0.64	7.68	1.615	724.8	1.044
0.65	7.80	1.661	745.3	1.073
0.66	7.92	1.707	766.1	1.103
0.67	8.04	1.754	787.2	1.134
0.68	8.16	1.802	808.5	1.164
0.69	8.28	1.850	830.2	1.196
0.70	8.40	1.899	852.1	1.227
0.71	8.52	1.948	874.4	1.259
0.72	8.64	1.999	896.9	1.292
0.73	8.76	2.049	919.8	1.325
0.74	8.88	2.101	942.9	1.358
0.75	9.00	2.153	966.3	1.392
0.76	9.12	2.206	990.1	1.426
0.77	9.24	2.260	1014	1.460
0.78	9.36	2.314	1038	1.495
0.79	9.48	2.369	1063	1.531
0.80	9.60	2.424	1088	1.567
0.81	9.72	2.480	1113	1.603
0.82	9.84	2.537	1139	1.640
0.83	9.96	2.595	1165	1.677
0.84	10.08	2.653	1191	1.715
0.85	10.20	2.712	1217	1.753
0.86	10.32	2.772	1244	1.791
0.87	10.44	2.832	1271	1.830
0.88	10.56	2.893	1298	1.870
0.89	10.68	2.955	1326	1.910
0.90	10.80	3.017	1354	1.950
0.91	10.92	3.080	1383	1.991
0.92	11.04	3.144	1411	2.032
0.93	11.16	3.209	1440	2.074
0.94	11.28	3.274	1469	2.116
0.95	11.40	3.340	1499	2.159
0.96	11.52	3.406	1529	2.202
0.97	11.64	3.474	1559	2.245
0.98	11.76	3.542	1590	2.289
0.99	11.88	3.611	1620	2.334
1.00	12.00	3.680	1652	2.378



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Discharge Table For 8" 60° V Trapezoidal Flume

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
1.01	12.12	3.7502	1683	2.424
1.02	12.24	3.8210	1715	2.470
1.03	12.36	3.8926	1747	2.516
1.04	12.48	3.9649	1779	2.563
1.05	12.60	4.0380	1812	2.610
1.06	12.72	4.1117	1845	2.657
1.07	12.84	4.1862	1879	2.706
1.08	12.96	4.2614	1913	2.754
1.09	13.08	4.3373	1947	2.803
1.10	13.20	4.4140	1981	2.853
1.11	13.32	4.4914	2016	2.903
1.12	13.44	4.5696	2051	2.953
1.13	13.56	4.6484	2086	3.004
1.14	13.68	4.7280	2122	3.056
1.15	13.80	4.8084	2158	3.108
1.16	13.92	4.8895	2194	3.160
1.17	14.04	4.9713	2231	3.213
1.18	14.16	5.0539	2268	3.266
1.19	14.28	5.1372	2306	3.320
1.20	14.40	5.2213	2343	3.375
1.21	14.52	5.3062	2381	3.429
1.22	14.64	5.3918	2420	3.485
1.23	14.76	5.4781	2459	3.540
1.24	14.88	5.5652	2498	3.597
1.25	15.00	5.6531	2537	3.654
1.26	15.12	5.7417	2577	3.711
1.27	15.24	5.8311	2617	3.769
1.28	15.36	5.9212	2657	3.827
1.29	15.48	6.0121	2698	3.886
1.30	15.60	6.1038	2739	3.945
1.31	15.72	6.1963	2781	4.005
1.32	15.84	6.2895	2823	4.065
1.33	15.96	6.3835	2865	4.126
1.34	16.08	6.4783	2907	4.187
1.35	16.20	6.5738	2950	4.249
1.36	16.32	6.6702	2994	4.311
1.37	16.44	6.7673	3037	4.374
1.38	16.56	6.8652	3081	4.437
1.39	16.68	6.9639	3125	4.501
1.40	16.80	7.0633	3170	4.565
1.41	16.92	7.1636	3215	4.630
1.42	17.04	7.2646	3260	4.695
1.43	17.16	7.3665	3306	4.761
1.44	17.28	7.4691	3352	4.827
1.45	17.40	7.5725	3399	4.894
1.46	17.52	7.6768	3445	4.961
1.47	17.64	7.7818	3492	5.029
1.48	17.76	7.8876	3540	5.098
1.49	17.88	7.9943	3588	5.167
1.50	18.00	8.1017	3636	5.236

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
1.51	18.12	8.210	3685	5.306
1.52	18.24	8.319	3734	5.377
1.53	18.36	8.429	3783	5.448
1.54	18.48	8.540	3833	5.519
1.55	18.60	8.651	3883	5.591
1.56	18.72	8.763	3933	5.664
1.57	18.84	8.876	3984	5.737
1.58	18.96	8.990	4035	5.810
1.59	19.08	9.105	4086	5.885
1.60	19.20	9.221	4138	5.959
1.61	19.32	9.337	4190	6.035
1.62	19.44	9.454	4243	6.110
1.63	19.56	9.572	4296	6.187
1.64	19.68	9.691	4349	6.263
1.65	19.80	9.811	4403	6.341
1.66	19.92	9.932	4457	6.419
1.67	20.04	10.05	4512	6.497
1.68	20.16	10.18	4567	6.576
1.69	20.28	10.30	4622	6.656
1.70	20.40	10.42	4677	6.736
1.71	20.52	10.55	4733	6.816
1.72	20.64	10.67	4790	6.898
1.73	20.76	10.80	4847	6.979
1.74	20.88	10.93	4904	7.062
1.75	21.00	11.05	4961	7.144
1.76	21.12	11.18	5019	7.228
1.77	21.24	11.31	5077	7.312
1.78	21.36	11.44	5136	7.396
1.79	21.48	11.58	5195	7.481
1.80	21.60	11.71	5254	7.567
1.81	21.72	11.84	5314	7.653
1.82	21.84	11.98	5374	7.739
1.83	21.96	12.11	5435	7.827
1.84	22.08	12.25	5496	7.915
1.85	22.20	12.38	5557	8.003
1.86	22.32	12.52	5619	8.092
1.87	22.44	12.66	5681	8.181
1.88	22.56	12.80	5744	8.271
1.89	22.68	12.94	5807	8.362
1.90	22.80	13.08	5870	8.453
1.91	22.92	13.22	5934	8.545
1.92	23.04	13.36	5998	8.637
1.93	23.16	13.51	6062	8.730
1.94	23.28	13.65	6127	8.823
1.95	23.40	13.80	6192	8.917
1.96	23.52	13.94	6258	9.012
1.97	23.64	14.09	6324	9.107
1.98	23.76	14.24	6391	9.203
1.99	23.88	14.39	6457	9.299
2.00	24.00	14.54	6525	9.396

Source: "Water Measurement in Small Irrigation Channels Using Trapezoidal Flumes," *Transactions of the ASCE*, (1966), pp. 382-385, 388.



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**Discharge Table
For
8" 60° V Trapezoidal Flume**

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
2.01	24.12	14.69	6592	9.493
2.02	24.24	14.84	6660	9.591
2.03	24.36	14.99	6729	9.690
2.04	24.48	15.15	6798	9.789
2.05	24.60	15.30	6867	9.889
2.06	24.72	15.46	6937	9.989
2.07	24.84	15.61	7007	10.09
2.08	24.96	15.77	7077	10.19
2.09	25.08	15.93	7148	10.29
2.10	25.20	16.09	7220	10.40
2.11	25.32	16.25	7291	10.50
2.12	25.44	16.41	7363	10.60
2.13	25.56	16.57	7436	10.71
2.14	25.68	16.73	7509	10.81
2.15	25.80	16.89	7582	10.92
2.16	25.92	17.06	7656	11.03
2.17	26.04	17.22	7730	11.13
2.18	26.16	17.39	7805	11.24
2.19	26.28	17.56	7880	11.35
2.20	26.40	17.73	7955	11.46