



770.664.6513 (V) 770.664.6565 (F)

Discharge Table For 6" W x 54" L Cutthroat Flume

Document: C-6-54-D-T Rev.: 0 Date: May 26, 2000 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	0.04	16.7	0.024
0.11	1.32	0.04	19.7	0.028
0.12	1.44	0.05	22.9	0.033
0.13	1.56	0.06	26.3	0.038
0.14	1.68	0.07	29.8	0.043
0.15	1.80	0.07	33.6	0.048
0.16	1.92	0.08	37.5	0.054
0.17	2.04	0.09	41.7	0.060
0.18	2.16	0.10	46.0	0.066
0.19	2.28	0.11	50.5	0.073
0.20	2.40	0.12	55.1	0.079
0.21	2.52	0.13	59.9	0.086
0.22	2.64	0.14	64.9	0.093
0.23	2.76	0.16	70.1	0.101
0.24	2.88	0.17	75.4	0.109
0.25	3.00	0.18	80.9	0.116
0.26	3.12	0.19	86.5	0.125
0.27	3.24	0.21	92.3	0.133
0.28	3.36	0.22	98.3	0.142
0.29	3.48	0.23	104	0.150
0.30	3.60	0.25	111	0.159
0.31	3.72	0.26	117	0.169
0.32	3.84	0.28	124	0.178
0.33	3.96	0.29	130	0.188
0.34	4.08	0.31	137	0.198
0.35	4.20	0.32	144	0.208
0.36	4.32	0.34	151	0.218
0.37	4.44	0.35	159	0.229
0.38	4.56	0.37	166	0.239
0.39	4.68	0.39	174	0.250
0.40	4.80	0.40	182	0.261
0.41	4.92	0.42	189	0.273
0.42	5.04	0.44	197	0.284
0.43	5.16	0.46	206	0.296
0.44	5.28	0.48	214	0.308
0.45	5.40	0.50	222	0.320
0.46	5.52	0.51	231	0.332
0.47	5.64	0.53	240	0.345
0.48	5.76	0.55	248	0.358
0.49	5.88	0.57	257	0.371
0.50	6.00	0.59	266	0.384

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
0.51	6.12	0.61	276	0.397
0.52	6.24	0.64	285	0.411
0.53	6.36	0.66	295	0.424
0.54	6.48	0.68	304	0.438
0.55	6.60	0.70	314	0.452
0.56	6.72	0.72	324	0.466
0.57	6.84	0.74	334	0.481
0.58	6.96	0.77	344	0.495
0.59	7.08	0.79	354	0.510
0.60	7.20	0.81	365	0.525
0.61	7.32	0.84	375	0.540
0.62	7.44	0.86	386	0.556
0.63	7.56	0.88	397	0.571
0.64	7.68	0.91	407	0.587
0.65	7.80	0.93	418	0.603
0.66	7.92	0.96	430	0.619
0.67	8.04	0.98	441	0.635
0.68	8.16	1.01	452	0.651
0.69	8.28	1.03	464	0.668
0.70	8.40	1.06	475	0.684
0.71	8.52	1.09	487	0.701
0.72	8.64	1.11	499	0.718
0.73	8.76	1.14	511	0.736
0.74	8.88	1.17	523	0.753
0.75	9.00	1.19	535	0.771
0.76	9.12	1.22	548	0.789
0.77	9.24	1.25	560	0.806
0.78	9.36	1.28	573	0.825
0.79	9.48	1.30	585	0.843
0.80	9.60	1.33	598	0.861
0.81	9.72	1.36	611	0.880
0.82	9.84	1.39	624	0.899
0.83	9.96	1.42	637	0.918
0.84	10.08	1.45	650	0.937
0.85	10.20	1.48	664	0.956
0.86	10.32	1.51	677	0.975
0.87	10.44	1.54	691	0.995
0.88	10.56	1.57	705	1.015
0.89	10.68	1.60	718	1.035
0.90	10.80	1.63	732	1.055
0.91	10.92	1.66	746	1.075
0.92	11.04	1.69	761	1.095
0.93	11.16	1.73	775	1.116
0.94	11.28	1.76	789	1.137
0.95	11.40	1.79	804	1.157
0.96	11.52	1.82	818	1.178
0.97	11.64	1.86	833	1.200
0.98	11.76	1.89	848	1.221
0.99	11.88	1.92	863	1.242
1.00	12.00	1.96	878	1.264



770.664.6513 (V) 770.664.6906 (F)

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

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
1.01	12.12	1.99	893	1.286
1.02	12.24	2.02	908	1.308
1.03	12.36	2.06	924	1.330
1.04	12.48	2.09	939	1.352
1.05	12.60	2.13	955	1.375
1.06	12.72	2.16	970	1.397
1.07	12.84	2.20	986	1.420
1.08	12.96	2.23	1002	1.443
1.09	13.08	2.27	1018	1.466
1.10	13.20	2.30	1034	1.489
1.11	13.32	2.34	1050	1.513
1.12	13.44	2.38	1067	1.536
1.13	13.56	2.41	1083	1.560
1.14	13.68	2.45	1100	1.584
1.15	13.80	2.49	1116	1.608
1.16	13.92	2.52	1133	1.632
1.17	14.04	2.56	1150	1.656
1.18	14.16	2.60	1167	1.681
1.19	14.28	2.64	1184	1.705
1.20	14.40	2.68	1201	1.730
1.21	14.52	2.71	1218	1.755
1.22	14.64	2.75	1236	1.780
1.23	14.76	2.79	1253	1.805
1.24	14.88	2.83	1271	1.830
1.25	15.00	2.87	1289	1.856
1.26	15.12	2.91	1306	1.881
1.27	15.24	2.95	1324	1.907
1.28	15.36	2.99	1342	1.933
1.29	15.48	3.03	1360	1.959
1.30	15.60	3.07	1378	1.985
1.31	15.72	3.11	1397	2.011
1.32	15.84	3.15	1415	2.038
1.33	15.96	3.19	1434	2.065
1.34	16.08	3.24	1452	2.091
1.35	16.20	3.28	1471	2.118
1.36	16.32	3.32	1490	2.145
1.37	16.44	3.36	1509	2.173
1.38	16.56	3.40	1528	2.200
1.39	16.68	3.45	1547	2.227
1.40	16.80	3.49	1566	2.255
1.41	16.92	3.53	1585	2.283
1.42	17.04	3.58	1605	2.311
1.43	17.16	3.62	1624	2.339
1.44	17.28	3.66	1644	2.367
1.45	17.40	3.71	1663	2.395
1.46	17.52	3.75	1683	2.424
1.47	17.64	3.79	1703	2.452
1.48	17.76	3.84	1723	2.481
1.49	17.88	3.88	1743	2.510
1.50	18.00	3.93	1763	2.539

Source: Generalized Discharge Relations for Cutthroat Flumes, Journal of the Irrigation and Drainage Division, ASCE, Vol. 98, No. IR4 (December 1974), pp. 569-583.