



770.664.6513 (V) 770.664.6565 (F)

Discharge Table For 24" W x 54" L Cutthroat Flume

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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	0.15	69.3	0.100
0.11	1.32	0.18	81.6	0.118
0.12	1.44	0.21	94.8	0.136
0.13	1.56	0.24	109	0.157
0.14	1.68	0.28	124	0.178
0.15	1.80	0.31	139	0.200
0.16	1.92	0.35	155	0.224
0.17	2.04	0.38	173	0.248
0.18	2.16	0.42	190	0.274
0.19	2.28	0.47	209	0.301
0.20	2.40	0.51	228	0.329
0.21	2.52	0.55	248	0.357
0.22	2.64	0.60	269	0.387
0.23	2.76	0.65	290	0.418
0.24	2.88	0.70	312	0.450
0.25	3.00	0.75	335	0.482
0.26	3.12	0.80	358	0.516
0.27	3.24	0.85	382	0.551
0.28	3.36	0.91	407	0.586
0.29	3.48	0.96	432	0.623
0.30	3.60	1.02	458	0.660
0.31	3.72	1.08	485	0.698
0.32	3.84	1.14	512	0.737
0.33	3.96	1.20	540	0.778
0.34	4.08	1.27	568	0.818
0.35	4.20	1.33	597	0.860
0.36	4.32	1.40	627	0.903
0.37	4.44	1.46	657	0.947
0.38	4.56	1.53	688	0.991
0.39	4.68	1.60	720	1.036
0.40	4.80	1.67	752	1.082
0.41	4.92	1.75	784	1.129
0.42	5.04	1.82	817	1.177
0.43	5.16	1.90	851	1.226
0.44	5.28	1.97	886	1.275
0.45	5.40	2.05	920	1.326
0.46	5.52	2.13	956	1.377
0.47	5.64	2.21	992	1.428
0.48	5.76	2.29	1029	1.481
0.49	5.88	2.37	1066	1.535
0.50	6.00	2.46	1103	1.589

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
0.51	6.12	2.54	1142	1.644
0.52	6.24	2.63	1180	1.700
0.53	6.36	2.72	1220	1.756
0.54	6.48	2.81	1260	1.814
0.55	6.60	2.90	1300	1.872
0.56	6.72	2.99	1341	1.931
0.57	6.84	3.08	1382	1.991
0.58	6.96	3.17	1424	2.051
0.59	7.08	3.27	1467	2.112
0.60	7.20	3.36	1510	2.174
0.61	7.32	3.46	1553	2.237
0.62	7.44	3.56	1597	2.300
0.63	7.56	3.66	1642	2.364
0.64	7.68	3.76	1687	2.429
0.65	7.80	3.86	1733	2.495
0.66	7.92	3.96	1779	2.561
0.67	8.04	4.07	1825	2.629
0.68	8.16	4.17	1872	2.696
0.69	8.28	4.28	1920	2.765
0.70	8.40	4.39	1968	2.834
0.71	8.52	4.49	2017	2.904
0.72	8.64	4.60	2066	2.975
0.73	8.76	4.71	2115	3.046
0.74	8.88	4.83	2166	3.118
0.75	9.00	4.94	2216	3.191
0.76	9.12	5.05	2267	3.265
0.77	9.24	5.17	2319	3.339
0.78	9.36	5.28	2371	3.414
0.79	9.48	5.40	2423	3.490
0.80	9.60	5.52	2476	3.566
0.81	9.72	5.64	2530	3.643
0.82	9.84	5.76	2584	3.721
0.83	9.96	5.88	2638	3.799
0.84	10.08	6.00	2693	3.878
0.85	10.20	6.12	2748	3.958
0.86	10.32	6.25	2804	4.038
0.87	10.44	6.37	2861	4.119
0.88	10.56	6.50	2917	4.201
0.89	10.68	6.63	2975	4.284
0.90	10.80	6.76	3032	4.367
0.91	10.92	6.89	3091	4.451
0.92	11.04	7.02	3149	4.535
0.93	11.16	7.15	3208	4.620
0.94	11.28	7.28	3268	4.706
0.95	11.40	7.42	3328	4.792
0.96	11.52	7.55	3388	4.879
0.97	11.64	7.69	3449	4.967
0.98	11.76	7.82	3511	5.056
0.99	11.88	7.96	3573	5.145
1.00	12.00	8.10	3635	5.234



770.664.6513 (V) 770.664.6906 (F)

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

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
1.01	12.12	8.24	3698	5.325
1.02	12.24	8.38	3761	5.416
1.03	12.36	8.52	3824	5.507
1.04	12.48	8.66	3888	5.600
1.05	12.60	8.81	3953	5.693
1.06	12.72	8.95	4018	5.786
1.07	12.84	9.10	4083	5.880
1.08	12.96	9.25	4149	5.975
1.09	13.08	9.39	4216	6.071
1.10	13.20	9.54	4282	6.167
1.11	13.32	9.69	4350	6.264
1.12	13.44	9.84	4417	6.361
1.13	13.56	9.99	4485	6.459
1.14	13.68	10.15	4554	6.558
1.15	13.80	10.30	4623	6.657
1.16	13.92	10.45	4692	6.757
1.17	14.04	10.61	4762	6.857
1.18	14.16	10.77	4832	6.958
1.19	14.28	10.92	4903	7.060
1.20	14.40	11.08	4974	7.162
1.21	14.52	11.24	5045	7.265
1.22	14.64	11.40	5117	7.369
1.23	14.76	11.56	5189	7.473
1.24	14.88	11.73	5262	7.578
1.25	15.00	11.89	5335	7.683
1.26	15.12	12.05	5409	7.789
1.27	15.24	12.22	5483	7.896
1.28	15.36	12.38	5558	8.003
1.29	15.48	12.55	5632	8.111
1.30	15.60	12.72	5708	8.220
1.31	15.72	12.89	5784	8.329
1.32	15.84	13.06	5860	8.438
1.33	15.96	13.23	5936	8.549
1.34	16.08	13.40	6013	8.659
1.35	16.20	13.57	6091	8.771
1.36	16.32	13.74	6168	8.883
1.37	16.44	13.92	6247	8.995
1.38	16.56	14.09	6325	9.109
1.39	16.68	14.27	6404	9.223
1.40	16.80	14.45	6484	9.337
1.41	16.92	14.62	6564	9.452
1.42	17.04	14.80	6644	9.568
1.43	17.16	14.98	6725	9.684
1.44	17.28	15.16	6806	9.801
1.45	17.40	15.35	6887	9.918
1.46	17.52	15.53	6969	10.036
1.47	17.64	15.71	7051	10.154
1.48	17.76	15.90	7134	10.273
1.49	17.88	16.08	7217	10.393
1.50	18.00	16.27	7301	10.513

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