TRACOM INC.

770.664.6513 (V) 770.664.6565 (F)

Discharge Table
For
12" W x 108" L Cutthroat Flume

Document: C-12-108-D-T Rev.: 0 Date: 5-24-00 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			
0.11	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	0.284	127.6	0.1837
0.21	2.52	0.307	137.7	0.1982
0.22	2.64	0.330	148.0	0.2131
0.23	2.76	0.353	158.6	0.2285
0.24	2.88	0.378	169.5	0.2441
0.25	3.00	0.403	180.7	0.2602
0.26	3.12	0.428	192.1	0.2766
0.27	3.24	0.454	203.7	0.2934
0.28	3.36	0.480	215.6	0.3105
0.29	3.48	0.507	227.8	0.3280
0.30	3.60	0.535	240.1	0.3458
0.31	3.72	0.563	252.7	0.3639
0.32	3.84	0.592	265.6	0.3824
0.33	3.96	0.621	278.6	0.4012
0.34	4.08	0.650	291.9	0.4203
0.35	4.20	0.680	305.4	0.4398
0.36	4.32	0.711	319.1	0.4596
0.37	4.44	0.742	333.1	0.4796
0.38	4.56	0.774	347.2	0.5000
0.39	4.68	0.806	361.6	0.5207
0.40	4.80	0.838	376.1	0.5416
0.41	4.92	0.871	390.9	0.5629
0.42	5.04	0.904	405.9	0.5845
0.43	5.16	0.938	421.0	0.6063
0.44	5.28	0.972	436.4	0.6285
0.45	5.40	1.007	452.0	0.6509
0.46	5.52	1.042	467.8	0.6736
0.47	5.64	1.078	483.7	0.6966
0.48	5.76	1.114	499.9	0.7198
0.49	5.88	1.150	516.2	0.7434
0.50	6.00	1.187	532.7	0.7672

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
0.51	6.12	1.224	549.5	0.791
0.52	6.24	1.262	566.4	0.816
0.53	6.36	1.300	583.4	0.840
0.54	6.48	1.338	600.7	0.865
0.55	6.60	1.377	618.1	0.890
0.56	6.72	1.417	635.8	0.916
0.57	6.84	1.456	653.6	0.941
0.58	6.96	1.496	671.5	0.967
0.59	7.08	1.537	689.7	0.993
0.60	7.20	1.578	708.0	1.020
0.61	7.32	1.619	726.5	1.046
0.62	7.44	1.660	745.2	1.073
0.63	7.56	1.702	764.0	1.100
0.64	7.68	1.745	783.0	1.128
0.65	7.80	1.787	802.2	1.155
0.66	7.92	1.830	821.5	1.183
0.67	8.04	1.874	841.0	1.211
0.68	8.16	1.918	860.7	1.239
0.69	8.28	1.962	880.5	1.268
0.70	8.40	2.006	900.5	1.297
0.71	8.52	2.051	920.6	1.326
0.72	8.64	2.097	940.9	1.355
0.73	8.76	2.142	961.4	1.384
0.74	8.88	2.188	982.0	1.414
0.75	9.00	2.234	1003	1.444
0.76	9.12	2.281	1024	1.474
0.77	9.24	2.328	1045	1.505
0.78	9.36	2.375	1066	1.535
0.79	9.48	2.423	1087	1.566
0.80	9.60	2.471	1109	1.597
0.81	9.72	2.519	1131	1.628
0.82	9.84	2.568	1153	1.660
0.83	9.96	2.617	1175	1.691
0.84	10.08	2.667	1197	1.723
0.85	10.20	2.716	1219	1.755
0.86	10.32	2.766	1241	1.788
0.87	10.44	2.817	1264	1.820
0.88	10.56	2.867	1287	1.853
0.89	10.68	2.918	1310	1.886
0.90	10.80	2.970	1333	1.919
0.91	10.92	3.021	1356	1.953
0.92	11.04	3.073	1379	1.986
0.93	11.16	3.125	1403	2.020
0.94	11.28	3.178	1426	2.054
0.95	11.40	3.231	1450	2.088
0.96	11.52	3.284	1474	2.122
0.97	11.64	3.338	1498	2.157
0.98	11.76	3.391	1522	2.192
0.99	11.88	3.446	1546	2.227
1.00	12.00	3.500	1571	2.262

Source: Design and Calibration of Submerged Open Channel Flow Measurement Structures, Part 3: Cutthroat Flumes, Utah Water Research Laboratory, April 1967.

TRACOM INC.
770.664.6513 (V) 770.664.6906 (F)

Discharge Table For 12" W x 108" L Cutthroat Flume

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
1.01	12.12	3.555	1595	2.297
1.02	12.24	3.610	1620	2.333
1.03	12.36	3.665	1645	2.369
1.04	12.48	3.721	1670	2.405
1.05	12.60	3.777	1695	2.441
1.06	12.72	3.833	1720	2.477
1.07	12.84	3.890	1746	2.514
1.08	12.96	3.946	1771	2.551
1.09	13.08	4.004	1797	2.588
1.10	13.20	4.061	1823	2.625
1.11	13.32	4.119	1849	2.662
1.12	13.44	4.177	1875	2.699
1.13	13.56	4.235	1901	2.737
1.14	13.68	4.294	1927	2.775
1.15	13.80	4.353	1953	2.813
1.16	13.92	4.412	1980	2.851
1.17	14.04	4.471	2007	2.890
1.18	14.16	4.531	2034	2.928
1.19	14.28	4.591	2061	2.967
1.20	14.40	4.651	2088	3.006
1.21	14.52	4.712	2115	3.045
1.22	14.64	4.773	2142	3.085
1.23	14.76	4.834	2170	3.124
1.24	14.88	4.896	2197	3.164
1.25	15.00	4.957	2225	3.204
1.26	15.12	5.019	2253	3.244
1.27	15.24	5.082	2281	3.284
1.28	15.36	5.144	2309	3.325
1.29	15.48	5.207	2337	3.365
1.30	15.60	5.270	2365	3.406
1.31	15.72	5.333	2394	3.447
1.32	15.84	5.397	2422	3.488
1.33	15.96	5.461	2451	3.529
1.34	16.08	5.525	2480	3.571
1.35	16.20	5.590	2509	3.613
1.36	16.32	5.654	2538	3.654
1.37	16.44	5.719	2567	3.696
1.38	16.56	5.785	2596	3.739
1.39	16.68	5.850	2626	3.781
1.40	16.80	5.916	2655	3.824
1.41	16.92	5.982	2685	3.866
1.42	17.04	6.048	2715	3.909
1.43	17.16	6.115	2744	3.952
1.44	17.28	6.182	2774	3.995
1.45	17.40	6.249	2804	4.039
1.46	17.52	6.316	2835	4.082
1.47	17.64	6.384	2865	4.126
1.48	17.76	6.452	2896	4.170
1.49	17.88	6.520	2926	4.214
1.50	18.00	6.588	2957	4.258

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
1.51	18.12	6.657	2988	4.302
1.52	18.24	6.726	3019	4.347
1.53	18.36	6.795	3050	4.392
1.54	18.48	6.864	3081	4.436
1.55	18.60	6.934	3112	4.481
1.56	18.72	7.004	3143	4.527
1.57	18.84	7.074	3175	4.572
1.58	18.96	7.145	3206	4.618
1.59	19.08	7.215	3238	4.663
1.60	19.20	7.286	3270	4.709
1.61	19.32	7.357	3302	4.755
1.62	19.44	7.429	3334	4.801
1.63	19.56	7.500	3366	4.847
1.64	19.68	7.572	3398	4.894
1.65	19.80	7.644	3431	4.941
1.66	19.92	7.717	3463	4.987
1.67	20.04	7.789	3496	5.034
1.68	20.16	7.862	3529	5.081
1.69	20.28	7.935	3561	5.129
1.70	20.40	8.009	3594	5.176
1.71	20.52	8.082	3627	5.224
1.72	20.64	8.156	3661	5.271
1.73	20.76	8.230	3694	5.319
1.74	20.88	8.305	3727	5.367
1.75	21.00	8.379	3761	5.416
1.76	21.12	8.454	3794	5.464
1.77	21.24	8.529	3828	5.512
1.78	21.36	8.604	3862	5.561
1.79	21.48	8.680	3896	5.610
1.80	21.60	8.756	3930	5.659
1.81	21.72	8.832	3964	5.708
1.82	21.84	8.908	3998	5.757
1.83	21.96	8.984	4032	5.807
1.84	22.08	9.061	4067	5.856
1.85	22.20	9.138	4101	5.906
1.86	22.32	9.215	4136	5.956
1.87	22.44	9.293	4171	6.006
1.88	22.56	9.370	4205	6.056
1.89	22.68	9.448	4240	6.106
1.90	22.80	9.526	4275	6.157
1.91	22.92	9.605	4311	6.207
1.92	23.04	9.683	4346	6.258
1.93	23.16	9.762	4381	6.309
1.94	23.28	9.841	4417	6.360
1.95	23.40	9.920	4452	6.411
1.96	23.52	10.00	4488	6.463
1.97	23.64	10.08	4524	6.514
1.98	23.76	10.16	4560	6.566
1.99	23.88	10.24	4595	6.618
2.00	24.00	10.32	4632	6.670

Source: Design and Calibration of Submerged Open Channel Flow Measurement Structures, Part 3: Cutthroat Flumes, Utah Water Research Laboratory, April 1967.

TRACOM INC.
770.664.6513 (V) 770.664.6565 (F)

Discharge Table For 12" W x 108" L Cutthroat Flume

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
2.01	24.12	10.40	4668	6.722
2.02	24.24	10.48	4704	6.774
2.03	24.36	10.56	4740	6.826
2.04	24.48	10.64	4777	6.879
2.05	24.60	10.73	4813	6.932
2.06	24.72	10.81	4850	6.984
2.07	24.84	10.89	4887	7.037
2.08	24.96	10.97	4924	7.091
2.09	25.08	11.05	4961	7.144
2.10	25.20	11.14	4998	7.197
2.11	25.32	11.22	5035	7.251
2.12	25.44	11.30	5072	7.304
2.13	25.56	11.39	5110	7.358
2.14	25.68	11.47	5147	7.412
2.15	25.80	11.55	5185	7.466
2.16	25.92	11.64	5222	7.521
2.17	26.04	11.72	5260	7.575
2.18	26.16	11.80	5298	7.629
2.19	26.28	11.89	5336	7.684
2.20	26.40	11.97	5374	7.739
2.21	26.52	12.06	5412	7.794
2.22	26.64	12.14	5450	7.849
2.23	26.76	12.23	5489	7.904
2.24	26.88	12.32	5527	7.960
2.25	27.00	12.40	5566	8.015
2.26	27.12	12.49	5604	8.071
2.27	27.24	12.57	5643	8.126
2.28	27.36	12.66	5682	8.182
2.29	27.48	12.75	5721	8.238
2.30	27.60	12.83	5760	8.295
2.31	27.72	12.92	5799	8.351
2.32	27.84	13.01	5838	8.407
2.33	27.96	13.10	5878	8.464
2.34	28.08	13.18	5917	8.521
2.35	28.20	13.27	5956	8.578
2.36	28.32	13.36	5996	8.635
2.37	28.44	13.45	6036	8.692
2.38	28.56	13.54	6075	8.749
2.39	28.68	13.63	6115	8.806
2.40	28.80	13.72	6155	8.864
2.41	28.92	13.80	6195	8.922
2.42	29.04	13.89	6236	8.980
2.43	29.16	13.98	6276	9.037
2.44	29.28	14.07	6316	9.096
2.45	29.40	14.16	6357	9.154
2.46	29.52	14.25	6397	9.212
2.47	29.64	14.34	6438	9.271
2.48	29.76	14.43	6478	9.329
2.49	29.88	14.53	6519	9.388
2.50	30.00	14.62	6560	9.447

LEVEL		FLOW		
FEET	INCHES	CFS	GPM	MGD
2.51	30.12	14.71	6601	9.506
2.52	30.24	14.80	6642	9.565
2.53	30.36	14.89	6683	9.624
2.54	30.48	14.98	6725	9.684
2.55	30.60	15.08	6766	9.743
2.56	30.72	15.17	6807	9.803
2.57	30.84	15.26	6849	9.863
2.58	30.96	15.35	6890	9.923
2.59	31.08	15.45	6932	9.983

Source: Design and Calibration of Submerged Open Channel Flow Measurement Structures, Part 3: Cutthroat Flumes, Utah Water Research Laboratory, April 1967.