



108-Inch L x 12-Inch W Cutthroat Flume Discharge Table

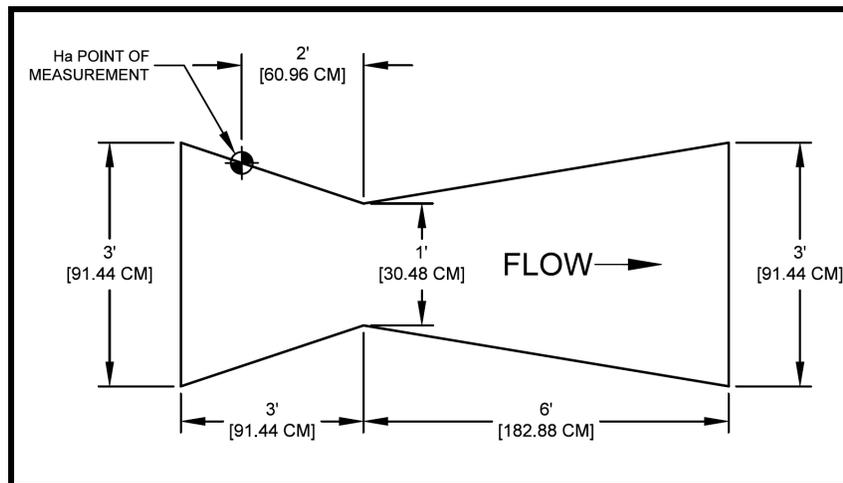
80% Submergence Transition ±3% Accuracy

Formulas (H in feet): CFS = 3.50 $H_{ft}^{1.56}$
 Formulas (H in meters): L/S = 632.3 $H_m^{1.56}$

GPM = 1571 $H_{ft}^{1.56}$ MGD = 2.262 $H_{ft}^{1.56}$
 M3/HR = 2276 $H_m^{1.56}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.01	0.12	0.0030					
0.02	0.24	0.0061					
0.03	0.36	0.0091					
0.04	0.48	0.0122					
0.05	0.60	0.0152					
0.06	0.72	0.0183					
0.07	0.84	0.0213					
0.08	0.96	0.0244					
0.09	1.08	0.0274					
0.10	1.20	0.0305	0.0964	43.26	0.0623	2.730	9.823
0.11	1.32	0.0335	0.1119	50.20	0.0723	3.168	11.40
0.12	1.44	0.0366	0.1281	57.50	0.0828	3.628	13.05
0.13	1.56	0.0396	0.1452	65.14	0.0938	4.111	14.79
0.14	1.68	0.0427	0.1629	73.13	0.1053	4.614	16.60
0.15	1.80	0.0457	0.1815	81.44	0.1173	5.139	18.49
0.16	1.92	0.0488	0.2007	90.06	0.1297	5.683	20.45
0.17	2.04	0.0518	0.2206	99.00	0.1426	6.247	22.48
0.18	2.16	0.0549	0.2412	108.2	0.1559	6.829	24.57
0.19	2.28	0.0579	0.2624	117.8	0.1696	7.430	26.74
0.20	2.40	0.0610	0.2842	127.6	0.1837	8.049	28.96
0.21	2.52	0.0640	0.3067	137.7	0.1982	8.686	31.25
0.22	2.64	0.0671	0.3298	148.0	0.2131	9.340	33.61
0.23	2.76	0.0701	0.3535	158.6	0.2285	10.01	36.02
0.24	2.88	0.0732	0.3777	169.5	0.2441	10.70	38.49
0.25	3.00	0.0762	0.4026	180.7	0.2602	11.40	41.02
0.26	3.12	0.0792	0.4280	192.1	0.2766	12.12	43.61
0.27	3.24	0.0823	0.4539	203.7	0.2934	12.86	46.26
0.28	3.36	0.0853	0.4804	215.6	0.3105	13.61	48.96
0.29	3.48	0.0884	0.5075	227.8	0.3280	14.37	51.71
0.30	3.60	0.0914	0.5350	240.1	0.3458	15.15	54.52

Excessive error due to fluid-flow properties and boundary conditions



Note: Discharge is calculated to top of flume

Sources: Cutthroat Flume Discharge Relations, Water Management Technical Paper No. 16, Colorado State University, AER71-72RSB6, March 1972
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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.31	3.72	0.0945	0.5631	252.7	0.3639	15.95	57.38
0.32	3.84	0.0975	0.5917	265.6	0.3824	16.76	60.29
0.33	3.96	0.1006	0.6208	278.6	0.4012	17.58	63.26
0.34	4.08	0.1036	0.6504	291.9	0.4203	18.42	66.27
0.35	4.20	0.1067	0.6805	305.4	0.4398	19.27	69.34
0.36	4.32	0.1097	0.7110	319.1	0.4596	20.14	72.46
0.37	4.44	0.1128	0.7421	333.1	0.4796	21.02	75.62
0.38	4.56	0.1158	0.7736	347.2	0.5000	21.91	78.83
0.39	4.68	0.1189	0.8056	361.6	0.5207	22.82	82.09
0.40	4.80	0.1219	0.8381	376.1	0.5416	23.73	85.40
0.41	4.92	0.1250	0.8710	390.9	0.5629	24.67	88.75
0.42	5.04	0.1280	0.9044	405.9	0.5845	25.61	92.15
0.43	5.16	0.1311	0.9382	421.0	0.6063	26.57	95.60
0.44	5.28	0.1341	0.9724	436.4	0.6285	27.54	99.09
0.45	5.40	0.1372	1.007	452.0	0.6509	28.52	102.6
0.46	5.52	0.1402	1.042	467.8	0.6736	29.52	106.2
0.47	5.64	0.1433	1.078	483.7	0.6966	30.52	109.8
0.48	5.76	0.1463	1.114	499.9	0.7198	31.54	113.5
0.49	5.88	0.1494	1.150	516.2	0.7434	32.57	117.2
0.50	6.00	0.1524	1.187	532.7	0.7672	33.62	121.0
0.51	6.12	0.1554	1.224	549.5	0.7912	34.67	124.8
0.52	6.24	0.1585	1.262	566.4	0.8156	35.74	128.6
0.53	6.36	0.1615	1.300	583.4	0.8402	36.82	132.5
0.54	6.48	0.1646	1.338	600.7	0.8650	37.90	136.4
0.55	6.60	0.1676	1.377	618.1	0.8902	39.01	140.3
0.56	6.72	0.1707	1.417	635.8	0.9155	40.12	144.3
0.57	6.84	0.1737	1.456	653.6	0.9412	41.24	148.4
0.58	6.96	0.1768	1.496	671.5	0.9671	42.37	152.5
0.59	7.08	0.1798	1.537	689.7	0.9932	43.52	156.6
0.60	7.20	0.1829	1.578	708.0	1.020	44.68	160.8
0.61	7.32	0.1859	1.619	726.5	1.046	45.84	165.0
0.62	7.44	0.1890	1.660	745.2	1.073	47.02	169.2
0.63	7.56	0.1920	1.702	764.0	1.100	48.21	173.5
0.64	7.68	0.1951	1.745	783.0	1.128	49.41	177.8
0.65	7.80	0.1981	1.787	802.2	1.155	50.62	182.1
0.66	7.92	0.2012	1.830	821.5	1.183	51.84	186.5
0.67	8.04	0.2042	1.874	841.0	1.211	53.07	190.9
0.68	8.16	0.2073	1.918	860.7	1.239	54.31	195.4
0.69	8.28	0.2103	1.962	880.5	1.268	55.56	199.9
0.70	8.40	0.2134	2.006	900.5	1.297	56.82	204.5
0.71	8.52	0.2164	2.051	920.6	1.326	58.09	209.0
0.72	8.64	0.2195	2.097	940.9	1.355	59.37	213.6
0.73	8.76	0.2225	2.142	961.4	1.384	60.67	218.3
0.74	8.88	0.2256	2.188	982.0	1.414	61.97	223.0
0.75	9.00	0.2286	2.234	1003	1.444	63.28	227.7
0.76	9.12	0.2316	2.281	1024	1.474	64.60	232.4
0.77	9.24	0.2347	2.328	1045	1.505	65.93	237.2
0.78	9.36	0.2377	2.375	1066	1.535	67.27	242.1
0.79	9.48	0.2408	2.423	1087	1.566	68.62	246.9
0.80	9.60	0.2438	2.471	1109	1.597	69.98	251.8

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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.81	9.72	0.2469	2.519	1131	1.628	71.35	256.7
0.82	9.84	0.2499	2.568	1153	1.660	72.73	261.7
0.83	9.96	0.2530	2.617	1175	1.691	74.12	266.7
0.84	10.08	0.2560	2.667	1197	1.723	75.52	271.7
0.85	10.20	0.2591	2.716	1219	1.755	76.92	276.8
0.86	10.32	0.2621	2.766	1241	1.788	78.34	281.9
0.87	10.44	0.2652	2.817	1264	1.820	79.76	287.0
0.88	10.56	0.2682	2.867	1287	1.853	81.20	292.2
0.89	10.68	0.2713	2.918	1310	1.886	82.64	297.4
0.90	10.80	0.2743	2.970	1333	1.919	84.10	302.6
0.91	10.92	0.2774	3.021	1356	1.953	85.56	307.9
0.92	11.04	0.2804	3.073	1379	1.986	87.03	313.1
0.93	11.16	0.2835	3.125	1403	2.020	88.51	318.5
0.94	11.28	0.2865	3.178	1426	2.054	90.00	323.8
0.95	11.40	0.2896	3.231	1450	2.088	91.50	329.2
0.96	11.52	0.2926	3.284	1474	2.122	93.00	334.6
0.97	11.64	0.2957	3.338	1498	2.157	94.52	340.1
0.98	11.76	0.2987	3.391	1522	2.192	96.04	345.6
0.99	11.88	0.3018	3.446	1546	2.227	97.58	351.1
1.00	12.00	0.3048	3.500	1571	2.262	99.12	356.7
1.01	12.12	0.3078	3.555	1595	2.297	100.7	362.2
1.02	12.24	0.3109	3.610	1620	2.333	102.2	367.8
1.03	12.36	0.3139	3.665	1645	2.369	103.8	373.5
1.04	12.48	0.3170	3.721	1670	2.405	105.4	379.2
1.05	12.60	0.3200	3.777	1695	2.441	107.0	384.9
1.06	12.72	0.3231	3.833	1720	2.477	108.6	390.6
1.07	12.84	0.3261	3.890	1746	2.514	110.2	396.4
1.08	12.96	0.3292	3.946	1771	2.551	111.8	402.1
1.09	13.08	0.3322	4.004	1797	2.588	113.4	408.0
1.10	13.20	0.3353	4.061	1823	2.625	115.0	413.8
1.11	13.32	0.3383	4.119	1849	2.662	116.6	419.7
1.12	13.44	0.3414	4.177	1875	2.699	118.3	425.6
1.13	13.56	0.3444	4.235	1901	2.737	119.9	431.6
1.14	13.68	0.3475	4.294	1927	2.775	121.6	437.5
1.15	13.80	0.3505	4.353	1953	2.813	123.3	443.5
1.16	13.92	0.3536	4.412	1980	2.851	124.9	449.6
1.17	14.04	0.3566	4.471	2007	2.890	126.6	455.6
1.18	14.16	0.3597	4.531	2034	2.928	128.3	461.7
1.19	14.28	0.3627	4.591	2061	2.967	130.0	467.8
1.20	14.40	0.3658	4.651	2088	3.006	131.7	474.0
1.21	14.52	0.3688	4.712	2115	3.045	133.4	480.2
1.22	14.64	0.3719	4.773	2142	3.085	135.2	486.4
1.23	14.76	0.3749	4.834	2170	3.124	136.9	492.6
1.24	14.88	0.3780	4.896	2197	3.164	138.6	498.9
1.25	15.00	0.3810	4.957	2225	3.204	140.4	505.2
1.26	15.12	0.3840	5.019	2253	3.244	142.1	511.5
1.27	15.24	0.3871	5.082	2281	3.284	143.9	517.8
1.28	15.36	0.3901	5.144	2309	3.325	145.7	524.2
1.29	15.48	0.3932	5.207	2337	3.365	147.5	530.6
1.30	15.60	0.3962	5.270	2365	3.406	149.2	537.0

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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.31	15.72	0.3993	5.333	2394	3.447	151.0	543.5
1.32	15.84	0.4023	5.397	2422	3.488	152.8	550.0
1.33	15.96	0.4054	5.461	2451	3.529	154.7	556.5
1.34	16.08	0.4084	5.525	2480	3.571	156.5	563.0
1.35	16.20	0.4115	5.590	2509	3.613	158.3	569.6
1.36	16.32	0.4145	5.654	2538	3.654	160.1	576.2
1.37	16.44	0.4176	5.719	2567	3.696	162.0	582.8
1.38	16.56	0.4206	5.785	2596	3.739	163.8	589.5
1.39	16.68	0.4237	5.850	2626	3.781	165.7	596.1
1.40	16.80	0.4267	5.916	2655	3.824	167.5	602.8
1.41	16.92	0.4298	5.982	2685	3.866	169.4	609.6
1.42	17.04	0.4328	6.048	2715	3.909	171.3	616.3
1.43	17.16	0.4359	6.115	2744	3.952	173.2	623.1
1.44	17.28	0.4389	6.182	2774	3.995	175.1	629.9
1.45	17.40	0.4420	6.249	2804	4.039	177.0	636.8
1.46	17.52	0.4450	6.316	2835	4.082	178.9	643.6
1.47	17.64	0.4481	6.384	2865	4.126	180.8	650.5
1.48	17.76	0.4511	6.452	2896	4.170	182.7	657.4
1.49	17.88	0.4542	6.520	2926	4.214	184.6	664.4
1.50	18.00	0.4572	6.588	2957	4.258	186.6	671.3
1.51	18.12	0.4602	6.657	2988	4.302	188.5	678.3
1.52	18.24	0.4633	6.726	3019	4.347	190.5	685.4
1.53	18.36	0.4663	6.795	3050	4.392	192.4	692.4
1.54	18.48	0.4694	6.864	3081	4.436	194.4	699.5
1.55	18.60	0.4724	6.934	3112	4.481	196.4	706.6
1.56	18.72	0.4755	7.004	3143	4.527	198.4	713.7
1.57	18.84	0.4785	7.074	3175	4.572	200.3	720.9
1.58	18.96	0.4816	7.145	3206	4.618	202.3	728.0
1.59	19.08	0.4846	7.215	3238	4.663	204.3	735.2
1.60	19.20	0.4877	7.286	3270	4.709	206.3	742.5
1.61	19.32	0.4907	7.357	3302	4.755	208.4	749.7
1.62	19.44	0.4938	7.429	3334	4.801	210.4	757.0
1.63	19.56	0.4968	7.500	3366	4.847	212.4	764.3
1.64	19.68	0.4999	7.572	3398	4.894	214.4	771.6
1.65	19.80	0.5029	7.644	3431	4.941	216.5	779.0
1.66	19.92	0.5060	7.717	3463	4.987	218.5	786.3
1.67	20.04	0.5090	7.789	3496	5.034	220.6	793.7
1.68	20.16	0.5121	7.862	3529	5.081	222.7	801.2
1.69	20.28	0.5151	7.935	3561	5.129	224.7	808.6
1.70	20.40	0.5182	8.009	3594	5.176	226.8	816.1
1.71	20.52	0.5212	8.082	3627	5.224	228.9	823.6
1.72	20.64	0.5243	8.156	3661	5.271	231.0	831.1
1.73	20.76	0.5273	8.230	3694	5.319	233.1	838.7
1.74	20.88	0.5304	8.305	3727	5.367	235.2	846.3
1.75	21.00	0.5334	8.379	3761	5.416	237.3	853.9
1.76	21.12	0.5364	8.454	3794	5.464	239.4	861.5
1.77	21.24	0.5395	8.529	3828	5.512	241.5	869.1
1.78	21.36	0.5425	8.604	3862	5.561	243.7	876.8
1.79	21.48	0.5456	8.680	3896	5.610	245.8	884.5
1.80	21.60	0.5486	8.756	3930	5.659	248.0	892.2

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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.81	21.72	0.5517	8.832	3964	5.708	250.1	900.0
1.82	21.84	0.5547	8.908	3998	5.757	252.3	907.7
1.83	21.96	0.5578	8.984	4032	5.807	254.4	915.5
1.84	22.08	0.5608	9.061	4067	5.856	256.6	923.3
1.85	22.20	0.5639	9.138	4101	5.906	258.8	931.2
1.86	22.32	0.5669	9.215	4136	5.956	261.0	939.0
1.87	22.44	0.5700	9.293	4171	6.006	263.2	946.9
1.88	22.56	0.5730	9.370	4205	6.056	265.4	954.8
1.89	22.68	0.5761	9.448	4240	6.106	267.6	962.8
1.90	22.80	0.5791	9.526	4275	6.157	269.8	970.7
1.91	22.92	0.5822	9.605	4311	6.207	272.0	978.7
1.92	23.04	0.5852	9.683	4346	6.258	274.2	986.7
1.93	23.16	0.5883	9.762	4381	6.309	276.5	994.7
1.94	23.28	0.5913	9.841	4417	6.360	278.7	1003
1.95	23.40	0.5944	9.920	4452	6.411	280.9	1011
1.96	23.52	0.5974	10.00	4488	6.463	283.2	1019
1.97	23.64	0.6005	10.08	4524	6.514	285.4	1027
1.98	23.76	0.6035	10.16	4560	6.566	287.7	1035
1.99	23.88	0.6066	10.24	4595	6.618	290.0	1043
2.00	24.00	0.6096	10.32	4632	6.670	292.3	1052
2.01	24.12	0.6126	10.40	4668	6.722	294.5	1060
2.02	24.24	0.6157	10.48	4704	6.774	296.8	1068
2.03	24.36	0.6187	10.56	4740	6.826	299.1	1076
2.04	24.48	0.6218	10.64	4777	6.879	301.4	1085
2.05	24.60	0.6248	10.73	4813	6.932	303.7	1093
2.06	24.72	0.6279	10.81	4850	6.984	306.1	1101
2.07	24.84	0.6309	10.89	4887	7.037	308.4	1110
2.08	24.96	0.6340	10.97	4924	7.091	310.7	1118
2.09	25.08	0.6370	11.05	4961	7.144	313.0	1126
2.10	25.20	0.6401	11.14	4998	7.197	315.4	1135
2.11	25.32	0.6431	11.22	5035	7.251	317.7	1143
2.12	25.44	0.6462	11.30	5072	7.304	320.1	1152
2.13	25.56	0.6492	11.39	5110	7.358	322.4	1160
2.14	25.68	0.6523	11.47	5147	7.412	324.8	1169
2.15	25.80	0.6553	11.55	5185	7.466	327.2	1177
2.16	25.92	0.6584	11.64	5222	7.521	329.5	1186
2.17	26.04	0.6614	11.72	5260	7.575	331.9	1194
2.18	26.16	0.6645	11.80	5298	7.629	334.3	1203
2.19	26.28	0.6675	11.89	5336	7.684	336.7	1212
2.20	26.40	0.6706	11.97	5374	7.739	339.1	1220
2.21	26.52	0.6736	12.06	5412	7.794	341.5	1229
2.22	26.64	0.6767	12.14	5450	7.849	343.9	1238
2.23	26.76	0.6797	12.23	5489	7.904	346.4	1246
2.24	26.88	0.6828	12.32	5527	7.960	348.8	1255
2.25	27.00	0.6858	12.40	5566	8.015	351.2	1264
2.26	27.12	0.6888	12.49	5604	8.071	353.6	1272
2.27	27.24	0.6919	12.57	5643	8.126	356.1	1281
2.28	27.36	0.6949	12.66	5682	8.182	358.5	1290
2.29	27.48	0.6980	12.75	5721	8.238	361.0	1299
2.30	27.60	0.7010	12.83	5760	8.295	363.5	1308

Sources: Cutthroat Flume Discharge Relations, Water Management Technical Paper No. 16, Colorado State University, AER71-72RSB6, March 1972
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108-Inch L x 12-Inch W Cutthroat Flume Discharge Table

80% Submergence Transition ±3% Accuracy

Formulas (H in feet): CFS = 3.50 H_{ft.}^{1.56}
 Formulas (H in meters): L/S = 632.3 H_m^{1.56}

GPM = 1571 H_{ft.}^{1.56} MGD = 2.262 H_{ft.}^{1.56}
 M3/HR = 2276 H_m^{1.56}

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
2.31	27.72	0.7041	12.92	5799	8.351	365.9	1317
2.32	27.84	0.7071	13.01	5838	8.407	368.4	1326
2.33	27.96	0.7102	13.10	5878	8.464	370.9	1334
2.34	28.08	0.7132	13.18	5917	8.521	373.4	1343
2.35	28.20	0.7163	13.27	5956	8.578	375.9	1352
2.36	28.32	0.7193	13.36	5996	8.635	378.4	1361
2.37	28.44	0.7224	13.45	6036	8.692	380.9	1370
2.38	28.56	0.7254	13.54	6075	8.749	383.4	1379
2.39	28.68	0.7285	13.63	6115	8.806	385.9	1388
2.40	28.80	0.7315	13.72	6155	8.864	388.4	1398
2.41	28.92	0.7346	13.80	6195	8.922	390.9	1407
2.42	29.04	0.7376	13.89	6236	8.980	393.5	1416
2.43	29.16	0.7407	13.98	6276	9.037	396.0	1425
2.44	29.28	0.7437	14.07	6316	9.096	398.6	1434
2.45	29.40	0.7468	14.16	6357	9.154	401.1	1443
2.46	29.52	0.7498	14.25	6397	9.212	403.7	1452
2.47	29.64	0.7529	14.34	6438	9.271	406.2	1462
2.48	29.76	0.7559	14.43	6478	9.329	408.8	1471
2.49	29.88	0.7590	14.53	6519	9.388	411.4	1480
2.50	30.00	0.7620	14.62	6560	9.447	413.9	1489
2.51	30.12	0.7650	14.71	6601	9.506	416.5	1499
2.52	30.24	0.7681	14.80	6642	9.565	419.1	1508
2.53	30.36	0.7711	14.89	6683	9.624	421.7	1517
2.54	30.48	0.7742	14.98	6725	9.684	424.3	1527
2.55	30.60	0.7772	15.08	6766	9.743	426.9	1536
2.56	30.72	0.7803	15.17	6807	9.803	429.6	1546
2.57	30.84	0.7833	15.26	6849	9.863	432.2	1555
2.58	30.96	0.7864	15.35	6890	9.923	434.8	1564
2.59	31.08	0.7894	15.45	6932	9.983	437.4	1574
2.60	31.20	0.7925	15.54	6974	10.04	440.1	1583
2.61	31.32	0.7955	15.63	7016	10.10	442.7	1593
2.62	31.44	0.7986	15.73	7058	10.16	445.4	1602
2.63	31.56	0.8016	15.82	7100	10.22	448.0	1612
2.64	31.68	0.8047	15.91	7142	10.29	450.7	1622
2.65	31.80	0.8077	16.01	7184	10.35	453.3	1631
2.66	31.92	0.8108	16.10	7227	10.41	456.0	1641
2.67	32.04	0.8138	16.20	7269	10.47	458.7	1650
2.68	32.16	0.8169	16.29	7312	10.53	461.4	1660
2.69	32.28	0.8199	16.39	7354	10.59	464.1	1670
2.70	32.40	0.8230	16.48	7397	10.65	466.8	1679
2.71	32.52	0.8260	16.58	7440	10.71	469.5	1689
2.72	32.64	0.8291	16.67	7483	10.78	472.2	1699
2.73	32.76	0.8321	16.77	7525	10.84	474.9	1709
2.74	32.88	0.8352	16.86	7569	10.90	477.6	1718
2.75	33.00	0.8382	16.96	7612	10.96	480.3	1728
2.76	33.12	0.8412	17.06	7655	11.02	483.0	1738
2.77	33.24	0.8443	17.15	7698	11.09	485.8	1748
2.78	33.36	0.8473	17.25	7742	11.15	488.5	1758
2.79	33.48	0.8504	17.35	7785	11.21	491.3	1768
2.80	33.60	0.8534	17.44	7829	11.27	494.0	1777

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108-Inch L x 12-Inch W Cutthroat Flume Discharge Table

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Formulas (H in feet): CFS = 3.50 H_{ft.}^{1.56} GPM = 1571 H_{ft.}^{1.56} MGD = 2.262 H_{ft.}^{1.56}
 Formulas (H in meters): L/S = 632.3 H_m^{1.56} M3/HR = 2276 H_m^{1.56}

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
2.81	33.72	0.8565	17.54	7872	11.34	496.8	1787
2.82	33.84	0.8595	17.64	7916	11.40	499.5	1797
2.83	33.96	0.8626	17.74	7960	11.46	502.3	1807
2.84	34.08	0.8656	17.83	8004	11.53	505.1	1817
2.85	34.20	0.8687	17.93	8048	11.59	507.8	1827
2.86	34.32	0.8717	18.03	8092	11.65	510.6	1837
2.87	34.44	0.8748	18.13	8136	11.72	513.4	1847
2.88	34.56	0.8778	18.23	8180	11.78	516.2	1857
2.89	34.68	0.8809	18.33	8225	11.84	519.0	1867
2.90	34.80	0.8839	18.43	8269	11.91	521.8	1878
2.91	34.92	0.8870	18.52	8314	11.97	524.6	1888
2.92	35.04	0.8900	18.62	8358	12.04	527.4	1898
2.93	35.16	0.8931	18.72	8403	12.10	530.2	1908
2.94	35.28	0.8961	18.82	8448	12.17	533.1	1918
2.95	35.40	0.8992	18.92	8493	12.23	535.9	1928
2.96	35.52	0.9022	19.02	8538	12.29	538.7	1938
2.97	35.64	0.9053	19.12	8583	12.36	541.6	1949
2.98	35.76	0.9083	19.22	8628	12.42	544.4	1959
2.99	35.88	0.9114	19.32	8673	12.49	547.3	1969
3.00	36.00	0.9144	19.43	8718	12.55	550.1	1979

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