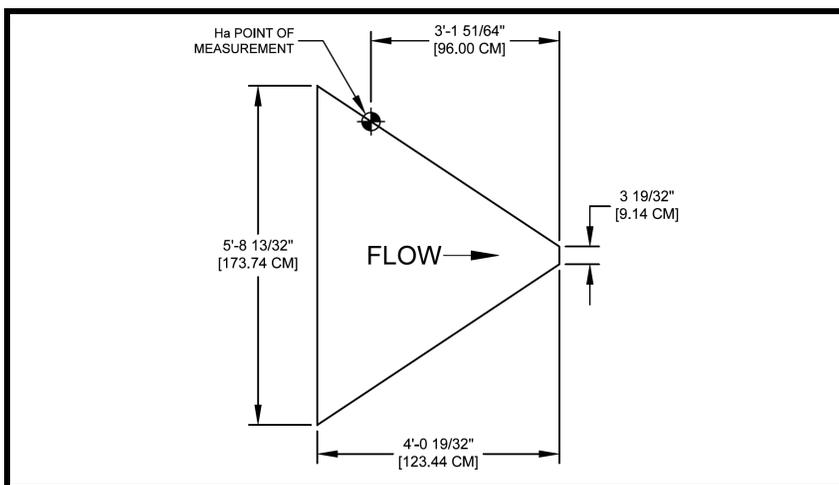# 3.0-Foot H Flume Discharge Table

25-30% Submergence Transition   ±2-5% Accuracy

Formulas (H in feet): CFS = -0.00036 - 0.00228 $H_{ft}^{0.4}$ + 0.95356 $H_{ft}^{1.5}$ + 1.614733 $H_{ft}^{2.5}$

Formulas (H in meters): L/S = -0.01019406 - 0.10384217 $H_m^{0.4}$ + 160.4613601 $H_m^{1.5}$ + 891.4730165 $H_m^{2.5}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.01	0.12	0.0030	Excessive error due to fluid-flow properties and boundary conditions				
0.02	0.24	0.0061	0.0021	0.9425	0.0014	0.0595	0.2140
0.03	0.36	0.0091	0.0045	2.020	0.0029	0.1274	0.4586
0.04	0.48	0.0122	0.0073	3.276	0.0047	0.2067	0.7439
0.05	0.60	0.0152	0.0105	4.712	0.0068	0.2974	1.070
0.06	0.72	0.0183	0.0143	6.418	0.0092	0.4050	1.457
0.07	0.84	0.0213	0.0186	8.348	0.0120	0.5268	1.895
0.08	0.96	0.0244	0.0234	10.50	0.0151	0.6627	2.384
0.09	1.08	0.0274	0.0288	12.93	0.0186	0.8156	2.935
0.10	1.20	0.0305	0.0347	15.57	0.0224	0.9827	3.536
0.11	1.32	0.0335	0.0407	18.27	0.0263	1.153	4.147
0.12	1.44	0.0366	0.0471	21.14	0.0304	1.334	4.799
0.13	1.56	0.0396	0.0538	24.15	0.0348	1.524	5.482
0.14	1.68	0.0427	0.0610	27.38	0.0394	1.728	6.216
0.15	1.80	0.0457	0.0686	30.79	0.0443	1.943	6.990
0.16	1.92	0.0488	0.0766	34.38	0.0495	2.169	7.806
0.17	2.04	0.0518	0.0851	38.19	0.0550	2.410	8.672
0.18	2.16	0.0549	0.0939	42.14	0.0607	2.659	9.568
0.19	2.28	0.0579	0.1032	46.32	0.0667	2.923	10.52
0.20	2.40	0.0610	0.1130	50.71	0.0730	3.200	11.51
0.21	2.52	0.0640	0.1230	55.20	0.0795	3.483	12.53
0.22	2.64	0.0671	0.1340	60.14	0.0866	3.795	13.65
0.23	2.76	0.0701	0.1450	65.08	0.0937	4.106	14.78
0.24	2.88	0.0732	0.1560	70.01	0.1008	4.418	15.90
0.25	3.00	0.0762	0.1680	75.40	0.1086	4.758	17.12
0.26	3.12	0.0792	0.1800	80.78	0.1163	5.098	18.34
0.27	3.24	0.0823	0.1930	86.62	0.1247	5.466	19.67
0.28	3.36	0.0853	0.2070	92.90	0.1338	5.862	21.09
0.29	3.48	0.0884	0.2200	98.74	0.1422	6.230	22.42
0.30	3.60	0.0914	0.2340	105.0	0.1512	6.627	23.84

Curve fitted equation accurate to within 1.5%

Notes: Discharge is calculated to top of flume

Source: *Field Manual for Research in Agricultural Hydrology*, *Agriculture Handbook No. 224*, U.S. Department of Agriculture, February 1972

3.0-Foot H Flume Discharge Table

25-30% Submergence Transition   ±2-5% Accuracy

Formulas (H in feet): $CFS = -0.00036 - 0.00228\, H_{ft}^{0.4} + 0.95356\, H_{ft}^{1.5} + 1.614733\, H_{ft}^{2.5}$

Formulas (H in meters): $L/S = -0.01019406 - 0.10384217\, H_m^{0.4} + 160.4613601\, H_m^{1.5} + 891.4730165\, H_m^{2.5}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.31	3.72	0.0945	0.2490	111.8	0.1609	7.052	25.37
0.32	3.84	0.0975	0.2640	118.5	0.1706	7.476	26.90
0.33	3.96	0.1006	0.2800	125.7	0.1810	7.930	28.53
0.34	4.08	0.1036	0.2960	132.8	0.1913	8.383	30.16
0.35	4.20	0.1067	0.3120	140.0	0.2016	8.836	31.79
0.36	4.32	0.1097	0.3290	147.7	0.2126	9.317	33.53
0.37	4.44	0.1128	0.3470	155.7	0.2243	9.827	35.36
0.38	4.56	0.1158	0.3650	163.8	0.2359	10.34	37.19
0.39	4.68	0.1189	0.3830	171.9	0.2475	10.85	39.03
0.40	4.80	0.1219	0.4020	180.4	0.2598	11.38	40.96
0.41	4.92	0.1250	0.4210	188.9	0.2721	11.92	42.90
0.42	5.04	0.1280	0.4410	197.9	0.2850	12.49	44.94
0.43	5.16	0.1311	0.4620	207.3	0.2986	13.08	47.08
0.44	5.28	0.1341	0.4830	216.8	0.3122	13.68	49.22
0.45	5.40	0.1372	0.5040	226.2	0.3257	14.27	51.36
0.46	5.52	0.1402	0.5260	236.1	0.3400	14.90	53.60
0.47	5.64	0.1433	0.5490	246.4	0.3548	15.55	55.94
0.48	5.76	0.1463	0.5720	256.7	0.3697	16.20	58.29
0.49	5.88	0.1494	0.5960	267.5	0.3852	16.88	60.73
0.50	6.00	0.1524	0.6200	278.3	0.4007	17.56	63.18
0.51	6.12	0.1554	0.6440	289.0	0.4162	18.24	65.62
0.52	6.24	0.1585	0.6690	300.2	0.4324	18.95	68.17
0.53	6.36	0.1615	0.6950	311.9	0.4492	19.68	70.82
0.54	6.48	0.1646	0.7210	323.6	0.4660	20.42	73.47
0.55	6.60	0.1676	0.7480	335.7	0.4834	21.18	76.22
0.56	6.72	0.1707	0.7750	347.8	0.5009	21.95	78.97
0.57	6.84	0.1737	0.8030	360.4	0.5190	22.74	81.83
0.58	6.96	0.1768	0.8320	373.4	0.5377	23.56	84.78
0.59	7.08	0.1798	0.8610	386.4	0.5565	24.38	87.74
0.60	7.20	0.1829	0.8900	399.4	0.5752	25.20	90.69
0.61	7.32	0.1859	0.9200	412.9	0.5946	26.05	93.75
0.62	7.44	0.1890	0.9510	426.8	0.6146	26.93	96.91
0.63	7.56	0.1920	0.9820	440.7	0.6347	27.81	100.1
0.64	7.68	0.1951	1.014	455.1	0.6553	28.72	103.3
0.65	7.80	0.1981	1.047	469.9	0.6767	29.65	106.7
0.66	7.92	0.2012	1.080	484.7	0.6980	30.59	110.1
0.67	8.04	0.2042	1.113	499.5	0.7193	31.52	113.4
0.68	8.16	0.2073	1.147	514.8	0.7413	32.48	116.9
0.69	8.28	0.2103	1.182	530.5	0.7639	33.47	120.4
0.70	8.40	0.2134	1.220	547.5	0.7885	34.55	124.3
0.71	8.52	0.2164	1.250	561.0	0.8079	35.40	127.4
0.72	8.64	0.2195	1.290	579.0	0.8337	36.53	131.5
0.73	8.76	0.2225	1.330	596.9	0.8596	37.67	135.5
0.74	8.88	0.2256	1.360	610.4	0.8790	38.52	138.6
0.75	9.00	0.2286	1.400	628.3	0.9048	39.65	142.7
0.76	9.12	0.2316	1.440	646.3	0.9307	40.78	146.7
0.77	9.24	0.2347	1.480	664.2	0.9565	41.91	150.8
0.78	9.36	0.2377	1.520	682.2	0.9824	43.05	154.9
0.79	9.48	0.2408	1.560	700.1	1.008	44.18	159.0
0.80	9.60	0.2438	1.600	718.1	1.034	45.31	163.0

3.0-Foot H Flume Discharge Table

25-30% Submergence Transition   ±2-5% Accuracy

Formulas (H in feet): CFS = -0.00036 - 0.00228 $H_{ft}^{0.4}$ + 0.95356 $H_{ft}^{1.5}$ + 1.614733 $H_{ft}^{2.5}$

Formulas (H in meters): L/S = -0.01019406 - 0.10384217 $H_{m}^{0.4}$ + 160.4613601 $H_{m}^{1.5}$ + 891.4730165 $H_{m}^{2.5}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.81	9.72	0.2469	1.650	740.5	1.066	46.73	168.1
0.82	9.84	0.2499	1.690	758.5	1.092	47.86	172.2
0.83	9.96	0.2530	1.730	776.4	1.118	48.99	176.3
0.84	10.08	0.2560	1.780	798.9	1.150	50.41	181.4
0.85	10.20	0.2591	1.820	816.8	1.176	51.54	185.5
0.86	10.32	0.2621	1.860	834.8	1.202	52.68	189.5
0.87	10.44	0.2652	1.910	857.2	1.234	54.09	194.6
0.88	10.56	0.2682	1.960	879.6	1.267	55.51	199.7
0.89	10.68	0.2713	2.000	897.6	1.293	56.64	203.8
0.90	10.80	0.2743	2.050	920.0	1.325	58.06	208.9
0.91	10.92	0.2774	2.100	942.5	1.357	59.47	214.0
0.92	11.04	0.2804	2.150	964.9	1.390	60.89	219.1
0.93	11.16	0.2835	2.200	987.4	1.422	62.30	224.2
0.94	11.28	0.2865	2.250	1010	1.454	63.72	229.3
0.95	11.40	0.2896	2.300	1032	1.486	65.14	234.4
0.96	11.52	0.2926	2.350	1055	1.519	66.55	239.5
0.97	11.64	0.2957	2.410	1082	1.558	68.25	245.6
0.98	11.76	0.2987	2.460	1104	1.590	69.67	250.7
0.99	11.88	0.3018	2.510	1126	1.622	71.08	255.8
1.00	12.00	0.3048	2.570	1153	1.661	72.78	261.9
1.01	12.12	0.3078	2.620	1176	1.693	74.20	267.0
1.02	12.24	0.3109	2.680	1203	1.732	75.90	273.1
1.03	12.36	0.3139	2.730	1225	1.764	77.31	278.2
1.04	12.48	0.3170	2.790	1252	1.803	79.01	284.3
1.05	12.60	0.3200	2.850	1279	1.842	80.71	290.4
1.06	12.72	0.3231	2.910	1306	1.881	82.41	296.5
1.07	12.84	0.3261	2.970	1333	1.920	84.11	302.6
1.08	12.96	0.3292	3.030	1360	1.958	85.81	308.8
1.09	13.08	0.3322	3.090	1387	1.997	87.51	314.9
1.10	13.20	0.3353	3.150	1414	2.036	89.21	321.0
1.11	13.32	0.3383	3.210	1441	2.075	90.91	327.1
1.12	13.44	0.3414	3.270	1468	2.113	92.61	333.2
1.13	13.56	0.3444	3.340	1499	2.159	94.59	340.3
1.14	13.68	0.3475	3.400	1526	2.197	96.29	346.5
1.15	13.80	0.3505	3.460	1553	2.236	97.99	352.6
1.16	13.92	0.3536	3.530	1584	2.281	99.97	359.7
1.17	14.04	0.3566	3.600	1616	2.327	102.0	366.8
1.18	14.16	0.3597	3.660	1643	2.365	103.7	373.0
1.19	14.28	0.3627	3.730	1674	2.411	105.6	380.1
1.20	14.40	0.3658	3.800	1705	2.456	107.6	387.2
1.21	14.52	0.3688	3.870	1737	2.501	109.6	394.4
1.22	14.64	0.3719	3.940	1768	2.546	111.6	401.5
1.23	14.76	0.3749	4.010	1800	2.592	113.6	408.6
1.24	14.88	0.3780	4.080	1831	2.637	115.5	415.8
1.25	15.00	0.3810	4.150	1863	2.682	117.5	422.9
1.26	15.12	0.3840	4.230	1898	2.734	119.8	431.0
1.27	15.24	0.3871	4.300	1930	2.779	121.8	438.2
1.28	15.36	0.3901	4.370	1961	2.824	123.8	445.3
1.29	15.48	0.3932	4.450	1997	2.876	126.0	453.5
1.30	15.60	0.3962	4.530	2033	2.928	128.3	461.6

3.0-Foot H Flume Discharge Table

25-30% Submergence Transition   ±2-5% Accuracy

Formulas (H in feet): $CFS = -0.00036 - 0.00228\,H_{ft}^{0.4} + 0.95356\,H_{ft}^{1.5} + 1.614733\,H_{ft}^{2.5}$

Formulas (H in meters): $L/S = -0.01019406 - 0.10384217\,H_{m}^{0.4} + 160.4613601\,H_{m}^{1.5} + 891.4730165\,H_{m}^{2.5}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.31	15.72	0.3993	4.600	2064	2.973	130.3	468.7
1.32	15.84	0.4023	4.680	2100	3.025	132.5	476.9
1.33	15.96	0.4054	4.760	2136	3.076	134.8	485.0
1.34	16.08	0.4084	4.840	2172	3.128	137.1	493.2
1.35	16.20	0.4115	4.920	2208	3.180	139.3	501.3
1.36	16.32	0.4145	5.000	2244	3.232	141.6	509.5
1.37	16.44	0.4176	5.080	2280	3.283	143.9	517.7
1.38	16.56	0.4206	5.160	2316	3.335	146.1	525.8
1.39	16.68	0.4237	5.240	2352	3.387	148.4	534.0
1.40	16.80	0.4267	5.330	2392	3.445	150.9	543.1
1.41	16.92	0.4298	5.410	2428	3.496	153.2	551.3
1.42	17.04	0.4328	5.500	2468	3.555	155.8	560.5
1.43	17.16	0.4359	5.580	2504	3.606	158.0	568.6
1.44	17.28	0.4389	5.670	2545	3.665	160.6	577.8
1.45	17.40	0.4420	5.760	2585	3.723	163.1	586.9
1.46	17.52	0.4450	5.840	2621	3.774	165.4	595.1
1.47	17.64	0.4481	5.930	2661	3.833	167.9	604.3
1.48	17.76	0.4511	6.020	2702	3.891	170.5	613.4
1.49	17.88	0.4542	6.110	2742	3.949	173.0	622.6
1.50	18.00	0.4572	6.200	2783	4.007	175.6	631.8
1.51	18.12	0.4602	6.300	2827	4.072	178.4	642.0
1.52	18.24	0.4633	6.390	2868	4.130	181.0	651.1
1.53	18.36	0.4663	6.480	2908	4.188	183.5	660.3
1.54	18.48	0.4694	6.580	2953	4.253	186.3	670.5
1.55	18.60	0.4724	6.670	2993	4.311	188.9	679.7
1.56	18.72	0.4755	6.770	3038	4.375	191.7	689.9
1.57	18.84	0.4785	6.870	3083	4.440	194.6	700.1
1.58	18.96	0.4816	6.960	3124	4.498	197.1	709.2
1.59	19.08	0.4846	7.060	3169	4.563	199.9	719.4
1.60	19.20	0.4877	7.160	3213	4.628	202.8	729.6
1.61	19.32	0.4907	7.260	3258	4.692	205.6	739.8
1.62	19.44	0.4938	7.360	3303	4.757	208.4	750.0
1.63	19.56	0.4968	7.470	3353	4.828	211.6	761.2
1.64	19.68	0.4999	7.570	3397	4.892	214.4	771.4
1.65	19.80	0.5029	7.670	3442	4.957	217.2	781.6
1.66	19.92	0.5060	7.780	3492	5.028	220.3	792.8
1.67	20.04	0.5090	7.880	3537	5.093	223.2	803.0
1.68	20.16	0.5121	7.990	3586	5.164	226.3	814.2
1.69	20.28	0.5151	8.100	3635	5.235	229.4	825.4
1.70	20.40	0.5182	8.200	3680	5.300	232.2	835.6
1.71	20.52	0.5212	8.310	3730	5.371	235.3	846.8
1.72	20.64	0.5243	8.420	3779	5.442	238.5	858.0
1.73	20.76	0.5273	8.530	3828	5.513	241.6	869.2
1.74	20.88	0.5304	8.640	3878	5.584	244.7	880.4
1.75	21.00	0.5334	8.750	3927	5.655	247.8	891.6
1.76	21.12	0.5364	8.870	3981	5.733	251.2	903.9
1.77	21.24	0.5395	8.980	4030	5.804	254.3	915.1
1.78	21.36	0.5425	9.100	4084	5.881	257.7	927.3
1.79	21.48	0.5456	9.210	4133	5.952	260.8	938.5
1.80	21.60	0.5486	9.330	4187	6.030	264.2	950.7

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.81	21.72	0.5517	9.450	4241	6.108	267.6	963.0
1.82	21.84	0.5547	9.560	4291	6.179	270.7	974.2
1.83	21.96	0.5578	9.680	4344	6.256	274.1	986.4
1.84	22.08	0.5608	9.800	4398	6.334	277.5	998.6
1.85	22.20	0.5639	9.920	4452	6.411	280.9	1011
1.86	22.32	0.5669	10.05	4510	6.495	284.6	1024
1.87	22.44	0.5700	10.17	4564	6.573	288.0	1036
1.88	22.56	0.5730	10.29	4618	6.650	291.4	1049
1.89	22.68	0.5761	10.41	4672	6.728	294.8	1061
1.90	22.80	0.5791	10.50	4712	6.786	297.4	1070
1.91	22.92	0.5822	10.70	4802	6.915	303.0	1090
1.92	23.04	0.5852	10.80	4847	6.980	305.9	1101
1.93	23.16	0.5883	10.90	4892	7.045	308.7	1111
1.94	23.28	0.5913	11.00	4937	7.109	311.5	1121
1.95	23.40	0.5944	11.20	5027	7.239	317.2	1141
1.96	23.52	0.5974	11.30	5071	7.303	320.0	1151
1.97	23.64	0.6005	11.40	5116	7.368	322.8	1162
1.98	23.76	0.6035	11.60	5206	7.497	328.5	1182
1.99	23.88	0.6066	11.70	5251	7.562	331.3	1192
2.00	24.00	0.6096	11.90	5341	7.691	337.0	1213
2.01	24.12	0.6126	12.00	5386	7.756	339.8	1223
2.02	24.24	0.6157	12.10	5430	7.820	342.7	1233
2.03	24.36	0.6187	12.30	5520	7.949	348.3	1253
2.04	24.48	0.6218	12.40	5565	8.014	351.2	1264
2.05	24.60	0.6248	12.60	5655	8.143	356.8	1284
2.06	24.72	0.6279	12.70	5700	8.208	359.7	1294
2.07	24.84	0.6309	12.80	5745	8.273	362.5	1304
2.08	24.96	0.6340	13.00	5834	8.402	368.2	1325
2.09	25.08	0.6370	13.10	5879	8.467	371.0	1335
2.10	25.20	0.6401	13.30	5969	8.596	376.7	1355
2.11	25.32	0.6431	13.40	6014	8.660	379.5	1365
2.12	25.44	0.6462	13.60	6104	8.790	385.2	1386
2.13	25.56	0.6492	13.70	6149	8.854	388.0	1396
2.14	25.68	0.6523	13.90	6238	8.984	393.6	1416
2.15	25.80	0.6553	14.00	6283	9.048	396.5	1427
2.16	25.92	0.6584	14.20	6373	9.177	402.1	1447
2.17	26.04	0.6614	14.30	6418	9.242	405.0	1457
2.18	26.16	0.6645	14.50	6508	9.371	410.6	1478
2.19	26.28	0.6675	14.60	6552	9.436	413.5	1488
2.20	26.40	0.6706	14.80	6642	9.565	419.1	1508
2.21	26.52	0.6736	14.90	6687	9.630	422.0	1518
2.22	26.64	0.6767	15.10	6777	9.759	427.6	1539
2.23	26.76	0.6797	15.30	6867	9.888	433.3	1559
2.24	26.88	0.6828	15.40	6912	9.953	436.1	1569
2.25	27.00	0.6858	15.60	7001	10.08	441.8	1590
2.26	27.12	0.6888	15.70	7046	10.15	444.6	1600
2.27	27.24	0.6919	15.90	7136	10.28	450.3	1620
2.28	27.36	0.6949	16.10	7226	10.41	456.0	1641
2.29	27.48	0.6980	16.20	7271	10.47	458.8	1651
2.30	27.60	0.7010	16.40	7360	10.60	464.4	1671

3.0-Foot H Flume Discharge Table

25-30% Submergence Transition   ±2-5% Accuracy

Formulas (H in feet): CFS = -0.00036 - 0.00228 $H_{ft}^{0.4}$ + 0.95356 $H_{ft}^{1.5}$ + 1.614733 $H_{ft}^{2.5}$

Formulas (H in meters): L/S = -0.01019406 - 0.10384217 $H_m^{0.4}$ + 160.4613601 $H_m^{1.5}$ + 891.4730165 $H_m^{2.5}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
2.31	27.72	0.7041	16.60	7450	10.73	470.1	1692
2.32	27.84	0.7071	16.70	7495	10.79	472.9	1702
2.33	27.96	0.7102	16.90	7585	10.92	478.6	1722
2.34	28.08	0.7132	17.10	7674	11.05	484.3	1742
2.35	28.20	0.7163	17.20	7719	11.12	487.1	1753
2.36	28.32	0.7193	17.40	7809	11.25	492.8	1773
2.37	28.44	0.7224	17.60	7899	11.37	498.4	1793
2.38	28.56	0.7254	17.80	7989	11.50	504.1	1814
2.39	28.68	0.7285	17.90	8034	11.57	506.9	1824
2.40	28.80	0.7315	18.10	8123	11.70	512.6	1844
2.41	28.92	0.7346	18.30	8213	11.83	518.3	1865
2.42	29.04	0.7376	18.50	8303	11.96	523.9	1885
2.43	29.16	0.7407	18.70	8393	12.09	529.6	1906
2.44	29.28	0.7437	18.80	8437	12.15	532.4	1916
2.45	29.40	0.7468	19.00	8527	12.28	538.1	1936
2.46	29.52	0.7498	19.20	8617	12.41	543.7	1956
2.47	29.64	0.7529	19.40	8707	12.54	549.4	1977
2.48	29.76	0.7559	19.60	8796	12.67	555.1	1997
2.49	29.88	0.7590	19.80	8886	12.80	560.7	2018
2.50	30.00	0.7620	19.90	8931	12.86	563.6	2028
2.51	30.12	0.7650	20.10	9021	12.99	569.2	2048
2.52	30.24	0.7681	20.30	9111	13.12	574.9	2069
2.53	30.36	0.7711	20.50	9200	13.25	580.6	2089
2.54	30.48	0.7742	20.70	9290	13.38	586.2	2109
2.55	30.60	0.7772	20.90	9380	13.51	591.9	2130
2.56	30.72	0.7803	21.10	9470	13.64	597.6	2150
2.57	30.84	0.7833	21.30	9559	13.77	603.2	2170
2.58	30.96	0.7864	21.50	9649	13.90	608.9	2191
2.59	31.08	0.7894	21.70	9739	14.02	614.5	2211
2.60	31.20	0.7925	21.90	9829	14.15	620.2	2232
2.61	31.32	0.7955	22.10	9918	14.28	625.9	2252
2.62	31.44	0.7986	22.30	10008	14.41	631.5	2272
2.63	31.56	0.8016	22.50	10098	14.54	637.2	2293
2.64	31.68	0.8047	22.70	10188	14.67	642.9	2313
2.65	31.80	0.8077	22.90	10278	14.80	648.5	2334
2.66	31.92	0.8108	23.10	10367	14.93	654.2	2354
2.67	32.04	0.8138	23.30	10457	15.06	659.9	2374
2.68	32.16	0.8169	23.50	10547	15.19	665.5	2395
2.69	32.28	0.8199	23.70	10637	15.32	671.2	2415
2.70	32.40	0.8230	23.90	10726	15.45	676.8	2435
2.71	32.52	0.8260	24.10	10816	15.58	682.5	2456
2.72	32.64	0.8291	24.30	10906	15.71	688.2	2476
2.73	32.76	0.8321	24.50	10996	15.83	693.8	2497
2.74	32.88	0.8352	24.70	11085	15.96	699.5	2517
2.75	33.00	0.8382	24.90	11175	16.09	705.2	2537
2.76	33.12	0.8412	25.20	11310	16.29	713.7	2568
2.77	33.24	0.8443	25.40	11400	16.42	719.3	2588
2.78	33.36	0.8473	25.60	11489	16.55	725.0	2609
2.79	33.48	0.8504	25.80	11579	16.67	730.7	2629
2.80	33.60	0.8534	26.00	11669	16.80	736.3	2649

3.0-Foot H Flume Discharge Table

25-30% Submergence Transition   ±2-5% Accuracy

Formulas (H in feet): CFS = -0.00036 - 0.00228 $H_{ft}^{0.4}$ + 0.95356 $H_{ft}^{1.5}$ + 1.614733 $H_{ft}^{2.5}$

Formulas (H in meters): L/S = -0.01019406 - 0.10384217 $H_{m}^{0.4}$ + 160.4613601 $H_{m}^{1.5}$ + 891.4730165 $H_{m}^{2.5}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
2.81	33.72	0.8565	26.20	11759	16.93	742.0	2670
2.82	33.84	0.8595	26.50	11893	17.13	750.5	2700
2.83	33.96	0.8626	26.70	11983	17.26	756.1	2721
2.84	34.08	0.8656	26.90	12073	17.39	761.8	2741
2.85	34.20	0.8687	27.10	12162	17.51	767.5	2761
2.86	34.32	0.8717	27.40	12297	17.71	776.0	2792
2.87	34.44	0.8748	27.60	12387	17.84	781.6	2812
2.88	34.56	0.8778	27.80	12477	17.97	787.3	2833
2.89	34.68	0.8809	28.00	12566	18.10	793.0	2853
2.90	34.80	0.8839	28.30	12701	18.29	801.5	2884
2.91	34.92	0.8870	28.50	12791	18.42	807.1	2904
2.92	35.04	0.8900	28.70	12881	18.55	812.8	2925
2.93	35.16	0.8931	28.90	12970	18.68	818.4	2945
2.94	35.28	0.8961	29.20	13105	18.87	826.9	2975
2.95	35.40	0.8992	29.40	13195	19.00	832.6	2996
2.96	35.52	0.9022	29.70	13329	19.20	841.1	3026
2.97	35.64	0.9053	29.90	13419	19.32	846.8	3047
2.98	35.76	0.9083	30.10	13509	19.45	852.4	3067
2.99	35.88	0.9114	30.40	13644	19.65	860.9	3098