OPENCHANNELFLOW

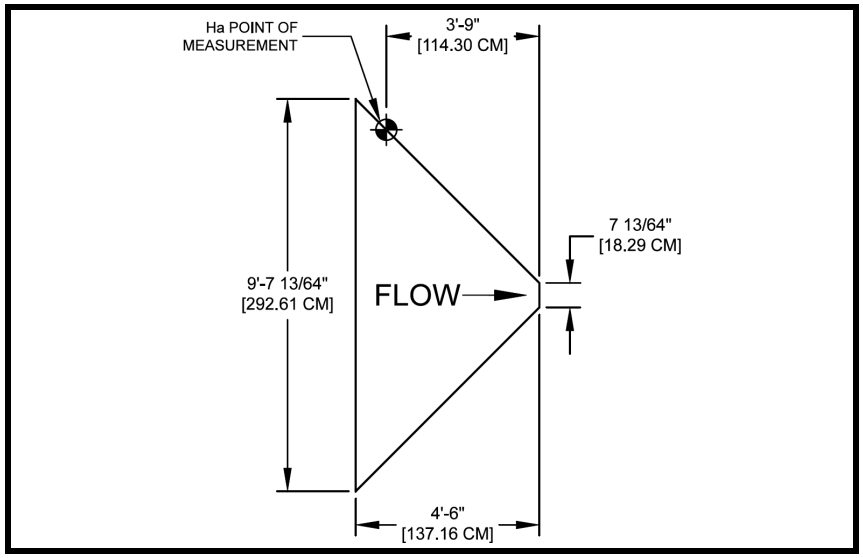
3.0-Foot HL Flume Discharge Table

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

Formulas (H in feet): $CFS = 0.000373 - 0.00046\ H_{ft}^{0.5} + 1.877055\ H_{ft}^{1.5} + 3.038756\ H_{ft}^{2.5}$

Formulas (H in meters): $L/S = 0.010562184 - 0.02359366\ H_{m}^{0.5} + 315.8634991\ H_{m}^{1.5} + 1677.657531\ H_{m}^{2.5}$

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	0.0058	2.598	0.0037	0.1639	0.5899
0.03	0.36	0.0091	0.0105	4.722	0.0068	0.2979	1.072
0.04	0.48	0.0122	0.0163	7.302	0.0105	0.4608	1.658
0.05	0.60	0.0152	0.0230	10.30	0.0148	0.6501	2.339
0.06	0.72	0.0183	0.0305	13.70	0.0197	0.8645	3.111
0.07	0.84	0.0213	0.0390	17.48	0.0252	1.103	3.969
0.08	0.96	0.0244	0.0482	21.64	0.0312	1.365	4.913
0.09	1.08	0.0274	0.0583	26.16	0.0377	1.651	5.941
0.10	1.20	0.0305	0.0692	31.05	0.0447	1.960	7.051
0.11	1.32	0.0335	0.0809	36.31	0.0523	2.291	8.243
0.12	1.44	0.0366	0.0934	41.92	0.0604	2.645	9.517
0.13	1.56	0.0396	0.1067	47.89	0.0690	3.022	10.87
0.14	1.68	0.0427	0.1208	54.22	0.0781	3.421	12.31
0.15	1.80	0.0457	0.1357	60.91	0.0877	3.844	13.83
0.16	1.92	0.0488	0.1514	67.97	0.0979	4.289	15.43
0.17	2.04	0.0518	0.1680	75.38	0.1086	4.757	17.12
0.18	2.16	0.0549	0.1853	83.16	0.1198	5.248	18.88
0.19	2.28	0.0579	0.2034	91.31	0.1315	5.762	20.73
0.20	2.40	0.0610	0.2224	99.82	0.1437	6.299	22.66
0.21	2.52	0.0640	0.2422	108.7	0.1565	6.859	24.68
0.22	2.64	0.0671	0.2628	118.0	0.1699	7.443	26.78
0.23	2.76	0.0701	0.2843	127.6	0.1837	8.051	28.97
0.24	2.88	0.0732	0.3066	137.6	0.1981	8.683	31.24
0.25	3.00	0.0762	0.3297	148.0	0.2131	9.338	33.60
0.26	3.12	0.0792	0.3537	158.8	0.2286	10.02	36.05
0.27	3.24	0.0823	0.3786	169.9	0.2447	10.72	38.58
0.28	3.36	0.0853	0.4043	181.5	0.2613	11.45	41.20
0.29	3.48	0.0884	0.4309	193.4	0.2785	12.20	43.91
0.30	3.60	0.0914	0.4583	205.7	0.2962	12.98	46.71



Note: 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

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

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Formulas (H in meters): $L/S = 0.010562184 - 0.02359366\ H_{m}^{0.5} + 315.8634991\ H_{m}^{1.5} + 1677.657531\ H_{m}^{2.5}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.31	3.72	0.0945	0.4867	218.4	0.3145	13.78	49.59
0.32	3.84	0.0975	0.5159	231.5	0.3334	14.61	52.57
0.33	3.96	0.1006	0.5460	245.1	0.3529	15.46	55.64
0.34	4.08	0.1036	0.5771	259.0	0.3730	16.34	58.80
0.35	4.20	0.1067	0.6090	273.3	0.3936	17.25	62.06
0.36	4.32	0.1097	0.6418	288.1	0.4148	18.18	65.40
0.37	4.44	0.1128	0.6756	303.2	0.4366	19.13	68.84
0.38	4.56	0.1158	0.7103	318.8	0.4591	20.12	72.38
0.39	4.68	0.1189	0.7459	334.8	0.4821	21.12	76.01
0.40	4.80	0.1219	0.7824	351.2	0.5057	22.16	79.73
0.41	4.92	0.1250	0.8199	368.0	0.5299	23.22	83.55
0.42	5.04	0.1280	0.8584	385.2	0.5548	24.31	87.47
0.43	5.16	0.1311	0.8978	402.9	0.5802	25.43	91.48
0.44	5.28	0.1341	0.9381	421.0	0.6063	26.57	95.60
0.45	5.40	0.1372	0.9795	439.6	0.6330	27.74	99.81
0.46	5.52	0.1402	1.022	458.6	0.6604	28.94	104.1
0.47	5.64	0.1433	1.065	478.0	0.6884	30.16	108.5
0.48	5.76	0.1463	1.109	497.9	0.7170	31.42	113.0
0.49	5.88	0.1494	1.155	518.2	0.7462	32.70	117.7
0.50	6.00	0.1524	1.201	538.9	0.7761	34.01	122.4
0.51	6.12	0.1554	1.248	560.2	0.8067	35.35	127.2
0.52	6.24	0.1585	1.296	581.8	0.8379	36.71	132.1
0.53	6.36	0.1615	1.346	604.0	0.8697	38.11	137.1
0.54	6.48	0.1646	1.396	626.5	0.9023	39.54	142.3
0.55	6.60	0.1676	1.447	649.6	0.9354	40.99	147.5
0.56	6.72	0.1707	1.500	673.1	0.9693	42.47	152.8
0.57	6.84	0.1737	1.553	697.1	1.004	43.99	158.3
0.58	6.96	0.1768	1.608	721.5	1.039	45.53	163.8
0.59	7.08	0.1798	1.663	746.4	1.075	47.10	169.5
0.60	7.20	0.1829	1.720	771.8	1.111	48.70	175.2
0.61	7.32	0.1859	1.777	797.7	1.149	50.34	181.1
0.62	7.44	0.1890	1.836	824.1	1.187	52.00	187.1
0.63	7.56	0.1920	1.896	850.9	1.225	53.69	193.2
0.64	7.68	0.1951	1.957	878.2	1.265	55.42	199.4
0.65	7.80	0.1981	2.019	906.0	1.305	57.17	205.7
0.66	7.92	0.2012	2.082	934.3	1.345	58.96	212.1
0.67	8.04	0.2042	2.146	963.1	1.387	60.77	218.7
0.68	8.16	0.2073	2.211	992.4	1.429	62.62	225.3
0.69	8.28	0.2103	2.278	1022	1.472	64.50	232.1
0.70	8.40	0.2134	2.345	1052	1.516	66.41	239.0
0.71	8.52	0.2164	2.414	1083	1.560	68.36	246.0
0.72	8.64	0.2195	2.483	1115	1.605	70.33	253.1
0.73	8.76	0.2225	2.554	1146	1.651	72.34	260.3
0.74	8.88	0.2256	2.626	1179	1.697	74.38	267.6
0.75	9.00	0.2286	2.699	1212	1.745	76.45	275.1
0.76	9.12	0.2316	2.774	1245	1.793	78.55	282.6
0.77	9.24	0.2347	2.849	1279	1.841	80.69	290.3
0.78	9.36	0.2377	2.926	1313	1.891	82.86	298.1
0.79	9.48	0.2408	3.004	1348	1.941	85.06	306.1
0.80	9.60	0.2438	3.083	1383	1.992	87.30	314.1

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Formulas (H in meters): $L/S = 0.010562184 - 0.02359366\ H_{m}^{0.5} + 315.8634991\ H_{m}^{1.5} + 1677.657531\ H_{m}^{2.5}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.81	9.72	0.2469	3.163	1419	2.044	89.57	322.3
0.82	9.84	0.2499	3.244	1456	2.097	91.87	330.6
0.83	9.96	0.2530	3.326	1493	2.150	94.21	339.0
0.84	10.08	0.2560	3.410	1530	2.204	96.58	347.5
0.85	10.20	0.2591	3.495	1569	2.259	98.98	356.1
0.86	10.32	0.2621	3.581	1607	2.315	101.4	364.9
0.87	10.44	0.2652	3.668	1646	2.371	103.9	373.8
0.88	10.56	0.2682	3.757	1686	2.428	106.4	382.8
0.89	10.68	0.2713	3.847	1726	2.486	108.9	392.0
0.90	10.80	0.2743	3.938	1767	2.545	111.5	401.2
0.91	10.92	0.2774	4.030	1809	2.605	114.1	410.6
0.92	11.04	0.2804	4.123	1851	2.665	116.8	420.2
0.93	11.16	0.2835	4.218	1893	2.726	119.5	429.8
0.94	11.28	0.2865	4.314	1936	2.788	122.2	439.6
0.95	11.40	0.2896	4.411	1980	2.851	124.9	449.5
0.96	11.52	0.2926	4.509	2024	2.914	127.7	459.5
0.97	11.64	0.2957	4.609	2069	2.979	130.5	469.7
0.98	11.76	0.2987	4.710	2114	3.044	133.4	480.0
0.99	11.88	0.3018	4.812	2160	3.110	136.3	490.4
1.00	12.00	0.3048	4.916	2206	3.177	139.2	500.9
1.01	12.12	0.3078	5.020	2253	3.245	142.2	511.6
1.02	12.24	0.3109	5.127	2301	3.313	145.2	522.4
1.03	12.36	0.3139	5.234	2349	3.383	148.2	533.3
1.04	12.48	0.3170	5.343	2398	3.453	151.3	544.4
1.05	12.60	0.3200	5.452	2447	3.524	154.4	555.6
1.06	12.72	0.3231	5.564	2497	3.596	157.6	566.9
1.07	12.84	0.3261	5.676	2547	3.669	160.8	578.4
1.08	12.96	0.3292	5.790	2599	3.742	164.0	590.0
1.09	13.08	0.3322	5.905	2650	3.817	167.2	601.7
1.10	13.20	0.3353	6.022	2703	3.892	170.5	613.6
1.11	13.32	0.3383	6.140	2755	3.968	173.9	625.6
1.12	13.44	0.3414	6.259	2809	4.045	177.2	637.8
1.13	13.56	0.3444	6.379	2863	4.123	180.7	650.1
1.14	13.68	0.3475	6.501	2918	4.202	184.1	662.5
1.15	13.80	0.3505	6.624	2973	4.281	187.6	675.0
1.16	13.92	0.3536	6.749	3029	4.362	191.1	687.7
1.17	14.04	0.3566	6.875	3085	4.443	194.7	700.5
1.18	14.16	0.3597	7.002	3143	4.525	198.3	713.5
1.19	14.28	0.3627	7.131	3200	4.609	201.9	726.6
1.20	14.40	0.3658	7.261	3259	4.693	205.6	739.9
1.21	14.52	0.3688	7.392	3318	4.778	209.3	753.3
1.22	14.64	0.3719	7.525	3377	4.863	213.1	766.8
1.23	14.76	0.3749	7.659	3437	4.950	216.9	780.5
1.24	14.88	0.3780	7.795	3498	5.038	220.7	794.3
1.25	15.00	0.3810	7.932	3560	5.126	224.6	808.2
1.26	15.12	0.3840	8.070	3622	5.216	228.5	822.3
1.27	15.24	0.3871	8.210	3685	5.306	232.5	836.6
1.28	15.36	0.3901	8.351	3748	5.397	236.5	851.0
1.29	15.48	0.3932	8.493	3812	5.489	240.5	865.5
1.30	15.60	0.3962	8.637	3876	5.582	244.6	880.2

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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.31	15.72	0.3993	8.783	3942	5.676	248.7	895.0
1.32	15.84	0.4023	8.930	4008	5.771	252.9	909.9
1.33	15.96	0.4054	9.078	4074	5.867	257.1	925.0
1.34	16.08	0.4084	9.228	4141	5.964	261.3	940.3
1.35	16.20	0.4115	9.379	4209	6.062	265.6	955.7
1.36	16.32	0.4145	9.531	4278	6.160	269.9	971.3
1.37	16.44	0.4176	9.685	4347	6.260	274.3	987.0
1.38	16.56	0.4206	9.841	4417	6.360	278.7	1003
1.39	16.68	0.4237	9.998	4487	6.462	283.1	1019
1.40	16.80	0.4267	10.16	4558	6.564	287.6	1035
1.41	16.92	0.4298	10.32	4630	6.667	292.2	1051
1.42	17.04	0.4328	10.48	4702	6.772	296.7	1068
1.43	17.16	0.4359	10.64	4775	6.877	301.3	1084
1.44	17.28	0.4389	10.80	4849	6.983	306.0	1101
1.45	17.40	0.4420	10.97	4924	7.090	310.7	1118
1.46	17.52	0.4450	11.14	4999	7.198	315.4	1135
1.47	17.64	0.4481	11.31	5074	7.307	320.2	1152
1.48	17.76	0.4511	11.48	5151	7.418	325.0	1169
1.49	17.88	0.4542	11.65	5228	7.529	329.9	1187
1.50	18.00	0.4572	11.82	5306	7.641	334.8	1205
1.51	18.12	0.4602	12.00	5384	7.754	339.7	1222
1.52	18.24	0.4633	12.17	5463	7.867	344.7	1240
1.53	18.36	0.4663	12.35	5543	7.982	349.8	1259
1.54	18.48	0.4694	12.53	5624	8.098	354.9	1277
1.55	18.60	0.4724	12.71	5705	8.215	360.0	1295
1.56	18.72	0.4755	12.89	5787	8.333	365.1	1314
1.57	18.84	0.4785	13.08	5869	8.452	370.4	1333
1.58	18.96	0.4816	13.26	5952	8.572	375.6	1352
1.59	19.08	0.4846	13.45	6036	8.693	380.9	1371
1.60	19.20	0.4877	13.64	6121	8.815	386.2	1390
1.61	19.32	0.4907	13.83	6206	8.938	391.6	1409
1.62	19.44	0.4938	14.02	6292	9.061	397.1	1429
1.63	19.56	0.4968	14.21	6379	9.186	402.5	1448
1.64	19.68	0.4999	14.41	6467	9.312	408.1	1468
1.65	19.80	0.5029	14.61	6555	9.439	413.6	1488
1.66	19.92	0.5060	14.80	6644	9.567	419.2	1508
1.67	20.04	0.5090	15.00	6733	9.696	424.9	1529
1.68	20.16	0.5121	15.20	6823	9.826	430.6	1549
1.69	20.28	0.5151	15.41	6914	9.957	436.3	1570
1.70	20.40	0.5182	15.61	7006	10.09	442.1	1591
1.71	20.52	0.5212	15.82	7098	10.22	447.9	1612
1.72	20.64	0.5243	16.02	7192	10.36	453.8	1633
1.73	20.76	0.5273	16.23	7285	10.49	459.7	1654
1.74	20.88	0.5304	16.44	7380	10.63	465.7	1676
1.75	21.00	0.5334	16.66	7475	10.76	471.7	1697
1.76	21.12	0.5364	16.87	7571	10.90	477.8	1719
1.77	21.24	0.5395	17.09	7668	11.04	483.9	1741
1.78	21.36	0.5425	17.30	7765	11.18	490.0	1763
1.79	21.48	0.5456	17.52	7864	11.32	496.2	1785
1.80	21.60	0.5486	17.74	7963	11.47	502.5	1808

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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.81	21.72	0.5517	17.96	8062	11.61	508.7	1831
1.82	21.84	0.5547	18.19	8163	11.75	515.1	1853
1.83	21.96	0.5578	18.41	8264	11.90	521.5	1876
1.84	22.08	0.5608	18.64	8366	12.05	527.9	1899
1.85	22.20	0.5639	18.87	8468	12.19	534.4	1923
1.86	22.32	0.5669	19.10	8572	12.34	540.9	1946
1.87	22.44	0.5700	19.33	8676	12.49	547.5	1970
1.88	22.56	0.5730	19.56	8781	12.64	554.1	1994
1.89	22.68	0.5761	19.80	8886	12.80	560.7	2018
1.90	22.80	0.5791	20.04	8992	12.95	567.4	2042
1.91	22.92	0.5822	20.28	9100	13.10	574.2	2066
1.92	23.04	0.5852	20.52	9207	13.26	581.0	2091
1.93	23.16	0.5883	20.76	9316	13.42	587.9	2115
1.94	23.28	0.5913	21.00	9425	13.57	594.8	2140
1.95	23.40	0.5944	21.25	9535	13.73	601.7	2165
1.96	23.52	0.5974	21.49	9646	13.89	608.7	2190
1.97	23.64	0.6005	21.74	9758	14.05	615.7	2216
1.98	23.76	0.6035	21.99	9870	14.21	622.8	2241
1.99	23.88	0.6066	22.24	9983	14.38	630.0	2267
2.00	24.00	0.6096	22.50	10097	14.54	637.2	2293
2.01	24.12	0.6126	22.75	10212	14.71	644.4	2319
2.02	24.24	0.6157	23.01	10328	14.87	651.7	2345
2.03	24.36	0.6187	23.27	10444	15.04	659.0	2371
2.04	24.48	0.6218	23.53	10561	15.21	666.4	2398
2.05	24.60	0.6248	23.79	10679	15.38	673.8	2425
2.06	24.72	0.6279	24.06	10797	15.55	681.3	2451
2.07	24.84	0.6309	24.32	10916	15.72	688.8	2479
2.08	24.96	0.6340	24.59	11037	15.89	696.4	2506
2.09	25.08	0.6370	24.86	11157	16.07	704.1	2533
2.10	25.20	0.6401	25.13	11279	16.24	711.7	2561
2.11	25.32	0.6431	25.40	11402	16.42	719.5	2589
2.12	25.44	0.6462	25.68	11525	16.60	727.2	2617
2.13	25.56	0.6492	25.96	11649	16.78	735.1	2645
2.14	25.68	0.6523	26.23	11774	16.95	742.9	2673
2.15	25.80	0.6553	26.51	11899	17.14	750.9	2702
2.16	25.92	0.6584	26.80	12026	17.32	758.8	2730
2.17	26.04	0.6614	27.08	12153	17.50	766.9	2759
2.18	26.16	0.6645	27.36	12281	17.69	774.9	2788
2.19	26.28	0.6675	27.65	12410	17.87	783.1	2818
2.20	26.40	0.6706	27.94	12539	18.06	791.3	2847
2.21	26.52	0.6736	28.23	12670	18.25	799.5	2877
2.22	26.64	0.6767	28.52	12801	18.43	807.8	2906
2.23	26.76	0.6797	28.82	12933	18.62	816.1	2936
2.24	26.88	0.6828	29.11	13066	18.82	824.5	2967
2.25	27.00	0.6858	29.41	13199	19.01	832.9	2997
2.26	27.12	0.6888	29.71	13334	19.20	841.4	3027
2.27	27.24	0.6919	30.01	13469	19.40	849.9	3058
2.28	27.36	0.6949	30.31	13605	19.59	858.5	3089
2.29	27.48	0.6980	30.62	13742	19.79	867.1	3120
2.30	27.60	0.7010	30.93	13880	19.99	875.8	3151

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

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3.0-Foot HL Flume Discharge Table

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

Formulas (H in feet): $CFS = 0.000373 - 0.00046\ H_{ft}^{0.5} + 1.877055\ H_{ft}^{1.5} + 3.038756\ H_{ft}^{2.5}$

Formulas (H in meters): $L/S = 0.010562184 - 0.02359366\ H_{m}^{0.5} + 315.8634991\ H_{m}^{1.5} + 1677.657531\ H_{m}^{2.5}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
2.31	27.72	0.7041	31.23	14018	20.19	884.6	3183
2.32	27.84	0.7071	31.55	14157	20.39	893.4	3214
2.33	27.96	0.7102	31.86	14298	20.59	902.2	3246
2.34	28.08	0.7132	32.17	14439	20.79	911.1	3278
2.35	28.20	0.7163	32.49	14580	21.00	920.0	3310
2.36	28.32	0.7193	32.81	14723	21.20	929.0	3343
2.37	28.44	0.7224	33.12	14866	21.41	938.1	3375
2.38	28.56	0.7254	33.45	15011	21.62	947.2	3408
2.39	28.68	0.7285	33.77	15156	21.83	956.3	3441
2.40	28.80	0.7315	34.09	15302	22.04	965.6	3474
2.41	28.92	0.7346	34.42	15448	22.25	974.8	3508
2.42	29.04	0.7376	34.75	15596	22.46	984.1	3541
2.43	29.16	0.7407	35.08	15744	22.67	993.5	3575
2.44	29.28	0.7437	35.41	15894	22.89	1003	3609
2.45	29.40	0.7468	35.75	16044	23.10	1012	3643
2.46	29.52	0.7498	36.08	16195	23.32	1022	3677
2.47	29.64	0.7529	36.42	16347	23.54	1031	3711
2.48	29.76	0.7559	36.76	16499	23.76	1041	3746
2.49	29.88	0.7590	37.10	16653	23.98	1051	3781
2.50	30.00	0.7620	37.45	16807	24.20	1061	3816
2.51	30.12	0.7650	37.79	16962	24.43	1070	3851
2.52	30.24	0.7681	38.14	17118	24.65	1080	3887
2.53	30.36	0.7711	38.49	17275	24.88	1090	3922
2.54	30.48	0.7742	38.84	17433	25.10	1100	3958
2.55	30.60	0.7772	39.20	17591	25.33	1110	3994
2.56	30.72	0.7803	39.55	17751	25.56	1120	4030
2.57	30.84	0.7833	39.91	17911	25.79	1130	4067
2.58	30.96	0.7864	40.27	18072	26.03	1140	4103
2.59	31.08	0.7894	40.63	18234	26.26	1151	4140
2.60	31.20	0.7925	40.99	18397	26.49	1161	4177
2.61	31.32	0.7955	41.36	18561	26.73	1171	4214
2.62	31.44	0.7986	41.72	18726	26.97	1182	4252
2.63	31.56	0.8016	42.09	18891	27.20	1192	4289
2.64	31.68	0.8047	42.46	19057	27.44	1203	4327
2.65	31.80	0.8077	42.84	19225	27.68	1213	4365
2.66	31.92	0.8108	43.21	19393	27.93	1224	4403
2.67	32.04	0.8138	43.59	19562	28.17	1234	4441
2.68	32.16	0.8169	43.96	19731	28.41	1245	4480
2.69	32.28	0.8199	44.35	19902	28.66	1256	4519
2.70	32.40	0.8230	44.73	20074	28.91	1267	4558
2.71	32.52	0.8260	45.11	20246	29.16	1278	4597
2.72	32.64	0.8291	45.50	20420	29.41	1289	4636
2.73	32.76	0.8321	45.89	20594	29.66	1300	4676
2.74	32.88	0.8352	46.28	20769	29.91	1311	4716
2.75	33.00	0.8382	46.67	20945	30.16	1322	4756
2.76	33.12	0.8412	47.06	21122	30.42	1333	4796
2.77	33.24	0.8443	47.46	21300	30.67	1344	4836
2.78	33.36	0.8473	47.86	21478	30.93	1355	4877
2.79	33.48	0.8504	48.26	21658	31.19	1367	4917
2.80	33.60	0.8534	48.66	21838	31.45	1378	4958

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

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3.0-Foot HL Flume Discharge Table

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

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Formulas (H in meters): $L/S = 0.010562184 - 0.02359366\ H_{m}^{0.5} + 315.8634991\ H_{m}^{1.5} + 1677.657531\ H_{m}^{2.5}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
2.81	33.72	0.8565	49.06	22020	31.71	1389	5000
2.82	33.84	0.8595	49.47	22202	31.97	1401	5041
2.83	33.96	0.8626	49.88	22385	32.24	1413	5082
2.84	34.08	0.8656	50.29	22569	32.50	1424	5124
2.85	34.20	0.8687	50.70	22754	32.77	1436	5166
2.86	34.32	0.8717	51.11	22940	33.03	1448	5208
2.87	34.44	0.8748	51.53	23126	33.30	1459	5251
2.88	34.56	0.8778	51.95	23314	33.57	1471	5293
2.89	34.68	0.8809	52.37	23503	33.85	1483	5336
2.90	34.80	0.8839	52.79	23692	34.12	1495	5379
2.91	34.92	0.8870	53.21	23882	34.39	1507	5422
2.92	35.04	0.8900	53.64	24074	34.67	1519	5466
2.93	35.16	0.8931	54.07	24266	34.94	1531	5510
2.94	35.28	0.8961	54.50	24459	35.22	1543	5553
2.95	35.40	0.8992	54.93	24653	35.50	1556	5597
2.96	35.52	0.9022	55.36	24848	35.78	1568	5642
2.97	35.64	0.9053	55.80	25044	36.06	1580	5686
2.98	35.76	0.9083	56.24	25240	36.35	1593	5731
2.99	35.88	0.9114	56.68	25438	36.63	1605	5776
3.00	36.00	0.9144	57.12	25637	36.92	1618	5821

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