

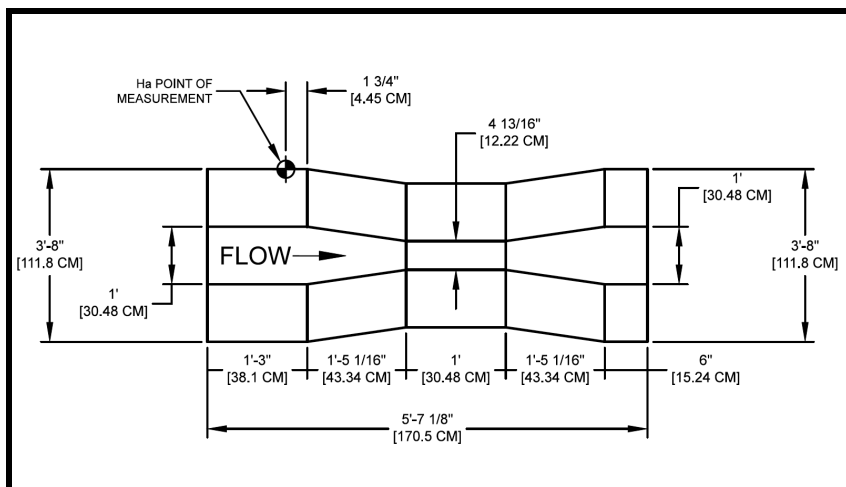


12 Inch 45-Degree SRCRC (No. 1) Trapezoidal Flume Discharge Table

80% Submergence Transition ±2-5% Accuracy

Formulas (H in feet): $CFS = 0.05 + 0.063 H_{ft}^{1.5} + 3.23 H_{ft}^{2.5}$
 Formulas (H in meters): $L/S = 1.416 + 106.0 H_m^{1.5} + 1783 H_m^{2.5}$

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					
0.03	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					
0.11	1.32	0.0335					
0.12	1.44	0.0366					
0.13	1.56	0.0396					
0.14	1.68	0.0427					
0.15	1.80	0.04572					
0.16	1.92	0.0488					
0.17	2.04	0.0518					
0.18	2.16	0.0549					
0.19	2.28	0.0579					
0.20	2.40	0.0610	0.1134	50.90	0.0733	3.212	11.56
0.21	2.52	0.0640	0.1213	54.46	0.0784	3.436	12.36
0.22	2.64	0.0671	0.1298	58.27	0.0839	3.677	13.23
0.23	2.76	0.0701	0.1389	62.34	0.0898	3.933	14.15
0.24	2.88	0.0732	0.1486	66.67	0.0960	4.207	15.14
0.25	3.00	0.0762	0.1588	71.28	0.1026	4.498	16.18
0.26	3.12	0.0792	0.1697	76.16	0.1097	4.806	17.29
0.27	3.24	0.0823	0.1812	81.32	0.1171	5.131	18.46
0.28	3.36	0.0853	0.1933	86.77	0.1250	5.475	19.70
0.29	3.48	0.0884	0.2061	92.51	0.1332	5.837	21.00
0.30	3.60	0.0914	0.2196	98.55	0.1419	6.218	22.37





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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.31	3.72	0.0945	0.2337	104.9	0.1510	6.618	23.81
0.32	3.84	0.0975	0.2485	111.5	0.1606	7.038	25.32
0.33	3.96	0.1006	0.2640	118.5	0.1706	7.477	26.90
0.34	4.08	0.1036	0.2802	125.8	0.1811	7.936	28.55
0.35	4.20	0.1067	0.2971	133.4	0.1920	8.415	30.28
0.36	4.32	0.1097	0.3148	141.3	0.2034	8.914	32.08
0.37	4.44	0.1128	0.3332	149.5	0.2153	9.435	33.95
0.38	4.56	0.1158	0.3523	158.1	0.2277	9.976	35.90
0.39	4.68	0.1189	0.3722	167.0	0.2405	10.54	37.92
0.40	4.80	0.1219	0.3928	176.3	0.2539	11.12	40.03
0.41	4.92	0.1250	0.4142	185.9	0.2677	11.73	42.21
0.42	5.04	0.1280	0.4364	195.9	0.2820	12.36	44.47
0.43	5.16	0.1311	0.4594	206.2	0.2969	13.01	46.81
0.44	5.28	0.1341	0.4832	216.9	0.3123	13.68	49.24
0.45	5.40	0.1372	0.5078	227.9	0.3282	14.38	51.74
0.46	5.52	0.1402	0.5332	239.3	0.3446	15.10	54.33
0.47	5.64	0.1433	0.5595	251.1	0.3616	15.84	57.01
0.48	5.76	0.1463	0.5865	263.2	0.3791	16.61	59.77
0.49	5.88	0.1494	0.6145	275.8	0.3971	17.40	62.62
0.50	6.00	0.1524	0.6433	288.7	0.4157	18.22	65.55
0.51	6.12	0.1554	0.6729	302.0	0.4349	19.06	68.57
0.52	6.24	0.1585	0.7034	315.7	0.4546	19.92	71.68
0.53	6.36	0.1615	0.7348	329.8	0.4749	20.81	74.88
0.54	6.48	0.1646	0.7671	344.3	0.4958	21.73	78.17
0.55	6.60	0.1676	0.8003	359.2	0.5172	22.66	81.55
0.56	6.72	0.1707	0.8344	374.5	0.5393	23.63	85.03
0.57	6.84	0.1737	0.8694	390.2	0.5619	24.62	88.59
0.58	6.96	0.1768	0.9053	406.3	0.5851	25.64	92.25
0.59	7.08	0.1798	0.9422	422.9	0.6089	26.68	96.01
0.60	7.20	0.1829	0.9800	439.8	0.6334	27.75	99.86
0.61	7.32	0.1859	1.019	457.2	0.6584	28.85	103.8
0.62	7.44	0.1890	1.058	475.0	0.6840	29.97	107.9
0.63	7.56	0.1920	1.099	493.3	0.7103	31.13	112.0
0.64	7.68	0.1951	1.141	511.9	0.7372	32.30	116.2
0.65	7.80	0.1981	1.183	531.0	0.7647	33.51	120.6
0.66	7.92	0.2012	1.227	550.6	0.7929	34.74	125.0
0.67	8.04	0.2042	1.271	570.6	0.8217	36.01	129.6
0.68	8.16	0.2073	1.317	591.0	0.8511	37.30	134.2
0.69	8.28	0.2103	1.364	611.9	0.8812	38.61	138.9
0.70	8.40	0.2134	1.411	633.3	0.9120	39.96	143.8
0.71	8.52	0.2164	1.460	655.1	0.9434	41.34	148.7
0.72	8.64	0.2195	1.509	677.4	0.9755	42.74	153.8
0.73	8.76	0.2225	1.560	700.1	1.008	44.18	159.0
0.74	8.88	0.2256	1.612	723.3	1.042	45.64	164.2
0.75	9.00	0.2286	1.664	747.0	1.076	47.14	169.6
0.76	9.12	0.2316	1.718	771.1	1.110	48.66	175.1
0.77	9.24	0.2347	1.773	795.7	1.146	50.21	180.7
0.78	9.36	0.2377	1.829	820.8	1.182	51.80	186.4
0.79	9.48	0.2408	1.886	846.4	1.219	53.41	192.2
0.80	9.60	0.2438	1.944	872.5	1.256	55.06	198.1



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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.81	9.72	0.2469	2.003	899.0	1.295	56.731	204.1
0.82	9.84	0.2499	2.063	926.1	1.334	58.438	210.3
0.83	9.96	0.2530	2.125	953.6	1.373	60.18	216.5
0.84	10.08	0.2560	2.187	981.7	1.414	61.94	222.9
0.85	10.20	0.2591	2.251	1010	1.455	63.75	229.4
0.86	10.32	0.2621	2.316	1039	1.497	65.58	236.0
0.87	10.44	0.2652	2.381	1069	1.539	67.44	242.7
0.88	10.56	0.2682	2.448	1099	1.582	69.34	249.5
0.89	10.68	0.2713	2.517	1129	1.626	71.27	256.4
0.90	10.80	0.2743	2.586	1161	1.671	73.23	263.5
0.91	10.92	0.2774	2.656	1192	1.717	75.23	270.7
0.92	11.04	0.2804	2.728	1224	1.763	77.25	278.0
0.93	11.16	0.2835	2.801	1257	1.810	79.31	285.4
0.94	11.28	0.2865	2.874	1290	1.858	81.41	292.9
0.95	11.40	0.2896	2.950	1324	1.906	83.53	300.6
0.96	11.52	0.2926	3.026	1358	1.956	85.69	308.3
0.97	11.64	0.2957	3.103	1393	2.006	87.89	316.2
0.98	11.76	0.2987	3.182	1428	2.057	90.12	324.2
0.99	11.88	0.3018	3.262	1464	2.108	92.38	332.4
1.00	12.00	0.3048	3.343	1500	2.161	94.67	340.7
1.01	12.12	0.3078	3.425	1537	2.214	97.00	349.0
1.02	12.24	0.3109	3.509	1575	2.268	99.37	357.5
1.03	12.36	0.3139	3.594	1613	2.323	101.8	366.2
1.04	12.48	0.3170	3.680	1651	2.378	104.2	374.9
1.05	12.60	0.3200	3.767	1691	2.434	106.7	383.8
1.06	12.72	0.3231	3.855	1730	2.492	109.2	392.9
1.07	12.84	0.3261	3.945	1771	2.550	111.7	402.0
1.08	12.96	0.3292	4.036	1811	2.608	114.3	411.3
1.09	13.08	0.3322	4.128	1853	2.668	116.9	420.7
1.10	13.20	0.3353	4.222	1895	2.729	119.6	430.2
1.11	13.32	0.3383	4.317	1937	2.790	122.2	439.9
1.12	13.44	0.3414	4.413	1980	2.852	125.0	449.6
1.13	13.56	0.3444	4.510	2024	2.915	127.7	459.6
1.14	13.68	0.3475	4.609	2068	2.979	130.5	469.6
1.15	13.80	0.3505	4.709	2113	3.043	133.3	479.8
1.16	13.92	0.3536	4.810	2159	3.109	136.2	490.1
1.17	14.04	0.3566	4.912	2205	3.175	139.1	500.6
1.18	14.16	0.3597	5.016	2251	3.242	142.1	511.2
1.19	14.28	0.3627	5.121	2298	3.310	145.0	521.9
1.20	14.40	0.3658	5.228	2346	3.379	148.1	532.7
1.21	14.52	0.3688	5.336	2395	3.449	151.1	543.7
1.22	14.64	0.3719	5.445	2444	3.519	154.2	554.8
1.23	14.76	0.3749	5.556	2493	3.591	157.3	566.1
1.24	14.88	0.3780	5.667	2544	3.663	160.5	577.5
1.25	15.00	0.3810	5.781	2594	3.736	163.7	589.0
1.26	15.12	0.3840	5.895	2646	3.810	167.0	600.7
1.27	15.24	0.3871	6.011	2698	3.885	170.2	612.5
1.28	15.36	0.3901	6.128	2750	3.961	173.6	624.5
1.29	15.48	0.3932	6.247	2804	4.038	176.9	636.6