

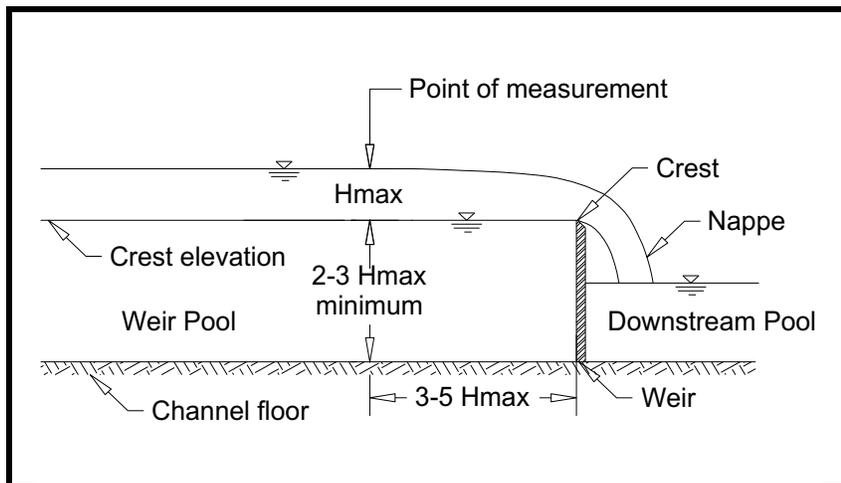
2-Foot [60.96 cm] Cipolletti Weir Discharge Table

±5% Accuracy

Formulas (H in feet): CFS = 6.734 H_{ft.}^{1.5} GPM = 3022 H_{ft.}^{1.5} MGD = 4.352 H_{ft.}^{1.5}
 Formulas (H in meters): L/S = 1133 H_m^{1.5} M3/HR = 4079 H_m^{1.5}

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					
0.11	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	0.0457					
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	0.6023	270.3	0.3893	17.06	61.38
0.21	2.52	0.0640	0.6480	290.8	0.4188	18.35	66.04
0.22	2.64	0.0671	0.6949	311.9	0.4491	19.68	70.81
0.23	2.76	0.0701	0.7428	333.4	0.4801	21.04	75.69
0.24	2.88	0.0732	0.7918	355.3	0.5117	22.42	80.68
0.25	3.00	0.0762	0.8418	377.8	0.5440	23.84	85.77
0.26	3.12	0.0792	0.8928	400.7	0.5770	25.28	90.97
0.27	3.24	0.0823	0.9448	424.0	0.6106	26.76	96.27
0.28	3.36	0.0853	0.9977	447.8	0.6448	28.26	101.7
0.29	3.48	0.0884	1.052	472.0	0.6797	29.78	107.2
0.30	3.60	0.0914	1.107	496.6	0.7151	31.34	112.8

Nappe may cling to downstream weir face





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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.31	3.72	0.0945	1.162	521.6	0.7512	32.92	118.4
0.32	3.84	0.0975	1.219	547.1	0.7878	34.52	124.2
0.33	3.96	0.1006	1.277	572.9	0.8250	36.15	130.1
0.34	4.08	0.1036	1.335	599.2	0.8628	37.81	136.0
0.35	4.20	0.1067	1.394	625.8	0.9012	39.49	142.1
0.36	4.32	0.1097	1.455	652.8	0.9401	41.19	148.2
0.37	4.44	0.1128	1.516	680.2	0.9795	42.92	154.4
0.38	4.56	0.1158	1.577	707.9	1.019	44.67	160.7
0.39	4.68	0.1189	1.640	736.1	1.060	46.45	167.1
0.40	4.80	0.1219	1.704	764.6	1.101	48.25	173.6
0.41	4.92	0.1250	1.768	793.4	1.143	50.07	180.1
0.42	5.04	0.1280	1.833	822.6	1.185	51.91	186.8
0.43	5.16	0.1311	1.899	852.2	1.227	53.77	193.5
0.44	5.28	0.1341	1.965	882.1	1.270	55.66	200.3
0.45	5.40	0.1372	2.033	912.3	1.314	57.57	207.1
0.46	5.52	0.1402	2.101	942.9	1.358	59.50	214.1
0.47	5.64	0.1433	2.170	973.8	1.402	61.45	221.1
0.48	5.76	0.1463	2.239	1005	1.447	63.42	228.2
0.49	5.88	0.1494	2.310	1037	1.493	65.41	235.4
0.50	6.00	0.1524	2.381	1069	1.539	67.43	242.6
0.51	6.12	0.1554	2.453	1101	1.585	69.46	249.9
0.52	6.24	0.1585	2.525	1133	1.632	71.51	257.3
0.53	6.36	0.1615	2.598	1166	1.679	73.58	264.8
0.54	6.48	0.1646	2.672	1199	1.727	75.68	272.3
0.55	6.60	0.1676	2.747	1233	1.775	77.79	279.9
0.56	6.72	0.1707	2.822	1267	1.824	79.92	287.6
0.57	6.84	0.1737	2.898	1301	1.873	82.07	295.3
0.58	6.96	0.1768	2.975	1335	1.922	84.24	303.1
0.59	7.08	0.1798	3.052	1370	1.972	86.43	311.0
0.60	7.20	0.1829	3.130	1405	2.023	88.63	318.9
0.61	7.32	0.1859	3.208	1440	2.073	90.86	326.9
0.62	7.44	0.1890	3.287	1475	2.125	93.10	335.0
0.63	7.56	0.1920	3.367	1511	2.176	95.36	343.1
0.64	7.68	0.1951	3.448	1547	2.228	97.64	351.3
0.65	7.80	0.1981	3.529	1584	2.281	99.94	359.6
0.66	7.92	0.2012	3.611	1620	2.334	102.3	367.9
0.67	8.04	0.2042	3.693	1657	2.387	104.6	376.3
0.68	8.16	0.2073	3.776	1695	2.440	106.9	384.8
0.69	8.28	0.2103	3.860	1732	2.494	109.3	393.3
0.70	8.40	0.2134	3.944	1770	2.549	111.7	401.9
0.71	8.52	0.2164	4.029	1808	2.604	114.1	410.5
0.72	8.64	0.2195	4.114	1846	2.659	116.5	419.2
0.73	8.76	0.2225	4.200	1885	2.715	118.9	428.0
0.74	8.88	0.2256	4.287	1924	2.770	121.4	436.8
0.75	9.00	0.2286	4.374	1963	2.827	123.9	445.7
0.76	9.12	0.2316	4.462	2002	2.884	126.4	454.6
0.77	9.24	0.2347	4.550	2042	2.941	128.9	463.6
0.78	9.36	0.2377	4.639	2082	2.998	131.4	472.7
0.79	9.48	0.2408	4.728	2122	3.056	133.9	481.8
0.80	9.60	0.2438	4.818	2163	3.114	136.5	491.0

Sources: [Shen, J., Preliminary Report on the Discharge Characteristics of Trapezoidal-Notch Thin-Plate Weirs](#), US Geological Survey, July, 1959
[Isco Open Channel Flow Measurement Handbook](#), 6th Edition



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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.81	9.72	0.2469	4.909	2203	3.173	139.0	500.2
0.82	9.84	0.2499	5.000	2244	3.232	141.6	509.5
0.83	9.96	0.2530	5.092	2285	3.291	144.2	518.9
0.84	10.08	0.2560	5.184	2327	3.351	146.8	528.3
0.85	10.20	0.2591	5.277	2368	3.411	149.4	537.7
0.86	10.32	0.2621	5.371	2410	3.471	152.1	547.3
0.87	10.44	0.2652	5.465	2452	3.532	154.8	556.8
0.88	10.56	0.2682	5.559	2495	3.593	157.4	566.5
0.89	10.68	0.2713	5.654	2538	3.654	160.1	576.1
0.90	10.80	0.2743	5.750	2580	3.716	162.8	585.9
0.91	10.92	0.2774	5.846	2624	3.778	165.5	595.7
0.92	11.04	0.2804	5.942	2667	3.841	168.3	605.5
0.93	11.16	0.2835	6.039	2711	3.903	171.0	615.4
0.94	11.28	0.2865	6.137	2754	3.966	173.8	625.4
0.95	11.40	0.2896	6.235	2798	4.030	176.6	635.4
0.96	11.52	0.2926	6.334	2843	4.094	179.4	645.4
0.97	11.64	0.2957	6.433	2887	4.158	182.2	655.5
0.98	11.76	0.2987	6.533	2932	4.222	185.0	665.7
0.99	11.88	0.3018	6.633	2977	4.287	187.9	675.9
1.00	12.00	0.3048	6.734	3022	4.352	190.7	686.2