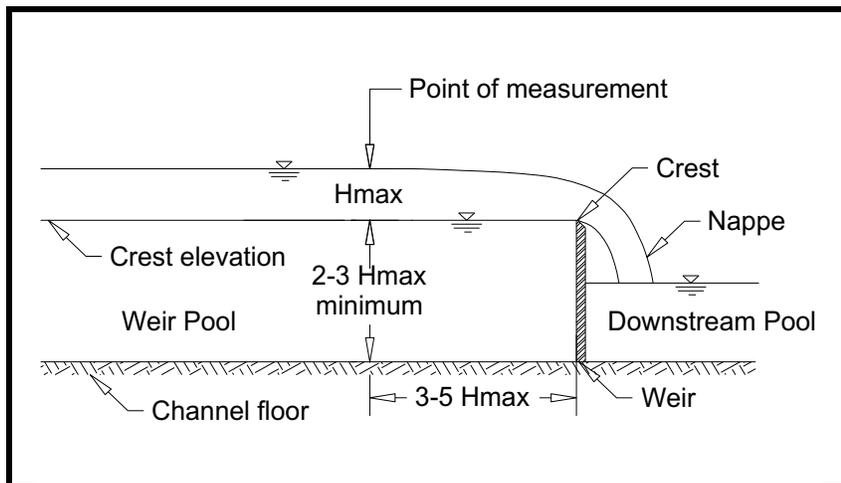


Formulas (H in feet): CFS = 8.418 H_{ft.}^{1.5} GPM = 3778 H_{ft.}^{1.5} MGD = 5.440 H_{ft.}^{1.5}
 Formulas (H in meters): L/S = 1487 H_m^{1.5} M3/HR = 5354 H_m^{1.5}

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	0.7529	337.9	0.4866	21.32	76.72
0.21	2.52	0.0640	0.8101	363.6	0.5236	22.94	82.55
0.22	2.64	0.0671	0.8686	389.8	0.5614	24.60	88.52
0.23	2.76	0.0701	0.9285	416.7	0.6001	26.30	94.62
0.24	2.88	0.0732	0.9898	444.2	0.6397	28.03	100.9
0.25	3.00	0.0762	1.052	472.2	0.6801	29.80	107.2
0.26	3.12	0.0792	1.116	500.9	0.7213	31.61	113.7
0.27	3.24	0.0823	1.181	530.0	0.7633	33.45	120.3
0.28	3.36	0.0853	1.247	559.8	0.8061	35.32	127.1
0.29	3.48	0.0884	1.315	590.0	0.8497	37.23	134.0
0.30	3.60	0.0914	1.383	620.8	0.8940	39.17	140.9

Nappe may cling to downstream weir face





2 1/2-Foot [76.2 cm] Cipolletti Weir Discharge Table

±5% Accuracy

Formulas (H in feet): CFS = 8.418 H_{ft.}^{1.5} GPM = 3778 H_{ft.}^{1.5} MGD = 5.440 H_{ft.}^{1.5}
 Formulas (H in meters): L/S = 1487 H_m^{1.5} M3/HR = 5354 H_m^{1.5}

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.31	3.72	0.0945	1.453	652.1	0.9390	41.15	148.1
0.32	3.84	0.0975	1.524	683.9	0.9848	43.15	155.3
0.33	3.96	0.1006	1.596	716.2	1.031	45.19	162.6
0.34	4.08	0.1036	1.669	749.0	1.079	47.26	170.1
0.35	4.20	0.1067	1.743	782.3	1.127	49.36	177.6
0.36	4.32	0.1097	1.818	816.0	1.175	51.49	185.3
0.37	4.44	0.1128	1.895	850.3	1.224	53.65	193.1
0.38	4.56	0.1158	1.972	885.0	1.274	55.84	200.9
0.39	4.68	0.1189	2.050	920.2	1.325	58.06	208.9
0.40	4.80	0.1219	2.130	955.8	1.376	60.31	217.0
0.41	4.92	0.1250	2.210	991.8	1.428	62.59	225.2
0.42	5.04	0.1280	2.291	1028	1.481	64.89	233.5
0.43	5.16	0.1311	2.374	1065	1.534	67.22	241.9
0.44	5.28	0.1341	2.457	1103	1.588	69.58	250.4
0.45	5.40	0.1372	2.541	1140	1.642	71.96	258.9
0.46	5.52	0.1402	2.626	1179	1.697	74.38	267.6
0.47	5.64	0.1433	2.712	1217	1.753	76.82	276.4
0.48	5.76	0.1463	2.799	1256	1.809	79.28	285.3
0.49	5.88	0.1494	2.887	1296	1.866	81.77	294.2
0.50	6.00	0.1524	2.976	1336	1.924	84.29	303.3
0.51	6.12	0.1554	3.066	1376	1.982	86.83	312.4
0.52	6.24	0.1585	3.157	1417	2.040	89.39	321.7
0.53	6.36	0.1615	3.248	1458	2.099	91.98	331.0
0.54	6.48	0.1646	3.340	1499	2.159	94.60	340.4
0.55	6.60	0.1676	3.434	1541	2.219	97.24	349.9
0.56	6.72	0.1707	3.528	1583	2.280	99.90	359.5
0.57	6.84	0.1737	3.623	1626	2.341	102.6	369.1
0.58	6.96	0.1768	3.718	1669	2.403	105.3	378.9
0.59	7.08	0.1798	3.815	1712	2.466	108.0	388.7
0.60	7.20	0.1829	3.912	1756	2.529	110.8	398.7
0.61	7.32	0.1859	4.011	1800	2.592	113.6	408.7
0.62	7.44	0.1890	4.110	1844	2.656	116.4	418.8
0.63	7.56	0.1920	4.209	1889	2.721	119.2	428.9
0.64	7.68	0.1951	4.310	1934	2.786	122.1	439.2
0.65	7.80	0.1981	4.411	1980	2.851	124.9	449.5
0.66	7.92	0.2012	4.514	2026	2.917	127.8	459.9
0.67	8.04	0.2042	4.617	2072	2.984	130.7	470.4
0.68	8.16	0.2073	4.720	2118	3.051	133.7	481.0
0.69	8.28	0.2103	4.825	2165	3.118	136.6	491.7
0.70	8.40	0.2134	4.930	2213	3.186	139.6	502.4
0.71	8.52	0.2164	5.036	2260	3.255	142.6	513.2
0.72	8.64	0.2195	5.143	2308	3.324	145.6	524.1
0.73	8.76	0.2225	5.250	2356	3.393	148.7	535.0
0.74	8.88	0.2256	5.359	2405	3.463	151.8	546.0
0.75	9.00	0.2286	5.468	2454	3.534	154.8	557.2
0.76	9.12	0.2316	5.577	2503	3.605	158.0	568.3
0.77	9.24	0.2347	5.688	2553	3.676	161.1	579.6
0.78	9.36	0.2377	5.799	2603	3.748	164.2	590.9
0.79	9.48	0.2408	5.911	2653	3.820	167.4	602.3
0.80	9.60	0.2438	6.023	2703	3.893	170.6	613.8

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



2 1/2-Foot [76.2 cm] Cipolletti Weir Discharge Table

±5% Accuracy

Formulas (H in feet): CFS = 8.418 H_{ft.}^{1.5} GPM = 3778 H_{ft.}^{1.5} MGD = 5.440 H_{ft.}^{1.5}
 Formulas (H in meters): L/S = 1487 H_m^{1.5} M3/HR = 5354 H_m^{1.5}

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.81	9.72	0.2469	6.137	2754	3.966	173.8	625.3
0.82	9.84	0.2499	6.251	2805	4.040	177.0	636.9
0.83	9.96	0.2530	6.365	2857	4.114	180.3	648.6
0.84	10.08	0.2560	6.481	2909	4.189	183.5	660.4
0.85	10.20	0.2591	6.597	2961	4.264	186.8	672.2
0.86	10.32	0.2621	6.714	3013	4.339	190.1	684.1
0.87	10.44	0.2652	6.831	3066	4.415	193.5	696.1
0.88	10.56	0.2682	6.949	3119	4.491	196.8	708.1
0.89	10.68	0.2713	7.068	3172	4.568	200.2	720.2
0.90	10.80	0.2743	7.187	3226	4.645	203.5	732.4
0.91	10.92	0.2774	7.308	3280	4.723	206.9	744.6
0.92	11.04	0.2804	7.428	3334	4.801	210.4	756.9
0.93	11.16	0.2835	7.550	3388	4.879	213.8	769.3
0.94	11.28	0.2865	7.672	3443	4.958	217.3	781.8
0.95	11.40	0.2896	7.795	3498	5.038	220.7	794.3
0.96	11.52	0.2926	7.918	3554	5.117	224.2	806.8
0.97	11.64	0.2957	8.042	3609	5.198	227.8	819.5
0.98	11.76	0.2987	8.167	3665	5.278	231.3	832.2
0.99	11.88	0.3018	8.292	3721	5.359	234.8	845.0
1.00	12.00	0.3048	8.418	3778	5.441	238.4	857.8
1.01	12.12	0.3078	8.545	3835	5.522	242.0	870.7
1.02	12.24	0.3109	8.672	3892	5.605	245.6	883.7
1.03	12.36	0.3139	8.800	3949	5.687	249.2	896.7
1.04	12.48	0.3170	8.928	4007	5.770	252.8	909.8
1.05	12.60	0.3200	9.057	4065	5.854	256.5	922.9
1.06	12.72	0.3231	9.187	4123	5.937	260.2	936.1
1.07	12.84	0.3261	9.317	4182	6.022	263.9	949.4
1.08	12.96	0.3292	9.448	4240	6.106	267.6	962.8
1.09	13.08	0.3322	9.580	4299	6.191	271.3	976.2
1.10	13.20	0.3353	9.712	4359	6.277	275.0	989.6
1.11	13.32	0.3383	9.844	4418	6.362	278.8	1003
1.12	13.44	0.3414	9.978	4478	6.449	282.6	1017
1.13	13.56	0.3444	10.11	4538	6.535	286.4	1030
1.14	13.68	0.3475	10.25	4599	6.622	290.2	1044
1.15	13.80	0.3505	10.38	4659	6.709	294.0	1058
1.16	13.92	0.3536	10.52	4720	6.797	297.8	1072
1.17	14.04	0.3566	10.65	4781	6.885	301.7	1086
1.18	14.16	0.3597	10.79	4843	6.974	305.6	1100
1.19	14.28	0.3627	10.93	4904	7.063	309.5	1114
1.20	14.40	0.3658	11.07	4966	7.152	313.4	1128
1.21	14.52	0.3688	11.20	5029	7.241	317.3	1142
1.22	14.64	0.3719	11.34	5091	7.331	321.2	1156
1.23	14.76	0.3749	11.48	5154	7.422	325.2	1170
1.24	14.88	0.3780	11.62	5217	7.512	329.2	1184
1.25	15.00	0.3810	11.76	5280	7.603	333.2	1199

Sources: [Shen, J., Preliminary Report on the Discharge Characteristics of Trapezoidal-Notch Thin-Plate Weirs](#), US Geological Survey, July, 1959
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