



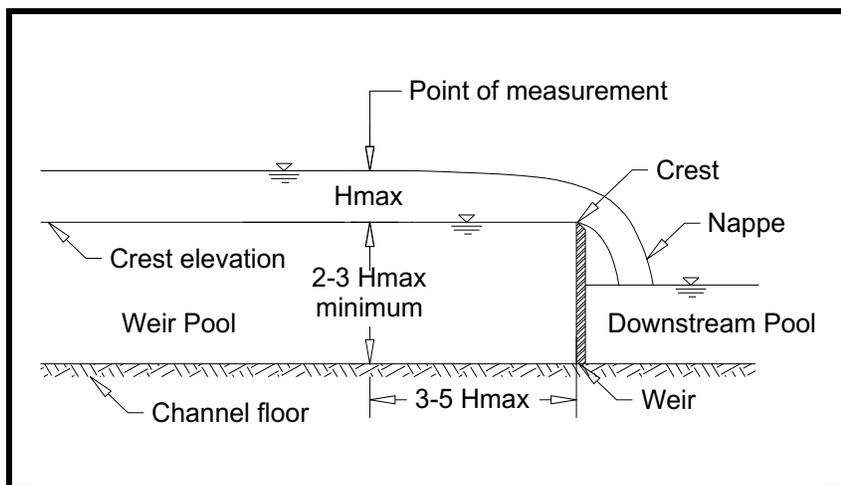
Portable 90° V-Notch Weir Discharge Table

±2-5% Accuracy

Formulas (H in feet): CFS = 2.500 H_{ft.}^{2.5} GPM = 1122 H_{ft.}^{2.5} MGD = 1.616 H_{ft.}^{2.5}
 Formulas (H in meters): L/S = 1380 H_m^{2.5} M3/HR = 4969 H_m^{2.5}

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	0.0447	20.07	0.0289	1.267	4.557
0.21	2.52	0.0640	0.0505	22.67	0.0327	1.431	5.148
0.22	2.64	0.0671	0.0568	25.47	0.0367	1.607	5.783
0.23	2.76	0.0701	0.0634	28.47	0.0410	1.796	6.463
0.24	2.88	0.0732	0.0705	31.66	0.0456	1.998	7.189
0.25	3.00	0.0762	0.0781	35.06	0.0505	2.213	7.961
0.26	3.12	0.0792	0.0862	38.67	0.0557	2.440	8.781
0.27	3.24	0.0823	0.0947	42.50	0.0612	2.682	9.650
0.28	3.36	0.0853	0.1037	46.55	0.0670	2.937	10.57
0.29	3.48	0.0884	0.1132	50.81	0.0732	3.206	11.54
0.30	3.60	0.0914	0.1232	55.31	0.0796	3.490	12.56

Nappe may cling to downstream weir face



Sources: Skrenter, R., Instrumentation Handbook Water and Wastewater Treatment Plants
 ASTM D 5242-92 (2001): Standard Test Method for Open Channel Flow Measurement of Water with Thin-Plate Weirs



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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.31	3.72	0.0945	0.1338	60.03	0.0865	3.788	13.63
0.32	3.84	0.0975	0.1448	64.99	0.0936	4.101	14.76
0.33	3.96	0.1006	0.1564	70.19	0.1011	4.429	15.94
0.34	4.08	0.1036	0.1685	75.63	0.1089	4.772	17.17
0.35	4.20	0.1067	0.1812	81.31	0.1171	5.131	18.46
0.36	4.32	0.1097	0.1944	87.25	0.1256	5.505	19.81
0.37	4.44	0.1128	0.2082	93.43	0.1345	5.896	21.21
0.38	4.56	0.1158	0.2225	99.87	0.1438	6.302	22.68
0.39	4.68	0.1189	0.2375	106.6	0.1535	6.725	24.20
0.40	4.80	0.1219	0.2530	113.5	0.1635	7.164	25.78
0.41	4.92	0.1250	0.2691	120.8	0.1739	7.621	27.42
0.42	5.04	0.1280	0.2858	128.3	0.1847	8.094	29.12
0.43	5.16	0.1311	0.3031	136.0	0.1959	8.584	30.89
0.44	5.28	0.1341	0.3210	144.1	0.2075	9.092	32.71
0.45	5.40	0.1372	0.3396	152.4	0.2195	9.618	34.61
0.46	5.52	0.1402	0.3588	161.0	0.2319	10.16	36.56
0.47	5.64	0.1433	0.3786	169.9	0.2447	10.72	38.58
0.48	5.76	0.1463	0.3991	179.1	0.2579	11.30	40.66
0.49	5.88	0.1494	0.4202	188.6	0.2716	11.90	42.82
0.50	6.00	0.1524	0.4419	198.3	0.2856	12.52	45.03
0.51	6.12	0.1554	0.4644	208.4	0.3001	13.15	47.32
0.52	6.24	0.1585	0.4875	218.8	0.3151	13.81	49.67
0.53	6.36	0.1615	0.5112	229.4	0.3304	14.48	52.10
0.54	6.48	0.1646	0.5357	240.4	0.3462	15.17	54.59
0.55	6.60	0.1676	0.5609	251.7	0.3625	15.88	57.15
0.56	6.72	0.1707	0.5867	263.3	0.3792	16.62	59.78
0.57	6.84	0.1737	0.6132	275.2	0.3963	17.37	62.49
0.58	6.96	0.1768	0.6405	287.5	0.4139	18.14	65.27
0.59	7.08	0.1798	0.6685	300.0	0.4320	18.93	68.12
0.60	7.20	0.1829	0.6971	312.9	0.4506	19.74	71.04
0.61	7.32	0.1859	0.7265	326.1	0.4696	20.58	74.04
0.62	7.44	0.1890	0.7567	339.6	0.4891	21.43	77.11

Sources: Skrenter, R., Instrumentation Handbook Water and Wastewater Treatment Plants

ASTM D 5242-92 (2001): Standard Test Method for Open Channel Flow Measurement of Water with Thin-Plate Weirs