

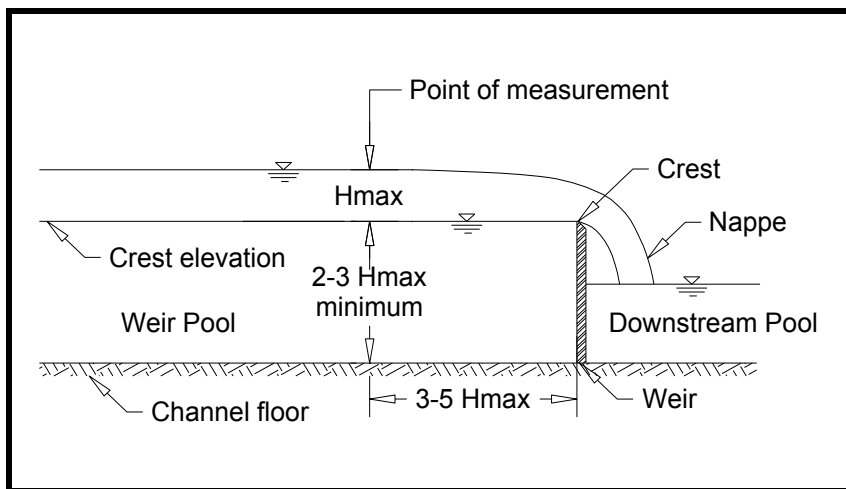


90° V-Notch Weir Discharge Table

±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	Nappe may cling to downstream weir face				
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



Sources:

Skrenter, R., *Instrumentation Handbook Water and Wastewater Treatment Plants*

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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
0.63	7.56	0.1920	0.7876	353.5	0.5090	22.30	80.25
0.64	7.68	0.1951	0.8192	367.7	0.5294	23.20	83.48
0.65	7.80	0.1981	0.8516	382.2	0.5504	24.12	86.78
0.66	7.92	0.2012	0.8847	397.1	0.5718	25.05	90.15
0.67	8.04	0.2042	0.9186	412.3	0.5937	26.01	93.61
0.68	8.16	0.2073	0.9533	427.8	0.6161	27.00	97.14
0.69	8.28	0.2103	0.9887	443.7	0.6390	28.00	100.7
0.70	8.40	0.2134	1.025	460.0	0.6624	29.03	104.4
0.71	8.52	0.2164	1.062	476.6	0.6863	30.07	108.2
0.72	8.64	0.2195	1.100	493.5	0.7107	31.14	112.1
0.73	8.76	0.2225	1.138	510.9	0.7357	32.24	116.0
0.74	8.88	0.2256	1.178	528.5	0.7611	33.35	120.0
0.75	9.00	0.2286	1.218	546.6	0.7871	34.49	124.1
0.76	9.12	0.2316	1.259	565.0	0.8136	35.65	128.3
0.77	9.24	0.2347	1.301	583.7	0.8406	36.83	132.5
0.78	9.36	0.2377	1.343	602.9	0.8682	38.04	136.9
0.79	9.48	0.2408	1.387	622.4	0.8963	39.27	141.3
0.80	9.60	0.2438	1.431	642.3	0.9249	40.53	145.8

Sources:

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90° V-Notch Weir Discharge Table

±2-5% Accuracy

Formulas (H in feet): CFS = $2.500 H_{ft}^{2.5}$
 Formulas (H in meters): L/S = $1380 H_m^{2.5}$

GPM = $1122 H_{ft}^{2.5}$ MGD = $1.616 H_{ft}^{2.5}$
 M3/HR = $4969 H_m^{2.5}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.81	9.72	0.2469	1.476	662.5	0.9541	41.81	150.4
0.82	9.84	0.2499	1.522	683.2	0.9838	43.11	155.1
0.83	9.96	0.2530	1.569	704.2	1.014	44.44	159.9
0.84	10.08	0.2560	1.617	725.6	1.045	45.79	164.7
0.85	10.20	0.2591	1.665	747.4	1.076	47.16	169.7
0.86	10.32	0.2621	1.715	769.6	1.108	48.56	174.7
0.87	10.44	0.2652	1.765	792.1	1.141	49.98	179.9
0.88	10.56	0.2682	1.816	815.1	1.174	51.43	185.1
0.89	10.68	0.2713	1.868	838.4	1.207	52.91	190.4
0.90	10.80	0.2743	1.921	862.2	1.242	54.41	195.8
0.91	10.92	0.2774	1.975	886.3	1.276	55.93	201.2
0.92	11.04	0.2804	2.030	910.9	1.312	57.48	206.8
0.93	11.16	0.2835	2.085	935.8	1.348	59.05	212.5
0.94	11.28	0.2865	2.142	961.2	1.384	60.65	218.2
0.95	11.40	0.2896	2.199	987.0	1.421	62.28	224.1
0.96	11.52	0.2926	2.257	1013	1.459	63.93	230.0
0.97	11.64	0.2957	2.317	1040	1.497	65.61	236.1
0.98	11.76	0.2987	2.377	1067	1.536	67.31	242.2
0.99	11.88	0.3018	2.438	1094	1.576	69.04	248.4
1.00	12.00	0.3048	2.500	1122	1.616	70.80	254.8
1.01	12.12	0.3078	2.563	1150	1.656	72.58	261.2
1.02	12.24	0.3109	2.627	1179	1.698	74.39	267.7
1.03	12.36	0.3139	2.692	1208	1.740	76.23	274.3
1.04	12.48	0.3170	2.758	1238	1.782	78.09	281.0
1.05	12.60	0.3200	2.824	1268	1.825	79.98	287.8
1.06	12.72	0.3231	2.892	1298	1.869	81.90	294.7
1.07	12.84	0.3261	2.961	1329	1.914	83.85	301.7
1.08	12.96	0.3292	3.030	1360	1.959	85.82	308.8
1.09	13.08	0.3322	3.101	1392	2.004	87.82	316.0
1.10	13.20	0.3353	3.173	1424	2.050	89.85	323.3
1.11	13.32	0.3383	3.245	1456	2.097	91.91	330.7
1.12	13.44	0.3414	3.319	1489	2.145	93.99	338.2
1.13	13.56	0.3444	3.393	1523	2.193	96.10	345.8
1.14	13.68	0.3475	3.469	1557	2.242	98.24	353.5
1.15	13.80	0.3505	3.546	1591	2.291	100.4	361.3
1.16	13.92	0.3536	3.623	1626	2.342	102.6	369.2
1.17	14.04	0.3566	3.702	1661	2.392	104.8	377.2
1.18	14.16	0.3597	3.781	1697	2.444	107.1	385.3
1.19	14.28	0.3627	3.862	1733	2.496	109.4	393.5
1.20	14.40	0.3658	3.944	1770	2.549	111.7	401.9
1.21	14.52	0.3688	4.026	1807	2.602	114.0	410.3
1.22	14.64	0.3719	4.110	1845	2.656	116.4	418.8
1.23	14.76	0.3749	4.195	1883	2.711	118.8	427.4
1.24	14.88	0.3780	4.280	1921	2.766	121.2	436.2
1.25	15.00	0.3810	4.367	1960	2.823	123.7	445.0
1.26	15.12	0.3840	4.455	1999	2.879	126.2	454.0
1.27	15.24	0.3871	4.544	2039	2.937	128.7	463.0
1.28	15.36	0.3901	4.634	2080	2.995	131.2	472.2
1.29	15.48	0.3932	4.725	2121	3.054	133.8	481.5
1.30	15.60	0.3962	4.817	2162	3.113	136.4	490.9

Sources:

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90° V-Notch Weir Discharge Table

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

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.31	15.72	0.3993	4.910	2204	3.174	139.1	500.4
1.32	15.84	0.4023	5.005	2246	3.235	141.7	510.0
1.33	15.96	0.4054	5.100	2289	3.296	144.4	519.7
1.34	16.08	0.4084	5.196	2332	3.358	147.2	529.5
1.35	16.20	0.4115	5.294	2376	3.421	149.9	539.4
1.36	16.32	0.4145	5.392	2420	3.485	152.7	549.5
1.37	16.44	0.4176	5.492	2465	3.550	155.5	559.6
1.38	16.56	0.4206	5.593	2510	3.615	158.4	569.9
1.39	16.68	0.4237	5.695	2556	3.681	161.3	580.3
1.40	16.80	0.4267	5.798	2602	3.747	164.2	590.8
1.41	16.92	0.4298	5.902	2649	3.814	167.1	601.4
1.42	17.04	0.4328	6.007	2696	3.882	170.1	612.1
1.43	17.16	0.4359	6.113	2744	3.951	173.1	623.0
1.44	17.28	0.4389	6.221	2792	4.021	176.2	633.9
1.45	17.40	0.4420	6.329	2841	4.091	179.2	645.0
1.46	17.52	0.4450	6.439	2890	4.162	182.4	656.1
1.47	17.64	0.4481	6.550	2940	4.233	185.5	667.4
1.48	17.76	0.4511	6.662	2990	4.306	188.7	678.8
1.49	17.88	0.4542	6.775	3041	4.379	191.9	690.4
1.50	18.00	0.4572	6.889	3092	4.452	195.1	702.0
1.51	18.12	0.4602	7.005	3144	4.527	198.4	713.8
1.52	18.24	0.4633	7.121	3196	4.602	201.7	725.6
1.53	18.36	0.4663	7.239	3249	4.678	205.0	737.6
1.54	18.48	0.4694	7.358	3302	4.755	208.4	749.7
1.55	18.60	0.4724	7.478	3356	4.833	211.8	762.0
1.56	18.72	0.4755	7.599	3410	4.911	215.2	774.3
1.57	18.84	0.4785	7.721	3465	4.990	218.7	786.8
1.58	18.96	0.4816	7.845	3521	5.070	222.2	799.4
1.59	19.08	0.4846	7.970	3577	5.151	225.7	812.1
1.60	19.20	0.4877	8.095	3633	5.232	229.3	824.9
1.61	19.32	0.4907	8.223	3690	5.314	232.9	837.9
1.62	19.44	0.4938	8.351	3748	5.397	236.5	850.9
1.63	19.56	0.4968	8.480	3806	5.481	240.2	864.1
1.64	19.68	0.4999	8.611	3865	5.565	243.9	877.5
1.65	19.80	0.5029	8.743	3924	5.650	247.6	890.9
1.66	19.92	0.5060	8.876	3983	5.736	251.4	904.4
1.67	20.04	0.5090	9.010	4044	5.823	255.2	918.1
1.68	20.16	0.5121	9.146	4105	5.911	259.0	931.9
1.69	20.28	0.5151	9.282	4166	5.999	262.9	945.9
1.70	20.40	0.5182	9.420	4228	6.088	266.8	959.9
1.71	20.52	0.5212	9.559	4290	6.178	270.7	974.1
1.72	20.64	0.5243	9.700	4353	6.269	274.7	988.4
1.73	20.76	0.5273	9.841	4417	6.360	278.7	1003
1.74	20.88	0.5304	9.984	4481	6.453	282.8	1017
1.75	21.00	0.5334	10.13	4546	6.546	286.8	1032
1.76	21.12	0.5364	10.27	4611	6.640	290.9	1047
1.77	21.24	0.5395	10.42	4677	6.735	295.1	1062
1.78	21.36	0.5425	10.57	4743	6.830	299.3	1077
1.79	21.48	0.5456	10.72	4810	6.926	303.5	1092
1.80	21.60	0.5486	10.87	4877	7.024	307.8	1107

Sources:

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$GPM = 1122 H_{ft}^{2.5}$ $MGD = 1.616 H_{ft}^{2.5}$
 $M3/HR = 4969 H_m^{2.5}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.81	21.72	0.5517	11.02	4945	7.121	312.1	1123
1.82	21.84	0.5547	11.17	5014	7.220	316.4	1138
1.83	21.96	0.5578	11.33	5083	7.320	320.7	1154
1.84	22.08	0.5608	11.48	5153	7.420	325.1	1170
1.85	22.20	0.5639	11.64	5223	7.521	329.6	1186
1.86	22.32	0.5669	11.80	5294	7.624	334.1	1202
1.87	22.44	0.5700	11.95	5365	7.726	338.6	1218
1.88	22.56	0.5730	12.12	5437	7.830	343.1	1235
1.89	22.68	0.5761	12.28	5510	7.935	347.7	1251
1.90	22.80	0.5791	12.44	5583	8.040	352.3	1268
1.91	22.92	0.5822	12.60	5657	8.146	357.0	1284
1.92	23.04	0.5852	12.77	5731	8.253	361.6	1301
1.93	23.16	0.5883	12.94	5806	8.361	366.4	1318
1.94	23.28	0.5913	13.11	5882	8.470	371.1	1335
1.95	23.40	0.5944	13.27	5958	8.579	375.9	1353
1.96	23.52	0.5974	13.45	6034	8.690	380.8	1370
1.97	23.64	0.6005	13.62	6112	8.801	385.7	1388
1.98	23.76	0.6035	13.79	6190	8.913	390.6	1405
1.99	23.88	0.6066	13.97	6268	9.026	395.5	1423
2.00	24.00	0.6096	14.14	6347	9.140	400.5	1441

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

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