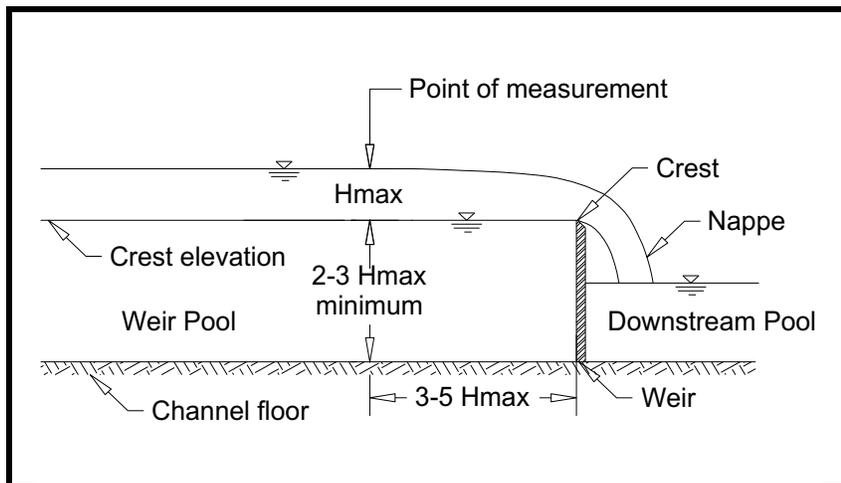


Formulas (H in feet): CFS = 0.6760 H_{ft.}^{2.5} GPM = 303.4.5 H_{ft.}^{2.5} MGD = 0.4369 H_{ft.}^{2.5}
 Formulas (H in meters): L/S = 373.2 H_m^{2.5} M3/HR = 1344 H_m^{2.5}

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	0.0121	5.427	0.0078	0.3425	1.232
0.21	2.52	0.0640	0.0137	6.131	0.0088	0.3869	1.392
0.22	2.64	0.0671	0.0153	6.89	0.0099	0.4346	1.564
0.23	2.76	0.0701	0.0172	7.70	0.0111	0.4857	1.748
0.24	2.88	0.0732	0.0191	8.56	0.0123	0.5402	1.944
0.25	3.00	0.0762	0.0211	9.48	0.0137	0.5983	2.153
0.26	3.12	0.0792	0.0233	10.46	0.0151	0.6599	2.374
0.27	3.24	0.0823	0.0256	11.49	0.0165	0.7252	2.609
0.28	3.36	0.0853	0.0280	12.59	0.0181	0.7942	2.858
0.29	3.48	0.0884	0.0306	13.74	0.0198	0.8670	3.120
0.30	3.60	0.0914	0.0333	14.96	0.0215	0.9437	3.396

Nappe may cling to downstream weir face





30° V-Notch Weir Discharge Table

±2-5% Accuracy

Formulas (H in feet): CFS = 0.6760 H_{ft.}^{2.5} GPM = 303.4.5 H_{ft.}^{2.5} MGD = 0.4369 H_{ft.}^{2.5}
 Formulas (H in meters): L/S = 373.2 H_m^{2.5} M3/HR = 1344 H_m^{2.5}

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.31	3.72	0.0945	0.0362	16.23	0.0234	1.024	3.686
0.32	3.84	0.0975	0.0392	17.57	0.0253	1.109	3.990
0.33	3.96	0.1006	0.0423	18.98	0.0273	1.198	4.309
0.34	4.08	0.1036	0.0456	20.45	0.0294	1.290	4.643
0.35	4.20	0.1067	0.0490	21.99	0.0317	1.387	4.992
0.36	4.32	0.1097	0.0526	23.59	0.0340	1.489	5.356
0.37	4.44	0.1128	0.0563	25.26	0.0364	1.594	5.736
0.38	4.56	0.1158	0.0602	27.01	0.0389	1.704	6.132
0.39	4.68	0.1189	0.0642	28.82	0.0415	1.818	6.543
0.40	4.80	0.1219	0.0684	30.70	0.0442	1.937	6.971
0.41	4.92	0.1250	0.0728	32.66	0.0470	2.061	7.414
0.42	5.04	0.1280	0.0773	34.68	0.0499	2.189	7.875
0.43	5.16	0.1311	0.0820	36.78	0.0530	2.321	8.352
0.44	5.28	0.1341	0.0868	38.96	0.0561	2.459	8.846
0.45	5.40	0.1372	0.0918	41.21	0.0593	2.601	9.357
0.46	5.52	0.1402	0.0970	43.54	0.0627	2.747	9.886
0.47	5.64	0.1433	0.1024	45.95	0.0662	2.899	10.43
0.48	5.76	0.1463	0.1079	48.43	0.0697	3.056	11.00
0.49	5.88	0.1494	0.1136	50.99	0.0734	3.218	11.58
0.50	6.00	0.1524	0.1195	53.63	0.0772	3.384	12.18
0.51	6.12	0.1554	0.1256	56.35	0.0812	3.556	12.80
0.52	6.24	0.1585	0.1318	59.16	0.0852	3.733	13.43
0.53	6.36	0.1615	0.1382	62.04	0.0893	3.915	14.09
0.54	6.48	0.1646	0.1449	65.01	0.0936	4.102	14.76
0.55	6.60	0.1676	0.1517	68.06	0.0980	4.295	15.45
0.56	6.72	0.1707	0.1586	71.20	0.1025	4.493	16.17
0.57	6.84	0.1737	0.1658	74.42	0.1072	4.696	16.90
0.58	6.96	0.1768	0.1732	77.73	0.1119	4.905	17.65
0.59	7.08	0.1798	0.1807	81.12	0.1168	5.119	18.42
0.60	7.20	0.1829	0.1885	84.60	0.1218	5.338	19.21
0.61	7.32	0.1859	0.1965	88.17	0.1270	5.564	20.02
0.62	7.44	0.1890	0.2046	91.83	0.1322	5.795	20.85
0.63	7.56	0.1920	0.2130	95.58	0.1376	6.031	21.70
0.64	7.68	0.1951	0.2215	99.41	0.1432	6.273	22.57
0.65	7.80	0.1981	0.2303	103.3	0.1488	6.521	23.46
0.66	7.92	0.2012	0.2392	107.4	0.1546	6.775	24.38
0.67	8.04	0.2042	0.2484	111.5	0.1605	7.034	25.31
0.68	8.16	0.2073	0.2578	115.7	0.1666	7.300	26.27
0.69	8.28	0.2103	0.2673	120.0	0.1728	7.571	27.24
0.70	8.40	0.2134	0.2771	124.4	0.1791	7.848	28.24
0.71	8.52	0.2164	0.2871	128.9	0.1856	8.132	29.26
0.72	8.64	0.2195	0.2974	133.5	0.1922	8.421	30.30
0.73	8.76	0.2225	0.3078	138.1	0.1989	8.717	31.36
0.74	8.88	0.2256	0.3184	142.9	0.2058	9.018	32.45
0.75	9.00	0.2286	0.3293	147.8	0.2128	9.326	33.56
0.76	9.12	0.2316	0.3404	152.8	0.2200	9.640	34.69
0.77	9.24	0.2347	0.3517	157.8	0.2273	9.960	35.84
0.78	9.36	0.2377	0.3632	163.0	0.2348	10.29	37.01
0.79	9.48	0.2408	0.3750	168.3	0.2424	10.62	38.21
0.80	9.60	0.2438	0.3870	173.7	0.2501	10.96	39.43

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



30° V-Notch Weir Discharge Table

±2-5% Accuracy

Formulas (H in feet): CFS = 0.6760 H_{ft.}^{2.5} GPM = 303.4.5 H_{ft.}^{2.5} MGD = 0.4369 H_{ft.}^{2.5}
 Formulas (H in meters): L/S = 373.2 H_m^{2.5} M3/HR = 1344 H_m^{2.5}

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.81	9.72	0.2469	0.3992	179.1	0.2580	11.30	40.68
0.82	9.84	0.2499	0.4116	184.7	0.2660	11.66	41.94
0.83	9.96	0.2530	0.4243	190.4	0.2742	12.02	43.23
0.84	10.08	0.2560	0.4372	196.2	0.2825	12.38	44.55
0.85	10.20	0.2591	0.4503	202.1	0.2910	12.75	45.88
0.86	10.32	0.2621	0.4637	208.1	0.2997	13.13	47.25
0.87	10.44	0.2652	0.4772	214.2	0.3084	13.52	48.63
0.88	10.56	0.2682	0.4911	220.4	0.3174	13.91	50.04
0.89	10.68	0.2713	0.5052	226.7	0.3265	14.31	51.47
0.90	10.80	0.2743	0.5195	233.1	0.3357	14.71	52.93
0.91	10.92	0.2774	0.5340	239.7	0.3451	15.12	54.42
0.92	11.04	0.2804	0.5488	246.3	0.3547	15.54	55.92
0.93	11.16	0.2835	0.5638	253.1	0.3644	15.97	57.46
0.94	11.28	0.2865	0.5791	259.9	0.3743	16.40	59.01
0.95	11.40	0.2896	0.5946	266.9	0.3843	16.84	60.59
0.96	11.52	0.2926	0.6104	274.0	0.3945	17.29	62.20
0.97	11.64	0.2957	0.6264	281.1	0.4049	17.74	63.83
0.98	11.76	0.2987	0.6427	288.4	0.4154	18.20	65.49
0.99	11.88	0.3018	0.6592	295.9	0.4261	18.67	67.18
1.00	12.00	0.3048	0.6760	303.4	0.4369	19.14	68.88
1.01	12.12	0.3078	0.6930	311.0	0.4479	19.63	70.62
1.02	12.24	0.3109	0.7103	318.8	0.4591	20.12	72.38
1.03	12.36	0.3139	0.7278	326.7	0.4704	20.61	74.17
1.04	12.48	0.3170	0.7456	334.6	0.4819	21.12	75.98
1.05	12.60	0.3200	0.7637	342.7	0.4936	21.63	77.82
1.06	12.72	0.3231	0.7820	351.0	0.5054	22.15	79.69
1.07	12.84	0.3261	0.8006	359.3	0.5174	22.67	81.58
1.08	12.96	0.3292	0.8194	367.8	0.5296	23.21	83.50
1.09	13.08	0.3322	0.8385	376.3	0.5419	23.75	85.45
1.10	13.20	0.3353	0.8579	385.0	0.5545	24.30	87.42
1.11	13.32	0.3383	0.8775	393.8	0.5671	24.85	89.42
1.12	13.44	0.3414	0.8974	402.8	0.5800	25.41	91.45
1.13	13.56	0.3444	0.9176	411.8	0.5930	25.99	93.50
1.14	13.68	0.3475	0.9380	421.0	0.6062	26.56	95.58
1.15	13.80	0.3505	0.9587	430.3	0.6196	27.15	97.69
1.16	13.92	0.3536	0.9797	439.7	0.6332	27.75	99.83
1.17	14.04	0.3566	1.001	449.2	0.6469	28.35	102.0
1.18	14.16	0.3597	1.022	458.9	0.6608	28.96	104.2
1.19	14.28	0.3627	1.044	468.7	0.6749	29.57	106.4
1.20	14.40	0.3658	1.066	478.6	0.6892	30.20	108.7
1.21	14.52	0.3688	1.089	488.6	0.7036	30.83	110.9
1.22	14.64	0.3719	1.111	498.8	0.7183	31.47	113.2
1.23	14.76	0.3749	1.134	509.1	0.7331	32.12	115.6
1.24	14.88	0.3780	1.157	519.5	0.7481	32.78	117.9
1.25	15.00	0.3810	1.181	530.0	0.7632	33.44	120.3
1.26	15.12	0.3840	1.205	540.7	0.7786	34.12	122.8
1.27	15.24	0.3871	1.229	551.5	0.7941	34.80	125.2
1.28	15.36	0.3901	1.253	562.4	0.8099	35.49	127.7
1.29	15.48	0.3932	1.278	573.4	0.8258	36.18	130.2
1.30	15.60	0.3962	1.303	584.6	0.8419	36.89	132.7

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



30° V-Notch Weir Discharge Table

±2-5% Accuracy

Formulas (H in feet): CFS = 0.6760 H_{ft.}^{2.5} GPM = 303.4.5 H_{ft.}^{2.5} MGD = 0.4369 H_{ft.}^{2.5}
 Formulas (H in meters): L/S = 373.2 H_m^{2.5} M3/HR = 1344 H_m^{2.5}

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.31	15.72	0.3993	1.328	595.9	0.8581	37.60	135.3
1.32	15.84	0.4023	1.353	607.3	0.8746	38.32	137.9
1.33	15.96	0.4054	1.379	618.9	0.8913	39.05	140.5
1.34	16.08	0.4084	1.405	630.6	0.9081	39.79	143.2
1.35	16.20	0.4115	1.431	642.4	0.9252	40.54	145.9
1.36	16.32	0.4145	1.458	654.4	0.9424	41.29	148.6
1.37	16.44	0.4176	1.485	666.5	0.9598	42.06	151.3
1.38	16.56	0.4206	1.512	678.7	0.9774	42.83	154.1
1.39	16.68	0.4237	1.540	691.1	0.9952	43.61	156.9
1.40	16.80	0.4267	1.568	703.6	1.013	44.40	159.8
1.41	16.92	0.4298	1.596	716.2	1.031	45.19	162.6
1.42	17.04	0.4328	1.624	729.0	1.050	46.00	165.5
1.43	17.16	0.4359	1.653	741.9	1.068	46.81	168.4
1.44	17.28	0.4389	1.682	754.9	1.087	47.64	171.4
1.45	17.40	0.4420	1.711	768.1	1.106	48.47	174.4
1.46	17.52	0.4450	1.741	781.4	1.125	49.31	177.4
1.47	17.64	0.4481	1.771	794.9	1.145	50.16	180.5
1.48	17.76	0.4511	1.801	808.5	1.164	51.01	183.6
1.49	17.88	0.4542	1.832	822.2	1.184	51.88	186.7
1.50	18.00	0.4572	1.863	836.0	1.204	52.76	189.8
1.51	18.12	0.4602	1.894	850.0	1.224	53.64	193.0
1.52	18.24	0.4633	1.926	864.2	1.244	54.53	196.2
1.53	18.36	0.4663	1.957	878.5	1.265	55.43	199.5
1.54	18.48	0.4694	1.990	892.9	1.286	56.34	202.7
1.55	18.60	0.4724	2.022	907.5	1.307	57.26	206.0
1.56	18.72	0.4755	2.055	922.2	1.328	58.19	209.4
1.57	18.84	0.4785	2.088	937.0	1.349	59.13	212.8
1.58	18.96	0.4816	2.121	952.0	1.371	60.07	216.2
1.59	19.08	0.4846	2.155	967.1	1.393	61.03	219.6
1.60	19.20	0.4877	2.189	982.4	1.415	61.99	223.1
1.61	19.32	0.4907	2.223	997.8	1.437	62.97	226.6
1.62	19.44	0.4938	2.258	1013	1.459	63.95	230.1
1.63	19.56	0.4968	2.293	1029	1.482	64.94	233.7
1.64	19.68	0.4999	2.328	1045	1.505	65.94	237.3
1.65	19.80	0.5029	2.364	1061	1.528	66.95	240.9
1.66	19.92	0.5060	2.400	1077	1.551	67.97	244.6
1.67	20.04	0.5090	2.436	1093	1.575	69.00	248.3
1.68	20.16	0.5121	2.473	1110	1.598	70.03	252.0
1.69	20.28	0.5151	2.510	1126	1.622	71.08	255.8
1.70	20.40	0.5182	2.547	1143	1.646	72.14	259.6
1.71	20.52	0.5212	2.585	1160	1.671	73.20	263.4
1.72	20.64	0.5243	2.623	1177	1.695	74.28	267.3
1.73	20.76	0.5273	2.661	1194	1.720	75.36	271.2
1.74	20.88	0.5304	2.700	1212	1.745	76.46	275.1
1.75	21.00	0.5334	2.739	1229	1.770	77.56	279.1
1.76	21.12	0.5364	2.778	1247	1.795	78.67	283.1
1.77	21.24	0.5395	2.818	1265	1.821	79.79	287.1
1.78	21.36	0.5425	2.858	1282	1.847	80.93	291.2
1.79	21.48	0.5456	2.898	1301	1.873	82.07	295.3
1.80	21.60	0.5486	2.939	1319	1.899	83.22	299.4

Sources: Skrenter, R., Instrumentation Handbook Water and Wastewater Treatment Plants
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30° V-Notch Weir Discharge Table

±2-5% Accuracy

Formulas (H in feet): CFS = 0.6760 H_{ft.}^{2.5} GPM = 303.4.5 H_{ft.}^{2.5} MGD = 0.4369 H_{ft.}^{2.5}
 Formulas (H in meters): L/S = 373.2 H_m^{2.5} M3/HR = 1344 H_m^{2.5}

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.81	21.72	0.5517	2.979	1337	1.926	84.38	303.6
1.82	21.84	0.5547	3.021	1356	1.952	85.55	307.8
1.83	21.96	0.5578	3.062	1374	1.979	86.73	312.1
1.84	22.08	0.5608	3.104	1393	2.006	87.92	316.3
1.85	22.20	0.5639	3.147	1412	2.034	89.12	320.7
1.86	22.32	0.5669	3.190	1431	2.061	90.33	325.0
1.87	22.44	0.5700	3.233	1451	2.089	91.55	329.4
1.88	22.56	0.5730	3.276	1470	2.117	92.78	333.8
1.89	22.68	0.5761	3.320	1490	2.146	94.01	338.3
1.90	22.80	0.5791	3.364	1510	2.174	95.26	342.8
1.91	22.92	0.5822	3.408	1530	2.203	96.52	347.3
1.92	23.04	0.5852	3.453	1550	2.232	97.79	351.9
1.93	23.16	0.5883	3.498	1570	2.261	99.07	356.5
1.94	23.28	0.5913	3.544	1590	2.290	100.4	361.1
1.95	23.40	0.5944	3.589	1611	2.320	101.7	365.8
1.96	23.52	0.5974	3.636	1632	2.350	103.0	370.5
1.97	23.64	0.6005	3.682	1653	2.380	104.3	375.2
1.98	23.76	0.6035	3.729	1674	2.410	105.6	380.0
1.99	23.88	0.6066	3.776	1695	2.441	106.9	384.8
2.00	24.00	0.6096	3.824	1716	2.471	108.3	389.7

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