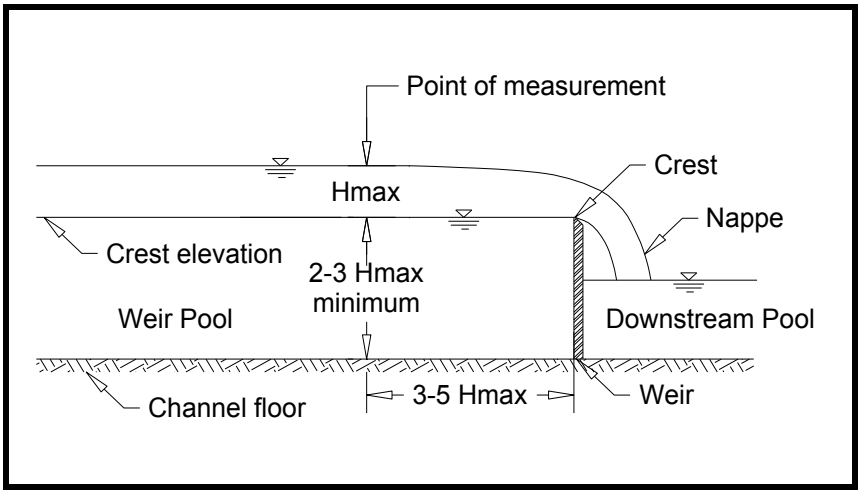
60º V-Notch Weir Discharge Table

±2-5% Accuracy

Formulas (H in feet): CFS = 1.443 $H_{ft.}^{2.5}$ GPM = 647.5 $H_{ft.}^{2.5}$ MGD = 0.9326 $H_{ft.}^{2.5}$

Formulas (H in meters): L/S = 796.7 $H_{m}^{2.5}$ M3/HR = 2868 $H_{m}^{2.5}$

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	0.0258	11.58	0.0167	0.7310	2.630
0.21	2.52	0.0640	0.0292	13.09	0.0188	0.8259	2.972
0.22	2.64	0.0671	0.0328	14.70	0.0212	0.9277	3.338
0.23	2.76	0.0701	0.0366	16.43	0.0237	1.037	3.730
0.24	2.88	0.0732	0.0407	18.27	0.0263	1.153	4.149
0.25	3.00	0.0762	0.0451	20.24	0.0291	1.277	4.595
0.26	3.12	0.0792	0.0497	22.32	0.0321	1.409	5.068
0.27	3.24	0.0823	0.0547	24.53	0.0353	1.548	5.570
0.28	3.36	0.0853	0.0599	26.87	0.0387	1.695	6.100
0.29	3.48	0.0884	0.0654	29.33	0.0422	1.851	6.659
0.30	3.60	0.0914	0.0711	31.92	0.0460	2.014	7.248



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

60º V-Notch Weir Discharge Table

±2-5% Accuracy

Formulas (H in feet): CFS = 1.443 $H_{ft.}^{2.5}$ GPM = 647.5 $H_{ft.}^{2.5}$ MGD = 0.9326 $H_{ft.}^{2.5}$

Formulas (H in meters): L/S = 796.7 $H_{m}^{2.5}$ M3/HR = 2868 $H_{m}^{2.5}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.31	3.72	0.0945	0.0772	34.65	0.0499	2.187	7.868
0.32	3.84	0.0975	0.0836	37.51	0.0540	2.367	8.518
0.33	3.96	0.1006	0.0903	40.51	0.0583	2.556	9.199
0.34	4.08	0.1036	0.0973	43.65	0.0629	2.755	9.911
0.35	4.20	0.1067	0.1046	46.93	0.0676	2.962	10.66
0.36	4.32	0.1097	0.1122	50.36	0.0725	3.178	11.43
0.37	4.44	0.1128	0.1202	53.93	0.0777	3.403	12.24
0.38	4.56	0.1158	0.1284	57.65	0.0830	3.638	13.09
0.39	4.68	0.1189	0.1371	61.51	0.0886	3.882	13.97
0.40	4.80	0.1219	0.1460	65.53	0.0944	4.135	14.88
0.41	4.92	0.1250	0.1553	69.71	0.1004	4.399	15.83
0.42	5.04	0.1280	0.1650	74.04	0.1066	4.672	16.81
0.43	5.16	0.1311	0.1750	78.52	0.1131	4.955	17.83
0.44	5.28	0.1341	0.1853	83.17	0.1198	5.248	18.88
0.45	5.40	0.1372	0.1960	87.97	0.1267	5.551	19.97
0.46	5.52	0.1402	0.2071	92.94	0.1338	5.865	21.10
0.47	5.64	0.1433	0.2185	98.08	0.1412	6.189	22.27
0.48	5.76	0.1463	0.2303	103.4	0.1489	6.523	23.47
0.49	5.88	0.1494	0.2425	108.8	0.1567	6.868	24.71
0.50	6.00	0.1524	0.2551	114.5	0.1649	7.224	25.99
0.51	6.12	0.1554	0.2680	120.3	0.1732	7.591	27.31
0.52	6.24	0.1585	0.2814	126.3	0.1818	7.968	28.67
0.53	6.36	0.1615	0.2951	132.4	0.1907	8.357	30.07
0.54	6.48	0.1646	0.3092	138.8	0.1998	8.757	31.51
0.55	6.60	0.1676	0.3237	145.3	0.2092	9.168	32.99
0.56	6.72	0.1707	0.3386	152.0	0.2189	9.590	34.51
0.57	6.84	0.1737	0.3540	158.9	0.2288	10.02	36.07
0.58	6.96	0.1768	0.3697	165.9	0.2389	10.47	37.67
0.59	7.08	0.1798	0.3858	173.2	0.2494	10.93	39.32
0.60	7.20	0.1829	0.4024	180.6	0.2601	11.40	41.00
0.61	7.32	0.1859	0.4194	188.2	0.2710	11.88	42.73
0.62	7.44	0.1890	0.4368	196.0	0.2823	12.37	44.51
0.63	7.56	0.1920	0.4546	204.0	0.2938	12.87	46.32
0.64	7.68	0.1951	0.4728	212.2	0.3056	13.39	48.18
0.65	7.80	0.1981	0.4915	220.6	0.3177	13.92	50.09
0.66	7.92	0.2012	0.5107	229.2	0.3300	14.46	52.04
0.67	8.04	0.2042	0.5302	238.0	0.3427	15.02	54.03
0.68	8.16	0.2073	0.5502	246.9	0.3556	15.58	56.07
0.69	8.28	0.2103	0.5707	256.1	0.3688	16.16	58.15
0.70	8.40	0.2134	0.5916	265.5	0.3823	16.75	60.28
0.71	8.52	0.2164	0.6129	275.1	0.3961	17.36	62.46
0.72	8.64	0.2195	0.6347	284.9	0.4102	17.98	64.68
0.73	8.76	0.2225	0.6570	294.9	0.4246	18.61	66.95
0.74	8.88	0.2256	0.6797	305.1	0.4393	19.25	69.27
0.75	9.00	0.2286	0.7029	315.5	0.4543	19.91	71.63
0.76	9.12	0.2316	0.7266	326.1	0.4696	20.58	74.04
0.77	9.24	0.2347	0.7507	336.9	0.4852	21.26	76.50
0.78	9.36	0.2377	0.7754	348.0	0.5011	21.96	79.01
0.79	9.48	0.2408	0.8004	359.2	0.5173	22.67	81.57
0.80	9.60	0.2438	0.8260	370.7	0.5339	23.39	84.17

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

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60º V-Notch Weir Discharge Table

±2-5% Accuracy

Formulas (H in feet): CFS = 1.443 $H_{ft.}^{2.5}$ GPM = 647.5 $H_{ft.}^{2.5}$ MGD = 0.9326 $H_{ft.}^{2.5}$

Formulas (H in meters): L/S = 796.7 $H_{m}^{2.5}$ M3/HR = 2868 $H_{m}^{2.5}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.81	9.72	0.2469	0.8521	382.4	0.5507	24.13	86.83
0.82	9.84	0.2499	0.8786	394.3	0.5679	24.88	89.53
0.83	9.96	0.2530	0.9057	406.5	0.5853	25.65	92.29
0.84	10.08	0.2560	0.9332	418.8	0.6031	26.43	95.09
0.85	10.20	0.2591	0.9612	431.4	0.6212	27.22	97.95
0.86	10.32	0.2621	0.9897	444.2	0.6397	28.03	100.9
0.87	10.44	0.2652	1.019	457.2	0.6584	28.85	103.8
0.88	10.56	0.2682	1.048	470.5	0.6775	29.69	106.8
0.89	10.68	0.2713	1.078	483.9	0.6969	30.54	109.9
0.90	10.80	0.2743	1.109	497.7	0.7166	31.40	113.0
0.91	10.92	0.2774	1.140	511.6	0.7367	32.28	116.2
0.92	11.04	0.2804	1.171	525.8	0.7571	33.18	119.4
0.93	11.16	0.2835	1.204	540.2	0.7779	34.09	122.6
0.94	11.28	0.2865	1.236	554.8	0.7990	35.01	126.0
0.95	11.40	0.2896	1.269	569.7	0.8204	35.95	129.3
0.96	11.52	0.2926	1.303	584.8	0.8421	36.90	132.8
0.97	11.64	0.2957	1.337	600.1	0.8642	37.87	136.3
0.98	11.76	0.2987	1.372	615.7	0.8867	38.85	139.8
0.99	11.88	0.3018	1.407	631.5	0.9095	39.85	143.4
1.00	12.00	0.3048	1.443	647.6	0.9326	40.87	147.0
1.01	12.12	0.3078	1.479	663.9	0.9561	41.90	150.7
1.02	12.24	0.3109	1.516	680.5	0.9799	42.94	154.5
1.03	12.36	0.3139	1.554	697.3	1.004	44.00	158.3
1.04	12.48	0.3170	1.592	714.3	1.029	45.08	162.2
1.05	12.60	0.3200	1.630	731.6	1.054	46.17	166.1
1.06	12.72	0.3231	1.669	749.2	1.079	47.27	170.1
1.07	12.84	0.3261	1.709	767.0	1.104	48.40	174.1
1.08	12.96	0.3292	1.749	785.0	1.130	49.54	178.2
1.09	13.08	0.3322	1.790	803.3	1.157	50.69	182.4
1.10	13.20	0.3353	1.831	821.9	1.184	51.86	186.6
1.11	13.32	0.3383	1.873	840.7	1.211	53.05	190.9
1.12	13.44	0.3414	1.916	859.7	1.238	54.25	195.2
1.13	13.56	0.3444	1.959	879.1	1.266	55.47	199.6
1.14	13.68	0.3475	2.002	898.6	1.294	56.71	204.0
1.15	13.80	0.3505	2.046	918.5	1.323	57.96	208.5
1.16	13.92	0.3536	2.091	938.6	1.352	59.22	213.1
1.17	14.04	0.3566	2.137	958.9	1.381	60.51	217.7
1.18	14.16	0.3597	2.183	979.5	1.411	61.81	222.4
1.19	14.28	0.3627	2.229	1000	1.441	63.13	227.1
1.20	14.40	0.3658	2.276	1022	1.471	64.46	231.9
1.21	14.52	0.3688	2.324	1043	1.502	65.81	236.8
1.22	14.64	0.3719	2.372	1065	1.533	67.18	241.7
1.23	14.76	0.3749	2.421	1087	1.565	68.57	246.7
1.24	14.88	0.3780	2.471	1109	1.597	69.97	251.8
1.25	15.00	0.3810	2.521	1131	1.629	71.39	256.9
1.26	15.12	0.3840	2.572	1154	1.662	72.83	262.0
1.27	15.24	0.3871	2.623	1177	1.695	74.28	267.3
1.28	15.36	0.3901	2.675	1200	1.729	75.75	272.6
1.29	15.48	0.3932	2.727	1224	1.763	77.24	277.9
1.30	15.60	0.3962	2.781	1248	1.797	78.74	283.3

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

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Formulas (H in feet): CFS = 1.443 $H_{ft.}^{2.5}$ GPM = 647.5 $H_{ft.}^{2.5}$ MGD = 0.9326 $H_{ft.}^{2.5}$

Formulas (H in meters): L/S = 796.7 $H_{m}^{2.5}$ M3/HR = 2868 $H_{m}^{2.5}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.31	15.72	0.3993	2.834	1272	1.832	80.27	288.8
1.32	15.84	0.4023	2.889	1296	1.867	81.81	294.4
1.33	15.96	0.4054	2.944	1321	1.903	83.37	300.0
1.34	16.08	0.4084	2.999	1346	1.938	84.94	305.6
1.35	16.20	0.4115	3.056	1371	1.975	86.54	311.4
1.36	16.32	0.4145	3.113	1397	2.012	88.15	317.2
1.37	16.44	0.4176	3.170	1423	2.049	89.78	323.0
1.38	16.56	0.4206	3.228	1449	2.086	91.42	329.0
1.39	16.68	0.4237	3.287	1475	2.124	93.09	334.9
1.40	16.80	0.4267	3.346	1502	2.163	94.77	341.0
1.41	16.92	0.4298	3.407	1529	2.202	96.47	347.1
1.42	17.04	0.4328	3.467	1556	2.241	98.19	353.3
1.43	17.16	0.4359	3.529	1584	2.281	99.93	359.6
1.44	17.28	0.4389	3.591	1611	2.321	101.7	365.9
1.45	17.40	0.4420	3.653	1640	2.361	103.5	372.3
1.46	17.52	0.4450	3.717	1668	2.402	105.3	378.7
1.47	17.64	0.4481	3.781	1697	2.443	107.1	385.2
1.48	17.76	0.4511	3.845	1726	2.485	108.9	391.8
1.49	17.88	0.4542	3.910	1755	2.527	110.7	398.5
1.50	18.00	0.4572	3.976	1785	2.570	112.6	405.2
1.51	18.12	0.4602	4.043	1815	2.613	114.5	412.0
1.52	18.24	0.4633	4.110	1845	2.656	116.4	418.8
1.53	18.36	0.4663	4.178	1875	2.700	118.3	425.8
1.54	18.48	0.4694	4.247	1906	2.745	120.3	432.8
1.55	18.60	0.4724	4.316	1937	2.790	122.2	439.8
1.56	18.72	0.4755	4.386	1968	2.835	124.2	446.9
1.57	18.84	0.4785	4.457	2000	2.880	126.2	454.1
1.58	18.96	0.4816	4.528	2032	2.926	128.2	461.4
1.59	19.08	0.4846	4.600	2064	2.973	130.3	468.7
1.60	19.20	0.4877	4.673	2097	3.020	132.3	476.1
1.61	19.32	0.4907	4.746	2130	3.067	134.4	483.6
1.62	19.44	0.4938	4.820	2163	3.115	136.5	491.2
1.63	19.56	0.4968	4.895	2197	3.164	138.6	498.8
1.64	19.68	0.4999	4.970	2231	3.212	140.8	506.5
1.65	19.80	0.5029	5.046	2265	3.261	142.9	514.2
1.66	19.92	0.5060	5.123	2299	3.311	145.1	522.0
1.67	20.04	0.5090	5.201	2334	3.361	147.3	529.9
1.68	20.16	0.5121	5.279	2369	3.412	149.5	537.9
1.69	20.28	0.5151	5.358	2405	3.463	151.7	546.0
1.70	20.40	0.5182	5.437	2440	3.514	154.0	554.1
1.71	20.52	0.5212	5.518	2476	3.566	156.3	562.3
1.72	20.64	0.5243	5.599	2513	3.618	158.6	570.5
1.73	20.76	0.5273	5.680	2549	3.671	160.9	578.8
1.74	20.88	0.5304	5.763	2586	3.725	163.2	587.2
1.75	21.00	0.5334	5.846	2624	3.778	165.6	595.7
1.76	21.12	0.5364	5.930	2661	3.832	167.9	604.3
1.77	21.24	0.5395	6.014	2699	3.887	170.3	612.9
1.78	21.36	0.5425	6.100	2738	3.942	172.7	621.6
1.79	21.48	0.5456	6.186	2776	3.998	175.2	630.3
1.80	21.60	0.5486	6.273	2815	4.054	177.6	639.2

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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.81	21.72	0.5517	6.360	2854	4.111	180.1	648.1
1.82	21.84	0.5547	6.448	2894	4.168	182.6	657.1
1.83	21.96	0.5578	6.537	2934	4.225	185.1	666.1
1.84	22.08	0.5608	6.627	2974	4.283	187.7	675.3
1.85	22.20	0.5639	6.717	3015	4.341	190.2	684.5
1.86	22.32	0.5669	6.808	3056	4.400	192.8	693.8
1.87	22.44	0.5700	6.900	3097	4.460	195.4	703.1
1.88	22.56	0.5730	6.993	3138	4.520	198.0	712.6
1.89	22.68	0.5761	7.086	3180	4.580	200.7	722.1
1.90	22.80	0.5791	7.180	3223	4.641	203.3	731.7
1.91	22.92	0.5822	7.275	3265	4.702	206.0	741.4
1.92	23.04	0.5852	7.371	3308	4.764	208.7	751.1
1.93	23.16	0.5883	7.467	3351	4.826	211.5	760.9
1.94	23.28	0.5913	7.564	3395	4.889	214.2	770.8
1.95	23.40	0.5944	7.662	3439	4.952	217.0	780.8
1.96	23.52	0.5974	7.761	3483	5.016	219.8	790.8
1.97	23.64	0.6005	7.860	3528	5.080	222.6	801.0
1.98	23.76	0.6035	7.960	3573	5.145	225.4	811.2
1.99	23.88	0.6066	8.061	3618	5.210	228.3	821.4
2.00	24.00	0.6096	8.163	3663	5.276	231.2	831.8

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