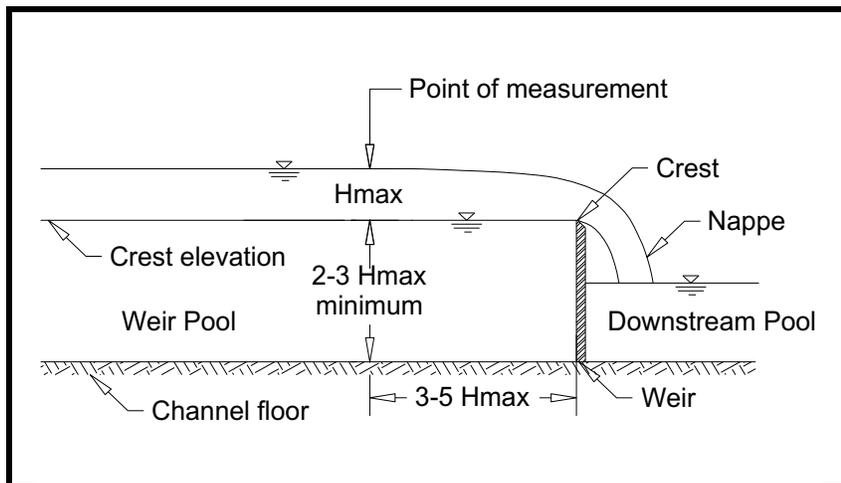


Formulas (H in feet): CFS = 1.443 H<sub>ft.</sub><sup>2.5</sup>      GPM = 647.5 H<sub>ft.</sub><sup>2.5</sup>      MGD = 0.9326 H<sub>ft.</sub><sup>2.5</sup>  
 Formulas (H in meters): L/S = 796.7 H<sub>m</sub><sup>2.5</sup>      M3/HR = 2868 H<sub>m</sub><sup>2.5</sup>

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	0.0258	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

Nappe may cling to downstream weir face





## 60° V-Notch Weir Discharge Table

±2-5% Accuracy

Formulas (H in feet): CFS = 1.443 H<sub>ft.</sub><sup>2.5</sup>      GPM = 647.5 H<sub>ft.</sub><sup>2.5</sup>      MGD = 0.9326 H<sub>ft.</sub><sup>2.5</sup>  
 Formulas (H in meters): L/S = 796.7 H<sub>m</sub><sup>2.5</sup>      M3/HR = 2868 H<sub>m</sub><sup>2.5</sup>

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	10.656
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

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



## 60° V-Notch Weir Discharge Table

±2-5% Accuracy

Formulas (H in feet): CFS = 1.443 H<sub>ft.</sub><sup>2.5</sup>      GPM = 647.5 H<sub>ft.</sub><sup>2.5</sup>      MGD = 0.9326 H<sub>ft.</sub><sup>2.5</sup>  
 Formulas (H in meters): L/S = 796.7 H<sub>m</sub><sup>2.5</sup>      M3/HR = 2868 H<sub>m</sub><sup>2.5</sup>

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	1.0187	457.2	0.6584	28.85	103.8
0.88	10.56	0.2682	1.0483	470.5	0.6775	29.69	106.8
0.89	10.68	0.2713	1.0783	483.9	0.6969	30.54	109.9
0.90	10.80	0.2743	1.1088	497.7	0.7166	31.40	113.0
0.91	10.92	0.2774	1.1399	511.6	0.7367	32.28	116.2
0.92	11.04	0.2804	1.1715	525.8	0.7571	33.18	119.4
0.93	11.16	0.2835	1.2036	540.2	0.7779	34.09	122.6
0.94	11.28	0.2865	1.2362	554.8	0.7990	35.01	126.0
0.95	11.40	0.2896	1.2693	569.7	0.8204	35.95	129.3
0.96	11.52	0.2926	1.3030	584.8	0.8421	36.90	132.8
0.97	11.64	0.2957	1.3372	600.1	0.8642	37.87	136.3
0.98	11.76	0.2987	1.3719	615.7	0.8867	38.85	139.8
0.99	11.88	0.3018	1.4072	631.5	0.9095	39.85	143.4
1.00	12.00	0.3048	1.4430	647.6	0.9326	40.87	147.0
1.01	12.12	0.3078	1.4793	663.9	0.9561	41.90	150.7
1.02	12.24	0.3109	1.5162	680.5	0.9799	42.94	154.5
1.03	12.36	0.3139	1.5537	697.3	1.004	44.00	158.3
1.04	12.48	0.3170	1.5917	714.3	1.029	45.08	162.2
1.05	12.60	0.3200	1.6302	731.6	1.054	46.17	166.1
1.06	12.72	0.3231	1.6693	749.2	1.079	47.27	170.1
1.07	12.84	0.3261	1.7089	767.0	1.104	48.40	174.1
1.08	12.96	0.3292	1.7491	785.0	1.130	49.54	178.2
1.09	13.08	0.3322	1.7899	803.3	1.157	50.69	182.4
1.10	13.20	0.3353	1.8313	821.9	1.184	51.86	186.6
1.11	13.32	0.3383	1.8732	840.7	1.211	53.05	190.9
1.12	13.44	0.3414	1.9156	859.7	1.238	54.25	195.2
1.13	13.56	0.3444	1.9587	879.1	1.266	55.47	199.6
1.14	13.68	0.3475	2.0023	898.6	1.294	56.71	204.0
1.15	13.80	0.3505	2.0465	918.5	1.323	57.96	208.5
1.16	13.92	0.3536	2.0913	938.6	1.352	59.22	213.1
1.17	14.04	0.3566	2.1366	958.9	1.381	60.51	217.7
1.18	14.16	0.3597	2.1826	979.5	1.411	61.81	222.4
1.19	14.28	0.3627	2.2291	1000	1.441	63.13	227.1
1.20	14.40	0.3658	2.2762	1022	1.471	64.46	231.9
1.21	14.52	0.3688	2.3240	1043	1.502	65.81	236.8
1.22	14.64	0.3719	2.3723	1065	1.533	67.18	241.7
1.23	14.76	0.3749	2.4212	1087	1.565	68.57	246.7
1.24	14.88	0.3780	2.4707	1109	1.597	69.97	251.8
1.25	15.00	0.3810	2.5208	1131	1.629	71.39	256.9
1.26	15.12	0.3840	2.5715	1154	1.662	72.83	262.0
1.27	15.24	0.3871	2.6229	1177	1.695	74.28	267.3
1.28	15.36	0.3901	2.6748	1200	1.729	75.75	272.6
1.29	15.48	0.3932	2.7273	1224	1.763	77.24	277.9
1.30	15.60	0.3962	2.7805	1248	1.797	78.74	283.3

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



## 60° V-Notch Weir Discharge Table

±2-5% Accuracy

Formulas (H in feet): CFS = 1.443 H<sub>ft.</sub><sup>2.5</sup>  
 Formulas (H in meters): L/S = 796.7 H<sub>m</sub><sup>2.5</sup>

GPM = 647.5 H<sub>ft.</sub><sup>2.5</sup>      MGD = 0.9326 H<sub>ft.</sub><sup>2.5</sup>  
 M3/HR = 2868 H<sub>m</sub><sup>2.5</sup>

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.31	15.72	0.3993	2.8343	1272	1.832	80.27	288.8
1.32	15.84	0.4023	2.8887	1296	1.867	81.81	294.4
1.33	15.96	0.4054	2.9437	1321	1.903	83.37	300.0
1.34	16.08	0.4084	2.9994	1346	1.938	84.94	305.6
1.35	16.20	0.4115	3.0556	1371	1.975	86.54	311.4
1.36	16.32	0.4145	3.1125	1397	2.012	88.15	317.2
1.37	16.44	0.4176	3.1701	1423	2.049	89.78	323.0
1.38	16.56	0.4206	3.2282	1449	2.086	91.42	329.0
1.39	16.68	0.4237	3.2870	1475	2.124	93.09	334.9
1.40	16.80	0.4267	3.3465	1502	2.163	94.77	341.0
1.41	16.92	0.4298	3.4065	1529	2.202	96.47	347.1
1.42	17.04	0.4328	3.4673	1556	2.241	98.19	353.3
1.43	17.16	0.4359	3.5286	1584	2.281	99.93	359.6
1.44	17.28	0.4389	3.5906	1611	2.321	101.7	365.9
1.45	17.40	0.4420	3.6533	1640	2.361	103.5	372.3
1.46	17.52	0.4450	3.7166	1668	2.402	105.3	378.7
1.47	17.64	0.4481	3.7806	1697	2.443	107.1	385.2
1.48	17.76	0.4511	3.8452	1726	2.485	108.9	391.8
1.49	17.88	0.4542	3.9105	1755	2.527	110.7	398.5
1.50	18.00	0.4572	3.9764	1785	2.570	112.6	405.2
1.51	18.12	0.4602	4.0430	1815	2.613	114.5	412.0
1.52	18.24	0.4633	4.1103	1845	2.656	116.4	418.8
1.53	18.36	0.4663	4.1783	1875	2.700	118.3	425.8
1.54	18.48	0.4694	4.2469	1906	2.745	120.3	432.8
1.55	18.60	0.4724	4.3161	1937	2.790	122.2	439.8
1.56	18.72	0.4755	4.3861	1968	2.835	124.2	446.9
1.57	18.84	0.4785	4.4567	2000	2.880	126.2	454.1
1.58	18.96	0.4816	4.5280	2032	2.926	128.2	461.4
1.59	19.08	0.4846	4.6000	2064	2.973	130.3	468.7
1.60	19.20	0.4877	4.6727	2097	3.020	132.3	476.1
1.61	19.32	0.4907	4.7460	2130	3.067	134.4	483.6
1.62	19.44	0.4938	4.8201	2163	3.115	136.5	491.2
1.63	19.56	0.4968	4.8948	2197	3.164	138.6	498.8
1.64	19.68	0.4999	4.9702	2231	3.212	140.8	506.5
1.65	19.80	0.5029	5.0463	2265	3.261	142.9	514.2
1.66	19.92	0.5060	5.1231	2299	3.311	145.1	522.0
1.67	20.04	0.5090	5.2006	2334	3.361	147.3	529.9
1.68	20.16	0.5121	5.2789	2369	3.412	149.5	537.9
1.69	20.28	0.5151	5.3578	2405	3.463	151.7	546.0
1.70	20.40	0.5182	5.4374	2440	3.514	154.0	554.1
1.71	20.52	0.5212	5.5177	2476	3.566	156.3	562.3
1.72	20.64	0.5243	5.5987	2513	3.618	158.6	570.5
1.73	20.76	0.5273	5.6804	2549	3.671	160.9	578.8
1.74	20.88	0.5304	5.7629	2586	3.725	163.2	587.2
1.75	21.00	0.5334	5.8460	2624	3.778	165.6	595.7
1.76	21.12	0.5364	5.9299	2661	3.832	167.9	604.3
1.77	21.24	0.5395	6.0145	2699	3.887	170.3	612.9
1.78	21.36	0.5425	6.0998	2738	3.942	172.7	621.6
1.79	21.48	0.5456	6.1858	2776	3.998	175.2	630.3
1.80	21.60	0.5486	6.2726	2815	4.054	177.6	639.2

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



## 60° V-Notch Weir Discharge Table

±2-5% Accuracy

Formulas (H in feet): CFS = 1.443 H<sub>ft.</sub><sup>2.5</sup>      GPM = 647.5 H<sub>ft.</sub><sup>2.5</sup>      MGD = 0.9326 H<sub>ft.</sub><sup>2.5</sup>  
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FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.81	21.72	0.5517	6.3601	2854	4.111	180.1	648.1
1.82	21.84	0.5547	6.4483	2894	4.168	182.6	657.1
1.83	21.96	0.5578	6.5372	2934	4.225	185.1	666.1
1.84	22.08	0.5608	6.6269	2974	4.283	187.7	675.3
1.85	22.20	0.5639	6.7173	3015	4.341	190.2	684.5
1.86	22.32	0.5669	6.8085	3056	4.400	192.8	693.8
1.87	22.44	0.5700	6.9003	3097	4.460	195.4	703.1
1.88	22.56	0.5730	6.9930	3138	4.520	198.0	712.6
1.89	22.68	0.5761	7.0863	3180	4.580	200.7	722.1
1.90	22.80	0.5791	7.1804	3223	4.641	203.3	731.7
1.91	22.92	0.5822	7.2753	3265	4.702	206.0	741.4
1.92	23.04	0.5852	7.3709	3308	4.764	208.7	751.1
1.93	23.16	0.5883	7.4672	3351	4.826	211.5	760.9
1.94	23.28	0.5913	7.5643	3395	4.889	214.2	770.8
1.95	23.40	0.5944	7.6622	3439	4.952	217.0	780.8
1.96	23.52	0.5974	7.7608	3483	5.016	219.8	790.8
1.97	23.64	0.6005	7.8602	3528	5.080	222.6	801.0
1.98	23.76	0.6035	7.9603	3573	5.145	225.4	811.2
1.99	23.88	0.6066	8.0612	3618	5.210	228.3	821.4
2.00	24.00	0.6096	8.1628	3663	5.276	231.2	831.8

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