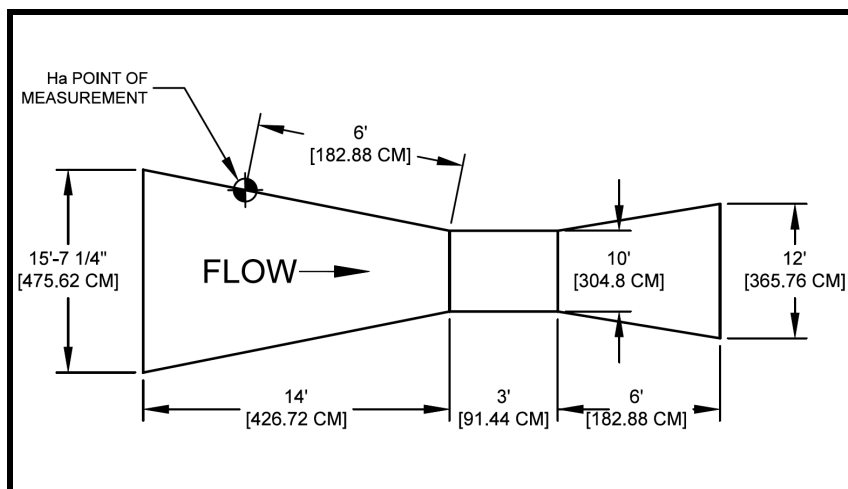


Formulas (H in feet): CFS = 39.38 $H_{ft}^{1.6}$
Formulas (H in meters): L/S = 7463 $H_m^{1.6}$

GPM = 17674 $H_{ft}^{1.6}$
M3/HR = 26870 $H_m^{1.6}$

MGD = 25.45 $H_{ft}^{1.6}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.01	0.12	0.0030	Excessive error due to fluid-flow properties and boundary conditions				
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					
0.21	2.52	0.0640					
0.22	2.64	0.0671					
0.23	2.76	0.0701					
0.24	2.88	0.0732					
0.25	3.00	0.0762					
0.26	3.12	0.0792					
0.27	3.24	0.0823					
0.28	3.36	0.0853					
0.29	3.48	0.0884					
0.30	3.60	0.0914	5.737	2575	3.708	162.5	584.6





120-Inch Parshall Flume Discharge Table

80% Submergence Transition

±3-5% Accuracy

Formulas (H in feet):
Formulas (H in meters):

CFS = 39.38 $H_{ft}^{1.6}$
L/S = 7463 $H_m^{1.6}$

GPM = 17674 $H_{ft}^{1.6}$
M3/HR = 26870 $H_m^{1.6}$

MGD = 25.45 $H_{ft}^{1.6}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.31	3.72	0.0945	6.046	2713	3.907	171.2	616.1
0.32	3.84	0.0975	6.361	2855	4.111	180.1	648.2
0.33	3.96	0.1006	6.682	2999	4.318	189.2	680.9
0.34	4.08	0.1036	7.009	3146	4.530	198.5	714.2
0.35	4.20	0.1067	7.341	3295	4.745	207.9	748.1
0.36	4.32	0.1097	7.680	3447	4.964	217.5	782.6
0.37	4.44	0.1128	8.024	3601	5.186	227.2	817.7
0.38	4.56	0.1158	8.374	3758	5.412	237.1	853.3
0.39	4.68	0.1189	8.729	3918	5.642	247.2	889.5
0.40	4.80	0.1219	9.090	4080	5.875	257.4	926.3
0.41	4.92	0.1250	9.456	4244	6.112	267.8	963.6
0.42	5.04	0.1280	9.828	4411	6.352	278.3	1001
0.43	5.16	0.1311	10.21	4580	6.596	289.0	1040
0.44	5.28	0.1341	10.59	4752	6.843	299.8	1079
0.45	5.40	0.1372	10.98	4926	7.093	310.8	1118
0.46	5.52	0.1402	11.37	5102	7.347	321.9	1158
0.47	5.64	0.1433	11.77	5281	7.604	333.2	1199
0.48	5.76	0.1463	12.17	5462	7.865	344.6	1240
0.49	5.88	0.1494	12.58	5645	8.129	356.2	1282
0.50	6.00	0.1524	12.99	5830	8.396	367.9	1324
0.51	6.12	0.1554	13.41	6018	8.666	379.7	1366
0.52	6.24	0.1585	13.83	6208	8.940	391.7	1409
0.53	6.36	0.1615	14.26	6400	9.216	403.8	1453
0.54	6.48	0.1646	14.69	6594	9.496	416.1	1497
0.55	6.60	0.1676	15.13	6791	9.779	428.5	1542
0.56	6.72	0.1707	15.57	6989	10.06	441.0	1587
0.57	6.84	0.1737	16.02	7190	10.35	453.7	1632
0.58	6.96	0.1768	16.47	7393	10.65	466.5	1679
0.59	7.08	0.1798	16.93	7598	10.94	479.4	1725
0.60	7.20	0.1829	17.39	7805	11.24	492.5	1772
0.61	7.32	0.1859	17.86	8014	11.54	505.7	1820
0.62	7.44	0.1890	18.33	8225	11.85	519.0	1868
0.63	7.56	0.1920	18.80	8439	12.15	532.5	1916
0.64	7.68	0.1951	19.28	8654	12.46	546.1	1965
0.65	7.80	0.1981	19.77	8871	12.78	559.8	2014
0.66	7.92	0.2012	20.26	9091	13.09	573.6	2064
0.67	8.04	0.2042	20.75	9312	13.41	587.6	2114
0.68	8.16	0.2073	21.25	9535	13.73	601.7	2165
0.69	8.28	0.2103	21.75	9761	14.06	615.9	2216
0.70	8.40	0.2134	22.26	9988	14.38	630.3	2268
0.71	8.52	0.2164	22.77	10217	14.71	644.7	2320
0.72	8.64	0.2195	23.28	10449	15.05	659.3	2372
0.73	8.76	0.2225	23.80	10682	15.38	674.0	2425
0.74	8.88	0.2256	24.32	10917	15.72	688.9	2479
0.75	9.00	0.2286	24.85	11154	16.06	703.8	2532
0.76	9.12	0.2316	25.39	11393	16.41	718.9	2587
0.77	9.24	0.2347	25.92	11634	16.75	734.1	2641
0.78	9.36	0.2377	26.46	11876	17.10	749.4	2697
0.79	9.48	0.2408	27.01	12121	17.45	764.8	2752
0.80	9.60	0.2438	27.56	12367	17.81	780.4	2808

Sources:

[Water Measurement Manual](#), 3rd Edition, United States Department of the Interior, Bureau of Reclamation

ASTM D 1941-91 (2007): Standard Test Method for Open Channel Flow Measurement of Water with Parshall Flume



120-Inch Parshall Flume Discharge Table

80% Submergence Transition

±3-5% Accuracy

Formulas (H in feet): CFS = 39.38 $H_{ft}^{1.6}$
 Formulas (H in meters): L/S = 7463 $H_m^{1.6}$

GPM = 17674 $H_{ft}^{1.6}$
 M3/HR = 26870 $H_m^{1.6}$

MGD = 25.45 $H_{ft}^{1.6}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
0.81	9.72	0.2469	28.11	12616	18.17	796.1	2864
0.82	9.84	0.2499	28.67	12866	18.53	811.8	2921
0.83	9.96	0.2530	29.23	13118	18.89	827.7	2978
0.84	10.08	0.2560	29.79	13371	19.26	843.8	3036
0.85	10.20	0.2591	30.36	13627	19.62	859.9	3094
0.86	10.32	0.2621	30.94	13884	19.99	876.1	3152
0.87	10.44	0.2652	31.51	14144	20.37	892.5	3211
0.88	10.56	0.2682	32.10	14405	20.74	909.0	3271
0.89	10.68	0.2713	32.68	14667	21.12	925.5	3330
0.90	10.80	0.2743	33.27	14932	21.50	942.2	3390
0.91	10.92	0.2774	33.86	15198	21.89	959.0	3451
0.92	11.04	0.2804	34.46	15466	22.27	976.0	3512
0.93	11.16	0.2835	35.06	15736	22.66	993.0	3573
0.94	11.28	0.2865	35.67	16008	23.05	1010	3635
0.95	11.40	0.2896	36.28	16281	23.45	1027	3697
0.96	11.52	0.2926	36.89	16556	23.84	1045	3759
0.97	11.64	0.2957	37.51	16833	24.24	1062	3822
0.98	11.76	0.2987	38.13	17112	24.64	1080	3885
0.99	11.88	0.3018	38.75	17392	25.05	1097	3949
1.00	12.00	0.3048	39.38	17674	25.45	1115	4013
1.01	12.12	0.3078	40.01	17957	25.86	1133	4077
1.02	12.24	0.3109	40.65	18243	26.27	1151	4142
1.03	12.36	0.3139	41.29	18530	26.68	1169	4207
1.04	12.48	0.3170	41.93	18818	27.10	1187	4273
1.05	12.60	0.3200	42.58	19109	27.52	1206	4339
1.06	12.72	0.3231	43.23	19401	27.94	1224	4405
1.07	12.84	0.3261	43.88	19694	28.36	1243	4472
1.08	12.96	0.3292	44.54	19990	28.79	1261	4539
1.09	13.08	0.3322	45.20	20287	29.21	1280	4606
1.10	13.20	0.3353	45.87	20585	29.64	1299	4674
1.11	13.32	0.3383	46.54	20886	30.08	1318	4742
1.12	13.44	0.3414	47.21	21187	30.51	1337	4811
1.13	13.56	0.3444	47.89	21491	30.95	1356	4880
1.14	13.68	0.3475	48.57	21796	31.39	1375	4949
1.15	13.80	0.3505	49.25	22103	31.83	1395	5018
1.16	13.92	0.3536	49.94	22411	32.27	1414	5088
1.17	14.04	0.3566	50.63	22721	32.72	1434	5159
1.18	14.16	0.3597	51.32	23032	33.17	1453	5230
1.19	14.28	0.3627	52.02	23346	33.62	1473	5301
1.20	14.40	0.3658	52.72	23660	34.07	1493	5372
1.21	14.52	0.3688	53.42	23976	34.53	1513	5444
1.22	14.64	0.3719	54.13	24294	34.99	1533	5516
1.23	14.76	0.3749	54.84	24614	35.45	1553	5589
1.24	14.88	0.3780	55.56	24935	35.91	1573	5661
1.25	15.00	0.3810	56.28	25257	36.37	1594	5735
1.26	15.12	0.3840	57.00	25581	36.84	1614	5808
1.27	15.24	0.3871	57.72	25907	37.31	1635	5882
1.28	15.36	0.3901	58.45	26234	37.78	1655	5956
1.29	15.48	0.3932	59.19	26563	38.25	1676	6031
1.30	15.60	0.3962	59.92	26893	38.73	1697	6106

Sources: [Water Measurement Manual](#), 3rd Edition, United States Department of the Interior, Bureau of Reclamation

ASTM D 1941-91 (2007): Standard Test Method for Open Channel Flow Measurement of Water with Parshall Flume



120-Inch Parshall Flume Discharge Table

80% Submergence Transition

±3-5% Accuracy

Formulas (H in feet): CFS = 39.38 $H_{ft}^{1.6}$
Formulas (H in meters): L/S = 7463 $H_m^{1.6}$

GPM = 17674 $H_{ft}^{1.6}$
M3/HR = 26870 $H_m^{1.6}$

MGD = 25.45 $H_{ft}^{1.6}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.31	15.72	0.3993	60.66	27225	39.21	1718	6181
1.32	15.84	0.4023	61.40	27558	39.69	1739	6257
1.33	15.96	0.4054	62.15	27893	40.17	1760	6333
1.34	16.08	0.4084	62.90	28229	40.65	1781	6409
1.35	16.20	0.4115	63.65	28567	41.14	1803	6486
1.36	16.32	0.4145	64.41	28906	41.63	1824	6563
1.37	16.44	0.4176	65.17	29247	42.12	1846	6641
1.38	16.56	0.4206	65.93	29589	42.61	1867	6718
1.39	16.68	0.4237	66.70	29933	43.11	1889	6796
1.40	16.80	0.4267	67.47	30278	43.60	1911	6875
1.41	16.92	0.4298	68.24	30625	44.10	1933	6953
1.42	17.04	0.4328	69.01	30973	44.60	1954	7033
1.43	17.16	0.4359	69.79	31323	45.11	1977	7112
1.44	17.28	0.4389	70.58	31674	45.61	1999	7192
1.45	17.40	0.4420	71.36	32027	46.12	2021	7272
1.46	17.52	0.4450	72.15	32381	46.63	2043	7352
1.47	17.64	0.4481	72.94	32737	47.14	2066	7433
1.48	17.76	0.4511	73.74	33094	47.66	2088	7514
1.49	17.88	0.4542	74.54	33452	48.17	2111	7595
1.50	18.00	0.4572	75.34	33812	48.69	2134	7677
1.51	18.12	0.4602	76.14	34174	49.21	2156	7759
1.52	18.24	0.4633	76.95	34536	49.73	2179	7842
1.53	18.36	0.4663	77.76	34901	50.26	2202	7924
1.54	18.48	0.4694	78.58	35266	50.79	2225	8007
1.55	18.60	0.4724	79.40	35634	51.31	2249	8091
1.56	18.72	0.4755	80.22	36002	51.85	2272	8174
1.57	18.84	0.4785	81.04	36372	52.38	2295	8258
1.58	18.96	0.4816	81.87	36743	52.91	2319	8343
1.59	19.08	0.4846	82.70	37116	53.45	2342	8427
1.60	19.20	0.4877	83.53	37490	53.99	2366	8512
1.61	19.32	0.4907	84.37	37866	54.53	2389	8597
1.62	19.44	0.4938	85.21	38243	55.07	2413	8683
1.63	19.56	0.4968	86.05	38621	55.62	2437	8769
1.64	19.68	0.4999	86.90	39001	56.16	2461	8855
1.65	19.80	0.5029	87.75	39382	56.71	2485	8942
1.66	19.92	0.5060	88.60	39765	57.26	2509	9029
1.67	20.04	0.5090	89.46	40149	57.82	2533	9116
1.68	20.16	0.5121	90.32	40534	58.37	2558	9203
1.69	20.28	0.5151	91.18	40921	58.93	2582	9291
1.70	20.40	0.5182	92.04	41309	59.49	2607	9379
1.71	20.52	0.5212	92.91	41699	60.05	2631	9468
1.72	20.64	0.5243	93.78	42090	60.61	2656	9556
1.73	20.76	0.5273	94.66	42482	61.18	2681	9645
1.74	20.88	0.5304	95.53	42875	61.74	2706	9735
1.75	21.00	0.5334	96.41	43270	62.31	2730	9825
1.76	21.12	0.5364	97.30	43667	62.88	2755	9914
1.77	21.24	0.5395	98.18	44064	63.46	2781	10005
1.78	21.36	0.5425	99.07	44463	64.03	2806	10095
1.79	21.48	0.5456	99.96	44864	64.61	2831	10186
1.80	21.60	0.5486	100.9	45265	65.18	2856	10277

Sources: [Water Measurement Manual](#), 3rd Edition, United States Department of the Interior, Bureau of Reclamation

ASTM D 1941-91 (2007): Standard Test Method for Open Channel Flow Measurement of Water with Parshall Flume



120-Inch Parshall Flume Discharge Table

80% Submergence Transition

±3-5% Accuracy

Formulas (H in feet):
Formulas (H in meters):

CFS = 39.38 $H_{ft}^{1.6}$
L/S = 7463 $H_m^{1.6}$

GPM = 17674 $H_{ft}^{1.6}$
M3/HR = 26870 $H_m^{1.6}$

MGD = 25.45 $H_{ft}^{1.6}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
1.81	21.72	0.5517	101.8	45668	65.77	2882	10369
1.82	21.84	0.5547	102.7	46073	66.35	2907	10461
1.83	21.96	0.5578	103.6	46478	66.93	2933	10553
1.84	22.08	0.5608	104.5	46885	67.52	2959	10645
1.85	22.20	0.5639	105.4	47294	68.11	2984	10738
1.86	22.32	0.5669	106.3	47703	68.70	3010	10831
1.87	22.44	0.5700	107.2	48114	69.29	3036	10924
1.88	22.56	0.5730	108.1	48527	69.88	3062	11018
1.89	22.68	0.5761	109.0	48940	70.48	3088	11112
1.90	22.80	0.5791	110.0	49355	71.07	3114	11206
1.91	22.92	0.5822	110.9	49772	71.67	3141	11301
1.92	23.04	0.5852	111.8	50189	72.28	3167	11395
1.93	23.16	0.5883	112.8	50608	72.88	3193	11491
1.94	23.28	0.5913	113.7	51028	73.48	3220	11586
1.95	23.40	0.5944	114.6	51450	74.09	3247	11682
1.96	23.52	0.5974	115.6	51873	74.70	3273	11778
1.97	23.64	0.6005	116.5	52297	75.31	3300	11874
1.98	23.76	0.6035	117.5	52722	75.92	3327	11971
1.99	23.88	0.6066	118.4	53149	76.54	3354	12067
2.00	24.00	0.6096	119.4	53577	77.15	3381	12165
2.01	24.12	0.6126	120.3	54006	77.77	3408	12262
2.02	24.24	0.6157	121.3	54437	78.39	3435	12360
2.03	24.36	0.6187	122.3	54868	79.01	3462	12458
2.04	24.48	0.6218	123.2	55301	79.64	3490	12556
2.05	24.60	0.6248	124.2	55736	80.26	3517	12655
2.06	24.72	0.6279	125.2	56172	80.89	3545	12754
2.07	24.84	0.6309	126.1	56608	81.52	3572	12853
2.08	24.96	0.6340	127.1	57047	82.15	3600	12952
2.09	25.08	0.6370	128.1	57486	82.78	3627	13052
2.10	25.20	0.6401	129.1	57927	83.42	3655	13152
2.11	25.32	0.6431	130.1	58369	84.05	3683	13253
2.12	25.44	0.6462	131.0	58812	84.69	3711	13353
2.13	25.56	0.6492	132.0	59256	85.33	3739	13454
2.14	25.68	0.6523	133.0	59702	85.97	3767	13555
2.15	25.80	0.6553	134.0	60149	86.62	3796	13657
2.16	25.92	0.6584	135.0	60597	87.26	3824	13759
2.17	26.04	0.6614	136.0	61047	87.91	3852	13861
2.18	26.16	0.6645	137.0	61498	88.56	3881	13963
2.19	26.28	0.6675	138.0	61950	89.21	3909	14066
2.20	26.40	0.6706	139.0	62403	89.86	3938	14169
2.21	26.52	0.6736	140.1	62857	90.52	3966	14272
2.22	26.64	0.6767	141.1	63313	91.17	3995	14375
2.23	26.76	0.6797	142.1	63770	91.83	4024	14479
2.24	26.88	0.6828	143.1	64228	92.49	4053	14583
2.25	27.00	0.6858	144.1	64688	93.15	4082	14687
2.26	27.12	0.6888	145.2	65148	93.82	4111	14792
2.27	27.24	0.6919	146.2	65610	94.48	4140	14897
2.28	27.36	0.6949	147.2	66073	95.15	4169	15002
2.29	27.48	0.6980	148.3	66537	95.82	4199	15107
2.30	27.60	0.7010	149.3	67003	96.49	4228	15213

Sources:

[Water Measurement Manual](#), 3rd Edition, United States Department of the Interior, Bureau of Reclamation

ASTM D 1941-91 (2007): Standard Test Method for Open Channel Flow Measurement of Water with Parshall Flume



120-Inch Parshall Flume Discharge Table

80% Submergence Transition

±3-5% Accuracy

Formulas (H in feet):
Formulas (H in meters):

CFS = 39.38 $H_{ft}^{1.6}$
L/S = 7463 $H_m^{1.6}$

GPM = 17674 $H_{ft}^{1.6}$
M3/HR = 26870 $H_m^{1.6}$

MGD = 25.45 $H_{ft}^{1.6}$

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
2.31	27.72	0.7041	150.3	67470	97.16	4257	15319
2.32	27.84	0.7071	151.4	67937	97.83	4287	15425
2.33	27.96	0.7102	152.4	68407	98.51	4317	15532
2.34	28.08	0.7132	153.5	68877	99.19	4346	15639
2.35	28.20	0.7163	154.5	69349	99.87	4376	15746
2.36	28.32	0.7193	155.6	69821	100.5	4406	15853
2.37	28.44	0.7224	156.6	70295	101.2	4436	15961
2.38	28.56	0.7254	157.7	70770	101.9	4466	16068
2.39	28.68	0.7285	158.7	71247	102.6	4496	16177
2.40	28.80	0.7315	159.8	71724	103.3	4526	16285
2.41	28.92	0.7346	160.9	72203	104.0	4556	16394
2.42	29.04	0.7376	161.9	72683	104.7	4586	16503
2.43	29.16	0.7407	163.0	73164	105.4	4617	16612
2.44	29.28	0.7437	164.1	73647	106.1	4647	16721
2.45	29.40	0.7468	165.2	74130	106.8	4678	16831
2.46	29.52	0.7498	166.3	74615	107.4	4708	16941
2.47	29.64	0.7529	167.3	75101	108.1	4739	17052
2.48	29.76	0.7559	168.4	75588	108.9	4770	17162
2.49	29.88	0.7590	169.5	76076	109.6	4801	17273
2.50	30.00	0.7620	170.6	76565	110.3	4831	17384
2.51	30.12	0.7650	171.7	77056	111.0	4862	17496
2.52	30.24	0.7681	172.8	77548	111.7	4893	17607
2.53	30.36	0.7711	173.9	78041	112.4	4924	17719
2.54	30.48	0.7742	175.0	78535	113.1	4956	17831
2.55	30.60	0.7772	176.1	79030	113.8	4987	17944
2.56	30.72	0.7803	177.2	79527	114.5	5018	18057
2.57	30.84	0.7833	178.3	80024	115.2	5050	18169
2.58	30.96	0.7864	179.4	80523	116.0	5081	18283
2.59	31.08	0.7894	180.5	81023	116.7	5113	18396
2.60	31.20	0.7925	181.6	81524	117.4	5144	18510
2.61	31.32	0.7955	182.8	82026	118.1	5176	18624
2.62	31.44	0.7986	183.9	82530	118.8	5208	18738
2.63	31.56	0.8016	185.0	83034	119.6	5240	18853
2.64	31.68	0.8047	186.1	83540	120.3	5272	18968
2.65	31.80	0.8077	187.3	84047	121.0	5303	19083
2.66	31.92	0.8108	188.4	84555	121.8	5336	19198
2.67	32.04	0.8138	189.5	85064	122.5	5368	19314
2.68	32.16	0.8169	190.7	85574	123.2	5400	19430
2.69	32.28	0.8199	191.8	86086	124.0	5432	19546
2.70	32.40	0.8230	193.0	86599	124.7	5465	19662
2.71	32.52	0.8260	194.1	87112	125.4	5497	19779
2.72	32.64	0.8291	195.2	87627	126.2	5529	19896
2.73	32.76	0.8321	196.4	88143	126.9	5562	20013
2.74	32.88	0.8352	197.5	88660	127.7	5595	20130
2.75	33.00	0.8382	198.7	89179	128.4	5627	20248
2.76	33.12	0.8412	199.9	89698	129.2	5660	20366
2.77	33.24	0.8443	201.0	90219	129.9	5693	20484
2.78	33.36	0.8473	202.2	90740	130.7	5726	20603
2.79	33.48	0.8504	203.3	91263	131.4	5759	20721
2.80	33.60	0.8534	204.5	91787	132.2	5792	20840

Sources:

[Water Measurement Manual](#), 3rd Edition, United States Department of the Interior, Bureau of Reclamation

ASTM D 1941-91 (2007): Standard Test Method for Open Channel Flow Measurement of Water with Parshall Flume



120-Inch Parshall Flume Discharge Table

80% Submergence Transition

±3-5% Accuracy

Formulas (H in feet):
Formulas (H in meters):

CFS = 39.38 H_{ft}^{1.6}
L/S = 7463 H_m^{1.6}

GPM = 17674 H_{ft}^{1.6}
M3/HR = 26870 H_m^{1.6}

MGD = 25.45 H_{ft}^{1.6}

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
2.81	33.72	0.8565	205.7	92312	132.9	5825	20959
2.82	33.84	0.8595	206.9	92838	133.7	5858	21079
2.83	33.96	0.8626	208.0	93366	134.5	5892	21199
2.84	34.08	0.8656	209.2	93894	135.2	5925	21319
2.85	34.20	0.8687	210.4	94424	136.0	5958	21439
2.86	34.32	0.8717	211.6	94954	136.7	5992	21559
2.87	34.44	0.8748	212.8	95486	137.5	6025	21680
2.88	34.56	0.8778	213.9	96019	138.3	6059	21801
2.89	34.68	0.8809	215.1	96553	139.0	6093	21922
2.90	34.80	0.8839	216.3	97088	139.8	6126	22044
2.91	34.92	0.8870	217.5	97624	140.6	6160	22166
2.92	35.04	0.8900	218.7	98161	141.4	6194	22288
2.93	35.16	0.8931	219.9	98700	142.1	6228	22410
2.94	35.28	0.8961	221.1	99239	142.9	6262	22532
2.95	35.40	0.8992	222.3	99780	143.7	6296	22655
2.96	35.52	0.9022	223.5	100322	144.5	6330	22778
2.97	35.64	0.9053	224.7	100865	145.3	6365	22901
2.98	35.76	0.9083	226.0	101409	146.0	6399	23025
2.99	35.88	0.9114	227.2	101954	146.8	6433	23149
3.00	36.00	0.9144	228.4	102500	147.6	6468	23273
3.01	36.12	0.9174	229.6	103047	148.4	6502	23397
3.02	36.24	0.9205	230.8	103595	149.2	6537	23521
3.03	36.36	0.9235	232.1	104145	150.0	6572	23646
3.04	36.48	0.9266	233.3	104695	150.8	6606	23771
3.05	36.60	0.9296	234.5	105247	151.6	6641	23896
3.06	36.72	0.9327	235.7	105799	152.4	6676	24022
3.07	36.84	0.9357	237.0	106353	153.2	6711	24147
3.08	36.96	0.9388	238.2	106908	154.0	6746	24273
3.09	37.08	0.9418	239.4	107464	154.8	6781	24400
3.10	37.20	0.9449	240.7	108021	155.6	6816	24526
3.11	37.32	0.9479	241.9	108579	156.4	6851	24653
3.12	37.44	0.9510	243.2	109138	157.2	6887	24780
3.13	37.56	0.9540	244.4	109698	158.0	6922	24907
3.14	37.68	0.9571	245.7	110259	158.8	6958	25034
3.15	37.80	0.9601	246.9	110822	159.6	6993	25162
3.16	37.92	0.9632	248.2	111385	160.4	7029	25290
3.17	38.04	0.9662	249.4	111950	161.2	7064	25418
3.18	38.16	0.9693	250.7	112515	162.0	7100	25547
3.19	38.28	0.9723	252.0	113082	162.8	7136	25675
3.20	38.40	0.9754	253.2	113650	163.7	7171	25804
3.21	38.52	0.9784	254.5	114219	164.5	7207	25933
3.22	38.64	0.9815	255.8	114788	165.3	7243	26063
3.23	38.76	0.9845	257.0	115359	166.1	7279	26192
3.24	38.88	0.9876	258.3	115931	166.9	7315	26322
3.25	39.00	0.9906	259.6	116504	167.8	7352	26452
3.26	39.12	0.9936	260.9	117078	168.6	7388	26583
3.27	39.24	0.9967	262.2	117654	169.4	7424	26713
3.28	39.36	0.9997	263.4	118230	170.3	7460	26844
3.29	39.48	1.0028	264.7	118807	171.1	7497	26975
3.30	39.60	1.0058	266.0	119385	171.9	7533	27106

Sources: [Water Measurement Manual](#), 3rd Edition, United States Department of the Interior, Bureau of Reclamation

ASTM D 1941-91 (2007): Standard Test Method for Open Channel Flow Measurement of Water with Parshall Flume



120-Inch Parshall Flume Discharge Table

80% Submergence Transition

±3-5% Accuracy

Formulas (H in feet):
Formulas (H in meters):

CFS = 39.38 H_{ft}^{1.6}
L/S = 7463 H_m^{1.6}

GPM = 17674 H_{ft}^{1.6}
M3/HR = 26870 H_m^{1.6}

MGD = 25.45 H_{ft}^{1.6}

FEET	INCHES	METERS	CFS	GPM	MGD	L/S	M3/HR
3.31	39.72	1.0089	267.3	119965	172.8	7570	27238
3.32	39.84	1.0119	268.6	120545	173.6	7607	27370
3.33	39.96	1.0150	269.9	121127	174.4	7643	27502
3.34	40.08	1.0180	271.2	121709	175.3	7680	27634
3.35	40.20	1.0211	272.5	122293	176.1	7717	27767
3.36	40.32	1.0241	273.8	122877	177.0	7754	27899
3.37	40.44	1.0272	275.1	123463	177.8	7791	28032
3.38	40.56	1.0302	276.4	124050	178.6	7828	28165
3.39	40.68	1.0333	277.7	124637	179.5	7865	28299
3.40	40.80	1.0363	279.0	125226	180.3	7902	28433
3.41	40.92	1.0394	280.3	125816	181.2	7939	28566
3.42	41.04	1.0424	281.7	126407	182.0	7976	28701
3.43	41.16	1.0455	283.0	126999	182.9	8014	28835
3.44	41.28	1.0485	284.3	127592	183.7	8051	28970
3.45	41.40	1.0516	285.6	128186	184.6	8089	29105
3.46	41.52	1.0546	286.9	128781	185.5	8126	29240
3.47	41.64	1.0577	288.3	129377	186.3	8164	29375
3.48	41.76	1.0607	289.6	129974	187.2	8202	29511
3.49	41.88	1.0638	290.9	130572	188.0	8239	29646
3.50	42.00	1.0668	292.3	131171	188.9	8277	29782
3.51	42.12	1.0698	293.6	131771	189.8	8315	29919
3.52	42.24	1.0729	294.9	132372	190.6	8353	30055
3.53	42.36	1.0759	296.3	132974	191.5	8391	30192
3.54	42.48	1.0790	297.6	133578	192.4	8429	30329
3.55	42.60	1.0820	299.0	134182	193.2	8467	30466
3.56	42.72	1.0851	300.3	134787	194.1	8505	30603
3.57	42.84	1.0881	301.7	135393	195.0	8544	30741
3.58	42.96	1.0912	303.0	136001	195.8	8582	30879
3.59	43.08	1.0942	304.4	136609	196.7	8620	31017
3.60	43.20	1.0973	305.7	137218	197.6	8659	31155
3.61	43.32	1.1003	307.1	137829	198.5	8697	31294
3.62	43.44	1.1034	308.5	138440	199.4	8736	31433
3.63	43.56	1.1064	309.8	139053	200.2	8774	31572
3.64	43.68	1.1095	311.2	139666	201.1	8813	31711
3.65	43.80	1.1125	312.6	140280	202.0	8852	31851
3.66	43.92	1.1156	313.9	140896	202.9	8891	31990
3.67	44.04	1.1186	315.3	141512	203.8	8930	32130
3.68	44.16	1.1217	316.7	142130	204.7	8969	32271
3.69	44.28	1.1247	318.1	142748	205.6	9008	32411
3.70	44.40	1.1278	319.4	143368	206.5	9047	32552
3.71	44.52	1.1308	320.8	143988	207.4	9086	32693
3.72	44.64	1.1339	322.2	144610	208.2	9125	32834
3.73	44.76	1.1369	323.6	145232	209.1	9164	32975
3.74	44.88	1.1400	325.0	145856	210.0	9204	33117
3.75	45.00	1.1430	326.4	146480	210.9	9243	33258

Sources: [Water Measurement Manual](#), 3rd Edition, United States Department of the Interior, Bureau of Reclamation

ASTM D 1941-91 (2007): Standard Test Method for Open Channel Flow Measurement of Water with Parshall Flume