

HAZEN – WILLIAMS TABLES

4" HAZEN-WILLIAMS TABLE

Discharge (gpm)	Velocity (ft/sec)	Velocity Head (ft)	Head C=120 (ft/ 1000ft)	Head C=100 (ft/ 1000ft)
25	0.64	0.01	0.67	0.94
30	0.77	0.01	0.94	1.32
35	0.89	0.01	1.24	1.74
40	1.02	0.02	1.59	2.23
50	1.28	0.03	2.41	3.39
60	1.53	0.04	3.38	4.72
70	1.79	0.05	4.50	6.3
80	2.04	0.06	5.8	8.1
90	2.30	0.08	7.2	10.0
100	2.55	0.10	8.8	12.2
120	3.06	0.15	12.2	17.1
140	3.57	0.20	16.2	22.8
160	4.08	0.26	20.8	29.1
180	4.60	0.33	25.9	36.1
200	5.11	0.41	31.2	44.0
220	5.62	0.49	37.3	52.0
240	6.13	0.58	44.0	62.0
260	6.64	0.69	51.0	72.0
280	7.15	0.79	59.0	82.0
300	7.66	0.91	67.0	93.0

6" HAZEN-WILLIAMS TABLE

Discharge (1000 GPD)	Velocity (ft/sec)	Velocity Head (ft)	Head C=120 (ft/1000 ft)	Head C=100 (ft/1000 ft)
90	0.71	0.01	0.51	0.71
100	0.79	0.01	0.61	0.86
110	0.87	0.01	0.73	1.03
120	0.95	0.01	0.86	1.21
140	1.10	0.02	1.15	1.62
160	1.26	0.02	1.46	2.06
180	1.42	0.03	1.83	2.56
200	1.58	0.04	2.22	3.10
220	1.73	0.05	2.65	3.71
240	1.89	0.06	3.11	4.35
260	2.05	0.07	3.60	5.00
280	2.21	0.08	4.14	5.80
300	2.36	0.09	4.70	6.60
350	2.76	0.12	6.30	8.80
400	3.15	0.15	8.00	11.3
450	3.55	0.19	10.0	14.0
500	3.94	0.24	12.1	16.9
550	4.33	0.29	14.4	20.1
600	4.73	0.35	17.0	23.8
650	5.12	0.41	19.6	27.5

8" HAZEN-WILLIAMS TABLE

300	1.33	0.03	1.16	1.62
320	1.42	0.03	1.31	1.84
340	1.51	0.04	1.46	2.05
360	1.60	0.04	1.62	2.28
380	1.68	0.04	1.80	2.51
400	1.77	0.05	1.97	2.76
450	1.99	0.06	2.45	34.3
500	2.22	0.08	2.99	4.18
550	2.44	0.09	3.55	5.00
600	2.66	0.11	4.19	5.90
650	2.88	0.13	4.84	6.80
700	3.10	0.15	5.60	7.80
750	3.32	0.17	6.30	8.80
800	3.55	0.20	7.10	9.90
900	3.99	0.25	8.90	12.4
1,000	4.43	0.30	10.8	15.1
1,100	4.88	0.37	12.8	18.0
1,200	5.37	0.44	15.1	21.1
1,300	5.76	0.52	17.5	24.5
1,400	6.20	0.60	20.0	28.1

10" HAZEN-WILLIAMS TABLE

Discharge (1000 GPD)	Velocity (ft/sec)	Velocity Head (ft)	Head C=120 (ft/ 1000ft)	Head C=100 (ft/ 1000ft)
400	1.13	0.02	0.66	0.93
450	1.28	0.03	0.83	1.16
500	1.42	0.03	1.01	1.41
550	1.56	0.04	1.20	1.68
600	1.70	0.04	1.41	1.97
650	1.84	0.05	1.64	2.29
700	1.99	0.06	1.88	2.64
750	2.13	0.07	2.14	3.00
800	2.27	0.08	2.41	3.38
900	2.55	0.10	3.00	4.18
1,000	2.84	0.12	3.63	5.10
1,100	3.12	0.15	4.32	6.10
1,200	3.40	0.18	5.10	7.10
1,300	3.69	0.21	.590	8.30
1,400	3.97	0.24	6.80	9.50
1,500	4.26	0.28	7.70	10.8
1,600	4.54	0.32	8.70	12.2
1,800	5.11	0.41	10.8	15.1
2,000	5.67	0.50	13.1	18.4
2,200	6.24	0.60	15.6	21.8

12" HAZEN-WILLIAMS TABLES

Discharge (1000 GPD)	Velocity (ft/sec)	Velocity Head (ft)	Head C=120 (ft/ 1000ft)	Head C=100 (ft/ 1000ft)
600	0.93	0.02	0.58	0.81
700	1.08	0.03	0.77	1.08
800	1.24	0.04	0.99	1.38
900	1.39	0.05	1.23	1.72
1,000	1.55	0.06	1.50	2.10
1,100	1.70	0.07	1.79	2.50
1,200	1.86	0.09	2.10	2.94
1,300	2.01	0.10	2.43	3.40
1,400	2.17	0.12	2.79	3.90
1,500	2.32	0.14	3.17	4.43
1,600	2.48	0.15	3.58	5.00
1,700	2.63	0.17	4.00	5.60
1,800	2.79	0.20	4.43	6.20
1,900	2.94	0.22	4.92	6.90
2,000	3.09	0.24	5.40	7.60
2,200	3.40	0.29	6.50	9.00
2,400	3.71	0.35	7.60	10.5
2,600	4.02	0.41	8.80	12.3
2,800	4.33	0.47	10.1	14.1
3,000	4.64	0.54	11.5	16.0