

CAPACITY OF CAST IRON PIPE

Table No. 42

Table of contents in cubic feet and Imperial and United States gallons, and weight of water (at 62½ pounds per cubic foot) contained in one foot lengths of different internal diameters of pipe, and square root of diameter in feet.

Diameter in Inches	Diam. in Feet	Imperial Gals. of 277.274 Cubic Inches	United States Gals. of 231 Cubic Inches	Weight of Water Pounds	Square Root of Diam. in Feet	Diameter in Inches	Diam. in Feet	Imperial Gals. of 277.274 Cubic Inches	United States Gals. of 231 Cubic Inches	Weight of Water Pounds	Square Root of Diam. in Feet
1	.0833	.0340	.0108	.3395	.280	25	2 083	21.25	25.50	212.20	1.443
2	.1667	.1360	.1632	1.358	.408	26	2 167	22.99	27.58	229.51	1.472
3	.2500	.3060	.3672	3.055	.500	27	2 250	24.79	29.74	247.51	1.500
4	.3333	.5440	.6528	5.432	.579	28	2.333	26.66	31.99	266.18	1.528
5	.4167	.850	1.020	8.488	.645	29	2 417	28.60	34.31	285.53	1.555
6	.5000	1.224	1.469	12.223	.707	30	2 500	30.60	36.72	305.57	1.581
7	.5833	1.666	1.999	16.636	.764	31	2.583	32.68	39.21	326.27	1.607
8	.6667	2.176	2.611	21.729	.817	32	2.667	34.82	41.78	347.66	1.633
9	.7500	2.754	3.305	27.501	.866	33	2.750	37.03	44.43	369.74	1.658
10	.8333	3.400	4.080	33.952	.913	34	2.833	39.30	47.16	392.48	1.683
11	.9167	4.114	4.937	41.082	.957	35	2.917	41.65	49.98	415.90	1.708
12	1.	4.896	5.875	48.891	1.000	36	3.	44.07	52.88	440.00	1.732
13	1.083	5.746	6.895	57.379	1.041	37	3.083	46.55	55.86	464.80	1.756
14	1.167	6.664	7.997	66.545	1.080	38	3.167	49.10	58.92	490.24	1.779
15	1.250	7.650	9.180	76.392	1.118	39	3.250	51.72	62.06	516.40	1.803
16	1.333	8.70	10.44	86.916	1.155	40	3.333	54.40	65.28	543.24	1.825
17	1.417	9.83	11.79	98.121	1.190	41	3.417	57.15	68.58	570.72	1.849
18	1.500	11.02	13.22	110	1.224	42	3.500	59.98	71.97	598.92	1.871
19	1.583	12.28	14.73	122.56	1.258	43	3.583	62.87	75.44	627.81	1.894
20	1.667	13.60	16.32	135.81	1.291	44	3.667	65.83	78.99	657.32	1.915
21	1.750	15.00	17.99	149.73	1.323	45	3.750	68.85	82.62	687.56	1.937
22	1.833	16.46	19.75	164.33	1.354	46	3.833	71.95	86.33	718.40	1.958
23	1.917	17.99	21.58	179.60	1.384	47	3.917	75.11	90.13	750.06	1.979
24	2.	19.59	23.50	195.56	1.414	48	4.	78.34	94.00	782.24	2.000

For larger diameters than those given, take one-half the size required from the table, and multiply by 4; so also with gallons and weights.

NOTES

- An Imperial Gallon = 277.274 cubic inches = 10 lbs. at 62° F.
- A United States Gallon = 231 cubic inches = 8.3356 lbs. at 62° F.
- 6.2321 Imperial Gallons = 1 cubic foot = 7.4805 U.S. Gallons.
- 1 Imperial Gallon = 1.20032 U.S. Gallons.