

CAPACITY OF CYLINDRICAL TANKS AND CISTERNS
(In United States Gallons of 231 cubic inches)

Inside Diam ft. in.	Water Depth 1 ft.	Water Depth 4 ft.	Water Depth 5 ft.	Water Depth 6 ft.	Water Depth 7 ft.	Water Depth 8 ft.	Water Depth 9 ft.	Water Depth 12 ft.	Water Depth 15 ft.
4'-0"	94	376	470	564	658	752	846	1128	1410
4'-6"	119	470	595	714	833	952	1071	1428	1785
5'-0"	146.9	588	734	881	1028	1175	1322	1763	2203
5'-6"	177.7	711	889	1066	1244	1422	1600	2133	2666
6'-0"	211.5	846	1058	1269	1481	1692	1904	2538	3173
6'-3"	229.5	918	1148	1377	1607	1836	2066	2754	3443
6'-6"	248.2	993	1241	1489	1738	1986	2234	2979	3724
6'-9"	267.7	1071	1338	1606	1784	2142	2409	3212	4015
7'-0"	287.9	1152	1439	1727	2015	2303	2591	3455	4318
7'-3"	308.8	1235	1544	1853	2162	2471	2779	3700	4632
7'-6"	330.5	1322	1652	1983	2313	2544	2974	3966	4957
7'-9"	352.9	1412	1764	2117	2470	2823	3176	4253	5293
8'-0"	376	1504	1880	2256	2632	3008	3384	4512	5640
8'-3"	399.9	1600	1999	2399	2799	3199	3599	4799	5998
8'-6"	424.5	1698	2122	2547	2971	3396	3820	5094	6367
8'-9"	449.8	1799	2249	2699	3149	3599	4148	5398	6747
9'-0"	475.9	1904	2380	2853	3331	3807	4283	5711	7138
9'-3"	502.7	2011	2514	3016	3519	4022	4524	6032	7540
9'-6"	530.2	2121	2651	3181	3712	4242	4772	6363	7954
9'-9"	558.5	2234	2793	3351	3910	4468	5027	6702	8378
10'-0"	587.5	2350	2938	3525	4113	4700	5288	7050	8813
10'-3"	617.3	2469	3086	3704	4321	4938	5555	7407	9259
10'-6"	647.7	2591	3239	3886	4534	5182	5830	7773	9716
10'-9"	679	2716	3395	4074	4753	5432	6111	8147	10184
11'-0"	710.9	2844	3555	4365	4976	5687	6398	8531	10664
11'-3"	743.6	2972	3718	4462	5205	5949	6692	8923	11154
11'-6"	777	3108	3885	4662	5439	6216	6993	9324	11655
11'-9"	811.1	3245	4056	4867	5678	6489	7300	9734	12167
12'-0"	846	3384	4230	5076	5922	6768	7614	10152	12691
12'-6"	918	3672	4590	5508	6426	7344	8262	11016	13770
13'-0"	992	3972	4965	5957	6950	7943	8936	11915	14894
13'-6"	1070.8	4283	5354	6425	7495	8566	9637	12849	16661
14'-0"	1151.5	4606	5758	6909	8061	9212	10364	13819	17373
14'-6"	1235.3	4941	6176	7412	8647	9882	11117	14823	18529
15'-0"	1321.9	5288	6610	7932	9253	10575	11897	15863	19829
15'-6"	1411.5	5646	7058	8469	9881	11292	12704	16938	21173
16'-0"	1504.1	6016	7520	9024	10528	12032	13537	18049	22561

Gallons contained in 100 feet in length of Pipe

Diam.	Gals.	Diam.	Gals.	Diam.	Gals.	Diam.	Gals.	Diam.	Gals.
3/4 in.	2.3	2 in.	16.32	4"	65.3	8"	261.1	20"	1632
1 in.	4.08	2 1/2"	25.5	5"	102	10"	408.1	24"	2350
1 1/4 in.	6.38	3"	36.73	6"	146.9	12"	587.6	30"	3072
1 1/2 in.	9.18	3 1/2"	49.98	7"	199.9	16"	1044.5	36"	5288

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17'-0"	1697.9	6792	8490	10188	11886	13583	15281	20375	25469
18'-0"	1903.6	7614	9518	11421	13325	15228	17132	22843	28553
19'-0"	2120.9	8484	10605	12746	14847	16968	19089	25451	31814
20'-0"	2350.1	9400	11750	14100	16451	18801	21151	28201	35251
21'-0"	2590.8	10363	12954	15545	18136	20726	23317	31090	38862
22'-0"	2843.6	11374	14218	17062	19905	22749	25592	34123	42654
23'-0"	3107.9	12432	15540	18647	21755	24863	27971	37295	46610
24'-0"	3384.1	13536	16921	20305	23689	27073	30457	40609	50762
25'-0"	3671.7	14687	18359	22030	25702	29374	33045	44060	55076
26'-0"	3971.6	15887	19858	23830	27801	31773	35745	47600	59575
27'-0"	4282.7	17131	21414	25696	29979	34262	38544	51392	64241
28'-0"	4606.2	18425	23031	27637	32243	36849	41455	55274	69092
29'-0"	4940.7	19763	24704	29644	34585	39526	44466	59288	74111
30'-0"	5287.7	21151	26438	31726	37014	42301	47589	63452	79315
31'-0"	5645.7	22583	28229	33874	39520	45166	50811	67748	84686
32'-0"	6016.2	24065	30081	36097	42113	48130	54146	72194	90243
33'-0"	6397.6	25590	31988	38386	44783	51181	57578	76771	95964
34'-0"	6791.2	27165	33956	40747	47538	54330	61121	81494	101868
35'-0"	7197.1	28788	35986	43183	50380	57577	64774	86365	107957
36'-0"	7614.4	30458	38072	45686	53301	60915	68530	91372	114216
37'-0"	8043.1	32172	40216	48259	56302	64345	72388	96517	120647
38'-0"	8483.7	33935	42419	50902	59386	67870	76353	101804	127256
39'-0"	8936.2	35745	44681	53617	62553	71490	80426	107234	134043
40'-0"	9400.2	37601	47002	56402	65802	75202	84603	112804	141005
42'-0"	10303	41451	51814	62176	72539	82902	93264	124357	155441
45'-0"	11897	47589	59486	71384	83281	95178	107075	142767	178459
47'-0"	12977	51908	64886	77863	90840	103817	116794	155725	194657
50'-0"	14688	58752	73440	88128	102816	117504	132192	176256	220319
60'-0"	21151	84603	105753	126904	148055	169205	190356	253808	317260
70'-0"	28788	115154	143942	172730	201519	230307	259096	345461	431826
80'-0"	37601	150403	188004	225605	263206	300806	338407	451210	564012
90'-0"	47589	190355	237944	285533	333122	380710	428299	571066	713832
100'-0"	58752	235008	293760	352512	411264	470016	528768	705024	881280

1 cubic foot contains 7-1/2 gallons nearly, or 7.8052 gallons exactly.

1 cubic foot of pure water, at a temperature of 60 degrees fahrenheit, weighs 62.366 lbs.

1 U.S. gallon of pure water, at a temperature of 60 degrees fahrenheit weighs 8.331 lbs.

240.07 gallons of water weigh one ton of 2000 lbs.

1000 gallons of water weigh 4.165 tons, or 4 1/6 tons approximately.

The amount of water required to fill an ordinary automatic sprinkler system is about one gallon per sprinkler. This includes riser and all distribution pipes with the mill, but does not include ground mains from pump or city supply to base of riser. This figure (1 gallon per head) applies specially to systems piped from center with 1 to 115 heads on each floor. If system of 115 heads is fed from end instead of center, contents will be about 1 1/4 gallons per head. For large systems, with 6-inch riser and about 250 heads per floor, contents, if riser is in center, will be about 1 1/4 gallons per head, and if riser is at one end, will be 1 1/2 gallons per head.