VOLUME PER UNIT LENGTH OF
CYLINDRICAL CONTAINERS

Diameter (inches)	Liters (per in)	Liters (per ft)	US Gallons (per in)	US Gallons (per ft)
1.0	0.0129	0.154	0.0033	0.040
1.5	0.0290	0.347	0.0076	0.091
2.0	0.0515	0.618	0.0135	0.163
2.5	0.0804	0.965	0.0212	0.254
3.0	0.1158	1.390	0.0305	0.367
3.5	0.1577	1.892	0.0416	0.499
4.0	0.2059	2.471	0.0543	0.652
4.5	0.2606	3.127	0.0688	0.826
5.0	0.3218	3.861	0.0849	1.019
5.5	0.3893	4.672	0.1028	1.234
6.0	0.4633	5.560	0.1223	1.468
6.5	0.5438	6.525	0.1436	1.723
7.0	0.6306	7.568	0.1665	1.999
7.5	0.7239	8.687	0.1912	2.294
8.0	0.8237	9.884	0.2175	2.611
8.5	0.9299	11.158	0.2456	2.947
9.0	1.0425	12.510	0.2753	3.304
9.5	1.1615	13.938	0.3068	3.682
10.0	1.287	15.44	0.3399	4.079
10.5	1.419	17.03	0.3748	4.498
11.0	1.557	18.69	0.4113	4.936
11.5	1.702	20.42	0.4496	5.395
12.0	1.853	22.24	0.4895	5.875
12.5	2.011	24.13	0.5312	6.374
13.0	2.175	26.10	0.5745	6.895
13.5	2.346	28.15	0.6196	7.435
14.0	2.523	30.27	0.6663	7.996
14.5	2.706	32.47	0.7148	8.578
15.0	2.896	34.75	0.7649	9.179
15.5	3.092	37.11	0.8168	9.802
16.0	3.295	39.54	0.8703	10.444
16.5	3.504	42.05	0.9256	11.107
17.0	3.720	44.64	0.9825	11.791
17.5	3.942	47.30	1.0412	12.494
18.0	4.170	50.04	1.1015	13.219
18.5	4.405	52.86	1.1636	13.963
19.0	4.647	55.76	1.2273	14.728
19.5	4.894	58.73	1.2928	15.514
20.0	5.149	61.78	1.3599	16.319
20.5	5.409	64.91	1.4288	17.146
21.0	5.676	68.12	1.4993	17.992
21.5	5.950	71.40	1.5716	18.859
22.0	6.230.	74.76	1.6455	19.747
22.5	6.516	78.20	1.7212	20.654
23.0	6.809	81.71	1.7985	21.583
23.5	7.108	85.30	1.8776	22.531
24.0	7.414	88.97	1.9583	23.500
24.5	7.726	92.72	2.0408	24.490
25.0	8.045	96.54	2.1249	25.499
25.5	8.370	100.44	2.2108	26.530
26.0	8.701	104.42	2.2983	27.580
26.5	9.039	108.47	2.3876	28.651
27.0	9.384	112.61	2.4785	29.743
27.5	9.734	116.81	2.5712	30.854
28.0	10.092	121.10	2.6655	31.987
28.5	10.455	125.47	2.7616	33.139
29.0	10.825	129.91	2.8593	34.312
29.5	11.202	134.42	2.9588	35.506
30.0	11.585	139.02	3:0599	36.719
(30 gal drum)				
18.4	4.356	52.27	1.151	13.81
(55 gal drum)				
22.5	6.516	78.20	1.7212	20.654

(Taken from Y-1272, Y-12 Plant Nuclear Safety Handbook.)