

# TANK CAPACITIES

## VERTICAL CYLINDER

| Dia (in) | Dia (ft) | Surface Area (sq ft) | Volume per 1' depth (Gal) | Dia (in) | Dia (ft) | Area (sq ft) | Volume per 1' depth (Gal) | Dia (in) | Dia (ft) | Area (sq ft) | Volume per 1' depth (Gal) | Dia (in) | Dia (ft) | Area (sq ft) | Volume per 1' depth (Gal) |
|----------|----------|----------------------|---------------------------|----------|----------|--------------|---------------------------|----------|----------|--------------|---------------------------|----------|----------|--------------|---------------------------|
| 2        | 0.167    | 9.222                | 0.163                     | 45       | 3.750    | 11.04        | 82.62                     | 120      | 10.0     | 78.54        | 587.5                     | 396      | 33       | 855.3        | 6398                      |
| 3        | 0.250    | 0.049                | 0.367                     | 46       | 3.833    | 11.54        | 86.33                     | 126      | 10.5     | 86.59        | 647.7                     | 408      | 34       | 907.9        | 6792                      |
| 4        | 0.333    | 0.087                | 0.653                     | 47       | 3.917    | 12.05        | 90.13                     | 132      | 11.0     | 95.03        | 710.9                     | 420      | 35       | 962.1        | 7197                      |
| 5        | 0.417    | 0.136                | 1.020                     | 48       | 4.000    | 12.57        | 94.00                     | 138      | 11.5     | 103.9        | 777.0                     | 432      | 36       | 1018         | 7614                      |
| 6        | 0.500    | 0.196                | 1.469                     | 49       | 4.083    | 13.10        | 97.96                     | 144      | 12.0     | 113.1        | 846.0                     | 444      | 37       | 1075         | 8043                      |
| 7        | 0.583    | 0.267                | 1.999                     | 50       | 4.167    | 13.64        | 102.0                     | 150      | 12.5     | 122.7        | 918.0                     | 456      | 38       | 1134         | 8484                      |
| 8        | 0.667    | 0.349                | 2.611                     | 51       | 4.250    | 14.19        | 106.1                     | 156      | 13.0     | 132.7        | 992.9                     | 468      | 39       | 1195         | 8936                      |
| 9        | 0.750    | 0.442                | 3.305                     | 52       | 4.333    | 14.75        | 110.3                     | 162      | 13.5     | 143.1        | 1071                      | 480      | 40       | 1257         | 9400                      |
| 10       | 0.833    | 0.545                | 4.080                     | 53       | 4.417    | 15.32        | 114.6                     | 168      | 14.0     | 153.9        | 1152                      | 492      | 41       | 1320         | 9976                      |
| 11       | 0.917    | 0.660                | 4.937                     | 54       | 4.500    | 15.90        | 119.0                     | 174      | 14.5     | 165.1        | 1235                      | 504      | 42       | 1385         | 10364                     |
| 12       | 1.000    | 0.785                | 5.875                     | 55       | 4.583    | 16.50        | 123.4                     | 180      | 15.0     | 176.7        | 1322                      | 516      | 43       | 1452         | 10863                     |
| 13       | 1.083    | 0.922                | 6.895                     | 56       | 4.667    | 17.10        | 127.9                     | 186      | 15.5     | 188.7        | 1412                      | 528      | 44       | 1521         | 11374                     |
| 14       | 1.167    | 1.069                | 7.997                     | 57       | 4.750    | 17.72        | 132.6                     | 192      | 16.0     | 201.1        | 1504                      | 540      | 45       | 1590         | 11897                     |
| 15       | 1.250    | 1.227                | 9.180                     | 58       | 4.833    | 18.35        | 137.3                     | 198      | 16.5     | 213.8        | 1600                      | 552      | 46       | 1662         | 12432                     |
| 16       | 1.333    | 1.396                | 10.44                     | 59       | 4.917    | 18.99        | 142.0                     | 204      | 17.0     | 227.0        | 1698                      | 564      | 47       | 1735         | 12978                     |
| 17       | 1.417    | 1.576                | 11.79                     | 60       | 5.000    | 19.63        | 146.9                     | 210      | 17.5     | 240.5        | 1799                      | 576      | 48       | 1810         | 13536                     |
| 18       | 1.500    | 1.767                | 13.22                     | 61       | 5.083    | 20.29        | 151.8                     | 216      | 18.0     | 254.5        | 1904                      | 588      | 49       | 1886         | 14106                     |
| 19       | 1.583    | 1.969                | 14.73                     | 62       | 5.167    | 20.97        | 156.8                     | 222      | 18.5     | 268.8        | 2011                      | 600      | 50       | 1963         | 14688                     |
| 20       | 1.667    | 2.182                | 16.32                     | 63       | 5.250    | 21.65        | 161.9                     | 228      | 19.0     | 283.5        | 2121                      | 624      | 52       | 2124         | 15887                     |
| 21       | 1.750    | 2.405                | 17.99                     | 64       | 5.333    | 22.34        | 167.1                     | 234      | 19.5     | 298.6        | 2234                      | 648      | 54       | 2290         | 17132                     |
| 22       | 1.833    | 2.640                | 19.75                     | 65       | 5.417    | 23.04        | 172.4                     | 240      | 20.0     | 314.2        | 2350                      | 672      | 56       | 2463         | 18425                     |
| 23       | 1.917    | 2.885                | 21.58                     | 66       | 5.500    | 23.76        | 177.7                     | 246      | 20.5     | 330.1        | 2469                      | 696      | 58       | 2642         | 19764                     |
| 24       | 2.000    | 3.142                | 23.50                     | 67       | 5.583    | 24.48        | 183.2                     | 252      | 21.0     | 346.4        | 2591                      | 720      | 60       | 2827         | 21151                     |
| 25       | 2.083    | 3.409                | 25.50                     | 68       | 5.667    | 25.22        | 188.7                     | 258      | 21.5     | 363.1        | 2716                      | 744      | 62       | 3019         | 22584                     |
| 26       | 2.167    | 3.687                | 27.58                     | 69       | 5.750    | 25.97        | 194.2                     | 264      | 22.0     | 380.1        | 2844                      | 768      | 64       | 3217         | 24065                     |
| 27       | 2.250    | 3.976                | 29.74                     | 70       | 5.833    | 26.73        | 199.9                     | 270      | 22.5     | 397.6        | 2974                      | 792      | 66       | 3421         | 25592                     |
| 28       | 2.333    | 4.276                | 31.99                     | 71       | 5.917    | 27.49        | 205.7                     | 276      | 23.0     | 415.5        | 3108                      | 816      | 68       | 3632         | 27167                     |
| 29       | 2.417    | 4.587                | 34.31                     | 72       | 6.000    | 28.27        | 211.5                     | 282      | 23.5     | 433.7        | 3245                      | 840      | 70       | 3848         | 28788                     |
| 30       | 2.500    | 4.909                | 36.72                     | 75       | 6.25     | 30.68        | 229.5                     | 288      | 24.0     | 452.4        | 3384                      | 864      | 72       | 4072         | 30457                     |
| 31       | 2.583    | 5.241                | 39.21                     | 78       | 6.50     | 33.18        | 248.2                     | 294      | 24.5     | 471.4        | 3527                      | 888      | 74       | 4301         | 32173                     |
| 32       | 2.667    | 5.585                | 41.78                     | 81       | 6.75     | 35.78        | 267.7                     | 300      | 25.0     | 490.9        | 3672                      | 912      | 76       | 4536         | 33935                     |
| 33       | 2.750    | 5.940                | 44.43                     | 84       | 7.00     | 38.48        | 287.9                     | 306      | 25.5     | 510.7        | 3820                      | 936      | 78       | 4778         | 35745                     |
| 34       | 2.833    | 6.305                | 47.16                     | 87       | 7.25     | 41.28        | 308.8                     | 312      | 26.0     | 530.9        | 3972                      | 960      | 80       | 5027         | 37601                     |
| 35       | 2.917    | 6.681                | 49.98                     | 90       | 7.50     | 44.18        | 330.5                     | 318      | 26.5     | 551.5        | 4126                      | 984      | 82       | 5281         | 39505                     |
| 36       | 3.000    | 7.069                | 52.88                     | 93       | 7.75     | 47.17        | 352.9                     | 324      | 27.0     | 572.6        | 4283                      | 1008     | 84       | 5542         | 41455                     |
| 37       | 3.083    | 7.467                | 55.86                     | 96       | 8.00     | 50.27        | 376.0                     | 330      | 27.5     | 594.0        | 4443                      | 1032     | 86       | 5809         | 43453                     |
| 38       | 3.167    | 7.876                | 58.92                     | 99       | 8.25     | 53.46        | 399.9                     | 336      | 28.0     | 615.8        | 4606                      | 1056     | 88       | 6082         | 45497                     |
| 39       | 3.250    | 8.296                | 62.06                     | 102      | 8.50     | 56.75        | 424.5                     | 342      | 28.5     | 637.9        | 4772                      | 1080     | 90       | 6362         | 47589                     |
| 40       | 3.333    | 8.727                | 65.28                     | 105      | 8.75     | 60.13        | 449.8                     | 348      | 29.0     | 660.5        | 4941                      | 1104     | 92       | 6648         | 49728                     |
| 41       | 3.417    | 9.168                | 68.58                     | 108      | 9.00     | 63.62        | 475.9                     | 354      | 29.5     | 683.5        | 5113                      | 1128     | 94       | 6940         | 51913                     |
| 42       | 3.500    | 9.621                | 71.97                     | 111      | 9.25     | 67.20        | 502.7                     | 360      | 30       | 706.9        | 5288                      | 1152     | 96       | 7238         | 54146                     |
| 43       | 3.583    | 10.08                | 75.44                     | 114      | 9.50     | 70.88        | 530.2                     | 366      | 31       | 730.8        | 5466                      | 1176     | 98       | 7543         | 56425                     |
| 44       | 3.667    | 10.56                | 78.99                     | 117      | 9.75     | 74.66        | 558.5                     | 372      | 32       | 755.2        | 5646                      | 1200     | 100      | 7854         | 58752                     |

## HORIZONTAL CYLINDER

Contents in gallons per foot of length of tank with flat ends when filled to various depths.

| Tank Dia (in) | Depth of Liquid, h (in) |      |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |  |
|---------------|-------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
|               | Full Tank               | 3    | 6     | 9     | 12    | 15    | 18    | 21    | 24    | 27    | 30     | 33     | 36     | 39     | 42     | 45     | 48     | 51     | 54     | 57     | 60     |  |
| 6             | 1.47                    | 0.73 | 1.47  |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |  |
| 12            | 5.88                    | 1.15 | 2.94  | 4.73  | 5.88  |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |  |
| 18            | 13.22                   | 1.45 | 3.86  | 6.61  | 9.36  | 11.77 | 13.22 |       |       |       |        |        |        |        |        |        |        |        |        |        |        |  |
| 24            | 23.50                   | 1.70 | 4.59  | 8.05  | 11.75 | 15.45 | 18.91 | 21.81 | 23.50 | 27    | 30     |        |        |        |        |        |        |        |        |        |        |  |
| 30            | 36.72                   | 1.91 | 5.23  | 9.27  | 13.72 | 18.36 | 23.00 | 27.45 | 31.49 | 34.81 | 36.72  | 33     | 36     |        |        |        |        |        |        |        |        |  |
| 36            | 52.88                   | 2.10 | 5.79  | 10.34 | 15.43 | 20.85 | 26.44 | 32.02 | 37.45 | 42.54 | 47.08  | 50.77  | 52.88  | 39     | 42     |        |        |        |        |        |        |  |
| 42            | 71.97                   | 2.28 | 6.31  | 11.31 | 16.97 | 23.07 | 29.46 | 35.99 | 42.51 | 48.90 | 55.00  | 60.66  | 65.66  | 69.69  | 71.97  | 45     | 48     |        |        |        |        |  |
| 48            | 94.00                   | 2.45 | 6.78  | 12.20 | 18.38 | 25.10 | 32.20 | 39.54 | 47.00 | 54.46 | 61.81  | 68.91  | 75.63  | 81.80  | 87.22  | 91.56  | 94.00  | 51     | 54     |        |        |  |
| 54            | 118.97                  | 2.60 | 7.23  | 13.03 | 19.69 | 26.97 | 34.72 | 42.79 | 51.09 | 59.49 | 67.88  | 76.18  | 84.26  | 92.00  | 99.29  | 105.94 | 111.75 | 116.37 | 118.97 | 57     | 60     |  |
| 60            | 146.88                  | 2.75 | 7.64  | 13.82 | 20.91 | 28.72 | 37.06 | 45.81 | 54.86 | 64.10 | 73.44  | 82.77  | 92.02  | 101.07 | 109.82 | 118.16 | 125.97 | 133.06 | 139.24 | 144.13 | 146.88 |  |
| 66            | 117.72                  | 2.88 | 8.04  | 14.56 | 22.07 | 30.36 | 39.26 | 48.64 | 58.39 | 68.40 | 78.59  | 88.86  | 99.13  | 109.32 | 119.33 | 129.08 | 138.46 | 147.36 | 155.65 | 163.17 | 169.68 |  |
| 72            | 211.51                  | 3.02 | 8.42  | 15.26 | 23.17 | 31.92 | 41.35 | 51.32 | 61.72 | 72.45 | 83.42  | 94.55  | 105.75 | 116.96 | 128.09 | 139.06 | 149.79 | 160.19 | 170.16 | 179.58 | 188.34 |  |
| 78            | 248.23                  | 3.14 | 8.78  | 15.93 | 24.22 | 33.41 | 43.33 | 53.86 | 64.87 | 76.27 | 87.97  | 99.90  | 111.97 | 124.11 | 136.26 | 148.33 | 160.25 | 171.96 | 183.36 | 194.37 | 204.89 |  |
| 84            | 287.88                  | 3.26 | 9.13  | 16.58 | 25.23 | 34.84 | 45.23 | 56.28 | 67.87 | 79.91 | 92.30  | 104.97 | 117.85 | 130.86 | 143.94 | 157.02 | 170.03 | 182.91 | 195.58 | 207.98 | 220.01 |  |
| 90            | 330.48                  | 3.38 | 9.46  | 17.20 | 26.19 | 36.20 | 47.05 | 58.61 | 70.75 | 83.39 | 96.43  | 109.81 | 123.44 | 137.27 | 151.22 | 165.24 | 179.26 | 193.21 | 207.04 | 220.67 | 234.05 |  |
| 96            | 376.01                  | 3.49 | 9.78  | 17.80 | 27.13 | 37.52 | 48.81 | 60.84 | 73.51 | 86.72 | 100.39 | 114.44 | 128.79 | 143.39 | 158.16 | 173.05 | 188.01 | 202.96 | 217.85 | 232.62 | 247.22 |  |
| 102           | 424.48                  | 3.60 | 10.10 | 18.38 | 28.03 | 38.80 | 50.50 | 62.99 | 76.17 | 89.94 | 104.20 | 118.88 | 133.92 | 149.25 | 164.80 | 180.52 | 196.35 | 212.24 | 228.13 | 243.96 | 259.68 |  |
| 108           | 475.89                  | 3.71 | 10.40 | 18.94 | 28.90 | 40.02 | 52.13 | 65.08 | 78.74 | 93.04 | 107.87 | 123.17 | 138.86 | 154.88 | 171.18 | 187.69 | 204.35 | 221.12 | 237.95 | 254.77 | 271.54 |  |
| 114           | 530.24                  | 3.81 | 10.70 | 19.49 | 29.75 | 41.23 | 53.72 | 67.10 | 81.23 | 96.04 | 111.42 | 127.31 | 143.63 | 160.32 | 177.32 | 194.58 | 212.04 | 229.65 | 247.36 | 265.12 | 282.88 |  |
| 120           | 587.52                  | 3.91 | 10.98 | 20.02 | 30.58 | 42.39 | 55.26 | 69.06 | 83.65 | 98.95 | 114.86 | 131.31 | 148.24 | 165.57 | 183.26 | 201.24 | 219.46 | 237.87 | 256.42 | 275.07 | 293.76 |  |

