



BARGE "KIRBY 28172"

ULLAGE TRIM TABLE

| | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | |
|--------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
| | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> |
| 1 PORT | 00-1/2 | - 00-1/2 | 00-7/8 | - 00-7/8 | 01-3/8 | - 01-3/8 | 01-3/4 | - 01-3/4 | 02-1/4 | - 02-1/4 | 02-5/8 | - 02-5/8 |
| 1 STBD | 00-1/2 | - 00-1/2 | 00-7/8 | - 00-7/8 | 01-3/8 | - 01-3/8 | 01-3/4 | - 01-3/4 | 02-1/4 | - 02-1/4 | 02-5/8 | - 02-5/8 |
| 2 PORT | 00-1/2 | - 00-1/2 | 00-7/8 | - 00-7/8 | 01-3/8 | - 01-3/8 | 01-3/4 | - 01-3/4 | 02-1/4 | - 02-1/4 | 02-5/8 | - 02-5/8 |
| 2 STBD | 00-1/2 | - 00-1/2 | 00-7/8 | - 00-7/8 | 01-3/8 | - 01-3/8 | 01-3/4 | - 01-3/4 | 02-1/4 | - 02-1/4 | 02-5/8 | - 02-5/8 |
| 3 PORT | 00-1/2 | - 00-1/2 | 00-7/8 | - 00-7/8 | 01-3/8 | - 01-3/8 | 01-3/4 | - 01-3/4 | 02-1/4 | - 02-1/4 | 02-5/8 | - 02-5/8 |
| 3 STBD | 00-1/2 | - 00-1/2 | 00-7/8 | - 00-7/8 | 01-3/8 | - 01-3/8 | 01-3/4 | - 01-3/4 | 02-1/4 | - 02-1/4 | 02-5/8 | - 02-5/8 |

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-7/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 1/8"

LENGTH BETWEEN DRAFT MARKS: 241'-06"

May 4, 2011

PRECISION MEASUREMENT
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BARGE "KIRBY 28172"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/4"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 |
| | | | | | | | | | 4,535.75 | | 4,203.92 | | 3,848.07 | | 3,481.39 | | 3,114.67 | | 2,747.96 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,529.09 | 1/4 | 4,196.73 | 1/4 | 3,840.45 | 1/4 | 3,473.75 | 1/4 | 3,107.03 | 1/4 | 2,740.32 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,522.39 | 1/2 | 4,189.51 | 1/2 | 3,832.81 | 1/2 | 3,466.11 | 1/2 | 3,099.39 | 1/2 | 2,732.68 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,841.48 | 3/4 | 4,515.70 | 3/4 | 4,182.28 | 3/4 | 3,825.18 | 3/4 | 3,458.47 | 3/4 | 3,091.76 | 3/4 | 2,725.04 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4,509.00 | 1 | 4,175.06 | 1 | 3,817.54 | 1 | 3,450.83 | 1 | 3,084.12 | 1 | 2,717.40 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,830.19 | 1/4 | 4,502.31 | 1/4 | 4,167.84 | 1/4 | 3,809.91 | 1/4 | 3,443.19 | 1/4 | 3,076.48 | 1/4 | 2,709.76 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,823.35 | 1/2 | 4,495.58 | 1/2 | 4,160.58 | 1/2 | 3,802.27 | 1/2 | 3,435.55 | 1/2 | 3,068.84 | 1/2 | 2,702.12 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,816.51 | 3/4 | 4,488.85 | 3/4 | 4,153.32 | 3/4 | 3,794.63 | 3/4 | 3,427.91 | 3/4 | 3,061.20 | 3/4 | 2,694.48 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4,809.68 | 2 | 4,482.12 | 2 | 4,146.05 | 2 | 3,786.99 | 2 | 3,420.27 | 2 | 3,053.56 | 2 | 2,686.84 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,802.84 | 1/4 | 4,475.39 | 1/4 | 4,138.79 | 1/4 | 3,779.35 | 1/4 | 3,412.63 | 1/4 | 3,045.92 | 1/4 | 2,679.20 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,795.36 | 1/2 | 4,468.63 | 1/2 | 4,131.50 | 1/2 | 3,771.71 | 1/2 | 3,404.99 | 1/2 | 3,038.28 | 1/2 | 2,671.56 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,787.89 | 3/4 | 4,461.86 | 3/4 | 4,124.20 | 3/4 | 3,764.07 | 3/4 | 3,397.35 | 3/4 | 3,030.64 | 3/4 | 2,663.92 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4,780.41 | 3 | 4,455.10 | 3 | 4,116.90 | 3 | 3,756.43 | 3 | 3,389.71 | 3 | 3,023.00 | 3 | 2,656.28 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,772.94 | 1/4 | 4,448.33 | 1/4 | 4,109.60 | 1/4 | 3,748.79 | 1/4 | 3,382.07 | 1/4 | 3,015.36 | 1/4 | 2,648.64 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,765.38 | 1/2 | 4,441.53 | 1/2 | 4,102.27 | 1/2 | 3,741.15 | 1/2 | 3,374.43 | 1/2 | 3,007.72 | 1/2 | 2,641.00 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,757.83 | 3/4 | 4,434.73 | 3/4 | 4,094.94 | 3/4 | 3,733.51 | 3/4 | 3,366.79 | 3/4 | 3,000.08 | 3/4 | 2,633.36 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4,750.27 | 4 | 4,427.93 | 4 | 4,087.60 | 4 | 3,725.87 | 4 | 3,359.15 | 4 | 2,992.44 | 4 | 2,625.72 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,742.71 | 1/4 | 4,421.13 | 1/4 | 4,080.27 | 1/4 | 3,718.23 | 1/4 | 3,351.51 | 1/4 | 2,984.80 | 1/4 | 2,618.08 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,735.44 | 1/2 | 4,414.29 | 1/2 | 4,072.90 | 1/2 | 3,710.59 | 1/2 | 3,343.87 | 1/2 | 2,977.16 | 1/2 | 2,610.44 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,728.16 | 3/4 | 4,407.45 | 3/4 | 4,065.54 | 3/4 | 3,702.95 | 3/4 | 3,336.23 | 3/4 | 2,969.52 | 3/4 | 2,602.80 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4,720.89 | 5 | 4,400.61 | 5 | 4,058.17 | 5 | 3,695.31 | 5 | 3,328.59 | 5 | 2,961.88 | 5 | 2,595.16 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,713.61 | 1/4 | 4,393.77 | 1/4 | 4,050.80 | 1/4 | 3,687.67 | 1/4 | 3,320.95 | 1/4 | 2,954.24 | 1/4 | 2,587.52 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,706.89 | 1/2 | 4,386.89 | 1/2 | 4,043.40 | 1/2 | 3,680.03 | 1/2 | 3,313.31 | 1/2 | 2,946.60 | 1/2 | 2,579.88 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,700.16 | 3/4 | 4,380.02 | 3/4 | 4,036.00 | 3/4 | 3,672.39 | 3/4 | 3,305.67 | 3/4 | 2,938.96 | 3/4 | 2,572.24 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 4,693.44 | 6 | 4,373.14 | 6 | 4,028.60 | 6 | 3,664.75 | 6 | 3,298.03 | 6 | 2,931.32 | 6 | 2,564.60 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,686.71 | 1/4 | 4,366.26 | 1/4 | 4,021.20 | 1/4 | 3,657.11 | 1/4 | 3,290.39 | 1/4 | 2,923.68 | 1/4 | 2,556.96 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,680.24 | 1/2 | 4,359.35 | 1/2 | 4,013.76 | 1/2 | 3,649.47 | 1/2 | 3,282.75 | 1/2 | 2,916.04 | 1/2 | 2,549.32 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,673.76 | 3/4 | 4,352.44 | 3/4 | 4,006.32 | 3/4 | 3,641.83 | 3/4 | 3,275.11 | 3/4 | 2,908.40 | 3/4 | 2,541.68 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4,667.29 | 7 | 4,345.52 | 7 | 3,998.88 | 7 | 3,634.19 | 7 | 3,267.47 | 7 | 2,900.76 | 7 | 2,534.04 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,660.82 | 1/4 | 4,338.61 | 1/4 | 3,991.45 | 1/4 | 3,626.55 | 1/4 | 3,259.83 | 1/4 | 2,893.12 | 1/4 | 2,526.40 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,654.30 | 1/2 | 4,331.64 | 1/2 | 3,983.97 | 1/2 | 3,618.91 | 1/2 | 3,252.19 | 1/2 | 2,885.48 | 1/2 | 2,518.76 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,647.79 | 3/4 | 4,324.66 | 3/4 | 3,976.49 | 3/4 | 3,611.27 | 3/4 | 3,244.55 | 3/4 | 2,877.84 | 3/4 | 2,511.12 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 4,641.28 | 8 | 4,317.69 | 8 | 3,969.02 | 8 | 3,603.63 | 8 | 3,236.91 | 8 | 2,870.20 | 8 | 2,503.48 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,634.77 | 1/4 | 4,310.72 | 1/4 | 3,961.54 | 1/4 | 3,595.99 | 1/4 | 3,229.27 | 1/4 | 2,862.56 | 1/4 | 2,495.84 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,628.22 | 1/2 | 4,303.67 | 1/2 | 3,954.03 | 1/2 | 3,588.35 | 1/2 | 3,221.63 | 1/2 | 2,854.92 | 1/2 | 2,488.20 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,621.67 | 3/4 | 4,296.61 | 3/4 | 3,946.51 | 3/4 | 3,580.71 | 3/4 | 3,213.99 | 3/4 | 2,847.28 | 3/4 | 2,480.56 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 4,615.12 | 9 | 4,289.56 | 9 | 3,939.00 | 9 | 3,573.07 | 9 | 3,206.35 | 9 | 2,839.64 | 9 | 2,472.92 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,608.57 | 1/4 | 4,282.51 | 1/4 | 3,931.49 | 1/4 | 3,565.43 | 1/4 | 3,198.71 | 1/4 | 2,832.00 | 1/4 | 2,465.28 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,601.99 | 1/2 | 4,275.40 | 1/2 | 3,923.94 | 1/2 | 3,557.79 | 1/2 | 3,191.07 | 1/2 | 2,824.36 | 1/2 | 2,457.64 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,595.40 | 3/4 | 4,268.29 | 3/4 | 3,916.39 | 3/4 | 3,550.15 | 3/4 | 3,183.43 | 3/4 | 2,816.72 | 3/4 | 2,450.00 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 4,588.82 | 10 | 4,261.18 | 10 | 3,908.83 | 10 | 3,542.51 | 10 | 3,175.79 | 10 | 2,809.08 | 10 | 2,442.36 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,582.23 | 1/4 | 4,254.07 | 1/4 | 3,901.28 | 1/4 | 3,534.87 | 1/4 | 3,168.15 | 1/4 | 2,801.44 | 1/4 | 2,434.72 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,575.61 | 1/2 | 4,246.92 | 1/2 | 3,893.70 | 1/2 | 3,527.23 | 1/2 | 3,160.51 | 1/2 | 2,793.80 | 1/2 | 2,427.08 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,568.98 | 3/4 | 4,239.77 | 3/4 | 3,886.11 | 3/4 | 3,519.59 | 3/4 | 3,152.87 | 3/4 | 2,786.16 | 3/4 | 2,419.44 |
| 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 4,562.36 | 11 | 4,232.62 | 11 | 3,878.52 | 11 | 3,511.95 | 11 | 3,145.23 | 11 | 2,778.52 | 11 | 2,411.80 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,555.74 | 1/4 | 4,225.47 | 1/4 | 3,870.93 | 1/4 | 3,504.31 | 1/4 | 3,137.59 | 1/4 | 2,770.88 | 1/4 | 2,404.16 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,549.07 | 1/2 | 4,218.29 | 1/2 | 3,863.31 | 1/2 | 3,496.67 | 1/2 | 3,129.95 | 1/2 | 2,763.24 | 1/2 | 2,396.52 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,542.41 | 3/4 | 4,211.10 | 3/4 | 3,855.69 | 3/4 | 3,489.03 | 3/4 | 3,122.31 | 3/4 | 2,755.60 | 3/4 | 2,388.88 |

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "KIRBY 28172"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/4"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|--------|-----|--------|----|--------|----|--------|
| 0 | 2,381.24 | 0 | 2,014.53 | 0 | 1,647.81 | 0 | 1,281.72 | 0 | 917.00 | 0 | 550.76 | 0 | 201.92 | 0 | | 0 | | 0 | |
| 1/4 | 2,373.60 | 1/4 | 2,006.89 | 1/4 | 1,640.16 | 1/4 | 1,274.09 | 1/4 | 909.42 | 1/4 | 543.12 | 1/4 | 195.13 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,365.96 | 1/2 | 1,999.25 | 1/2 | 1,632.52 | 1/2 | 1,266.45 | 1/2 | 901.84 | 1/2 | 535.48 | 1/2 | 188.43 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,358.32 | 3/4 | 1,991.61 | 3/4 | 1,624.88 | 3/4 | 1,258.81 | 3/4 | 894.25 | 3/4 | 527.84 | 3/4 | 181.72 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 1 | 2,350.68 | 1 | 1,983.97 | 1 | 1,617.24 | 1 | 1,251.17 | 1 | 886.67 | 1 | 520.20 | 1 | 175.01 | 1 | 1 | | 1 | | 1 |
| 1/4 | 2,343.04 | 1/4 | 1,976.33 | 1/4 | 1,609.60 | 1/4 | 1,243.53 | 1/4 | 879.08 | 1/4 | 512.56 | 1/4 | 168.31 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,335.40 | 1/2 | 1,968.69 | 1/2 | 1,601.96 | 1/2 | 1,235.89 | 1/2 | 871.48 | 1/2 | 504.94 | 1/2 | 161.69 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,327.77 | 3/4 | 1,961.05 | 3/4 | 1,594.32 | 3/4 | 1,228.25 | 3/4 | 863.88 | 3/4 | 497.32 | 3/4 | 155.07 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 2 | 2,320.13 | 2 | 1,953.41 | 2 | 1,586.68 | 2 | 1,220.61 | 2 | 856.29 | 2 | 489.70 | 2 | 148.45 | 2 | 2 | | 2 | | 2 |
| 1/4 | 2,312.49 | 1/4 | 1,945.77 | 1/4 | 1,579.04 | 1/4 | 1,212.96 | 1/4 | 848.69 | 1/4 | 482.08 | 1/4 | 141.83 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,304.85 | 1/2 | 1,938.13 | 1/2 | 1,571.40 | 1/2 | 1,205.34 | 1/2 | 841.06 | 1/2 | 474.52 | 1/2 | 135.31 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,297.21 | 3/4 | 1,930.49 | 3/4 | 1,563.76 | 3/4 | 1,197.71 | 3/4 | 833.44 | 3/4 | 466.97 | 3/4 | 128.78 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 3 | 2,289.57 | 3 | 1,922.85 | 3 | 1,556.12 | 3 | 1,190.09 | 3 | 825.81 | 3 | 459.41 | 3 | 122.25 | 3 | 3 | | 3 | | 3 |
| 1/4 | 2,281.93 | 1/4 | 1,915.21 | 1/4 | 1,548.48 | 1/4 | 1,182.46 | 1/4 | 818.18 | 1/4 | 451.86 | 1/4 | 115.72 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,274.29 | 1/2 | 1,907.57 | 1/2 | 1,540.84 | 1/2 | 1,174.86 | 1/2 | 810.54 | 1/2 | 444.39 | 1/2 | 109.29 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,266.65 | 3/4 | 1,899.93 | 3/4 | 1,533.20 | 3/4 | 1,167.26 | 3/4 | 802.90 | 3/4 | 436.91 | 3/4 | 102.86 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 4 | 2,259.01 | 4 | 1,892.29 | 4 | 1,525.56 | 4 | 1,159.66 | 4 | 795.26 | 4 | 429.44 | 4 | 96.43 | 4 | 4 | | 4 | | 4 |
| 1/4 | 2,251.37 | 1/4 | 1,884.65 | 1/4 | 1,517.92 | 1/4 | 1,152.06 | 1/4 | 787.62 | 1/4 | 421.97 | 1/4 | 90.01 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,243.73 | 1/2 | 1,877.01 | 1/2 | 1,510.28 | 1/2 | 1,144.48 | 1/2 | 779.98 | 1/2 | 414.59 | 1/2 | 83.68 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,236.09 | 3/4 | 1,869.37 | 3/4 | 1,502.64 | 3/4 | 1,136.90 | 3/4 | 772.34 | 3/4 | 407.20 | 3/4 | 77.36 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 5 | 2,228.45 | 5 | 1,861.73 | 5 | 1,495.00 | 5 | 1,129.31 | 5 | 764.70 | 5 | 399.81 | 5 | 71.03 | 5 | 5 | | 5 | | 5 |
| 1/4 | 2,220.81 | 1/4 | 1,854.09 | 1/4 | 1,487.36 | 1/4 | 1,121.73 | 1/4 | 757.06 | 1/4 | 392.43 | 1/4 | 64.71 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,213.17 | 1/2 | 1,846.45 | 1/2 | 1,479.73 | 1/2 | 1,114.14 | 1/2 | 749.42 | 1/2 | 385.13 | 1/2 | 58.50 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,205.53 | 3/4 | 1,838.81 | 3/4 | 1,472.11 | 3/4 | 1,106.56 | 3/4 | 741.78 | 3/4 | 377.83 | 3/4 | 52.29 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 6 | 2,197.89 | 6 | 1,831.17 | 6 | 1,464.48 | 6 | 1,098.98 | 6 | 734.14 | 6 | 370.52 | 6 | 46.09 | 6 | 6 | | 6 | | 6 |
| 1/4 | 2,190.25 | 1/4 | 1,823.53 | 1/4 | 1,456.86 | 1/4 | 1,091.40 | 1/4 | 726.50 | 1/4 | 363.22 | 1/4 | 39.88 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,182.61 | 1/2 | 1,815.89 | 1/2 | 1,449.24 | 1/2 | 1,083.81 | 1/2 | 718.86 | 1/2 | 356.01 | 1/2 | 34.37 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,174.97 | 3/4 | 1,808.25 | 3/4 | 1,441.63 | 3/4 | 1,076.23 | 3/4 | 711.22 | 3/4 | 348.79 | 3/4 | 28.86 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 7 | 2,167.33 | 7 | 1,800.61 | 7 | 1,434.02 | 7 | 1,068.65 | 7 | 703.58 | 7 | 341.58 | 7 | 23.35 | 7 | 7 | | 7 | | 7 |
| 1/4 | 2,159.69 | 1/4 | 1,792.97 | 1/4 | 1,426.41 | 1/4 | 1,061.07 | 1/4 | 695.94 | 1/4 | 334.36 | 1/4 | 17.84 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,152.05 | 1/2 | 1,785.33 | 1/2 | 1,418.79 | 1/2 | 1,053.49 | 1/2 | 688.30 | 1/2 | 327.23 | 1/2 | 14.28 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,144.41 | 3/4 | 1,777.69 | 3/4 | 1,411.18 | 3/4 | 1,045.90 | 3/4 | 680.66 | 3/4 | 320.10 | 3/4 | 10.72 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 8 | 2,136.77 | 8 | 1,770.05 | 8 | 1,403.57 | 8 | 1,038.32 | 8 | 673.02 | 8 | 312.97 | 8 | 7.15 | 8 | 8 | | 8 | | 8 |
| 1/4 | 2,129.13 | 1/4 | 1,762.41 | 1/4 | 1,395.96 | 1/4 | 1,030.74 | 1/4 | 665.37 | 1/4 | 305.83 | 1/4 | 3.59 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,121.49 | 1/2 | 1,754.77 | 1/2 | 1,388.34 | 1/2 | 1,023.16 | 1/2 | 657.73 | 1/2 | 298.79 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,113.85 | 3/4 | 1,747.13 | 3/4 | 1,380.73 | 3/4 | 1,015.57 | 3/4 | 650.09 | 3/4 | 291.74 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 9 | 2,106.21 | 9 | 1,739.49 | 9 | 1,373.12 | 9 | 1,007.99 | 9 | 642.45 | 9 | 284.70 | 9 | | 9 | 9 | | 9 | | 9 |
| 1/4 | 2,098.57 | 1/4 | 1,731.85 | 1/4 | 1,365.50 | 1/4 | 1,000.41 | 1/4 | 634.81 | 1/4 | 277.65 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,090.93 | 1/2 | 1,724.21 | 1/2 | 1,357.89 | 1/2 | 992.83 | 1/2 | 627.17 | 1/2 | 270.69 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,083.29 | 3/4 | 1,716.57 | 3/4 | 1,350.28 | 3/4 | 985.24 | 3/4 | 619.53 | 3/4 | 263.73 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 10 | 2,075.65 | 10 | 1,708.93 | 10 | 1,342.66 | 10 | 977.66 | 10 | 611.89 | 10 | 256.76 | 10 | | 10 | 10 | | 10 | | 10 |
| 1/4 | 2,068.01 | 1/4 | 1,701.29 | 1/4 | 1,335.05 | 1/4 | 970.08 | 1/4 | 604.25 | 1/4 | 249.80 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,060.37 | 1/2 | 1,693.65 | 1/2 | 1,327.44 | 1/2 | 962.50 | 1/2 | 596.61 | 1/2 | 242.93 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,052.73 | 3/4 | 1,686.01 | 3/4 | 1,319.83 | 3/4 | 954.91 | 3/4 | 588.97 | 3/4 | 236.05 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 11 | 2,045.09 | 11 | 1,678.37 | 11 | 1,312.21 | 11 | 947.33 | 11 | 581.33 | 11 | 229.17 | 11 | | 11 | 11 | | 11 | | 11 |
| 1/4 | 2,037.45 | 1/4 | 1,670.73 | 1/4 | 1,304.60 | 1/4 | 939.75 | 1/4 | 573.69 | 1/4 | 222.30 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,029.81 | 1/2 | 1,663.09 | 1/2 | 1,296.97 | 1/2 | 932.17 | 1/2 | 566.05 | 1/2 | 215.51 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,022.17 | 3/4 | 1,655.45 | 3/4 | 1,289.35 | 3/4 | 924.58 | 3/4 | 558.40 | 3/4 | 208.71 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/04/2011 CL - SW
CALCULATED: 05/04/2011 CL
PRINTED: 05/04/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2011

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28172"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------------|-----------|-----------------|-----------|-----------------|-----------|-----------------|-----------|-----------------|-----------|-----------------|-----------|-----------------|----|---|
| IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,830.43 | 1/4 | 4,502.63 | 1/4 | 4,168.24 | 1/4 | 3,810.40 | 1/4 | 3,443.77 | 1/4 | 3,077.14 | 1/4 | 2,710.51 | | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,823.59 | 1/2 | 4,495.90 | 1/2 | 4,160.98 | 1/2 | 3,802.76 | 1/2 | 3,436.13 | 1/2 | 3,069.50 | 1/2 | 2,702.87 | | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,816.76 | 3/4 | 4,489.17 | 3/4 | 4,153.72 | 3/4 | 3,795.12 | 3/4 | 3,428.49 | 3/4 | 3,061.86 | 3/4 | 2,695.23 | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4,809.92 | 1 | 4,482.45 | 1 | 4,146.46 | 1 | 3,787.48 | 1 | 3,420.85 | 1 | 3,054.22 | 1 | 2,687.60 | | |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,803.08 | 1/4 | 4,475.72 | 1/4 | 4,139.21 | 1/4 | 3,779.84 | 1/4 | 3,413.21 | 1/4 | 3,046.59 | 1/4 | 2,679.96 | | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,795.61 | 1/2 | 4,468.96 | 1/2 | 4,131.91 | 1/2 | 3,772.21 | 1/2 | 3,405.58 | 1/2 | 3,038.95 | 1/2 | 2,672.32 | | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,788.14 | 3/4 | 4,462.19 | 3/4 | 4,124.61 | 3/4 | 3,764.57 | 3/4 | 3,397.94 | 3/4 | 3,031.31 | 3/4 | 2,664.68 | | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4,780.66 | 2 | 4,455.43 | 2 | 4,117.32 | 2 | 3,756.93 | 2 | 3,390.30 | 2 | 3,023.67 | 2 | 2,657.04 | | |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,773.19 | 1/4 | 4,448.67 | 1/4 | 4,110.02 | 1/4 | 3,749.29 | 1/4 | 3,382.66 | 1/4 | 3,016.03 | 1/4 | 2,649.40 | | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,765.64 | 1/2 | 4,441.87 | 1/2 | 4,102.69 | 1/2 | 3,741.65 | 1/2 | 3,375.02 | 1/2 | 3,008.40 | 1/2 | 2,641.77 | | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,758.08 | 3/4 | 4,435.07 | 3/4 | 4,095.36 | 3/4 | 3,734.01 | 3/4 | 3,367.39 | 3/4 | 3,000.76 | 3/4 | 2,634.13 | | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4,750.53 | 3 | 4,428.27 | 3 | 4,088.03 | 3 | 3,726.38 | 3 | 3,359.75 | 3 | 3,023.12 | 3 | 2,626.49 | | |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,742.98 | 1/4 | 4,421.47 | 1/4 | 4,080.70 | 1/4 | 3,718.74 | 1/4 | 3,352.11 | 1/4 | 2,985.48 | 1/4 | 2,618.85 | | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,735.70 | 1/2 | 4,414.63 | 1/2 | 4,073.33 | 1/2 | 3,711.10 | 1/2 | 3,344.47 | 1/2 | 2,977.84 | 1/2 | 2,611.21 | | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,728.43 | 3/4 | 4,407.79 | 3/4 | 4,065.97 | 3/4 | 3,703.46 | 3/4 | 3,336.83 | 3/4 | 2,970.20 | 3/4 | 2,603.58 | | |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4,721.16 | 4 | 4,400.96 | 4 | 4,058.60 | 4 | 3,695.82 | 4 | 3,329.20 | 4 | 2,962.57 | 4 | 2,595.94 | | |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,713.88 | 1/4 | 4,394.12 | 1/4 | 4,051.24 | 1/4 | 3,688.19 | 1/4 | 3,321.56 | 1/4 | 2,954.93 | 1/4 | 2,588.30 | | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,707.16 | 1/2 | 4,387.25 | 1/2 | 4,043.84 | 1/2 | 3,680.55 | 1/2 | 3,313.92 | 1/2 | 2,947.29 | 1/2 | 2,580.66 | | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,700.43 | 3/4 | 4,380.37 | 3/4 | 4,036.44 | 3/4 | 3,672.91 | 3/4 | 3,306.28 | 3/4 | 2,939.65 | 3/4 | 2,573.02 | | |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4,693.71 | 5 | 4,373.50 | 5 | 4,029.04 | 5 | 3,665.27 | 5 | 3,298.64 | 5 | 2,932.01 | 5 | 2,565.39 | | |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,686.99 | 1/4 | 4,366.62 | 1/4 | 4,021.64 | 1/4 | 3,657.63 | 1/4 | 3,291.01 | 1/4 | 2,924.38 | 1/4 | 2,557.75 | | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,680.51 | 1/2 | 4,359.71 | 1/2 | 4,014.20 | 1/2 | 3,650.00 | 1/2 | 3,283.37 | 1/2 | 2,916.74 | 1/2 | 2,550.11 | | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,674.04 | 3/4 | 4,352.80 | 3/4 | 4,006.77 | 3/4 | 3,642.36 | 3/4 | 3,275.73 | 3/4 | 2,909.10 | 3/4 | 2,542.47 | | |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 4,667.57 | 6 | 4,345.88 | 6 | 3,999.33 | 6 | 3,634.72 | 6 | 3,268.09 | 6 | 2,901.46 | 6 | 2,534.83 | | |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,661.10 | 1/4 | 4,338.97 | 1/4 | 3,991.89 | 1/4 | 3,627.08 | 1/4 | 3,260.45 | 1/4 | 2,893.82 | 1/4 | 2,527.20 | | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,654.59 | 1/2 | 4,332.00 | 1/2 | 3,984.42 | 1/2 | 3,619.44 | 1/2 | 3,252.81 | 1/2 | 2,886.19 | 1/2 | 2,519.56 | | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,648.08 | 3/4 | 4,325.03 | 3/4 | 3,976.94 | 3/4 | 3,611.81 | 3/4 | 3,245.18 | 3/4 | 2,878.55 | 3/4 | 2,511.92 | | |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4,641.57 | 7 | 4,318.06 | 7 | 3,969.47 | 7 | 3,604.17 | 7 | 3,237.54 | 7 | 2,870.91 | 7 | 2,504.28 | | |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,635.06 | 1/4 | 4,311.09 | 1/4 | 3,962.00 | 1/4 | 3,596.53 | 1/4 | 3,229.90 | 1/4 | 2,863.27 | 1/4 | 2,496.64 | | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,628.51 | 1/2 | 4,304.04 | 1/2 | 3,954.48 | 1/2 | 3,588.89 | 1/2 | 3,222.26 | 1/2 | 2,855.63 | 1/2 | 2,489.00 | | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,621.96 | 3/4 | 4,296.99 | 3/4 | 3,946.97 | 3/4 | 3,581.25 | 3/4 | 3,214.62 | 3/4 | 2,848.00 | 3/4 | 2,481.37 | | |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 4,615.42 | 8 | 4,289.94 | 8 | 3,939.46 | 8 | 3,573.61 | 8 | 3,206.99 | 8 | 2,840.36 | 8 | 2,473.73 | | |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,608.87 | 1/4 | 4,282.89 | 1/4 | 3,931.95 | 1/4 | 3,565.98 | 1/4 | 3,199.35 | 1/4 | 2,832.72 | 1/4 | 2,466.09 | | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,602.29 | 1/2 | 4,275.78 | 1/2 | 3,924.40 | 1/2 | 3,558.34 | 1/2 | 3,191.71 | 1/2 | 2,825.08 | 1/2 | 2,458.45 | | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,595.70 | 3/4 | 4,268.67 | 3/4 | 3,916.85 | 3/4 | 3,550.70 | 3/4 | 3,184.07 | 3/4 | 2,817.44 | 3/4 | 2,450.81 | | |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 4,589.12 | 9 | 4,261.56 | 9 | 3,909.30 | 9 | 3,543.06 | 9 | 3,176.43 | 9 | 2,809.80 | 9 | 2,443.18 | | |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,582.53 | 1/4 | 4,254.45 | 1/4 | 3,901.75 | 1/4 | 3,535.42 | 1/4 | 3,168.80 | 1/4 | 2,802.17 | 1/4 | 2,435.54 | | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,575.91 | 1/2 | 4,247.30 | 1/2 | 3,894.17 | 1/2 | 3,527.79 | 1/2 | 3,161.16 | 1/2 | 2,794.53 | 1/2 | 2,427.90 | | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,569.29 | 3/4 | 4,240.16 | 3/4 | 3,886.58 | 3/4 | 3,520.15 | 3/4 | 3,153.52 | 3/4 | 2,786.89 | 3/4 | 2,420.26 | | |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 4,562.67 | 10 | 4,233.01 | 10 | 3,878.99 | 10 | 3,512.51 | 10 | 3,145.88 | 10 | 2,779.25 | 10 | 2,412.62 | | |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,556.04 | 1/4 | 4,225.86 | 1/4 | 3,871.41 | 1/4 | 3,504.87 | 1/4 | 3,138.24 | 1/4 | 2,771.61 | 1/4 | 2,404.99 | | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,549.38 | 1/2 | 4,218.68 | 1/2 | 3,863.79 | 1/2 | 3,497.23 | 1/2 | 3,130.60 | 1/2 | 2,763.98 | 1/2 | 2,397.35 | | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,542.73 | 3/4 | 4,211.50 | 3/4 | 3,856.17 | 3/4 | 3,489.60 | 3/4 | 3,122.97 | 3/4 | 2,756.34 | 3/4 | 2,389.71 | | |
| 11 | 11 | 11 | 11 | 11 | 11 | 11 | 4,536.07 | 11 | 4,204.31 | 11 | 3,848.55 | 11 | 3,481.96 | 11 | 3,115.33 | 11 | 2,748.70 | 11 | 2,382.07 | | |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,529.41 | 1/4 | 4,197.13 | 1/4 | 3,840.93 | 1/4 | 3,474.32 | 1/4 | 3,107.69 | 1/4 | 2,741.06 | 1/4 | 2,374.43 | | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,522.71 | 1/2 | 4,189.91 | 1/2 | 3,833.30 | 1/2 | 3,466.68 | 1/2 | 3,100.05 | 1/2 | 2,733.42 | 1/2 | 2,366.79 | | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,516.02 | 3/4 | 4,182.68 | 3/4 | 3,825.66 | 3/4 | 3,459.04 | 3/4 | 3,092.41 | 3/4 | 2,725.79 | 3/4 | 2,359.16 | | |

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28172"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

| 10 FT. | | 11 FT. | | 12 FT. | | 13 FT. | | 14 FT. | | 15 FT. | | 16 FT. | | 17 FT. | | 18 FT. | | 19 FT. | | | |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|--------|--------|--------|--------|--------|--------|-----|--------|-----|--------|-----|-----|---|
| IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 |
| 1/4 | 2,343.88 | 1/4 | 1,977.26 | 1/4 | 1,610.61 | 1/4 | 1,244.62 | 1/4 | 879.04 | 1/4 | 512.43 | 1/4 | 168.26 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | |
| 1/2 | 2,336.24 | 1/2 | 1,969.62 | 1/2 | 1,602.97 | 1/2 | 1,236.98 | 1/2 | 871.42 | 1/2 | 504.81 | 1/2 | 161.64 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | |
| 3/4 | 2,328.60 | 3/4 | 1,961.98 | 3/4 | 1,595.34 | 3/4 | 1,229.35 | 3/4 | 863.79 | 3/4 | 497.19 | 3/4 | 155.03 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | |
| 1 | 2,320.97 | 1 | 1,954.34 | 1 | 1,587.70 | 1 | 1,221.71 | 1 | 856.16 | 1 | 489.58 | 1 | 148.41 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 1/4 | 2,313.33 | 1/4 | 1,946.70 | 1/4 | 1,580.06 | 1/4 | 1,214.07 | 1/4 | 848.54 | 1/4 | 481.96 | 1/4 | 141.79 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | |
| 1/2 | 2,305.69 | 1/2 | 1,939.06 | 1/2 | 1,572.42 | 1/2 | 1,206.43 | 1/2 | 840.90 | 1/2 | 474.40 | 1/2 | 135.27 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | |
| 3/4 | 2,298.05 | 3/4 | 1,931.43 | 3/4 | 1,564.78 | 3/4 | 1,198.79 | 3/4 | 833.26 | 3/4 | 466.85 | 3/4 | 128.74 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | |
| 2 | 2,290.41 | 2 | 1,923.79 | 2 | 1,557.14 | 2 | 1,191.15 | 2 | 825.62 | 2 | 459.30 | 2 | 122.22 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 1/4 | 2,282.78 | 1/4 | 1,916.15 | 1/4 | 1,549.51 | 1/4 | 1,183.51 | 1/4 | 817.98 | 1/4 | 451.74 | 1/4 | 115.69 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | |
| 1/2 | 2,275.14 | 1/2 | 1,908.51 | 1/2 | 1,541.87 | 1/2 | 1,175.89 | 1/2 | 810.35 | 1/2 | 444.27 | 1/2 | 109.26 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | |
| 3/4 | 2,267.50 | 3/4 | 1,900.87 | 3/4 | 1,534.23 | 3/4 | 1,168.26 | 3/4 | 802.71 | 3/4 | 436.80 | 3/4 | 102.84 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | |
| 3 | 2,259.86 | 3 | 1,893.23 | 3 | 1,526.59 | 3 | 1,160.63 | 3 | 795.07 | 3 | 429.33 | 3 | 96.41 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| 1/4 | 2,252.22 | 1/4 | 1,885.60 | 1/4 | 1,518.95 | 1/4 | 1,153.01 | 1/4 | 787.43 | 1/4 | 421.87 | 1/4 | 89.98 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | |
| 1/2 | 2,244.59 | 1/2 | 1,877.96 | 1/2 | 1,511.31 | 1/2 | 1,145.40 | 1/2 | 779.79 | 1/2 | 414.48 | 1/2 | 83.66 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | |
| 3/4 | 2,236.95 | 3/4 | 1,870.32 | 3/4 | 1,503.68 | 3/4 | 1,137.78 | 3/4 | 772.15 | 3/4 | 407.10 | 3/4 | 77.33 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | |
| 4 | 2,229.31 | 4 | 1,862.68 | 4 | 1,496.04 | 4 | 1,130.17 | 4 | 764.51 | 4 | 399.71 | 4 | 71.01 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| 1/4 | 2,221.67 | 1/4 | 1,855.04 | 1/4 | 1,488.40 | 1/4 | 1,122.56 | 1/4 | 756.87 | 1/4 | 392.33 | 1/4 | 64.69 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | |
| 1/2 | 2,214.03 | 1/2 | 1,847.40 | 1/2 | 1,480.77 | 1/2 | 1,114.95 | 1/2 | 749.24 | 1/2 | 385.03 | 1/2 | 58.48 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | |
| 3/4 | 2,206.39 | 3/4 | 1,839.77 | 3/4 | 1,473.15 | 3/4 | 1,107.34 | 3/4 | 741.60 | 3/4 | 377.73 | 3/4 | 52.28 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | |
| 5 | 2,198.76 | 5 | 1,832.13 | 5 | 1,465.53 | 5 | 1,099.73 | 5 | 733.96 | 5 | 370.43 | 5 | 46.07 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | |
| 1/4 | 2,191.12 | 1/4 | 1,824.49 | 1/4 | 1,457.90 | 1/4 | 1,092.12 | 1/4 | 726.32 | 1/4 | 363.13 | 1/4 | 39.87 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | |
| 1/2 | 2,183.48 | 1/2 | 1,816.85 | 1/2 | 1,450.29 | 1/2 | 1,084.51 | 1/2 | 718.68 | 1/2 | 355.92 | 1/2 | 34.36 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | |
| 3/4 | 2,175.84 | 3/4 | 1,809.21 | 3/4 | 1,442.68 | 3/4 | 1,076.90 | 3/4 | 711.04 | 3/4 | 348.70 | 3/4 | 28.85 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | |
| 6 | 2,168.20 | 6 | 1,801.57 | 6 | 1,435.07 | 6 | 1,069.29 | 6 | 703.40 | 6 | 341.49 | 6 | 23.34 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| 1/4 | 2,160.57 | 1/4 | 1,793.93 | 1/4 | 1,427.46 | 1/4 | 1,061.68 | 1/4 | 695.76 | 1/4 | 334.27 | 1/4 | 17.84 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | |
| 1/2 | 2,152.93 | 1/2 | 1,786.30 | 1/2 | 1,419.85 | 1/2 | 1,054.07 | 1/2 | 688.13 | 1/2 | 327.14 | 1/2 | 14.27 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | |
| 3/4 | 2,145.29 | 3/4 | 1,778.66 | 3/4 | 1,412.24 | 3/4 | 1,046.46 | 3/4 | 680.49 | 3/4 | 320.01 | 3/4 | 10.71 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | |
| 7 | 2,137.65 | 7 | 1,771.02 | 7 | 1,404.63 | 7 | 1,038.85 | 7 | 672.85 | 7 | 312.88 | 7 | 7.15 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| 1/4 | 2,130.01 | 1/4 | 1,763.38 | 1/4 | 1,397.02 | 1/4 | 1,031.24 | 1/4 | 665.21 | 1/4 | 305.75 | 1/4 | 3.59 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | |
| 1/2 | 2,122.38 | 1/2 | 1,755.74 | 1/2 | 1,389.40 | 1/2 | 1,023.63 | 1/2 | 657.57 | 1/2 | 298.71 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | |
| 3/4 | 2,114.74 | 3/4 | 1,748.10 | 3/4 | 1,381.79 | 3/4 | 1,016.02 | 3/4 | 649.93 | 3/4 | 291.67 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | |
| 8 | 2,107.10 | 8 | 1,740.47 | 8 | 1,374.18 | 8 | 1,008.41 | 8 | 642.29 | 8 | 284.62 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| 1/4 | 2,099.46 | 1/4 | 1,732.83 | 1/4 | 1,366.57 | 1/4 | 1,000.81 | 1/4 | 634.66 | 1/4 | 277.58 | 1/4 | 8 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | |
| 1/2 | 2,091.82 | 1/2 | 1,725.19 | 1/2 | 1,358.96 | 1/2 | 993.20 | 1/2 | 627.02 | 1/2 | 270.62 | 1/2 | 8 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | |
| 3/4 | 2,084.19 | 3/4 | 1,717.55 | 3/4 | 1,351.35 | 3/4 | 985.59 | 3/4 | 619.38 | 3/4 | 263.66 | 3/4 | 8 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | |
| 9 | 2,076.55 | 9 | 1,709.91 | 9 | 1,343.74 | 9 | 977.98 | 9 | 611.74 | 9 | 256.70 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| 1/4 | 2,068.91 | 1/4 | 1,702.27 | 1/4 | 1,336.13 | 1/4 | 970.37 | 1/4 | 604.10 | 1/4 | 249.74 | 1/4 | 9 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | |
| 1/2 | 2,061.27 | 1/2 | 1,694.64 | 1/2 | 1,328.51 | 1/2 | 962.76 | 1/2 | 596.46 | 1/2 | 242.86 | 1/2 | 9 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | |
| 3/4 | 2,053.63 | 3/4 | 1,687.00 | 3/4 | 1,320.90 | 3/4 | 955.15 | 3/4 | 588.82 | 3/4 | 235.99 | 3/4 | 9 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | |
| 10 | 2,045.99 | 10 | 1,679.36 | 10 | 1,313.29 | 10 | 947.54 | 10 | 581.18 | 10 | 229.11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | |
| 1/4 | 2,038.36 | 1/4 | 1,671.72 | 1/4 | 1,305.68 | 1/4 | 939.93 | 1/4 | 573.54 | 1/4 | 222.24 | 1/4 | 10 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | |
| 1/2 | 2,030.72 | 1/2 | 1,664.08 | 1/2 | 1,298.05 | 1/2 | 932.32 | 1/2 | 565.90 | 1/2 | 215.45 | 1/2 | 10 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | |
| 3/4 | 2,023.08 | 3/4 | 1,656.44 | 3/4 | 1,290.43 | 3/4 | 924.71 | 3/4 | 558.26 | 3/4 | 208.66 | 3/4 | 10 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | |
| 11 | 2,015.44 | 11 | 1,648.81 | 11 | 1,282.80 | 11 | 917.10 | 11 | 550.63 | 11 | 201.87 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | |
| 1/4 | 2,007.80 | 1/4 | 1,641.17 | 1/4 | 1,275.18 | 1/4 | 909.49 | 1/4 | 542.99 | 1/4 | 195.08 | 1/4 | 11 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | |
| 1/2 | 2,000.17 | 1/2 | 1,633.53 | 1/2 | 1,267.54 | 1/2 | 901.88 | 1/2 | 535.35 | 1/2 | 188.38 | 1/2 | 11 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | |
| 3/4 | 1,992.53 | 3/4 | 1,625.89 | 3/4 | 1,259.90 | 3/4 | 894.27 | 3/4 | 527.71 | 3/4 | 181.67 | 3/4 | 11 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/04/2011 CL - SW
CALCULATED: 05/04/2011 CL
PRINTED: 05/04/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2011

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28172"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | | |
| | | | | | | | | | 4,536.36 | | 4,206.12 | | 3,852.26 | | 3,488.46 | | 3,124.66 | | 2,760.86 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,529.72 | 1/4 | 4,198.96 | 1/4 | 3,844.68 | 1/4 | 3,480.89 | 1/4 | 3,117.08 | 1/4 | 2,753.28 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,847.30 | 1/2 | 4,523.08 | 1/2 | 4,191.79 | 1/2 | 3,837.11 | 1/2 | 3,473.31 | 1/2 | 3,109.50 | 1/2 | 2,745.70 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,841.70 | 3/4 | 4,516.43 | 3/4 | 4,184.63 | 3/4 | 3,829.53 | 3/4 | 3,465.73 | 3/4 | 3,101.93 | 3/4 | 2,738.12 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4,509.92 | 1 | 4,177.42 | 1 | 3,821.95 | 1 | 3,458.15 | 1 | 3,094.35 | 1 | 2,730.54 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,828.14 | 1/4 | 4,503.08 | 1/4 | 4,170.22 | 1/4 | 3,814.37 | 1/4 | 3,450.57 | 1/4 | 3,086.77 | 1/4 | 2,722.97 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,821.35 | 1/2 | 4,496.41 | 1/2 | 4,163.02 | 1/2 | 3,806.79 | 1/2 | 3,442.99 | 1/2 | 3,079.19 | 1/2 | 2,715.39 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,814.57 | 3/4 | 4,489.73 | 3/4 | 4,155.81 | 3/4 | 3,799.21 | 3/4 | 3,435.41 | 3/4 | 3,071.61 | 3/4 | 2,707.81 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4,807.15 | 2 | 4,483.02 | 2 | 4,148.57 | 2 | 3,791.63 | 2 | 3,427.83 | 2 | 3,064.03 | 2 | 2,700.23 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,799.74 | 1/4 | 4,476.31 | 1/4 | 4,141.33 | 1/4 | 3,784.05 | 1/4 | 3,420.25 | 1/4 | 3,056.45 | 1/4 | 2,692.65 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,792.32 | 1/2 | 4,469.60 | 1/2 | 4,134.09 | 1/2 | 3,776.47 | 1/2 | 3,412.67 | 1/2 | 3,048.87 | 1/2 | 2,685.07 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,784.90 | 3/4 | 4,462.89 | 3/4 | 4,126.85 | 3/4 | 3,768.90 | 3/4 | 3,405.09 | 3/4 | 3,041.29 | 3/4 | 2,677.49 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4,777.41 | 3 | 4,456.15 | 3 | 4,119.58 | 3 | 3,761.32 | 3 | 3,397.51 | 3 | 3,033.71 | 3 | 2,669.91 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,769.92 | 1/4 | 4,449.40 | 1/4 | 4,112.30 | 1/4 | 3,753.74 | 1/4 | 3,389.94 | 1/4 | 3,026.13 | 1/4 | 2,662.33 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,762.42 | 1/2 | 4,442.65 | 1/2 | 4,105.03 | 1/2 | 3,746.16 | 1/2 | 3,382.36 | 1/2 | 3,018.55 | 1/2 | 2,654.75 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,754.93 | 3/4 | 4,435.90 | 3/4 | 4,097.75 | 3/4 | 3,738.58 | 3/4 | 3,374.78 | 3/4 | 3,010.98 | 3/4 | 2,647.17 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4,747.71 | 4 | 4,429.12 | 4 | 4,090.45 | 4 | 3,731.00 | 4 | 3,367.20 | 4 | 3,003.40 | 4 | 2,639.59 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,740.49 | 1/4 | 4,422.33 | 1/4 | 4,083.14 | 1/4 | 3,723.42 | 1/4 | 3,359.62 | 1/4 | 2,995.82 | 1/4 | 2,632.02 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,733.27 | 1/2 | 4,415.55 | 1/2 | 4,075.83 | 1/2 | 3,715.84 | 1/2 | 3,352.04 | 1/2 | 2,988.24 | 1/2 | 2,624.44 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,726.06 | 3/4 | 4,408.77 | 3/4 | 4,068.52 | 3/4 | 3,708.26 | 3/4 | 3,344.46 | 3/4 | 2,980.66 | 3/4 | 2,616.86 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4,719.38 | 5 | 4,401.94 | 5 | 4,061.18 | 5 | 3,700.68 | 5 | 3,336.88 | 5 | 2,973.08 | 5 | 2,609.28 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,712.71 | 1/4 | 4,395.12 | 1/4 | 4,053.84 | 1/4 | 3,693.10 | 1/4 | 3,329.30 | 1/4 | 2,965.50 | 1/4 | 2,601.70 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,706.04 | 1/2 | 4,388.30 | 1/2 | 4,046.49 | 1/2 | 3,685.52 | 1/2 | 3,321.72 | 1/2 | 2,957.92 | 1/2 | 2,594.12 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,699.37 | 3/4 | 4,381.48 | 3/4 | 4,039.15 | 3/4 | 3,677.94 | 3/4 | 3,314.14 | 3/4 | 2,950.34 | 3/4 | 2,586.54 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 4,692.95 | 6 | 4,374.62 | 6 | 4,031.77 | 6 | 3,670.37 | 6 | 3,306.56 | 6 | 2,942.76 | 6 | 2,578.96 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,686.52 | 1/4 | 4,367.76 | 1/4 | 4,024.39 | 1/4 | 3,662.79 | 1/4 | 3,298.98 | 1/4 | 2,935.18 | 1/4 | 2,571.38 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,680.10 | 1/2 | 4,360.90 | 1/2 | 4,017.01 | 1/2 | 3,655.21 | 1/2 | 3,291.41 | 1/2 | 2,927.60 | 1/2 | 2,563.80 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,673.68 | 3/4 | 4,354.04 | 3/4 | 4,009.63 | 3/4 | 3,647.63 | 3/4 | 3,283.83 | 3/4 | 2,920.02 | 3/4 | 2,556.22 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4,667.22 | 7 | 4,347.13 | 7 | 4,002.22 | 7 | 3,640.05 | 7 | 3,276.25 | 7 | 2,912.45 | 7 | 2,548.64 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,660.76 | 1/4 | 4,340.21 | 1/4 | 3,994.80 | 1/4 | 3,632.47 | 1/4 | 3,268.67 | 1/4 | 2,904.87 | 1/4 | 2,541.06 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,654.30 | 1/2 | 4,333.29 | 1/2 | 3,987.38 | 1/2 | 3,624.89 | 1/2 | 3,261.09 | 1/2 | 2,897.29 | 1/2 | 2,533.49 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,647.84 | 3/4 | 4,326.38 | 3/4 | 3,979.97 | 3/4 | 3,617.31 | 3/4 | 3,253.51 | 3/4 | 2,889.71 | 3/4 | 2,525.91 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 4,641.35 | 8 | 4,319.38 | 8 | 3,972.51 | 8 | 3,609.73 | 8 | 3,245.93 | 8 | 2,882.13 | 8 | 2,518.33 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,634.85 | 1/4 | 4,312.38 | 1/4 | 3,965.06 | 1/4 | 3,602.15 | 1/4 | 3,238.35 | 1/4 | 2,874.55 | 1/4 | 2,510.75 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,628.35 | 1/2 | 4,305.39 | 1/2 | 3,957.61 | 1/2 | 3,594.57 | 1/2 | 3,230.77 | 1/2 | 2,866.97 | 1/2 | 2,503.17 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,621.86 | 3/4 | 4,298.39 | 3/4 | 3,950.15 | 3/4 | 3,586.99 | 3/4 | 3,223.19 | 3/4 | 2,859.39 | 3/4 | 2,495.59 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 4,615.32 | 9 | 4,291.34 | 9 | 3,942.66 | 9 | 3,579.42 | 9 | 3,215.61 | 9 | 2,851.81 | 9 | 2,488.01 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,608.79 | 1/4 | 4,284.28 | 1/4 | 3,935.17 | 1/4 | 3,571.84 | 1/4 | 3,208.03 | 1/4 | 2,844.23 | 1/4 | 2,480.43 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,602.26 | 1/2 | 4,277.23 | 1/2 | 3,927.68 | 1/2 | 3,564.26 | 1/2 | 3,200.46 | 1/2 | 2,836.65 | 1/2 | 2,472.85 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,595.72 | 3/4 | 4,270.17 | 3/4 | 3,920.19 | 3/4 | 3,556.68 | 3/4 | 3,192.88 | 3/4 | 2,829.07 | 3/4 | 2,465.27 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 4,589.15 | 10 | 4,263.08 | 10 | 3,912.66 | 10 | 3,549.10 | 10 | 3,185.30 | 10 | 2,821.50 | 10 | 2,457.69 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,582.58 | 1/4 | 4,255.99 | 1/4 | 3,905.13 | 1/4 | 3,541.52 | 1/4 | 3,177.72 | 1/4 | 2,813.92 | 1/4 | 2,450.11 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,576.01 | 1/2 | 4,248.90 | 1/2 | 3,897.60 | 1/2 | 3,533.94 | 1/2 | 3,170.14 | 1/2 | 2,806.34 | 1/2 | 2,442.54 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,569.44 | 3/4 | 4,241.81 | 3/4 | 3,890.07 | 3/4 | 3,526.36 | 3/4 | 3,162.56 | 3/4 | 2,798.76 | 3/4 | 2,434.96 |
| 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 4,562.83 | 11 | 4,234.68 | 11 | 3,882.52 | 11 | 3,518.78 | 11 | 3,154.98 | 11 | 2,791.18 | 11 | 2,427.38 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,556.22 | 1/4 | 4,227.55 | 1/4 | 3,874.96 | 1/4 | 3,511.20 | 1/4 | 3,147.40 | 1/4 | 2,783.60 | 1/4 | 2,419.80 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,549.61 | 1/2 | 4,220.42 | 1/2 | 3,867.40 | 1/2 | 3,503.62 | 1/2 | 3,139.82 | 1/2 | 2,776.02 | 1/2 | 2,412.22 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,543.01 | 3/4 | 4,213.29 | 3/4 | 3,859.84 | 3/4 | 3,496.04 | 3/4 | 3,132.24 | 3/4 | 2,768.44 | 3/4 | 2,404.64 |

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28172"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 2,397.06 | 0 | 2,033.26 | 0 | 1,669.44 | 0 | 1,309.51 | 0 | 958.43 | 0 | 598.65 | 0 | 234.80 | 0 | | 0 | | 0 | |
| 1/4 | 2,389.48 | 1/4 | 2,025.68 | 1/4 | 1,661.86 | 1/4 | 1,301.93 | 1/4 | 951.18 | 1/4 | 591.07 | 1/4 | 227.22 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,381.90 | 1/2 | 2,018.10 | 1/2 | 1,654.29 | 1/2 | 1,294.35 | 1/2 | 943.93 | 1/2 | 583.49 | 1/2 | 219.64 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,374.32 | 3/4 | 2,010.52 | 3/4 | 1,646.71 | 3/4 | 1,286.77 | 3/4 | 936.68 | 3/4 | 575.91 | 3/4 | 212.06 | 3/4 | | 3/4 | | 3/4 | |
| 1 | 2,366.74 | 1 | 2,002.94 | 1 | 1,639.13 | 1 | 1,279.19 | 1 | 929.41 | 1 | 568.33 | 1 | 204.48 | 1 | | 1 | | 1 | |
| 1/4 | 2,359.16 | 1/4 | 1,995.36 | 1/4 | 1,631.55 | 1/4 | 1,271.61 | 1/4 | 922.15 | 1/4 | 560.75 | 1/4 | 196.90 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,351.58 | 1/2 | 1,987.78 | 1/2 | 1,623.97 | 1/2 | 1,264.03 | 1/2 | 914.88 | 1/2 | 553.17 | 1/2 | 189.33 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,344.01 | 3/4 | 1,980.20 | 3/4 | 1,616.39 | 3/4 | 1,256.45 | 3/4 | 907.62 | 3/4 | 545.59 | 3/4 | 181.75 | 3/4 | | 3/4 | | 3/4 | |
| 2 | 2,336.43 | 2 | 1,972.62 | 2 | 1,608.81 | 2 | 1,249.02 | 2 | 900.34 | 2 | 538.01 | 2 | 174.18 | 2 | | 2 | | 2 | |
| 1/4 | 2,328.85 | 1/4 | 1,965.04 | 1/4 | 1,601.23 | 1/4 | 1,241.59 | 1/4 | 893.06 | 1/4 | 530.43 | 1/4 | 166.61 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,321.27 | 1/2 | 1,957.46 | 1/2 | 1,593.65 | 1/2 | 1,234.17 | 1/2 | 885.78 | 1/2 | 522.85 | 1/2 | 159.04 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,313.69 | 3/4 | 1,949.88 | 3/4 | 1,586.07 | 3/4 | 1,226.74 | 3/4 | 878.50 | 3/4 | 515.27 | 3/4 | 151.47 | 3/4 | | 3/4 | | 3/4 | |
| 3 | 2,306.11 | 3 | 1,942.30 | 3 | 1,578.49 | 3 | 1,219.47 | 3 | 871.07 | 3 | 507.69 | 3 | 143.91 | 3 | | 3 | | 3 | |
| 1/4 | 2,298.53 | 1/4 | 1,934.72 | 1/4 | 1,570.91 | 1/4 | 1,212.20 | 1/4 | 863.64 | 1/4 | 500.11 | 1/4 | 136.35 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,290.95 | 1/2 | 1,927.14 | 1/2 | 1,563.33 | 1/2 | 1,204.94 | 1/2 | 856.22 | 1/2 | 492.53 | 1/2 | 128.79 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,283.37 | 3/4 | 1,919.56 | 3/4 | 1,555.75 | 3/4 | 1,197.67 | 3/4 | 848.79 | 3/4 | 484.94 | 3/4 | 121.23 | 3/4 | | 3/4 | | 3/4 | |
| 4 | 2,275.79 | 4 | 1,911.99 | 4 | 1,548.25 | 4 | 1,190.42 | 4 | 841.21 | 4 | 477.36 | 4 | 113.69 | 4 | | 4 | | 4 | |
| 1/4 | 2,268.21 | 1/4 | 1,904.41 | 1/4 | 1,540.76 | 1/4 | 1,183.17 | 1/4 | 833.63 | 1/4 | 469.78 | 1/4 | 106.15 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,260.63 | 1/2 | 1,896.83 | 1/2 | 1,533.26 | 1/2 | 1,175.92 | 1/2 | 826.05 | 1/2 | 462.20 | 1/2 | 98.62 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,253.06 | 3/4 | 1,889.25 | 3/4 | 1,525.76 | 3/4 | 1,168.66 | 3/4 | 818.47 | 3/4 | 454.62 | 3/4 | 91.08 | 3/4 | | 3/4 | | 3/4 | |
| 5 | 2,245.48 | 5 | 1,881.67 | 5 | 1,518.34 | 5 | 1,161.42 | 5 | 810.89 | 5 | 447.04 | 5 | 83.57 | 5 | | 5 | | 5 | |
| 1/4 | 2,237.90 | 1/4 | 1,874.09 | 1/4 | 1,510.92 | 1/4 | 1,154.17 | 1/4 | 803.31 | 1/4 | 439.46 | 1/4 | 76.07 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,230.32 | 1/2 | 1,866.51 | 1/2 | 1,503.51 | 1/2 | 1,146.92 | 1/2 | 795.73 | 1/2 | 431.88 | 1/2 | 68.56 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,222.74 | 3/4 | 1,858.93 | 3/4 | 1,496.09 | 3/4 | 1,139.67 | 3/4 | 788.15 | 3/4 | 424.30 | 3/4 | 61.06 | 3/4 | | 3/4 | | 3/4 | |
| 6 | 2,215.16 | 6 | 1,851.35 | 6 | 1,488.67 | 6 | 1,132.42 | 6 | 780.57 | 6 | 416.72 | 6 | 54.16 | 6 | | 6 | | 6 | |
| 1/4 | 2,207.58 | 1/4 | 1,843.77 | 1/4 | 1,481.26 | 1/4 | 1,125.17 | 1/4 | 772.99 | 1/4 | 409.14 | 1/4 | 47.26 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,200.00 | 1/2 | 1,836.19 | 1/2 | 1,473.84 | 1/2 | 1,117.92 | 1/2 | 765.41 | 1/2 | 401.56 | 1/2 | 40.36 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,192.42 | 3/4 | 1,828.61 | 3/4 | 1,466.42 | 3/4 | 1,110.67 | 3/4 | 757.83 | 3/4 | 393.98 | 3/4 | 33.46 | 3/4 | | 3/4 | | 3/4 | |
| 7 | 2,184.84 | 7 | 1,821.03 | 7 | 1,459.00 | 7 | 1,103.42 | 7 | 750.25 | 7 | 386.40 | 7 | 28.41 | 7 | | 7 | | 7 | |
| 1/4 | 2,177.26 | 1/4 | 1,813.45 | 1/4 | 1,451.59 | 1/4 | 1,096.17 | 1/4 | 742.67 | 1/4 | 378.82 | 1/4 | 23.36 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,169.68 | 1/2 | 1,805.87 | 1/2 | 1,444.17 | 1/2 | 1,088.92 | 1/2 | 735.09 | 1/2 | 371.24 | 1/2 | 18.31 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,162.10 | 3/4 | 1,798.29 | 3/4 | 1,436.75 | 3/4 | 1,081.67 | 3/4 | 727.51 | 3/4 | 363.66 | 3/4 | 13.26 | 3/4 | | 3/4 | | 3/4 | |
| 8 | 2,154.53 | 8 | 1,790.71 | 8 | 1,429.33 | 8 | 1,074.42 | 8 | 719.93 | 8 | 356.08 | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 2,146.95 | 1/4 | 1,783.14 | 1/4 | 1,421.92 | 1/4 | 1,067.17 | 1/4 | 712.35 | 1/4 | 348.50 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,139.37 | 1/2 | 1,775.56 | 1/2 | 1,414.50 | 1/2 | 1,059.93 | 1/2 | 704.77 | 1/2 | 340.92 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,131.79 | 3/4 | 1,767.98 | 3/4 | 1,407.08 | 3/4 | 1,052.68 | 3/4 | 697.19 | 3/4 | 333.34 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 2,124.21 | 9 | 1,760.40 | 9 | 1,399.66 | 9 | 1,045.43 | 9 | 689.61 | 9 | 325.76 | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 2,116.63 | 1/4 | 1,752.82 | 1/4 | 1,392.25 | 1/4 | 1,038.18 | 1/4 | 682.03 | 1/4 | 318.18 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,109.05 | 1/2 | 1,745.24 | 1/2 | 1,384.83 | 1/2 | 1,030.93 | 1/2 | 674.45 | 1/2 | 310.60 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,101.47 | 3/4 | 1,737.66 | 3/4 | 1,377.41 | 3/4 | 1,023.68 | 3/4 | 666.87 | 3/4 | 303.02 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 2,093.89 | 10 | 1,730.08 | 10 | 1,369.91 | 10 | 1,016.43 | 10 | 659.29 | 10 | 295.44 | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 2,086.31 | 1/4 | 1,722.50 | 1/4 | 1,362.41 | 1/4 | 1,009.18 | 1/4 | 651.71 | 1/4 | 287.86 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,078.73 | 1/2 | 1,714.92 | 1/2 | 1,354.91 | 1/2 | 1,001.93 | 1/2 | 644.13 | 1/2 | 280.28 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,071.15 | 3/4 | 1,707.34 | 3/4 | 1,347.41 | 3/4 | 994.68 | 3/4 | 636.55 | 3/4 | 272.70 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 2,063.58 | 11 | 1,699.76 | 11 | 1,339.83 | 11 | 987.43 | 11 | 628.97 | 11 | 265.12 | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 2,056.00 | 1/4 | 1,692.18 | 1/4 | 1,332.25 | 1/4 | 980.18 | 1/4 | 621.39 | 1/4 | 257.54 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,048.42 | 1/2 | 1,684.60 | 1/2 | 1,324.67 | 1/2 | 972.93 | 1/2 | 613.81 | 1/2 | 249.96 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,040.84 | 3/4 | 1,677.02 | 3/4 | 1,317.09 | 3/4 | 965.68 | 3/4 | 606.23 | 3/4 | 242.38 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/04/2011 CL - SW
CALCULATED: 05/04/2011 CL
PRINTED: 05/04/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2011

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28172"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | |
|-------|-----|-------|-----|-------|-----|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT |
| 0 | | 0 | | 0 | | 0 | | 0 | 4,558.69 | 0 | 4,228.97 | 0 | 3,875.52 | 0 | 3,511.72 | 0 | 3,147.92 | 0 | 2,784.12 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,552.05 | 1/4 | 4,221.80 | 1/4 | 3,867.94 | 1/4 | 3,504.14 | 1/4 | 3,140.34 | 1/4 | 2,776.54 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,545.40 | 1/2 | 4,214.64 | 1/2 | 3,860.36 | 1/2 | 3,496.56 | 1/2 | 3,132.76 | 1/2 | 2,768.96 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,538.76 | 3/4 | 4,207.47 | 3/4 | 3,852.78 | 3/4 | 3,488.98 | 3/4 | 3,125.18 | 3/4 | 2,761.38 |
| 1 | | 1 | | 1 | | 1 | 4,857.40 | 1 | 4,532.12 | 1 | 4,200.31 | 1 | 3,845.21 | 1 | 3,481.41 | 1 | 3,117.60 | 1 | 2,753.80 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,850.61 | 1/4 | 4,525.44 | 1/4 | 4,193.10 | 1/4 | 3,837.63 | 1/4 | 3,473.83 | 1/4 | 3,110.02 | 1/4 | 2,746.22 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,843.83 | 1/2 | 4,518.77 | 1/2 | 4,185.90 | 1/2 | 3,830.05 | 1/2 | 3,466.25 | 1/2 | 3,102.45 | 1/2 | 2,738.64 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,837.04 | 3/4 | 4,512.09 | 3/4 | 4,178.70 | 3/4 | 3,822.47 | 3/4 | 3,458.67 | 3/4 | 3,094.87 | 3/4 | 2,731.06 |
| 2 | | 2 | | 2 | | 2 | 4,830.26 | 2 | 4,505.42 | 2 | 4,171.49 | 2 | 3,814.89 | 2 | 3,451.09 | 2 | 3,087.29 | 2 | 2,723.49 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,822.84 | 1/4 | 4,498.71 | 1/4 | 4,164.25 | 1/4 | 3,807.31 | 1/4 | 3,443.51 | 1/4 | 3,079.71 | 1/4 | 2,715.91 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,815.42 | 1/2 | 4,492.00 | 1/2 | 4,157.01 | 1/2 | 3,799.73 | 1/2 | 3,435.93 | 1/2 | 3,072.13 | 1/2 | 2,708.33 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,808.01 | 3/4 | 4,485.29 | 3/4 | 4,149.77 | 3/4 | 3,792.15 | 3/4 | 3,428.35 | 3/4 | 3,064.55 | 3/4 | 2,700.75 |
| 3 | | 3 | | 3 | | 3 | 4,800.59 | 3 | 4,478.57 | 3 | 4,142.53 | 3 | 3,784.57 | 3 | 3,420.77 | 3 | 3,056.97 | 3 | 2,693.17 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,793.10 | 1/4 | 4,471.83 | 1/4 | 4,135.26 | 1/4 | 3,776.99 | 1/4 | 3,413.19 | 1/4 | 3,049.39 | 1/4 | 2,685.59 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,785.60 | 1/2 | 4,465.08 | 1/2 | 4,127.98 | 1/2 | 3,769.42 | 1/2 | 3,405.61 | 1/2 | 3,041.81 | 1/2 | 2,678.01 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,778.11 | 3/4 | 4,458.33 | 3/4 | 4,120.71 | 3/4 | 3,761.84 | 3/4 | 3,398.03 | 3/4 | 3,034.23 | 3/4 | 2,670.43 |
| 4 | | 4 | | 4 | | 4 | 4,770.61 | 4 | 4,451.58 | 4 | 4,113.43 | 4 | 3,754.26 | 4 | 3,390.46 | 4 | 3,026.65 | 4 | 2,662.85 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,763.40 | 1/4 | 4,444.80 | 1/4 | 4,106.12 | 1/4 | 3,746.68 | 1/4 | 3,382.88 | 1/4 | 3,019.07 | 1/4 | 2,655.27 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,756.18 | 1/2 | 4,438.02 | 1/2 | 4,098.82 | 1/2 | 3,739.10 | 1/2 | 3,375.30 | 1/2 | 3,011.50 | 1/2 | 2,647.69 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,748.96 | 3/4 | 4,431.23 | 3/4 | 4,091.51 | 3/4 | 3,731.52 | 3/4 | 3,367.72 | 3/4 | 3,003.92 | 3/4 | 2,640.11 |
| 5 | | 5 | | 5 | | 5 | 4,741.74 | 5 | 4,424.45 | 5 | 4,084.20 | 5 | 3,723.94 | 5 | 3,360.14 | 5 | 2,996.34 | 5 | 2,632.54 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,735.07 | 1/4 | 4,417.63 | 1/4 | 4,076.86 | 1/4 | 3,716.36 | 1/4 | 3,352.56 | 1/4 | 2,988.76 | 1/4 | 2,624.96 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,728.40 | 1/2 | 4,410.80 | 1/2 | 4,069.52 | 1/2 | 3,708.78 | 1/2 | 3,344.98 | 1/2 | 2,981.18 | 1/2 | 2,617.38 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,721.73 | 3/4 | 4,403.98 | 3/4 | 4,062.17 | 3/4 | 3,701.20 | 3/4 | 3,337.40 | 3/4 | 2,973.60 | 3/4 | 2,609.80 |
| 6 | | 6 | | 6 | | 6 | 4,715.06 | 6 | 4,397.16 | 6 | 4,054.83 | 6 | 3,693.62 | 6 | 3,329.82 | 6 | 2,966.02 | 6 | 2,602.22 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,708.63 | 1/4 | 4,390.30 | 1/4 | 4,047.45 | 1/4 | 3,686.04 | 1/4 | 3,322.24 | 1/4 | 2,958.44 | 1/4 | 2,594.64 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,702.21 | 1/2 | 4,383.44 | 1/2 | 4,040.07 | 1/2 | 3,678.46 | 1/2 | 3,314.66 | 1/2 | 2,950.86 | 1/2 | 2,587.06 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,695.79 | 3/4 | 4,376.58 | 3/4 | 4,032.69 | 3/4 | 3,670.89 | 3/4 | 3,307.08 | 3/4 | 2,943.28 | 3/4 | 2,579.48 |
| 7 | | 7 | | 7 | | 7 | 4,689.37 | 7 | 4,369.73 | 7 | 4,025.31 | 7 | 3,663.31 | 7 | 3,299.50 | 7 | 2,935.70 | 7 | 2,571.90 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,682.91 | 1/4 | 4,362.81 | 1/4 | 4,017.90 | 1/4 | 3,655.73 | 1/4 | 3,291.93 | 1/4 | 2,928.12 | 1/4 | 2,564.32 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,676.45 | 1/2 | 4,355.89 | 1/2 | 4,010.48 | 1/2 | 3,648.15 | 1/2 | 3,284.35 | 1/2 | 2,920.54 | 1/2 | 2,556.74 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,669.99 | 3/4 | 4,348.97 | 3/4 | 4,003.06 | 3/4 | 3,640.57 | 3/4 | 3,276.77 | 3/4 | 2,912.97 | 3/4 | 2,549.16 |
| 8 | | 8 | | 8 | | 8 | 4,663.53 | 8 | 4,342.06 | 8 | 3,995.65 | 8 | 3,632.99 | 8 | 3,269.19 | 8 | 2,905.39 | 8 | 2,541.58 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,657.03 | 1/4 | 4,335.06 | 1/4 | 3,988.19 | 1/4 | 3,625.41 | 1/4 | 3,261.61 | 1/4 | 2,897.81 | 1/4 | 2,534.01 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,650.53 | 1/2 | 4,328.06 | 1/2 | 3,980.74 | 1/2 | 3,617.83 | 1/2 | 3,254.03 | 1/2 | 2,890.23 | 1/2 | 2,526.43 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,644.04 | 3/4 | 4,321.07 | 3/4 | 3,973.28 | 3/4 | 3,610.25 | 3/4 | 3,246.45 | 3/4 | 2,882.65 | 3/4 | 2,518.85 |
| 9 | | 9 | | 9 | | 9 | 4,637.54 | 9 | 4,314.07 | 9 | 3,965.83 | 9 | 3,602.67 | 9 | 3,238.87 | 9 | 2,875.07 | 9 | 2,511.27 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,631.01 | 1/4 | 4,307.02 | 1/4 | 3,958.34 | 1/4 | 3,595.09 | 1/4 | 3,231.29 | 1/4 | 2,867.49 | 1/4 | 2,503.69 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,624.47 | 1/2 | 4,299.96 | 1/2 | 3,950.85 | 1/2 | 3,587.51 | 1/2 | 3,223.71 | 1/2 | 2,859.91 | 1/2 | 2,496.11 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,617.94 | 3/4 | 4,292.91 | 3/4 | 3,943.36 | 3/4 | 3,579.94 | 3/4 | 3,216.13 | 3/4 | 2,852.33 | 3/4 | 2,488.53 |
| 10 | | 10 | | 10 | | 10 | 4,611.41 | 10 | 4,285.85 | 10 | 3,935.87 | 10 | 3,572.36 | 10 | 3,208.55 | 10 | 2,844.75 | 10 | 2,480.95 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,604.84 | 1/4 | 4,278.76 | 1/4 | 3,928.34 | 1/4 | 3,564.78 | 1/4 | 3,200.98 | 1/4 | 2,837.17 | 1/4 | 2,473.37 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,598.26 | 1/2 | 4,271.67 | 1/2 | 3,920.81 | 1/2 | 3,557.20 | 1/2 | 3,193.40 | 1/2 | 2,829.59 | 1/2 | 2,465.79 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,591.69 | 3/4 | 4,264.58 | 3/4 | 3,913.28 | 3/4 | 3,549.62 | 3/4 | 3,185.82 | 3/4 | 2,822.02 | 3/4 | 2,458.21 |
| 11 | | 11 | | 11 | | 11 | 4,585.12 | 11 | 4,257.49 | 11 | 3,905.75 | 11 | 3,542.04 | 11 | 3,178.24 | 11 | 2,814.44 | 11 | 2,450.63 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,578.51 | 1/4 | 4,250.36 | 1/4 | 3,898.19 | 1/4 | 3,534.46 | 1/4 | 3,170.66 | 1/4 | 2,806.86 | 1/4 | 2,443.06 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,571.91 | 1/2 | 4,243.23 | 1/2 | 3,890.63 | 1/2 | 3,526.88 | 1/2 | 3,163.08 | 1/2 | 2,799.28 | 1/2 | 2,435.48 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,565.30 | 3/4 | 4,236.10 | 3/4 | 3,883.08 | 3/4 | 3,519.30 | 3/4 | 3,155.50 | 3/4 | 2,791.70 | 3/4 | 2,427.90 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28172"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 2,420.32 | 0 | 2,056.52 | 0 | 1,692.70 | 0 | 1,332.77 | 0 | 969.91 | 0 | 606.23 | 0 | 242.38 | 0 | | 0 | | 0 | |
| 1/4 | 2,412.74 | 1/4 | 2,048.94 | 1/4 | 1,685.12 | 1/4 | 1,325.19 | 1/4 | 962.35 | 1/4 | 598.65 | 1/4 | 234.80 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 2,405.16 | 1/2 | 2,041.36 | 1/2 | 1,677.54 | 1/2 | 1,317.61 | 1/2 | 954.80 | 1/2 | 591.07 | 1/2 | 227.22 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 2,397.58 | 3/4 | 2,033.78 | 3/4 | 1,669.96 | 3/4 | 1,310.03 | 3/4 | 947.25 | 3/4 | 583.49 | 3/4 | 219.64 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 1 | 2,390.00 | 1 | 2,026.20 | 1 | 1,662.38 | 1 | 1,302.45 | 1 | 939.69 | 1 | 575.91 | 1 | 212.06 | 1 | 1 | 1 | | 1 | 1 |
| 1/4 | 2,382.42 | 1/4 | 2,018.62 | 1/4 | 1,654.81 | 1/4 | 1,294.87 | 1/4 | 932.13 | 1/4 | 568.33 | 1/4 | 204.48 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 2,374.84 | 1/2 | 2,011.04 | 1/2 | 1,647.23 | 1/2 | 1,287.29 | 1/2 | 924.56 | 1/2 | 560.75 | 1/2 | 196.90 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 2,367.26 | 3/4 | 2,003.46 | 3/4 | 1,639.65 | 3/4 | 1,279.71 | 3/4 | 916.99 | 3/4 | 553.17 | 3/4 | 189.33 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 2 | 2,359.68 | 2 | 1,995.88 | 2 | 1,632.07 | 2 | 1,272.13 | 2 | 909.42 | 2 | 545.59 | 2 | 181.75 | 2 | 2 | 2 | | 2 | 2 |
| 1/4 | 2,352.10 | 1/4 | 1,988.30 | 1/4 | 1,624.49 | 1/4 | 1,264.55 | 1/4 | 901.84 | 1/4 | 538.01 | 1/4 | 174.18 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 2,344.53 | 1/2 | 1,980.72 | 1/2 | 1,616.91 | 1/2 | 1,256.97 | 1/2 | 894.26 | 1/2 | 530.43 | 1/2 | 166.61 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 2,336.95 | 3/4 | 1,973.14 | 3/4 | 1,609.33 | 3/4 | 1,249.39 | 3/4 | 886.68 | 3/4 | 522.85 | 3/4 | 159.04 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 3 | 2,329.37 | 3 | 1,965.56 | 3 | 1,601.75 | 3 | 1,241.81 | 3 | 879.10 | 3 | 515.27 | 3 | 151.47 | 3 | 3 | 3 | | 3 | 3 |
| 1/4 | 2,321.79 | 1/4 | 1,957.98 | 1/4 | 1,594.17 | 1/4 | 1,234.24 | 1/4 | 871.52 | 1/4 | 507.69 | 1/4 | 143.91 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 2,314.21 | 1/2 | 1,950.40 | 1/2 | 1,586.59 | 1/2 | 1,226.68 | 1/2 | 863.94 | 1/2 | 500.11 | 1/2 | 136.35 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 2,306.63 | 3/4 | 1,942.82 | 3/4 | 1,579.01 | 3/4 | 1,219.11 | 3/4 | 856.36 | 3/4 | 492.53 | 3/4 | 128.79 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 4 | 2,299.05 | 4 | 1,935.24 | 4 | 1,571.43 | 4 | 1,211.54 | 4 | 848.78 | 4 | 484.94 | 4 | 121.23 | 4 | 4 | 4 | | 4 | 4 |
| 1/4 | 2,291.47 | 1/4 | 1,927.66 | 1/4 | 1,563.93 | 1/4 | 1,203.99 | 1/4 | 841.21 | 1/4 | 477.36 | 1/4 | 113.69 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 2,283.89 | 1/2 | 1,920.08 | 1/2 | 1,556.44 | 1/2 | 1,196.44 | 1/2 | 833.63 | 1/2 | 469.78 | 1/2 | 106.15 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 2,276.31 | 3/4 | 1,912.51 | 3/4 | 1,548.94 | 3/4 | 1,188.88 | 3/4 | 826.05 | 3/4 | 462.20 | 3/4 | 98.62 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 5 | 2,268.73 | 5 | 1,904.93 | 5 | 1,541.44 | 5 | 1,181.33 | 5 | 818.47 | 5 | 454.62 | 5 | 91.08 | 5 | 5 | 5 | | 5 | 5 |
| 1/4 | 2,261.15 | 1/4 | 1,897.35 | 1/4 | 1,534.02 | 1/4 | 1,173.78 | 1/4 | 810.89 | 1/4 | 447.04 | 1/4 | 83.57 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 2,253.58 | 1/2 | 1,889.77 | 1/2 | 1,526.60 | 1/2 | 1,166.23 | 1/2 | 803.31 | 1/2 | 439.46 | 1/2 | 76.07 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 2,246.00 | 3/4 | 1,882.19 | 3/4 | 1,519.19 | 3/4 | 1,158.68 | 3/4 | 795.73 | 3/4 | 431.88 | 3/4 | 68.56 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 6 | 2,238.42 | 6 | 1,874.61 | 6 | 1,511.77 | 6 | 1,151.13 | 6 | 788.15 | 6 | 424.30 | 6 | 61.06 | 6 | 6 | 6 | | 6 | 6 |
| 1/4 | 2,230.84 | 1/4 | 1,867.03 | 1/4 | 1,504.35 | 1/4 | 1,143.58 | 1/4 | 780.57 | 1/4 | 416.72 | 1/4 | 54.16 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 2,223.26 | 1/2 | 1,859.45 | 1/2 | 1,496.93 | 1/2 | 1,136.03 | 1/2 | 772.99 | 1/2 | 409.14 | 1/2 | 47.26 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 2,215.68 | 3/4 | 1,851.87 | 3/4 | 1,489.52 | 3/4 | 1,128.47 | 3/4 | 765.41 | 3/4 | 401.56 | 3/4 | 40.36 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 7 | 2,208.10 | 7 | 1,844.29 | 7 | 1,482.10 | 7 | 1,120.92 | 7 | 757.83 | 7 | 393.98 | 7 | 33.46 | 7 | 7 | 7 | | 7 | 7 |
| 1/4 | 2,200.52 | 1/4 | 1,836.71 | 1/4 | 1,474.68 | 1/4 | 1,113.37 | 1/4 | 750.25 | 1/4 | 386.40 | 1/4 | 28.41 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 2,192.94 | 1/2 | 1,829.13 | 1/2 | 1,467.27 | 1/2 | 1,105.82 | 1/2 | 742.67 | 1/2 | 378.82 | 1/2 | 23.36 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 2,185.36 | 3/4 | 1,821.55 | 3/4 | 1,459.85 | 3/4 | 1,098.27 | 3/4 | 735.09 | 3/4 | 371.24 | 3/4 | 18.31 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 8 | 2,177.78 | 8 | 1,813.97 | 8 | 1,452.43 | 8 | 1,090.72 | 8 | 727.51 | 8 | 363.66 | 8 | 13.26 | 8 | 8 | 8 | | 8 | 8 |
| 1/4 | 2,170.20 | 1/4 | 1,806.39 | 1/4 | 1,445.01 | 1/4 | 1,083.17 | 1/4 | 719.93 | 1/4 | 356.08 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 2,162.62 | 1/2 | 1,798.81 | 1/2 | 1,437.60 | 1/2 | 1,075.62 | 1/2 | 712.35 | 1/2 | 348.50 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 2,155.05 | 3/4 | 1,791.23 | 3/4 | 1,430.18 | 3/4 | 1,068.07 | 3/4 | 704.77 | 3/4 | 340.92 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 9 | 2,147.47 | 9 | 1,783.66 | 9 | 1,422.76 | 9 | 1,060.52 | 9 | 697.19 | 9 | 333.34 | 9 | | 9 | 9 | 9 | | 9 | 9 |
| 1/4 | 2,139.89 | 1/4 | 1,776.08 | 1/4 | 1,415.34 | 1/4 | 1,052.97 | 1/4 | 689.61 | 1/4 | 325.76 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 2,132.31 | 1/2 | 1,768.50 | 1/2 | 1,407.92 | 1/2 | 1,045.41 | 1/2 | 682.03 | 1/2 | 318.18 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 2,124.73 | 3/4 | 1,760.92 | 3/4 | 1,400.51 | 3/4 | 1,037.86 | 3/4 | 674.45 | 3/4 | 310.60 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 10 | 2,117.15 | 10 | 1,753.34 | 10 | 1,393.09 | 10 | 1,030.31 | 10 | 666.87 | 10 | 303.02 | 10 | | 10 | 10 | 10 | | 10 | 10 |
| 1/4 | 2,109.57 | 1/4 | 1,745.76 | 1/4 | 1,385.59 | 1/4 | 1,022.76 | 1/4 | 659.29 | 1/4 | 295.44 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 2,101.99 | 1/2 | 1,738.18 | 1/2 | 1,378.09 | 1/2 | 1,015.21 | 1/2 | 651.71 | 1/2 | 287.86 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 2,094.41 | 3/4 | 1,730.60 | 3/4 | 1,370.59 | 3/4 | 1,007.66 | 3/4 | 644.13 | 3/4 | 280.28 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |
| 11 | 2,086.83 | 11 | 1,723.02 | 11 | 1,363.09 | 11 | 1,000.11 | 11 | 636.55 | 11 | 272.70 | 11 | | 11 | 11 | 11 | | 11 | 11 |
| 1/4 | 2,079.25 | 1/4 | 1,715.44 | 1/4 | 1,355.51 | 1/4 | 992.56 | 1/4 | 628.97 | 1/4 | 265.12 | 1/4 | | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 |
| 1/2 | 2,071.67 | 1/2 | 1,707.86 | 1/2 | 1,347.93 | 1/2 | 985.01 | 1/2 | 621.39 | 1/2 | 257.54 | 1/2 | | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 |
| 3/4 | 2,064.10 | 3/4 | 1,700.28 | 3/4 | 1,340.35 | 3/4 | 977.46 | 3/4 | 613.81 | 3/4 | 249.96 | 3/4 | | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/04/2011 CL - SW
CALCULATED: 05/04/2011 CL
PRINTED: 05/04/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2011

PRECISION MEASUREMENT
& ANALYSIS, INC.
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BARGE "KIRBY 28172"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|
| IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | | |
| | | | | | | | | | 4,216.93 | | 3,956.41 | | 3,681.90 | | 3,401.83 | | 3,041.21 | | 2,677.59 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,211.63 | 1/4 | 3,950.80 | 1/4 | 3,676.07 | 1/4 | 3,395.12 | 1/4 | 3,033.63 | 1/4 | 2,670.01 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,461.25 | 1/2 | 4,206.34 | 1/2 | 3,945.19 | 1/2 | 3,670.23 | 1/2 | 3,388.40 | 1/2 | 3,026.06 | 1/2 | 2,662.43 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,456.52 | 3/4 | 4,201.05 | 3/4 | 3,939.58 | 3/4 | 3,664.40 | 3/4 | 3,381.69 | 3/4 | 3,018.48 | 3/4 | 2,654.86 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4,451.79 | 1 | 4,195.76 | 1 | 3,933.96 | 1 | 3,658.57 | 1 | 3,374.97 | 1 | 3,010.91 | 1 | 2,647.28 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,446.75 | 1/4 | 4,190.45 | 1/4 | 3,928.33 | 1/4 | 3,652.73 | 1/4 | 3,367.38 | 1/4 | 3,003.33 | 1/4 | 2,639.71 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,441.71 | 1/2 | 4,185.14 | 1/2 | 3,922.70 | 1/2 | 3,646.90 | 1/2 | 3,359.78 | 1/2 | 2,995.76 | 1/2 | 2,632.13 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,436.67 | 3/4 | 4,179.83 | 3/4 | 3,917.06 | 3/4 | 3,641.06 | 3/4 | 3,352.19 | 3/4 | 2,988.18 | 3/4 | 2,624.56 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4,431.64 | 2 | 4,174.52 | 2 | 3,911.43 | 2 | 3,635.23 | 2 | 3,344.59 | 2 | 2,980.61 | 2 | 2,616.98 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,425.96 | 1/4 | 4,169.19 | 1/4 | 3,905.78 | 1/4 | 3,629.39 | 1/4 | 3,336.99 | 1/4 | 2,973.03 | 1/4 | 2,609.41 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,420.29 | 1/2 | 4,163.86 | 1/2 | 3,900.13 | 1/2 | 3,623.56 | 1/2 | 3,329.40 | 1/2 | 2,965.45 | 1/2 | 2,601.83 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,414.62 | 3/4 | 4,158.53 | 3/4 | 3,894.47 | 3/4 | 3,617.72 | 3/4 | 3,321.80 | 3/4 | 2,957.88 | 3/4 | 2,594.26 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4,408.95 | 3 | 4,153.20 | 3 | 3,888.82 | 3 | 3,611.89 | 3 | 3,314.21 | 3 | 2,950.30 | 3 | 2,586.68 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,403.20 | 1/4 | 4,147.85 | 1/4 | 3,883.15 | 1/4 | 3,606.06 | 1/4 | 3,306.61 | 1/4 | 2,942.73 | 1/4 | 2,579.10 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,397.45 | 1/2 | 4,142.50 | 1/2 | 3,877.48 | 1/2 | 3,600.22 | 1/2 | 3,299.02 | 1/2 | 2,935.15 | 1/2 | 2,571.53 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,391.70 | 3/4 | 4,137.15 | 3/4 | 3,871.81 | 3/4 | 3,594.39 | 3/4 | 3,291.42 | 3/4 | 2,927.58 | 3/4 | 2,563.95 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4,385.95 | 4 | 4,131.80 | 4 | 3,866.13 | 4 | 3,588.55 | 4 | 3,283.83 | 4 | 2,920.00 | 4 | 2,556.38 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,380.35 | 1/4 | 4,126.43 | 1/4 | 3,860.45 | 1/4 | 3,582.72 | 1/4 | 3,276.23 | 1/4 | 2,912.43 | 1/4 | 2,548.80 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,374.74 | 1/2 | 4,121.07 | 1/2 | 3,854.76 | 1/2 | 3,576.88 | 1/2 | 3,268.64 | 1/2 | 2,904.85 | 1/2 | 2,541.23 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,369.14 | 3/4 | 4,115.70 | 3/4 | 3,849.07 | 3/4 | 3,571.05 | 3/4 | 3,261.04 | 3/4 | 2,897.28 | 3/4 | 2,533.65 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4,363.54 | 5 | 4,110.33 | 5 | 3,843.38 | 5 | 3,565.21 | 5 | 3,253.44 | 5 | 2,889.70 | 5 | 2,526.08 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,358.23 | 1/4 | 4,104.94 | 1/4 | 3,837.67 | 1/4 | 3,559.38 | 1/4 | 3,245.85 | 1/4 | 2,882.12 | 1/4 | 2,518.50 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,352.92 | 1/2 | 4,099.55 | 1/2 | 3,831.96 | 1/2 | 3,553.54 | 1/2 | 3,238.25 | 1/2 | 2,874.55 | 1/2 | 2,510.92 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,347.62 | 3/4 | 4,094.16 | 3/4 | 3,826.26 | 3/4 | 3,547.71 | 3/4 | 3,230.66 | 3/4 | 2,866.97 | 3/4 | 2,503.35 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 4,342.31 | 6 | 4,088.77 | 6 | 3,820.55 | 6 | 3,541.87 | 6 | 3,223.06 | 6 | 2,859.40 | 6 | 2,495.77 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,337.13 | 1/4 | 4,083.36 | 1/4 | 3,814.82 | 1/4 | 3,536.04 | 1/4 | 3,215.48 | 1/4 | 2,851.82 | 1/4 | 2,488.20 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,331.96 | 1/2 | 4,077.96 | 1/2 | 3,809.09 | 1/2 | 3,530.20 | 1/2 | 3,207.89 | 1/2 | 2,844.25 | 1/2 | 2,480.62 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,326.78 | 3/4 | 4,072.55 | 3/4 | 3,803.36 | 3/4 | 3,524.37 | 3/4 | 3,200.31 | 3/4 | 2,836.67 | 3/4 | 2,473.05 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4,321.61 | 7 | 4,067.14 | 7 | 3,797.64 | 7 | 3,518.53 | 7 | 3,192.72 | 7 | 2,829.10 | 7 | 2,465.47 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,316.42 | 1/4 | 4,061.69 | 1/4 | 3,791.89 | 1/4 | 3,512.70 | 1/4 | 3,185.14 | 1/4 | 2,821.52 | 1/4 | 2,457.90 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,311.22 | 1/2 | 4,056.24 | 1/2 | 3,786.14 | 1/2 | 3,506.86 | 1/2 | 3,177.57 | 1/2 | 2,813.94 | 1/2 | 2,450.32 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,306.03 | 3/4 | 4,050.79 | 3/4 | 3,780.39 | 3/4 | 3,501.03 | 3/4 | 3,169.99 | 3/4 | 2,806.37 | 3/4 | 2,442.75 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 4,300.83 | 8 | 4,045.34 | 8 | 3,774.65 | 8 | 3,495.19 | 8 | 3,162.42 | 8 | 2,798.79 | 8 | 2,435.17 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,295.62 | 1/4 | 4,039.83 | 1/4 | 3,768.88 | 1/4 | 3,489.36 | 1/4 | 3,154.84 | 1/4 | 2,791.22 | 1/4 | 2,427.59 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,290.41 | 1/2 | 4,034.31 | 1/2 | 3,763.11 | 1/2 | 3,483.52 | 1/2 | 3,147.27 | 1/2 | 2,783.64 | 1/2 | 2,420.02 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,285.19 | 3/4 | 4,028.80 | 3/4 | 3,757.34 | 3/4 | 3,477.69 | 3/4 | 3,139.69 | 3/4 | 2,776.07 | 3/4 | 2,412.44 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 4,279.98 | 9 | 4,023.29 | 9 | 3,751.58 | 9 | 3,471.85 | 9 | 3,132.12 | 9 | 2,768.49 | 9 | 2,404.87 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,274.74 | 1/4 | 4,017.74 | 1/4 | 3,745.79 | 1/4 | 3,466.02 | 1/4 | 3,124.54 | 1/4 | 2,760.92 | 1/4 | 2,397.29 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,269.51 | 1/2 | 4,012.18 | 1/2 | 3,740.00 | 1/2 | 3,460.18 | 1/2 | 3,116.96 | 1/2 | 2,753.34 | 1/2 | 2,389.72 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,264.27 | 3/4 | 4,006.63 | 3/4 | 3,734.21 | 3/4 | 3,454.35 | 3/4 | 3,109.39 | 3/4 | 2,745.77 | 3/4 | 2,382.14 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 4,259.04 | 10 | 4,001.08 | 10 | 3,728.43 | 10 | 3,448.51 | 10 | 3,101.81 | 10 | 2,738.19 | 10 | 2,374.57 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,253.79 | 1/4 | 3,995.51 | 1/4 | 3,722.62 | 1/4 | 3,442.68 | 1/4 | 3,094.24 | 1/4 | 2,730.61 | 1/4 | 2,366.99 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,248.53 | 1/2 | 3,989.93 | 1/2 | 3,716.81 | 1/2 | 3,436.84 | 1/2 | 3,086.66 | 1/2 | 2,723.04 | 1/2 | 2,359.41 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,243.28 | 3/4 | 3,984.36 | 3/4 | 3,711.00 | 3/4 | 3,431.01 | 3/4 | 3,079.09 | 3/4 | 2,715.46 | 3/4 | 2,351.84 |
| 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 4,238.02 | 11 | 3,978.79 | 11 | 3,705.20 | 11 | 3,425.17 | 11 | 3,071.51 | 11 | 2,707.89 | 11 | 2,344.26 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,232.75 | 1/4 | 3,973.19 | 1/4 | 3,699.37 | 1/4 | 3,419.34 | 1/4 | 3,063.94 | 1/4 | 2,700.31 | 1/4 | 2,336.69 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,227.48 | 1/2 | 3,967.60 | 1/2 | 3,693.55 | 1/2 | 3,413.50 | 1/2 | 3,056.36 | 1/2 | 2,692.74 | 1/2 | 2,329.11 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,222.20 | 3/4 | 3,962.01 | 3/4 | 3,687.72 | 3/4 | 3,407.67 | 3/4 | 3,048.79 | 3/4 | 2,685.16 | 3/4 | 2,321.54 |

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28172"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|--------|-----|--------|----|--------|----|--------|
| 0 | 2,313.96 | 0 | 1,950.34 | 0 | 1,586.75 | 0 | 1,227.66 | 0 | 872.94 | 0 | 516.48 | 0 | 151.84 | 0 | | 0 | | 0 | |
| 1/4 | 2,306.39 | 1/4 | 1,942.76 | 1/4 | 1,579.20 | 1/4 | 1,220.10 | 1/4 | 865.58 | 1/4 | 508.88 | 1/4 | 144.56 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,298.81 | 1/2 | 1,935.19 | 1/2 | 1,571.65 | 1/2 | 1,212.54 | 1/2 | 858.23 | 1/2 | 501.28 | 1/2 | 137.28 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,291.24 | 3/4 | 1,927.61 | 3/4 | 1,564.09 | 3/4 | 1,204.98 | 3/4 | 850.87 | 3/4 | 493.69 | 3/4 | 130.00 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 1 | 2,283.66 | 1 | 1,920.03 | 1 | 1,556.54 | 1 | 1,197.42 | 1 | 843.51 | 1 | 486.09 | 1 | 122.72 | 1 | 1 | | 1 | | 1 |
| 1/4 | 2,276.08 | 1/4 | 1,912.46 | 1/4 | 1,548.99 | 1/4 | 1,189.86 | 1/4 | 836.13 | 1/4 | 478.49 | 1/4 | 116.39 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,268.51 | 1/2 | 1,904.88 | 1/2 | 1,541.44 | 1/2 | 1,182.30 | 1/2 | 828.76 | 1/2 | 470.90 | 1/2 | 110.07 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,260.93 | 3/4 | 1,897.31 | 3/4 | 1,533.88 | 3/4 | 1,174.74 | 3/4 | 821.39 | 3/4 | 463.30 | 3/4 | 103.74 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 2 | 2,253.36 | 2 | 1,889.73 | 2 | 1,526.33 | 2 | 1,167.18 | 2 | 814.02 | 2 | 455.70 | 2 | 97.41 | 2 | 2 | | 2 | | 2 |
| 1/4 | 2,245.78 | 1/4 | 1,882.16 | 1/4 | 1,518.78 | 1/4 | 1,159.72 | 1/4 | 806.63 | 1/4 | 448.11 | 1/4 | 92.35 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,238.21 | 1/2 | 1,874.58 | 1/2 | 1,511.23 | 1/2 | 1,152.27 | 1/2 | 799.24 | 1/2 | 440.51 | 1/2 | 87.29 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,230.63 | 3/4 | 1,867.00 | 3/4 | 1,503.68 | 3/4 | 1,144.81 | 3/4 | 791.86 | 3/4 | 432.91 | 3/4 | 82.23 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 3 | 2,223.06 | 3 | 1,859.43 | 3 | 1,496.12 | 3 | 1,137.35 | 3 | 784.47 | 3 | 425.32 | 3 | 77.18 | 3 | 3 | | 3 | | 3 |
| 1/4 | 2,215.48 | 1/4 | 1,851.85 | 1/4 | 1,488.57 | 1/4 | 1,130.01 | 1/4 | 777.09 | 1/4 | 417.72 | 1/4 | 73.40 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,207.90 | 1/2 | 1,844.28 | 1/2 | 1,481.02 | 1/2 | 1,122.66 | 1/2 | 769.70 | 1/2 | 410.12 | 1/2 | 69.61 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,200.33 | 3/4 | 1,836.70 | 3/4 | 1,473.47 | 3/4 | 1,115.32 | 3/4 | 762.32 | 3/4 | 402.53 | 3/4 | 65.83 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 4 | 2,192.75 | 4 | 1,829.13 | 4 | 1,465.91 | 4 | 1,107.97 | 4 | 754.93 | 4 | 394.93 | 4 | 62.05 | 4 | 4 | | 4 | | 4 |
| 1/4 | 2,185.18 | 1/4 | 1,821.55 | 1/4 | 1,458.44 | 1/4 | 1,100.63 | 1/4 | 747.54 | 1/4 | 387.34 | 1/4 | 59.56 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,177.60 | 1/2 | 1,813.97 | 1/2 | 1,450.97 | 1/2 | 1,093.29 | 1/2 | 740.16 | 1/2 | 379.74 | 1/2 | 57.06 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,170.03 | 3/4 | 1,806.40 | 3/4 | 1,443.50 | 3/4 | 1,085.95 | 3/4 | 732.77 | 3/4 | 372.14 | 3/4 | 54.56 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 5 | 2,162.45 | 5 | 1,798.82 | 5 | 1,436.03 | 5 | 1,078.61 | 5 | 725.39 | 5 | 364.55 | 5 | 52.07 | 5 | 5 | | 5 | | 5 |
| 1/4 | 2,154.88 | 1/4 | 1,791.25 | 1/4 | 1,428.63 | 1/4 | 1,071.27 | 1/4 | 718.00 | 1/4 | 356.95 | 1/4 | 50.87 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,147.30 | 1/2 | 1,783.67 | 1/2 | 1,421.23 | 1/2 | 1,063.93 | 1/2 | 710.61 | 1/2 | 349.35 | 1/2 | 49.67 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,139.73 | 3/4 | 1,776.10 | 3/4 | 1,413.82 | 3/4 | 1,056.59 | 3/4 | 703.23 | 3/4 | 341.76 | 3/4 | 48.47 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 6 | 2,132.15 | 6 | 1,768.52 | 6 | 1,406.42 | 6 | 1,049.25 | 6 | 695.84 | 6 | 334.16 | 6 | 47.27 | 6 | 6 | | 6 | | 6 |
| 1/4 | 2,124.57 | 1/4 | 1,760.94 | 1/4 | 1,399.01 | 1/4 | 1,041.91 | 1/4 | 688.46 | 1/4 | 326.56 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,117.00 | 1/2 | 1,753.37 | 1/2 | 1,391.59 | 1/2 | 1,034.58 | 1/2 | 681.07 | 1/2 | 318.97 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,109.42 | 3/4 | 1,745.79 | 3/4 | 1,384.18 | 3/4 | 1,027.24 | 3/4 | 673.69 | 3/4 | 311.37 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 7 | 2,101.85 | 7 | 1,738.22 | 7 | 1,376.76 | 7 | 1,019.90 | 7 | 666.30 | 7 | 303.77 | 7 | | 7 | 7 | | 7 | | 7 |
| 1/4 | 2,094.27 | 1/4 | 1,730.64 | 1/4 | 1,369.35 | 1/4 | 1,012.56 | 1/4 | 658.91 | 1/4 | 296.18 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,086.70 | 1/2 | 1,723.07 | 1/2 | 1,361.93 | 1/2 | 1,005.22 | 1/2 | 651.53 | 1/2 | 288.58 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,079.12 | 3/4 | 1,715.49 | 3/4 | 1,354.52 | 3/4 | 997.88 | 3/4 | 644.14 | 3/4 | 280.98 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 8 | 2,071.55 | 8 | 1,707.91 | 8 | 1,347.10 | 8 | 990.54 | 8 | 636.76 | 8 | 273.39 | 8 | | 8 | 8 | | 8 | | 8 |
| 1/4 | 2,063.97 | 1/4 | 1,700.34 | 1/4 | 1,339.69 | 1/4 | 983.20 | 1/4 | 629.37 | 1/4 | 265.79 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,056.39 | 1/2 | 1,692.76 | 1/2 | 1,332.27 | 1/2 | 975.87 | 1/2 | 621.99 | 1/2 | 258.19 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,048.82 | 3/4 | 1,685.19 | 3/4 | 1,324.86 | 3/4 | 968.53 | 3/4 | 614.60 | 3/4 | 250.60 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 9 | 2,041.24 | 9 | 1,677.61 | 9 | 1,317.44 | 9 | 961.19 | 9 | 607.21 | 9 | 243.00 | 9 | | 9 | 9 | | 9 | | 9 |
| 1/4 | 2,033.67 | 1/4 | 1,670.04 | 1/4 | 1,310.04 | 1/4 | 953.84 | 1/4 | 599.72 | 1/4 | 235.41 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,026.09 | 1/2 | 1,662.46 | 1/2 | 1,302.63 | 1/2 | 946.49 | 1/2 | 592.23 | 1/2 | 227.81 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,018.52 | 3/4 | 1,654.88 | 3/4 | 1,295.22 | 3/4 | 939.15 | 3/4 | 584.74 | 3/4 | 220.21 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 10 | 2,010.94 | 10 | 1,647.31 | 10 | 1,287.82 | 10 | 931.80 | 10 | 577.25 | 10 | 212.62 | 10 | | 10 | 10 | | 10 | | 10 |
| 1/4 | 2,003.37 | 1/4 | 1,639.73 | 1/4 | 1,280.34 | 1/4 | 924.44 | 1/4 | 569.65 | 1/4 | 205.02 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 1,995.79 | 1/2 | 1,632.16 | 1/2 | 1,272.86 | 1/2 | 917.08 | 1/2 | 562.05 | 1/2 | 197.42 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 1,988.22 | 3/4 | 1,624.58 | 3/4 | 1,265.38 | 3/4 | 909.73 | 3/4 | 554.46 | 3/4 | 189.83 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 11 | 1,980.64 | 11 | 1,617.01 | 11 | 1,257.90 | 11 | 902.37 | 11 | 546.86 | 11 | 182.23 | 11 | | 11 | 11 | | 11 | | 11 |
| 1/4 | 1,973.06 | 1/4 | 1,609.44 | 1/4 | 1,250.34 | 1/4 | 895.01 | 1/4 | 539.27 | 1/4 | 174.63 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 1,965.49 | 1/2 | 1,601.88 | 1/2 | 1,242.78 | 1/2 | 887.66 | 1/2 | 531.67 | 1/2 | 167.04 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 1,957.91 | 3/4 | 1,594.31 | 3/4 | 1,235.22 | 3/4 | 880.30 | 3/4 | 524.07 | 3/4 | 159.44 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/04/2011 CL - SW
CALCULATED: 05/04/2011 CL
PRINTED: 05/04/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2011

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 28172"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | |
|-------|-----|-------|-----|-------|-----|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT | IN | OUT |
| 0 | | 0 | | 0 | | 0 | 4,494.66 | 0 | 4,240.81 | 0 | 3,980.24 | 0 | 3,705.66 | 0 | 3,425.53 | 0 | 3,064.37 | 0 | 2,699.70 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,489.93 | 1/4 | 4,235.52 | 1/4 | 3,974.62 | 1/4 | 3,699.83 | 1/4 | 3,418.81 | 1/4 | 3,056.78 | 1/4 | 2,692.11 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,485.20 | 1/2 | 4,230.23 | 1/2 | 3,969.01 | 1/2 | 3,693.99 | 1/2 | 3,412.09 | 1/2 | 3,049.18 | 1/2 | 2,684.51 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,480.46 | 3/4 | 4,224.93 | 3/4 | 3,963.40 | 3/4 | 3,688.16 | 3/4 | 3,405.37 | 3/4 | 3,041.58 | 3/4 | 2,676.91 |
| 1 | | 1 | | 1 | | 1 | 4,475.73 | 1 | 4,219.64 | 1 | 3,957.78 | 1 | 3,682.32 | 1 | 3,398.65 | 1 | 3,033.98 | 1 | 2,669.31 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,470.69 | 1/4 | 4,214.33 | 1/4 | 3,952.15 | 1/4 | 3,676.49 | 1/4 | 3,391.06 | 1/4 | 3,026.39 | 1/4 | 2,661.72 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,465.65 | 1/2 | 4,209.01 | 1/2 | 3,946.51 | 1/2 | 3,670.65 | 1/2 | 3,383.46 | 1/2 | 3,018.79 | 1/2 | 2,654.12 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,460.61 | 3/4 | 4,203.70 | 3/4 | 3,940.88 | 3/4 | 3,664.81 | 3/4 | 3,375.86 | 3/4 | 3,011.19 | 3/4 | 2,646.52 |
| 2 | | 2 | | 2 | | 2 | 4,455.57 | 2 | 4,198.39 | 2 | 3,935.24 | 2 | 3,658.98 | 2 | 3,368.27 | 2 | 3,003.60 | 2 | 2,638.92 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,449.90 | 1/4 | 4,193.06 | 1/4 | 3,929.59 | 1/4 | 3,653.14 | 1/4 | 3,360.67 | 1/4 | 2,996.00 | 1/4 | 2,631.33 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,444.23 | 1/2 | 4,187.73 | 1/2 | 3,923.94 | 1/2 | 3,647.31 | 1/2 | 3,353.07 | 1/2 | 2,988.40 | 1/2 | 2,623.73 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,438.55 | 3/4 | 4,182.40 | 3/4 | 3,918.28 | 3/4 | 3,641.47 | 3/4 | 3,345.47 | 3/4 | 2,980.80 | 3/4 | 2,616.13 |
| 3 | | 3 | | 3 | | 3 | 4,432.88 | 3 | 4,177.07 | 3 | 3,912.63 | 3 | 3,635.63 | 3 | 3,337.88 | 3 | 2,973.21 | 3 | 2,608.54 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,427.13 | 1/4 | 4,171.72 | 1/4 | 3,906.96 | 1/4 | 3,629.80 | 1/4 | 3,330.28 | 1/4 | 2,965.61 | 1/4 | 2,600.94 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,421.38 | 1/2 | 4,166.37 | 1/2 | 3,901.28 | 1/2 | 3,623.96 | 1/2 | 3,322.68 | 1/2 | 2,958.01 | 1/2 | 2,593.34 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,415.62 | 3/4 | 4,161.02 | 3/4 | 3,895.61 | 3/4 | 3,618.12 | 3/4 | 3,315.08 | 3/4 | 2,950.41 | 3/4 | 2,585.74 |
| 4 | | 4 | | 4 | | 4 | 4,409.87 | 4 | 4,155.67 | 4 | 3,889.94 | 4 | 3,612.29 | 4 | 3,307.49 | 4 | 2,942.82 | 4 | 2,578.15 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,404.27 | 1/4 | 4,150.30 | 1/4 | 3,884.25 | 1/4 | 3,606.45 | 1/4 | 3,299.89 | 1/4 | 2,935.22 | 1/4 | 2,570.55 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,398.67 | 1/2 | 4,144.93 | 1/2 | 3,878.56 | 1/2 | 3,600.62 | 1/2 | 3,292.29 | 1/2 | 2,927.62 | 1/2 | 2,562.95 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,393.06 | 3/4 | 4,139.56 | 3/4 | 3,872.87 | 3/4 | 3,594.78 | 3/4 | 3,284.70 | 3/4 | 2,920.02 | 3/4 | 2,555.35 |
| 5 | | 5 | | 5 | | 5 | 4,387.46 | 5 | 4,134.19 | 5 | 3,867.18 | 5 | 3,588.94 | 5 | 3,277.10 | 5 | 2,912.43 | 5 | 2,547.76 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,382.15 | 1/4 | 4,128.80 | 1/4 | 3,861.47 | 1/4 | 3,583.11 | 1/4 | 3,269.50 | 1/4 | 2,904.83 | 1/4 | 2,540.16 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,376.84 | 1/2 | 4,123.41 | 1/2 | 3,855.76 | 1/2 | 3,577.27 | 1/2 | 3,261.90 | 1/2 | 2,897.23 | 1/2 | 2,532.56 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,371.53 | 3/4 | 4,118.02 | 3/4 | 3,850.05 | 3/4 | 3,571.43 | 3/4 | 3,254.31 | 3/4 | 2,889.64 | 3/4 | 2,524.97 |
| 6 | | 6 | | 6 | | 6 | 4,366.22 | 6 | 4,112.63 | 6 | 3,844.34 | 6 | 3,565.60 | 6 | 3,246.71 | 6 | 2,882.04 | 6 | 2,517.37 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,361.05 | 1/4 | 4,107.22 | 1/4 | 3,838.61 | 1/4 | 3,559.76 | 1/4 | 3,239.11 | 1/4 | 2,874.44 | 1/4 | 2,509.77 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,355.87 | 1/2 | 4,101.81 | 1/2 | 3,832.88 | 1/2 | 3,553.93 | 1/2 | 3,231.51 | 1/2 | 2,866.84 | 1/2 | 2,502.17 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,350.70 | 3/4 | 4,096.40 | 3/4 | 3,827.15 | 3/4 | 3,548.09 | 3/4 | 3,223.92 | 3/4 | 2,859.25 | 3/4 | 2,494.58 |
| 7 | | 7 | | 7 | | 7 | 4,345.52 | 7 | 4,090.99 | 7 | 3,821.42 | 7 | 3,542.25 | 7 | 3,216.32 | 7 | 2,851.65 | 7 | 2,486.98 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,340.33 | 1/4 | 4,085.54 | 1/4 | 3,815.67 | 1/4 | 3,536.42 | 1/4 | 3,208.72 | 1/4 | 2,844.05 | 1/4 | 2,479.38 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,335.13 | 1/2 | 4,080.09 | 1/2 | 3,809.93 | 1/2 | 3,530.58 | 1/2 | 3,201.13 | 1/2 | 2,836.45 | 1/2 | 2,471.78 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,329.93 | 3/4 | 4,074.64 | 3/4 | 3,804.18 | 3/4 | 3,524.74 | 3/4 | 3,193.53 | 3/4 | 2,828.86 | 3/4 | 2,464.19 |
| 8 | | 8 | | 8 | | 8 | 4,324.74 | 8 | 4,069.18 | 8 | 3,798.43 | 8 | 3,518.91 | 8 | 3,185.93 | 8 | 2,821.26 | 8 | 2,456.59 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,319.52 | 1/4 | 4,063.67 | 1/4 | 3,792.66 | 1/4 | 3,513.07 | 1/4 | 3,178.33 | 1/4 | 2,813.66 | 1/4 | 2,448.99 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,314.31 | 1/2 | 4,058.16 | 1/2 | 3,786.89 | 1/2 | 3,507.23 | 1/2 | 3,170.74 | 1/2 | 2,806.07 | 1/2 | 2,441.40 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,309.09 | 3/4 | 4,052.64 | 3/4 | 3,781.12 | 3/4 | 3,501.40 | 3/4 | 3,163.14 | 3/4 | 2,798.47 | 3/4 | 2,433.80 |
| 9 | | 9 | | 9 | | 9 | 4,303.88 | 9 | 4,047.13 | 9 | 3,775.35 | 9 | 3,495.56 | 9 | 3,155.54 | 9 | 2,790.87 | 9 | 2,426.20 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,298.64 | 1/4 | 4,041.58 | 1/4 | 3,769.56 | 1/4 | 3,489.73 | 1/4 | 3,147.94 | 1/4 | 2,783.27 | 1/4 | 2,418.60 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,293.41 | 1/2 | 4,036.02 | 1/2 | 3,763.77 | 1/2 | 3,483.89 | 1/2 | 3,140.35 | 1/2 | 2,775.68 | 1/2 | 2,411.01 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,288.17 | 3/4 | 4,030.47 | 3/4 | 3,757.99 | 3/4 | 3,478.05 | 3/4 | 3,132.75 | 3/4 | 2,768.08 | 3/4 | 2,403.41 |
| 10 | | 10 | | 10 | | 10 | 4,282.94 | 10 | 4,024.91 | 10 | 3,752.20 | 10 | 3,472.22 | 10 | 3,125.15 | 10 | 2,760.48 | 10 | 2,395.81 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,277.68 | 1/4 | 4,019.34 | 1/4 | 3,746.39 | 1/4 | 3,466.38 | 1/4 | 3,117.55 | 1/4 | 2,752.88 | 1/4 | 2,388.21 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,272.43 | 1/2 | 4,013.76 | 1/2 | 3,740.58 | 1/2 | 3,460.54 | 1/2 | 3,109.96 | 1/2 | 2,745.29 | 1/2 | 2,380.62 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,267.17 | 3/4 | 4,008.19 | 3/4 | 3,734.77 | 3/4 | 3,454.71 | 3/4 | 3,102.36 | 3/4 | 2,737.69 | 3/4 | 2,373.02 |
| 11 | | 11 | | 11 | | 11 | 4,261.91 | 11 | 4,002.62 | 11 | 3,728.96 | 11 | 3,448.87 | 11 | 3,094.76 | 11 | 2,730.09 | 11 | 2,365.42 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,256.64 | 1/4 | 3,997.02 | 1/4 | 3,723.14 | 1/4 | 3,443.04 | 1/4 | 3,087.17 | 1/4 | 2,722.50 | 1/4 | 2,357.82 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,251.36 | 1/2 | 3,991.43 | 1/2 | 3,717.31 | 1/2 | 3,437.20 | 1/2 | 3,079.57 | 1/2 | 2,714.90 | 1/2 | 2,350.23 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,246.09 | 3/4 | 3,985.83 | 3/4 | 3,711.48 | 3/4 | 3,431.36 | 3/4 | 3,071.97 | 3/4 | 2,707.30 | 3/4 | 2,342.63 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28172"

**3 STBD
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GUAGE HEIGHT 16'-06"

| 10 FT. | | 11 FT. | | 12 FT. | | 13 FT. | | 14 FT. | | 15 FT. | | 16 FT. | | 17 FT. | | 18 FT. | | 19 FT. | |
|-----------|-----------------|-----------|-----------------|-----------|-----------------|-----------|-----------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|
| IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 |
| | 2,335.03 | | 1,970.36 | | 1,605.68 | | 1,244.88 | | 881.14 | | 516.60 | | 151.88 | | | | | | |
| 1/4 | 2,327.44 | 1/4 | 1,962.76 | 1/4 | 1,598.08 | 1/4 | 1,237.28 | 1/4 | 873.57 | 1/4 | 509.00 | 1/4 | 144.60 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,319.84 | 1/2 | 1,955.17 | 1/2 | 1,590.48 | 1/2 | 1,229.68 | 1/2 | 866.00 | 1/2 | 501.40 | 1/2 | 137.32 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,312.24 | 3/4 | 1,947.57 | 3/4 | 1,582.89 | 3/4 | 1,222.09 | 3/4 | 858.43 | 3/4 | 493.80 | 3/4 | 130.03 | 3/4 | | 3/4 | | 3/4 | |
| 1 | 2,304.64 | 1 | 1,939.97 | 1 | 1,575.29 | 1 | 1,214.49 | 1 | 850.86 | 1 | 486.20 | 1 | 122.75 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1/4 | 2,297.05 | 1/4 | 1,932.37 | 1/4 | 1,567.69 | 1/4 | 1,206.89 | 1/4 | 843.28 | 1/4 | 478.61 | 1/4 | 116.42 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,289.45 | 1/2 | 1,924.77 | 1/2 | 1,560.09 | 1/2 | 1,199.29 | 1/2 | 835.69 | 1/2 | 471.01 | 1/2 | 110.09 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,281.85 | 3/4 | 1,917.18 | 3/4 | 1,552.50 | 3/4 | 1,191.69 | 3/4 | 828.10 | 3/4 | 463.41 | 3/4 | 103.76 | 3/4 | | 3/4 | | 3/4 | |
| 2 | 2,274.25 | 2 | 1,909.58 | 2 | 1,544.90 | 2 | 1,184.09 | 2 | 820.52 | 2 | 455.81 | 2 | 97.43 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1/4 | 2,266.66 | 1/4 | 1,901.98 | 1/4 | 1,537.30 | 1/4 | 1,176.50 | 1/4 | 812.92 | 1/4 | 448.21 | 1/4 | 92.37 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,259.06 | 1/2 | 1,894.38 | 1/2 | 1,529.70 | 1/2 | 1,168.90 | 1/2 | 805.32 | 1/2 | 440.62 | 1/2 | 87.31 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,251.46 | 3/4 | 1,886.79 | 3/4 | 1,522.11 | 3/4 | 1,161.30 | 3/4 | 797.73 | 3/4 | 433.02 | 3/4 | 82.25 | 3/4 | | 3/4 | | 3/4 | |
| 3 | 2,243.87 | 3 | 1,879.19 | 3 | 1,514.51 | 3 | 1,153.70 | 3 | 790.13 | 3 | 425.42 | 3 | 77.19 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1/4 | 2,236.27 | 1/4 | 1,871.59 | 1/4 | 1,506.91 | 1/4 | 1,146.12 | 1/4 | 782.53 | 1/4 | 417.82 | 1/4 | 73.41 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,228.67 | 1/2 | 1,863.99 | 1/2 | 1,499.31 | 1/2 | 1,138.53 | 1/2 | 774.93 | 1/2 | 410.22 | 1/2 | 69.63 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,221.07 | 3/4 | 1,856.40 | 3/4 | 1,491.72 | 3/4 | 1,130.94 | 3/4 | 767.33 | 3/4 | 402.62 | 3/4 | 65.85 | 3/4 | | 3/4 | | 3/4 | |
| 4 | 2,213.48 | 4 | 1,848.80 | 4 | 1,484.12 | 4 | 1,123.36 | 4 | 759.74 | 4 | 395.03 | 4 | 62.07 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1/4 | 2,205.88 | 1/4 | 1,841.20 | 1/4 | 1,476.60 | 1/4 | 1,115.79 | 1/4 | 752.14 | 1/4 | 387.43 | 1/4 | 59.57 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,198.28 | 1/2 | 1,833.60 | 1/2 | 1,469.09 | 1/2 | 1,108.22 | 1/2 | 744.54 | 1/2 | 379.83 | 1/2 | 57.07 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,190.68 | 3/4 | 1,826.01 | 3/4 | 1,461.57 | 3/4 | 1,100.65 | 3/4 | 736.94 | 3/4 | 372.23 | 3/4 | 54.58 | 3/4 | | 3/4 | | 3/4 | |
| 5 | 2,183.09 | 5 | 1,818.41 | 5 | 1,454.05 | 5 | 1,093.08 | 5 | 729.34 | 5 | 364.63 | 5 | 52.08 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1/4 | 2,175.49 | 1/4 | 1,810.81 | 1/4 | 1,446.62 | 1/4 | 1,085.51 | 1/4 | 721.75 | 1/4 | 357.03 | 1/4 | 50.88 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,167.89 | 1/2 | 1,803.21 | 1/2 | 1,439.18 | 1/2 | 1,077.94 | 1/2 | 714.15 | 1/2 | 349.44 | 1/2 | 49.68 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,160.29 | 3/4 | 1,795.62 | 3/4 | 1,431.75 | 3/4 | 1,070.37 | 3/4 | 706.55 | 3/4 | 341.84 | 3/4 | 48.48 | 3/4 | | 3/4 | | 3/4 | |
| 6 | 2,152.70 | 6 | 1,788.02 | 6 | 1,424.31 | 6 | 1,062.80 | 6 | 698.95 | 6 | 334.24 | 6 | 47.29 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1/4 | 2,145.10 | 1/4 | 1,780.42 | 1/4 | 1,416.88 | 1/4 | 1,055.23 | 1/4 | 691.36 | 1/4 | 326.64 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,137.50 | 1/2 | 1,772.82 | 1/2 | 1,409.44 | 1/2 | 1,047.66 | 1/2 | 683.76 | 1/2 | 319.04 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,129.91 | 3/4 | 1,765.23 | 3/4 | 1,402.01 | 3/4 | 1,040.09 | 3/4 | 676.16 | 3/4 | 311.44 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 2,122.31 | 7 | 1,757.63 | 7 | 1,394.57 | 7 | 1,032.52 | 7 | 668.56 | 7 | 303.85 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1/4 | 2,114.71 | 1/4 | 1,750.03 | 1/4 | 1,387.13 | 1/4 | 1,024.96 | 1/4 | 660.96 | 1/4 | 296.25 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,107.11 | 1/2 | 1,742.43 | 1/2 | 1,379.70 | 1/2 | 1,017.39 | 1/2 | 653.37 | 1/2 | 288.65 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,099.52 | 3/4 | 1,734.84 | 3/4 | 1,372.26 | 3/4 | 1,009.82 | 3/4 | 645.77 | 3/4 | 281.05 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 2,091.92 | 8 | 1,727.24 | 8 | 1,364.83 | 8 | 1,002.25 | 8 | 638.17 | 8 | 273.45 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1/4 | 2,084.32 | 1/4 | 1,719.64 | 1/4 | 1,357.39 | 1/4 | 994.68 | 1/4 | 630.57 | 1/4 | 265.85 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,076.72 | 1/2 | 1,712.04 | 1/2 | 1,349.96 | 1/2 | 987.11 | 1/2 | 622.97 | 1/2 | 258.26 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,069.13 | 3/4 | 1,704.45 | 3/4 | 1,342.52 | 3/4 | 979.54 | 3/4 | 615.38 | 3/4 | 250.66 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 2,061.53 | 9 | 1,696.85 | 9 | 1,335.09 | 9 | 971.97 | 9 | 607.78 | 9 | 243.06 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1/4 | 2,053.93 | 1/4 | 1,689.25 | 1/4 | 1,327.65 | 1/4 | 964.40 | 1/4 | 600.18 | 1/4 | 235.46 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,046.34 | 1/2 | 1,681.65 | 1/2 | 1,320.21 | 1/2 | 956.83 | 1/2 | 592.58 | 1/2 | 227.86 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,038.74 | 3/4 | 1,674.06 | 3/4 | 1,312.78 | 3/4 | 949.27 | 3/4 | 584.98 | 3/4 | 220.26 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 2,031.14 | 10 | 1,666.46 | 10 | 1,305.34 | 10 | 941.70 | 10 | 577.38 | 10 | 212.67 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1/4 | 2,023.54 | 1/4 | 1,658.86 | 1/4 | 1,297.82 | 1/4 | 934.13 | 1/4 | 569.79 | 1/4 | 205.07 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,015.95 | 1/2 | 1,651.26 | 1/2 | 1,290.31 | 1/2 | 926.56 | 1/2 | 562.19 | 1/2 | 197.47 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,008.35 | 3/4 | 1,643.67 | 3/4 | 1,282.79 | 3/4 | 918.99 | 3/4 | 554.59 | 3/4 | 189.87 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 2,000.75 | 11 | 1,636.07 | 11 | 1,275.27 | 11 | 911.42 | 11 | 546.99 | 11 | 182.27 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 1/4 | 1,993.15 | 1/4 | 1,628.47 | 1/4 | 1,267.67 | 1/4 | 903.85 | 1/4 | 539.39 | 1/4 | 174.67 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,985.56 | 1/2 | 1,620.87 | 1/2 | 1,260.08 | 1/2 | 896.28 | 1/2 | 531.79 | 1/2 | 167.08 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,977.96 | 3/4 | 1,613.28 | 3/4 | 1,252.48 | 3/4 | 888.71 | 3/4 | 524.20 | 3/4 | 159.48 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 05/04/2011 CL - SW
CALCULATED: 05/04/2011 CL
PRINTED: 05/04/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2011

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