



BARGE "KIRBY 11519"

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 CENTER | - 00-0/8 | 00-0/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/4 | 00-1/4 | - 00-1/4 | 00-1/4 |
| 2 CENTER | 00-1/8 | - 00-1/8 | 00-3/8 | - 00-3/8 | 00-1/2 | - 00-1/2 | 00-5/8 | - 00-5/8 | 00-3/4 | - 00-3/4 | 01-0/8 | - 01-0/8 |
| 3 CENTER | 00-1/8 | - 00-1/8 | 00-3/8 | - 00-3/8 | 00-1/2 | - 00-1/2 | 00-5/8 | - 00-5/8 | 00-7/8 | - 00-7/8 | 01-0/8 | - 01-0/8 |

(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 CENTER IS 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 162'-09"

July 14, 2005

**PRECISION MEASUREMENT
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BARGE "KIRBY 11519"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-10 1/4"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. |
|-----|-------|-----|-------|-----|-------|-----|-------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 0 | | 0 | | 0 | | 0 | | 0 | 3,671.93 | 0 | 3,424.15 | 0 | 3,176.58 | 0 | 2,928.10 | 0 | 2,655.45 | 0 | 2,382.44 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,666.77 | 1/4 | 3,418.98 | 1/4 | 3,171.42 | 1/4 | 2,922.67 | 1/4 | 2,649.76 | 1/4 | 2,376.75 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,661.61 | 1/2 | 3,413.82 | 1/2 | 3,166.26 | 1/2 | 2,916.99 | 1/2 | 2,644.07 | 1/2 | 2,371.06 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,656.45 | 3/4 | 3,408.66 | 3/4 | 3,161.10 | 3/4 | 2,911.30 | 3/4 | 2,638.39 | 3/4 | 2,365.37 |
| 1 | | 1 | | 1 | | 1 | | 1 | 3,651.29 | 1 | 3,403.50 | 1 | 3,155.94 | 1 | 2,905.62 | 1 | 2,632.70 | 1 | 2,359.68 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,646.13 | 1/4 | 3,398.33 | 1/4 | 3,150.78 | 1/4 | 2,899.93 | 1/4 | 2,627.02 | 1/4 | 2,354.00 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,640.97 | 1/2 | 3,393.17 | 1/2 | 3,145.62 | 1/2 | 2,894.25 | 1/2 | 2,621.33 | 1/2 | 2,348.31 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,635.81 | 3/4 | 3,388.01 | 3/4 | 3,140.46 | 3/4 | 2,888.56 | 3/4 | 2,615.64 | 3/4 | 2,342.62 |
| 2 | | 2 | | 2 | | 2 | | 2 | 3,630.65 | 2 | 3,382.85 | 2 | 3,135.30 | 2 | 2,882.87 | 2 | 2,609.96 | 2 | 2,336.93 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,850.70 | 1/4 | 3,625.48 | 1/4 | 3,377.68 | 1/4 | 3,130.14 | 1/4 | 2,877.19 | 1/4 | 2,604.27 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,848.93 | 1/2 | 3,620.32 | 1/2 | 3,372.53 | 1/2 | 3,124.98 | 1/2 | 2,871.50 | 1/2 | 2,598.58 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,847.17 | 3/4 | 3,615.16 | 3/4 | 3,367.37 | 3/4 | 3,119.82 | 3/4 | 2,865.82 | 3/4 | 2,592.89 |
| 3 | | 3 | | 3 | | 3 | | 3 | 3,845.40 | 3 | 3,610.00 | 3 | 3,362.21 | 3 | 3,114.66 | 3 | 2,860.13 | 3 | 2,587.21 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,843.63 | 1/4 | 3,604.83 | 1/4 | 3,357.05 | 1/4 | 3,109.50 | 1/4 | 2,854.45 | 1/4 | 2,581.52 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,840.24 | 1/2 | 3,599.67 | 1/2 | 3,351.89 | 1/2 | 3,104.34 | 1/2 | 2,848.76 | 1/2 | 2,575.83 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,836.85 | 3/4 | 3,594.51 | 3/4 | 3,346.74 | 3/4 | 3,099.17 | 3/4 | 2,843.07 | 3/4 | 2,570.14 |
| 4 | | 4 | | 4 | | 4 | | 4 | 3,833.45 | 4 | 3,589.35 | 4 | 3,341.58 | 4 | 3,094.01 | 4 | 2,837.39 | 4 | 2,564.46 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,830.06 | 1/4 | 3,584.18 | 1/4 | 3,336.43 | 1/4 | 3,088.85 | 1/4 | 2,831.70 | 1/4 | 2,558.77 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,825.37 | 1/2 | 3,579.02 | 1/2 | 3,331.27 | 1/2 | 3,083.69 | 1/2 | 2,826.02 | 1/2 | 2,553.08 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,820.69 | 3/4 | 3,573.86 | 3/4 | 3,326.12 | 3/4 | 3,078.53 | 3/4 | 2,820.33 | 3/4 | 2,547.39 |
| 5 | | 5 | | 5 | | 5 | | 5 | 3,816.00 | 5 | 3,568.70 | 5 | 3,320.96 | 5 | 3,073.37 | 5 | 2,814.65 | 5 | 2,541.70 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,811.32 | 1/4 | 3,563.53 | 1/4 | 3,315.80 | 1/4 | 3,068.21 | 1/4 | 2,808.96 | 1/4 | 2,536.01 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,806.15 | 1/2 | 3,558.37 | 1/2 | 3,310.65 | 1/2 | 3,063.05 | 1/2 | 2,803.27 | 1/2 | 2,530.33 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,800.99 | 3/4 | 3,553.21 | 3/4 | 3,305.49 | 3/4 | 3,057.89 | 3/4 | 2,797.59 | 3/4 | 2,524.64 |
| 6 | | 6 | | 6 | | 6 | | 6 | 3,795.83 | 6 | 3,548.05 | 6 | 3,300.34 | 6 | 3,052.73 | 6 | 2,791.90 | 6 | 2,518.95 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,790.67 | 1/4 | 3,542.88 | 1/4 | 3,295.18 | 1/4 | 3,047.57 | 1/4 | 2,786.22 | 1/4 | 2,513.26 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,785.51 | 1/2 | 3,537.72 | 1/2 | 3,290.03 | 1/2 | 3,042.41 | 1/2 | 2,780.53 | 1/2 | 2,507.57 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,780.34 | 3/4 | 3,532.56 | 3/4 | 3,284.87 | 3/4 | 3,037.25 | 3/4 | 2,774.85 | 3/4 | 2,501.89 |
| 7 | | 7 | | 7 | | 7 | | 7 | 3,775.18 | 7 | 3,527.40 | 7 | 3,279.71 | 7 | 3,032.09 | 7 | 2,769.16 | 7 | 2,496.20 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,770.02 | 1/4 | 3,522.23 | 1/4 | 3,274.56 | 1/4 | 3,026.93 | 1/4 | 2,763.47 | 1/4 | 2,490.51 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,764.86 | 1/2 | 3,517.07 | 1/2 | 3,269.40 | 1/2 | 3,021.77 | 1/2 | 2,757.79 | 1/2 | 2,484.82 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,759.69 | 3/4 | 3,511.91 | 3/4 | 3,264.25 | 3/4 | 3,016.61 | 3/4 | 2,752.10 | 3/4 | 2,479.13 |
| 8 | | 8 | | 8 | | 8 | | 8 | 3,754.53 | 8 | 3,506.75 | 8 | 3,259.09 | 8 | 3,011.45 | 8 | 2,746.42 | 8 | 2,473.45 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,749.37 | 1/4 | 3,501.58 | 1/4 | 3,253.94 | 1/4 | 3,006.29 | 1/4 | 2,740.73 | 1/4 | 2,467.76 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,744.21 | 1/2 | 3,496.42 | 1/2 | 3,248.78 | 1/2 | 3,001.13 | 1/2 | 2,735.05 | 1/2 | 2,462.07 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,739.04 | 3/4 | 3,491.26 | 3/4 | 3,243.62 | 3/4 | 2,995.97 | 3/4 | 2,729.36 | 3/4 | 2,456.38 |
| 9 | | 9 | | 9 | | 9 | | 9 | 3,733.88 | 9 | 3,486.10 | 9 | 3,238.47 | 9 | 2,990.81 | 9 | 2,723.67 | 9 | 2,450.69 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,728.72 | 1/4 | 3,480.93 | 1/4 | 3,233.31 | 1/4 | 2,985.65 | 1/4 | 2,717.99 | 1/4 | 2,445.01 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,723.56 | 1/2 | 3,475.77 | 1/2 | 3,228.16 | 1/2 | 2,980.49 | 1/2 | 2,712.30 | 1/2 | 2,439.32 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,718.39 | 3/4 | 3,470.61 | 3/4 | 3,223.00 | 3/4 | 2,975.33 | 3/4 | 2,706.62 | 3/4 | 2,433.63 |
| 10 | | 10 | | 10 | | 10 | | 10 | 3,713.23 | 10 | 3,465.45 | 10 | 3,217.85 | 10 | 2,970.16 | 10 | 2,700.93 | 10 | 2,427.94 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,708.07 | 1/4 | 3,460.28 | 1/4 | 3,212.69 | 1/4 | 2,965.00 | 1/4 | 2,695.25 | 1/4 | 2,422.25 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,702.91 | 1/2 | 3,455.12 | 1/2 | 3,207.53 | 1/2 | 2,959.84 | 1/2 | 2,689.56 | 1/2 | 2,416.56 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,697.74 | 3/4 | 3,449.96 | 3/4 | 3,202.38 | 3/4 | 2,954.68 | 3/4 | 2,683.87 | 3/4 | 2,410.88 |
| 11 | | 11 | | 11 | | 11 | | 11 | 3,692.58 | 11 | 3,444.80 | 11 | 3,197.22 | 11 | 2,949.52 | 11 | 2,678.19 | 11 | 2,405.19 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,687.42 | 1/4 | 3,439.63 | 1/4 | 3,192.06 | 1/4 | 2,944.36 | 1/4 | 2,672.50 | 1/4 | 2,399.50 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,682.26 | 1/2 | 3,434.47 | 1/2 | 3,186.90 | 1/2 | 2,938.94 | 1/2 | 2,666.82 | 1/2 | 2,393.81 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,677.10 | 3/4 | 3,429.31 | 3/4 | 3,181.74 | 3/4 | 2,933.52 | 3/4 | 2,661.13 | 3/4 | 2,388.12 |

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 1'-00" OFF CENTERLINE AND 29'-01" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "KIRBY 11519"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-10 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 | 2,110.07 | 0 | 1,837.49 | 0 | 1,564.52 | 0 | 1,291.54 | 0 | 1,018.56 | 0 | 748.80 | 0 | 477.67 | 0 | 204.20 | 0 | | 0 | |
| 1/4 | 2,104.41 | 1/4 | 1,831.80 | 1/4 | 1,558.83 | 1/4 | 1,285.85 | 1/4 | 1,012.88 | 1/4 | 743.24 | 1/4 | 471.98 | 1/4 | 198.50 | 1/4 | | 1/4 | |
| 1/2 | 2,098.75 | 1/2 | 1,826.12 | 1/2 | 1,553.14 | 1/2 | 1,280.17 | 1/2 | 1,007.19 | 1/2 | 737.68 | 1/2 | 466.29 | 1/2 | 192.80 | 1/2 | | 1/2 | |
| 3/4 | 2,093.08 | 3/4 | 1,820.43 | 3/4 | 1,547.45 | 3/4 | 1,274.48 | 3/4 | 1,001.50 | 3/4 | 732.12 | 3/4 | 460.60 | 3/4 | 187.10 | 3/4 | | 3/4 | |
| 1 | 2,087.42 | 1 | 1,814.74 | 1 | 1,541.77 | 1 | 1,268.79 | 1 | 995.82 | 1 | 726.56 | 1 | 454.91 | 1 | 181.40 | 1 | | 1 | |
| 1/4 | 2,081.76 | 1/4 | 1,809.06 | 1/4 | 1,536.08 | 1/4 | 1,263.10 | 1/4 | 990.13 | 1/4 | 721.00 | 1/4 | 449.22 | 1/4 | 175.70 | 1/4 | | 1/4 | |
| 1/2 | 2,076.10 | 1/2 | 1,803.37 | 1/2 | 1,530.39 | 1/2 | 1,257.42 | 1/2 | 984.44 | 1/2 | 715.45 | 1/2 | 443.53 | 1/2 | 169.99 | 1/2 | | 1/2 | |
| 3/4 | 2,070.44 | 3/4 | 1,797.68 | 3/4 | 1,524.71 | 3/4 | 1,251.73 | 3/4 | 978.75 | 3/4 | 709.89 | 3/4 | 437.84 | 3/4 | 164.29 | 3/4 | | 3/4 | |
| 2 | 2,064.78 | 2 | 1,792.00 | 2 | 1,519.02 | 2 | 1,246.04 | 2 | 973.07 | 2 | 704.33 | 2 | 432.15 | 2 | 158.59 | 2 | | 2 | |
| 1/4 | 2,059.11 | 1/4 | 1,786.31 | 1/4 | 1,513.33 | 1/4 | 1,240.36 | 1/4 | 967.38 | 1/4 | 698.77 | 1/4 | 426.46 | 1/4 | 152.89 | 1/4 | | 1/4 | |
| 1/2 | 2,053.45 | 1/2 | 1,780.62 | 1/2 | 1,507.65 | 1/2 | 1,234.67 | 1/2 | 961.69 | 1/2 | 693.21 | 1/2 | 420.77 | 1/2 | 147.19 | 1/2 | | 1/2 | |
| 3/4 | 2,047.79 | 3/4 | 1,774.93 | 3/4 | 1,501.96 | 3/4 | 1,228.98 | 3/4 | 956.01 | 3/4 | 687.66 | 3/4 | 415.08 | 3/4 | 141.49 | 3/4 | | 3/4 | |
| 3 | 2,042.13 | 3 | 1,769.25 | 3 | 1,496.27 | 3 | 1,223.30 | 3 | 950.32 | 3 | 682.10 | 3 | 409.39 | 3 | 135.79 | 3 | | 3 | |
| 1/4 | 2,036.47 | 1/4 | 1,763.56 | 1/4 | 1,490.58 | 1/4 | 1,217.61 | 1/4 | 944.63 | 1/4 | 676.54 | 1/4 | 403.70 | 1/4 | 130.08 | 1/4 | | 1/4 | |
| 1/2 | 2,030.80 | 1/2 | 1,757.87 | 1/2 | 1,484.90 | 1/2 | 1,211.92 | 1/2 | 938.95 | 1/2 | 670.91 | 1/2 | 398.01 | 1/2 | 124.38 | 1/2 | | 1/2 | |
| 3/4 | 2,025.13 | 3/4 | 1,752.19 | 3/4 | 1,479.21 | 3/4 | 1,206.23 | 3/4 | 933.26 | 3/4 | 665.29 | 3/4 | 392.32 | 3/4 | 118.68 | 3/4 | | 3/4 | |
| 4 | 2,019.46 | 4 | 1,746.50 | 4 | 1,473.52 | 4 | 1,200.55 | 4 | 927.57 | 4 | 659.67 | 4 | 386.63 | 4 | 112.98 | 4 | | 4 | |
| 1/4 | 2,013.79 | 1/4 | 1,740.81 | 1/4 | 1,467.84 | 1/4 | 1,194.86 | 1/4 | 921.88 | 1/4 | 654.04 | 1/4 | 380.94 | 1/4 | 107.28 | 1/4 | | 1/4 | |
| 1/2 | 2,008.10 | 1/2 | 1,735.13 | 1/2 | 1,462.15 | 1/2 | 1,189.17 | 1/2 | 916.20 | 1/2 | 648.35 | 1/2 | 375.24 | 1/2 | 101.58 | 1/2 | | 1/2 | |
| 3/4 | 2,002.41 | 3/4 | 1,729.44 | 3/4 | 1,456.46 | 3/4 | 1,183.49 | 3/4 | 910.51 | 3/4 | 642.67 | 3/4 | 369.54 | 3/4 | 95.88 | 3/4 | | 3/4 | |
| 5 | 1,996.73 | 5 | 1,723.75 | 5 | 1,450.78 | 5 | 1,177.80 | 5 | 904.82 | 5 | 636.98 | 5 | 363.84 | 5 | 90.17 | 5 | | 5 | |
| 1/4 | 1,991.04 | 1/4 | 1,718.06 | 1/4 | 1,445.09 | 1/4 | 1,172.11 | 1/4 | 899.14 | 1/4 | 631.29 | 1/4 | 358.14 | 1/4 | 84.47 | 1/4 | | 1/4 | |
| 1/2 | 1,985.35 | 1/2 | 1,712.38 | 1/2 | 1,439.40 | 1/2 | 1,166.43 | 1/2 | 893.51 | 1/2 | 625.60 | 1/2 | 352.44 | 1/2 | 78.77 | 1/2 | | 1/2 | |
| 3/4 | 1,979.67 | 3/4 | 1,706.69 | 3/4 | 1,433.71 | 3/4 | 1,160.74 | 3/4 | 887.89 | 3/4 | 619.91 | 3/4 | 346.74 | 3/4 | 73.07 | 3/4 | | 3/4 | |
| 6 | 1,973.98 | 6 | 1,701.00 | 6 | 1,428.03 | 6 | 1,155.05 | 6 | 882.27 | 6 | 614.22 | 6 | 341.04 | 6 | 67.37 | 6 | | 6 | |
| 1/4 | 1,968.29 | 1/4 | 1,695.32 | 1/4 | 1,422.34 | 1/4 | 1,149.36 | 1/4 | 876.64 | 1/4 | 608.53 | 1/4 | 335.34 | 1/4 | 61.67 | 1/4 | | 1/4 | |
| 1/2 | 1,962.61 | 1/2 | 1,689.63 | 1/2 | 1,416.65 | 1/2 | 1,143.68 | 1/2 | 871.08 | 1/2 | 602.84 | 1/2 | 329.64 | 1/2 | 55.96 | 1/2 | | 1/2 | |
| 3/4 | 1,956.92 | 3/4 | 1,683.94 | 3/4 | 1,410.97 | 3/4 | 1,137.99 | 3/4 | 865.52 | 3/4 | 597.15 | 3/4 | 323.94 | 3/4 | 50.26 | 3/4 | | 3/4 | |
| 7 | 1,951.23 | 7 | 1,678.26 | 7 | 1,405.28 | 7 | 1,132.30 | 7 | 859.97 | 7 | 591.46 | 7 | 318.23 | 7 | 44.56 | 7 | | 7 | |
| 1/4 | 1,945.54 | 1/4 | 1,672.57 | 1/4 | 1,399.59 | 1/4 | 1,126.62 | 1/4 | 854.41 | 1/4 | 585.77 | 1/4 | 312.53 | 1/4 | 38.86 | 1/4 | | 1/4 | |
| 1/2 | 1,939.86 | 1/2 | 1,666.88 | 1/2 | 1,393.91 | 1/2 | 1,120.93 | 1/2 | 848.85 | 1/2 | 580.08 | 1/2 | 306.83 | 1/2 | 33.74 | 1/2 | | 1/2 | |
| 3/4 | 1,934.17 | 3/4 | 1,661.19 | 3/4 | 1,388.22 | 3/4 | 1,115.24 | 3/4 | 843.29 | 3/4 | 574.39 | 3/4 | 301.13 | 3/4 | 28.61 | 3/4 | | 3/4 | |
| 8 | 1,928.48 | 8 | 1,655.51 | 8 | 1,382.53 | 8 | 1,109.56 | 8 | 837.73 | 8 | 568.70 | 8 | 295.43 | 8 | 23.49 | 8 | | 8 | |
| 1/4 | 1,922.80 | 1/4 | 1,649.82 | 1/4 | 1,376.84 | 1/4 | 1,103.87 | 1/4 | 832.17 | 1/4 | 563.02 | 1/4 | 289.73 | 1/4 | 18.36 | 1/4 | | 1/4 | |
| 1/2 | 1,917.11 | 1/2 | 1,644.13 | 1/2 | 1,371.16 | 1/2 | 1,098.18 | 1/2 | 826.61 | 1/2 | 557.33 | 1/2 | 284.02 | 1/2 | 14.97 | 1/2 | | 1/2 | |
| 3/4 | 1,911.42 | 3/4 | 1,638.45 | 3/4 | 1,365.47 | 3/4 | 1,092.49 | 3/4 | 821.05 | 3/4 | 551.64 | 3/4 | 278.32 | 3/4 | 11.58 | 3/4 | | 3/4 | |
| 9 | 1,905.74 | 9 | 1,632.76 | 9 | 1,359.78 | 9 | 1,086.81 | 9 | 815.50 | 9 | 545.95 | 9 | 272.62 | 9 | 8.19 | 9 | | 9 | |
| 1/4 | 1,900.05 | 1/4 | 1,627.07 | 1/4 | 1,354.10 | 1/4 | 1,081.12 | 1/4 | 809.94 | 1/4 | 540.26 | 1/4 | 266.92 | 1/4 | 4.80 | 1/4 | | 1/4 | |
| 1/2 | 1,894.36 | 1/2 | 1,621.39 | 1/2 | 1,348.41 | 1/2 | 1,075.43 | 1/2 | 804.38 | 1/2 | 534.57 | 1/2 | 261.22 | 1/2 | 3.72 | 1/2 | | 1/2 | |
| 3/4 | 1,888.67 | 3/4 | 1,615.70 | 3/4 | 1,342.72 | 3/4 | 1,069.75 | 3/4 | 798.82 | 3/4 | 528.88 | 3/4 | 255.52 | 3/4 | 2.64 | 3/4 | | 3/4 | |
| 10 | 1,882.99 | 10 | 1,610.01 | 10 | 1,337.04 | 10 | 1,064.06 | 10 | 793.26 | 10 | 523.19 | 10 | 249.82 | 10 | 1.56 | 10 | | 10 | |
| 1/4 | 1,877.30 | 1/4 | 1,604.32 | 1/4 | 1,331.35 | 1/4 | 1,058.37 | 1/4 | 787.70 | 1/4 | 517.50 | 1/4 | 244.11 | 1/4 | 0.48 | 1/4 | | 1/4 | |
| 1/2 | 1,871.61 | 1/2 | 1,598.64 | 1/2 | 1,325.66 | 1/2 | 1,052.69 | 1/2 | 782.15 | 1/2 | 511.81 | 1/2 | 238.41 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,865.93 | 3/4 | 1,592.95 | 3/4 | 1,319.97 | 3/4 | 1,047.00 | 3/4 | 776.59 | 3/4 | 506.12 | 3/4 | 232.71 | 3/4 | | 3/4 | | 3/4 | |
| 11 | 1,860.24 | 11 | 1,587.26 | 11 | 1,314.29 | 11 | 1,041.31 | 11 | 771.03 | 11 | 500.43 | 11 | 227.01 | 11 | | 11 | | 11 | |
| 1/4 | 1,854.55 | 1/4 | 1,581.58 | 1/4 | 1,308.60 | 1/4 | 1,035.62 | 1/4 | 765.47 | 1/4 | 494.74 | 1/4 | 221.31 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,848.87 | 1/2 | 1,575.89 | 1/2 | 1,302.91 | 1/2 | 1,029.94 | 1/2 | 759.91 | 1/2 | 489.05 | 1/2 | 215.61 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,843.18 | 3/4 | 1,570.20 | 3/4 | 1,297.23 | 3/4 | 1,024.25 | 3/4 | 754.35 | 3/4 | 483.36 | 3/4 | 209.91 | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/13/2005 CL - SW
CALCULATED: 07/14/2005 CL
PRINTED: 07/14/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2005

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 11519"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-09 1/2"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. |
|-----|-------|-----|-------|-----|-------|-----|-------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 0 | | 0 | | 0 | | 0 | | 0 | 3,411.57 | 0 | 3,162.30 | 0 | 2,913.03 | 0 | 2,663.75 | 0 | 2,414.48 | 0 | 2,165.20 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,406.38 | 1/4 | 3,157.11 | 1/4 | 2,907.83 | 1/4 | 2,658.56 | 1/4 | 2,409.28 | 1/4 | 2,160.01 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,401.19 | 1/2 | 3,151.91 | 1/2 | 2,902.64 | 1/2 | 2,653.37 | 1/2 | 2,404.09 | 1/2 | 2,154.82 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,395.99 | 3/4 | 3,146.72 | 3/4 | 2,897.45 | 3/4 | 2,648.17 | 3/4 | 2,398.90 | 3/4 | 2,149.62 |
| 1 | | 1 | | 1 | | 1 | | 1 | 3,390.80 | 1 | 3,141.53 | 1 | 2,892.25 | 1 | 2,642.98 | 1 | 2,393.71 | 1 | 2,144.43 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,385.61 | 1/4 | 3,136.33 | 1/4 | 2,887.06 | 1/4 | 2,637.79 | 1/4 | 2,388.51 | 1/4 | 2,139.24 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,607.16 | 1/2 | 3,380.41 | 1/2 | 3,131.14 | 1/2 | 2,881.87 | 1/2 | 2,632.59 | 1/2 | 2,383.32 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,605.43 | 3/4 | 3,375.22 | 3/4 | 3,125.95 | 3/4 | 2,876.67 | 3/4 | 2,627.40 | 3/4 | 2,128.85 |
| 2 | | 2 | | 2 | | 2 | | 2 | 3,603.69 | 2 | 3,370.03 | 2 | 3,120.75 | 2 | 2,871.48 | 2 | 2,622.21 | 2 | 2,372.93 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,601.96 | 1/4 | 3,364.83 | 1/4 | 3,115.56 | 1/4 | 2,866.29 | 1/4 | 2,617.01 | 1/4 | 2,367.74 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,600.23 | 1/2 | 3,359.64 | 1/2 | 3,110.37 | 1/2 | 2,861.09 | 1/2 | 2,611.82 | 1/2 | 2,362.55 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,596.77 | 3/4 | 3,354.45 | 3/4 | 3,105.17 | 3/4 | 2,855.90 | 3/4 | 2,606.63 | 3/4 | 2,357.35 |
| 3 | | 3 | | 3 | | 3 | | 3 | 3,593.31 | 3 | 3,349.25 | 3 | 3,099.98 | 3 | 2,850.71 | 3 | 2,601.43 | 3 | 2,352.16 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,589.84 | 1/4 | 3,344.06 | 1/4 | 3,094.79 | 1/4 | 2,845.51 | 1/4 | 2,596.24 | 1/4 | 2,346.97 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,586.38 | 1/2 | 3,338.87 | 1/2 | 3,089.59 | 1/2 | 2,840.32 | 1/2 | 2,591.05 | 1/2 | 2,341.77 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,581.63 | 3/4 | 3,333.67 | 3/4 | 3,084.40 | 3/4 | 2,835.13 | 3/4 | 2,585.85 | 3/4 | 2,336.58 |
| 4 | | 4 | | 4 | | 4 | | 4 | 3,576.87 | 4 | 3,328.48 | 4 | 3,079.21 | 4 | 2,829.93 | 4 | 2,580.66 | 4 | 2,331.39 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,572.12 | 1/4 | 3,323.29 | 1/4 | 3,074.01 | 1/4 | 2,824.74 | 1/4 | 2,575.47 | 1/4 | 2,326.19 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,567.37 | 1/2 | 3,318.09 | 1/2 | 3,068.82 | 1/2 | 2,819.55 | 1/2 | 2,570.27 | 1/2 | 2,321.00 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,562.18 | 3/4 | 3,312.90 | 3/4 | 3,063.63 | 3/4 | 2,814.35 | 3/4 | 2,565.08 | 3/4 | 2,315.81 |
| 5 | | 5 | | 5 | | 5 | | 5 | 3,556.98 | 5 | 3,307.71 | 5 | 3,058.43 | 5 | 2,809.16 | 5 | 2,559.89 | 5 | 2,310.61 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,551.79 | 1/4 | 3,302.52 | 1/4 | 3,053.24 | 1/4 | 2,803.97 | 1/4 | 2,554.69 | 1/4 | 2,305.42 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,546.60 | 1/2 | 3,297.32 | 1/2 | 3,048.05 | 1/2 | 2,798.77 | 1/2 | 2,549.50 | 1/2 | 2,300.23 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,541.40 | 3/4 | 3,292.13 | 3/4 | 3,042.86 | 3/4 | 2,793.58 | 3/4 | 2,544.31 | 3/4 | 2,295.03 |
| 6 | | 6 | | 6 | | 6 | | 6 | 3,536.21 | 6 | 3,286.94 | 6 | 3,037.66 | 6 | 2,788.39 | 6 | 2,539.11 | 6 | 2,289.84 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,531.02 | 1/4 | 3,281.74 | 1/4 | 3,032.47 | 1/4 | 2,783.20 | 1/4 | 2,533.92 | 1/4 | 2,284.65 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,525.82 | 1/2 | 3,276.55 | 1/2 | 3,027.28 | 1/2 | 2,778.00 | 1/2 | 2,528.73 | 1/2 | 2,279.45 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,520.63 | 3/4 | 3,271.36 | 3/4 | 3,022.08 | 3/4 | 2,772.81 | 3/4 | 2,523.54 | 3/4 | 2,274.26 |
| 7 | | 7 | | 7 | | 7 | | 7 | 3,515.44 | 7 | 3,266.16 | 7 | 3,016.89 | 7 | 2,767.62 | 7 | 2,518.34 | 7 | 2,269.07 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,510.24 | 1/4 | 3,260.97 | 1/4 | 3,011.70 | 1/4 | 2,762.42 | 1/4 | 2,513.15 | 1/4 | 2,263.88 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,505.05 | 1/2 | 3,255.78 | 1/2 | 3,006.50 | 1/2 | 2,757.23 | 1/2 | 2,507.96 | 1/2 | 2,258.68 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,499.86 | 3/4 | 3,250.58 | 3/4 | 3,001.31 | 3/4 | 2,752.04 | 3/4 | 2,502.76 | 3/4 | 2,253.49 |
| 8 | | 8 | | 8 | | 8 | | 8 | 3,494.66 | 8 | 3,245.39 | 8 | 2,996.12 | 8 | 2,746.84 | 8 | 2,497.57 | 8 | 2,248.30 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,489.47 | 1/4 | 3,240.20 | 1/4 | 2,990.92 | 1/4 | 2,741.65 | 1/4 | 2,492.38 | 1/4 | 2,243.10 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,484.28 | 1/2 | 3,235.00 | 1/2 | 2,985.73 | 1/2 | 2,736.46 | 1/2 | 2,487.18 | 1/2 | 2,237.91 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,479.08 | 3/4 | 3,229.81 | 3/4 | 2,980.54 | 3/4 | 2,731.26 | 3/4 | 2,481.99 | 3/4 | 2,232.72 |
| 9 | | 9 | | 9 | | 9 | | 9 | 3,473.89 | 9 | 3,224.62 | 9 | 2,975.34 | 9 | 2,726.07 | 9 | 2,476.80 | 9 | 2,227.52 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,468.70 | 1/4 | 3,219.42 | 1/4 | 2,970.15 | 1/4 | 2,720.88 | 1/4 | 2,471.60 | 1/4 | 2,222.33 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,463.50 | 1/2 | 3,214.23 | 1/2 | 2,964.96 | 1/2 | 2,715.68 | 1/2 | 2,466.41 | 1/2 | 2,217.14 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,458.31 | 3/4 | 3,209.04 | 3/4 | 2,959.76 | 3/4 | 2,710.49 | 3/4 | 2,461.22 | 3/4 | 2,211.94 |
| 10 | | 10 | | 10 | | 10 | | 10 | 3,453.12 | 10 | 3,203.84 | 10 | 2,954.57 | 10 | 2,705.30 | 10 | 2,456.02 | 10 | 2,206.75 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,447.92 | 1/4 | 3,198.65 | 1/4 | 2,949.38 | 1/4 | 2,700.10 | 1/4 | 2,450.83 | 1/4 | 2,201.56 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,442.73 | 1/2 | 3,193.46 | 1/2 | 2,944.18 | 1/2 | 2,694.91 | 1/2 | 2,445.64 | 1/2 | 2,196.36 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,437.54 | 3/4 | 3,188.26 | 3/4 | 2,938.99 | 3/4 | 2,689.72 | 3/4 | 2,440.44 | 3/4 | 2,191.17 |
| 11 | | 11 | | 11 | | 11 | | 11 | 3,432.35 | 11 | 3,183.07 | 11 | 2,933.80 | 11 | 2,684.52 | 11 | 2,435.25 | 11 | 2,185.98 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,427.15 | 1/4 | 3,177.88 | 1/4 | 2,928.60 | 1/4 | 2,679.33 | 1/4 | 2,430.06 | 1/4 | 2,180.78 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,421.96 | 1/2 | 3,172.69 | 1/2 | 2,923.41 | 1/2 | 2,674.14 | 1/2 | 2,424.86 | 1/2 | 2,175.59 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,416.77 | 3/4 | 3,167.49 | 3/4 | 2,918.22 | 3/4 | 2,668.94 | 3/4 | 2,419.67 | 3/4 | 2,170.40 |

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 1'-00" OFF CENTERLINE AND 29'-01" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 11519"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-09 1/2"

| 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 | 1,915.93 | 0 | 1,666.66 | 0 | 1,417.38 | 0 | 1,168.11 | 0 | 918.84 | 0 | 673.83 | 0 | 426.42 | 0 | 177.17 | 0 | | 0 | |
| 1/4 | 1,910.74 | 1/4 | 1,661.46 | 1/4 | 1,412.19 | 1/4 | 1,162.92 | 1/4 | 913.64 | 1/4 | 668.78 | 1/4 | 421.23 | 1/4 | 171.98 | 1/4 | | 1/4 | |
| 1/2 | 1,905.54 | 1/2 | 1,656.27 | 1/2 | 1,407.00 | 1/2 | 1,157.72 | 1/2 | 908.45 | 1/2 | 663.74 | 1/2 | 416.03 | 1/2 | 166.78 | 1/2 | | 1/2 | |
| 3/4 | 1,900.35 | 3/4 | 1,651.08 | 3/4 | 1,401.80 | 3/4 | 1,152.53 | 3/4 | 903.26 | 3/4 | 658.70 | 3/4 | 410.84 | 3/4 | 161.59 | 3/4 | | 3/4 | |
| 1 | 1,895.16 | 1 | 1,645.88 | 1 | 1,396.61 | 1 | 1,147.34 | 1 | 898.06 | 1 | 653.66 | 1 | 405.65 | 1 | 156.40 | 1 | | 1 | |
| 1/4 | 1,889.96 | 1/4 | 1,640.69 | 1/4 | 1,391.42 | 1/4 | 1,142.14 | 1/4 | 892.87 | 1/4 | 648.62 | 1/4 | 400.46 | 1/4 | 151.21 | 1/4 | | 1/4 | |
| 1/2 | 1,884.77 | 1/2 | 1,635.50 | 1/2 | 1,386.22 | 1/2 | 1,136.95 | 1/2 | 887.68 | 1/2 | 643.58 | 1/2 | 395.26 | 1/2 | 146.01 | 1/2 | | 1/2 | |
| 3/4 | 1,879.58 | 3/4 | 1,630.30 | 3/4 | 1,381.03 | 3/4 | 1,131.76 | 3/4 | 882.48 | 3/4 | 638.54 | 3/4 | 390.07 | 3/4 | 140.82 | 3/4 | | 3/4 | |
| 2 | 1,874.39 | 2 | 1,625.11 | 2 | 1,375.84 | 2 | 1,126.56 | 2 | 877.29 | 2 | 633.50 | 2 | 384.88 | 2 | 135.63 | 2 | | 2 | |
| 1/4 | 1,869.19 | 1/4 | 1,619.92 | 1/4 | 1,370.64 | 1/4 | 1,121.37 | 1/4 | 872.10 | 1/4 | 628.46 | 1/4 | 379.69 | 1/4 | 130.44 | 1/4 | | 1/4 | |
| 1/2 | 1,864.00 | 1/2 | 1,614.73 | 1/2 | 1,365.45 | 1/2 | 1,116.18 | 1/2 | 866.90 | 1/2 | 623.42 | 1/2 | 374.49 | 1/2 | 125.24 | 1/2 | | 1/2 | |
| 3/4 | 1,858.81 | 3/4 | 1,609.53 | 3/4 | 1,360.26 | 3/4 | 1,110.98 | 3/4 | 861.71 | 3/4 | 618.30 | 3/4 | 369.30 | 3/4 | 120.05 | 3/4 | | 3/4 | |
| 3 | 1,853.61 | 3 | 1,604.34 | 3 | 1,355.07 | 3 | 1,105.79 | 3 | 856.52 | 3 | 613.19 | 3 | 364.11 | 3 | 114.86 | 3 | | 3 | |
| 1/4 | 1,848.42 | 1/4 | 1,599.15 | 1/4 | 1,349.87 | 1/4 | 1,100.60 | 1/4 | 851.32 | 1/4 | 608.07 | 1/4 | 358.91 | 1/4 | 109.66 | 1/4 | | 1/4 | |
| 1/2 | 1,843.23 | 1/2 | 1,593.95 | 1/2 | 1,344.68 | 1/2 | 1,095.41 | 1/2 | 846.13 | 1/2 | 602.95 | 1/2 | 353.72 | 1/2 | 104.47 | 1/2 | | 1/2 | |
| 3/4 | 1,838.03 | 3/4 | 1,588.76 | 3/4 | 1,339.49 | 3/4 | 1,090.21 | 3/4 | 840.94 | 3/4 | 597.76 | 3/4 | 348.53 | 3/4 | 99.28 | 3/4 | | 3/4 | |
| 4 | 1,832.84 | 4 | 1,583.57 | 4 | 1,334.29 | 4 | 1,085.02 | 4 | 835.75 | 4 | 592.57 | 4 | 343.34 | 4 | 94.09 | 4 | | 4 | |
| 1/4 | 1,827.65 | 1/4 | 1,578.37 | 1/4 | 1,329.10 | 1/4 | 1,079.83 | 1/4 | 830.55 | 1/4 | 587.38 | 1/4 | 338.14 | 1/4 | 88.89 | 1/4 | | 1/4 | |
| 1/2 | 1,822.45 | 1/2 | 1,573.18 | 1/2 | 1,323.91 | 1/2 | 1,074.63 | 1/2 | 825.36 | 1/2 | 582.19 | 1/2 | 332.95 | 1/2 | 83.70 | 1/2 | | 1/2 | |
| 3/4 | 1,817.26 | 3/4 | 1,567.99 | 3/4 | 1,318.71 | 3/4 | 1,069.44 | 3/4 | 820.24 | 3/4 | 577.00 | 3/4 | 327.76 | 3/4 | 78.51 | 3/4 | | 3/4 | |
| 5 | 1,812.07 | 5 | 1,562.79 | 5 | 1,313.52 | 5 | 1,064.25 | 5 | 815.12 | 5 | 571.80 | 5 | 322.57 | 5 | 73.32 | 5 | | 5 | |
| 1/4 | 1,806.87 | 1/4 | 1,557.60 | 1/4 | 1,308.33 | 1/4 | 1,059.05 | 1/4 | 810.01 | 1/4 | 566.61 | 1/4 | 317.37 | 1/4 | 68.12 | 1/4 | | 1/4 | |
| 1/2 | 1,801.68 | 1/2 | 1,552.41 | 1/2 | 1,303.13 | 1/2 | 1,053.86 | 1/2 | 804.89 | 1/2 | 561.42 | 1/2 | 312.18 | 1/2 | 62.93 | 1/2 | | 1/2 | |
| 3/4 | 1,796.49 | 3/4 | 1,547.21 | 3/4 | 1,297.94 | 3/4 | 1,048.67 | 3/4 | 799.85 | 3/4 | 556.23 | 3/4 | 306.99 | 3/4 | 57.74 | 3/4 | | 3/4 | |
| 6 | 1,791.29 | 6 | 1,542.02 | 6 | 1,292.75 | 6 | 1,043.47 | 6 | 794.80 | 6 | 551.04 | 6 | 301.79 | 6 | 52.55 | 6 | | 6 | |
| 1/4 | 1,786.10 | 1/4 | 1,536.83 | 1/4 | 1,287.55 | 1/4 | 1,038.28 | 1/4 | 789.76 | 1/4 | 545.85 | 1/4 | 296.60 | 1/4 | 47.35 | 1/4 | | 1/4 | |
| 1/2 | 1,780.91 | 1/2 | 1,531.63 | 1/2 | 1,282.36 | 1/2 | 1,033.09 | 1/2 | 784.72 | 1/2 | 540.66 | 1/2 | 291.41 | 1/2 | 42.16 | 1/2 | | 1/2 | |
| 3/4 | 1,775.71 | 3/4 | 1,526.44 | 3/4 | 1,277.17 | 3/4 | 1,027.89 | 3/4 | 779.68 | 3/4 | 535.47 | 3/4 | 286.22 | 3/4 | 37.40 | 3/4 | | 3/4 | |
| 7 | 1,770.52 | 7 | 1,521.25 | 7 | 1,271.97 | 7 | 1,022.70 | 7 | 774.64 | 7 | 530.27 | 7 | 281.02 | 7 | 32.64 | 7 | | 7 | |
| 1/4 | 1,765.33 | 1/4 | 1,516.05 | 1/4 | 1,266.78 | 1/4 | 1,017.51 | 1/4 | 769.60 | 1/4 | 525.08 | 1/4 | 275.83 | 1/4 | 27.88 | 1/4 | | 1/4 | |
| 1/2 | 1,760.13 | 1/2 | 1,510.86 | 1/2 | 1,261.59 | 1/2 | 1,012.31 | 1/2 | 764.56 | 1/2 | 519.89 | 1/2 | 270.64 | 1/2 | 23.12 | 1/2 | | 1/2 | |
| 3/4 | 1,754.94 | 3/4 | 1,505.67 | 3/4 | 1,256.39 | 3/4 | 1,007.12 | 3/4 | 759.52 | 3/4 | 514.70 | 3/4 | 265.45 | 3/4 | 19.66 | 3/4 | | 3/4 | |
| 8 | 1,749.75 | 8 | 1,500.47 | 8 | 1,251.20 | 8 | 1,001.93 | 8 | 754.48 | 8 | 509.50 | 8 | 260.25 | 8 | 16.20 | 8 | | 8 | |
| 1/4 | 1,744.56 | 1/4 | 1,495.28 | 1/4 | 1,246.01 | 1/4 | 996.73 | 1/4 | 749.43 | 1/4 | 504.31 | 1/4 | 255.06 | 1/4 | 12.74 | 1/4 | | 1/4 | |
| 1/2 | 1,739.36 | 1/2 | 1,490.09 | 1/2 | 1,240.81 | 1/2 | 991.54 | 1/2 | 744.39 | 1/2 | 499.12 | 1/2 | 249.87 | 1/2 | 9.27 | 1/2 | | 1/2 | |
| 3/4 | 1,734.17 | 3/4 | 1,484.90 | 3/4 | 1,235.62 | 3/4 | 986.35 | 3/4 | 739.35 | 3/4 | 493.92 | 3/4 | 244.68 | 3/4 | 7.54 | 3/4 | | 3/4 | |
| 9 | 1,728.98 | 9 | 1,479.70 | 9 | 1,230.43 | 9 | 981.15 | 9 | 734.31 | 9 | 488.73 | 9 | 239.48 | 9 | 5.81 | 9 | | 9 | |
| 1/4 | 1,723.78 | 1/4 | 1,474.51 | 1/4 | 1,225.24 | 1/4 | 975.96 | 1/4 | 729.27 | 1/4 | 483.54 | 1/4 | 234.29 | 1/4 | 4.08 | 1/4 | | 1/4 | |
| 1/2 | 1,718.59 | 1/2 | 1,469.32 | 1/2 | 1,220.04 | 1/2 | 970.77 | 1/2 | 724.23 | 1/2 | 478.35 | 1/2 | 229.10 | 1/2 | 2.35 | 1/2 | | 1/2 | |
| 3/4 | 1,713.40 | 3/4 | 1,464.12 | 3/4 | 1,214.85 | 3/4 | 965.58 | 3/4 | 719.19 | 3/4 | 473.15 | 3/4 | 223.90 | 3/4 | | 3/4 | | 3/4 | |
| 10 | 1,708.20 | 10 | 1,458.93 | 10 | 1,209.66 | 10 | 960.38 | 10 | 714.15 | 10 | 467.96 | 10 | 218.71 | 10 | | 10 | | 10 | |
| 1/4 | 1,703.01 | 1/4 | 1,453.74 | 1/4 | 1,204.46 | 1/4 | 955.19 | 1/4 | 709.11 | 1/4 | 462.77 | 1/4 | 213.52 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,697.82 | 1/2 | 1,448.54 | 1/2 | 1,199.27 | 1/2 | 950.00 | 1/2 | 704.07 | 1/2 | 457.58 | 1/2 | 208.33 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,692.62 | 3/4 | 1,443.35 | 3/4 | 1,194.08 | 3/4 | 944.80 | 3/4 | 699.03 | 3/4 | 452.38 | 3/4 | 203.13 | 3/4 | | 3/4 | | 3/4 | |
| 11 | 1,687.43 | 11 | 1,438.16 | 11 | 1,188.88 | 11 | 939.61 | 11 | 693.99 | 11 | 447.19 | 11 | 197.94 | 11 | | 11 | | 11 | |
| 1/4 | 1,682.24 | 1/4 | 1,432.96 | 1/4 | 1,183.69 | 1/4 | 934.42 | 1/4 | 688.95 | 1/4 | 442.00 | 1/4 | 192.75 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,677.04 | 1/2 | 1,427.77 | 1/2 | 1,178.50 | 1/2 | 929.22 | 1/2 | 683.91 | 1/2 | 436.81 | 1/2 | 187.56 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,671.85 | 3/4 | 1,422.58 | 3/4 | 1,173.30 | 3/4 | 924.03 | 3/4 | 678.87 | 3/4 | 431.61 | 3/4 | 182.36 | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/13/2005 CL - SW
CALCULATED: 07/14/2005 CL
PRINTED: 07/14/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2005

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "KIRBY 11519"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-09 3/4"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. |
|-----|-------|-----|-------|-----|-------|-----|-------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 0 | | 0 | | 0 | | 0 | | 0 | 3,409.33 | 0 | 3,161.02 | 0 | 2,912.71 | 0 | 2,664.39 | 0 | 2,416.08 | 0 | 2,167.76 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,404.16 | 1/4 | 3,155.85 | 1/4 | 2,907.53 | 1/4 | 2,659.22 | 1/4 | 2,410.91 | 1/4 | 2,162.59 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,398.99 | 1/2 | 3,150.67 | 1/2 | 2,902.36 | 1/2 | 2,654.05 | 1/2 | 2,405.73 | 1/2 | 2,157.42 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,393.81 | 3/4 | 3,145.50 | 3/4 | 2,897.19 | 3/4 | 2,648.87 | 3/4 | 2,400.56 | 3/4 | 2,152.25 |
| 1 | | 1 | | 1 | | 1 | | 1 | 3,388.64 | 1 | 3,140.33 | 1 | 2,892.01 | 1 | 2,643.70 | 1 | 2,395.39 | 1 | 2,147.07 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,383.47 | 1/4 | 3,135.15 | 1/4 | 2,886.84 | 1/4 | 2,638.53 | 1/4 | 2,390.21 | 1/4 | 2,141.90 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,378.29 | 1/2 | 3,129.98 | 1/2 | 2,881.67 | 1/2 | 2,633.35 | 1/2 | 2,385.04 | 1/2 | 2,136.73 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,599.00 | 3/4 | 3,373.12 | 3/4 | 3,124.81 | 3/4 | 2,876.49 | 3/4 | 2,628.18 | 3/4 | 2,131.55 |
| 2 | | 2 | | 2 | | 2 | | 2 | 3,597.28 | 2 | 3,367.95 | 2 | 3,119.63 | 2 | 2,871.32 | 2 | 2,623.01 | 2 | 2,126.38 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,595.55 | 1/4 | 3,362.77 | 1/4 | 3,114.46 | 1/4 | 2,866.15 | 1/4 | 2,617.83 | 1/4 | 2,121.21 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,593.83 | 1/2 | 3,357.60 | 1/2 | 3,109.29 | 1/2 | 2,860.97 | 1/2 | 2,612.66 | 1/2 | 2,116.03 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,592.11 | 3/4 | 3,352.43 | 3/4 | 3,104.11 | 3/4 | 2,855.80 | 3/4 | 2,607.49 | 3/4 | 2,110.86 |
| 3 | | 3 | | 3 | | 3 | | 3 | 3,588.66 | 3 | 3,347.25 | 3 | 3,098.94 | 3 | 2,850.63 | 3 | 2,602.31 | 3 | 2,105.69 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,585.21 | 1/4 | 3,342.08 | 1/4 | 3,093.77 | 1/4 | 2,845.45 | 1/4 | 2,597.14 | 1/4 | 2,100.51 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,581.76 | 1/2 | 3,336.91 | 1/2 | 3,088.59 | 1/2 | 2,840.28 | 1/2 | 2,591.97 | 1/2 | 2,095.34 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,578.32 | 3/4 | 3,331.73 | 3/4 | 3,083.42 | 3/4 | 2,835.11 | 3/4 | 2,586.79 | 3/4 | 2,090.17 |
| 4 | | 4 | | 4 | | 4 | | 4 | 3,573.58 | 4 | 3,326.56 | 4 | 3,078.25 | 4 | 2,829.93 | 4 | 2,581.62 | 4 | 2,084.99 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,568.84 | 1/4 | 3,321.39 | 1/4 | 3,073.07 | 1/4 | 2,824.76 | 1/4 | 2,576.45 | 1/4 | 2,079.82 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,564.10 | 1/2 | 3,316.22 | 1/2 | 3,067.90 | 1/2 | 2,819.59 | 1/2 | 2,571.27 | 1/2 | 2,074.65 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,559.36 | 3/4 | 3,311.04 | 3/4 | 3,062.73 | 3/4 | 2,814.41 | 3/4 | 2,566.10 | 3/4 | 2,069.47 |
| 5 | | 5 | | 5 | | 5 | | 5 | 3,554.18 | 5 | 3,305.87 | 5 | 3,057.56 | 5 | 2,809.24 | 5 | 2,560.93 | 5 | 2,064.30 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,549.01 | 1/4 | 3,300.70 | 1/4 | 3,052.38 | 1/4 | 2,804.07 | 1/4 | 2,555.75 | 1/4 | 2,059.13 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,543.84 | 1/2 | 3,295.52 | 1/2 | 3,047.21 | 1/2 | 2,798.90 | 1/2 | 2,550.58 | 1/2 | 2,053.95 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,538.66 | 3/4 | 3,290.35 | 3/4 | 3,042.04 | 3/4 | 2,793.72 | 3/4 | 2,545.41 | 3/4 | 2,048.78 |
| 6 | | 6 | | 6 | | 6 | | 6 | 3,533.49 | 6 | 3,285.18 | 6 | 3,036.86 | 6 | 2,788.55 | 6 | 2,540.24 | 6 | 2,043.61 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,528.32 | 1/4 | 3,280.00 | 1/4 | 3,031.69 | 1/4 | 2,783.38 | 1/4 | 2,535.06 | 1/4 | 2,038.43 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,523.14 | 1/2 | 3,274.83 | 1/2 | 3,026.52 | 1/2 | 2,778.20 | 1/2 | 2,529.89 | 1/2 | 2,033.26 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,517.97 | 3/4 | 3,269.66 | 3/4 | 3,021.34 | 3/4 | 2,773.03 | 3/4 | 2,524.72 | 3/4 | 2,028.09 |
| 7 | | 7 | | 7 | | 7 | | 7 | 3,512.80 | 7 | 3,264.48 | 7 | 3,016.17 | 7 | 2,767.86 | 7 | 2,519.54 | 7 | 2,022.92 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,507.62 | 1/4 | 3,259.31 | 1/4 | 3,011.00 | 1/4 | 2,762.68 | 1/4 | 2,514.37 | 1/4 | 2,017.74 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,502.45 | 1/2 | 3,254.14 | 1/2 | 3,005.82 | 1/2 | 2,757.51 | 1/2 | 2,509.20 | 1/2 | 2,012.57 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,497.28 | 3/4 | 3,248.96 | 3/4 | 3,000.65 | 3/4 | 2,752.34 | 3/4 | 2,504.02 | 3/4 | 2,007.40 |
| 8 | | 8 | | 8 | | 8 | | 8 | 3,492.10 | 8 | 3,243.79 | 8 | 2,995.48 | 8 | 2,747.16 | 8 | 2,498.85 | 8 | 2,002.22 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,486.93 | 1/4 | 3,238.62 | 1/4 | 2,990.30 | 1/4 | 2,741.99 | 1/4 | 2,493.68 | 1/4 | 1,997.05 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,481.76 | 1/2 | 3,233.44 | 1/2 | 2,985.13 | 1/2 | 2,736.82 | 1/2 | 2,488.50 | 1/2 | 1,991.88 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,476.58 | 3/4 | 3,228.27 | 3/4 | 2,979.96 | 3/4 | 2,731.64 | 3/4 | 2,483.33 | 3/4 | 1,986.70 |
| 9 | | 9 | | 9 | | 9 | | 9 | 3,471.41 | 9 | 3,223.10 | 9 | 2,974.78 | 9 | 2,726.47 | 9 | 2,478.16 | 9 | 1,981.53 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,466.24 | 1/4 | 3,217.92 | 1/4 | 2,969.61 | 1/4 | 2,721.30 | 1/4 | 2,472.98 | 1/4 | 1,976.36 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,461.06 | 1/2 | 3,212.75 | 1/2 | 2,964.44 | 1/2 | 2,716.12 | 1/2 | 2,467.81 | 1/2 | 1,971.18 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,455.89 | 3/4 | 3,207.58 | 3/4 | 2,959.26 | 3/4 | 2,710.95 | 3/4 | 2,462.64 | 3/4 | 1,966.01 |
| 10 | | 10 | | 10 | | 10 | | 10 | 3,450.72 | 10 | 3,202.40 | 10 | 2,954.09 | 10 | 2,705.78 | 10 | 2,457.46 | 10 | 1,960.84 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,445.55 | 1/4 | 3,197.23 | 1/4 | 2,948.92 | 1/4 | 2,700.60 | 1/4 | 2,452.29 | 1/4 | 1,955.66 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,440.37 | 1/2 | 3,192.06 | 1/2 | 2,943.74 | 1/2 | 2,695.43 | 1/2 | 2,447.12 | 1/2 | 1,950.49 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,435.20 | 3/4 | 3,186.89 | 3/4 | 2,938.57 | 3/4 | 2,690.26 | 3/4 | 2,441.94 | 3/4 | 1,945.32 |
| 11 | | 11 | | 11 | | 11 | | 11 | 3,430.03 | 11 | 3,181.71 | 11 | 2,933.40 | 11 | 2,685.08 | 11 | 2,436.77 | 11 | 1,940.14 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,424.85 | 1/4 | 3,176.54 | 1/4 | 2,928.23 | 1/4 | 2,679.91 | 1/4 | 2,431.60 | 1/4 | 1,934.97 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,419.68 | 1/2 | 3,171.37 | 1/2 | 2,923.05 | 1/2 | 2,674.74 | 1/2 | 2,426.42 | 1/2 | 1,929.80 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,414.51 | 3/4 | 3,166.19 | 3/4 | 2,917.88 | 3/4 | 2,669.57 | 3/4 | 2,421.25 | 3/4 | 1,924.62 |

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 1'-00" OFF CENTERLINE AND 29'-01" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588
<http://www.pmacorp.net>





BARGE "KIRBY 11519"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-09 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 | 1,919.45 | 0 | 1,671.14 | 0 | 1,422.82 | 0 | 1,174.51 | 0 | 926.20 | 0 | 678.15 | 0 | 429.97 | 0 | 181.68 | 0 | | 0 | |
| 1/4 | 1,914.28 | 1/4 | 1,665.96 | 1/4 | 1,417.65 | 1/4 | 1,169.34 | 1/4 | 921.02 | 1/4 | 672.98 | 1/4 | 424.80 | 1/4 | 176.50 | 1/4 | | 1/4 | |
| 1/2 | 1,909.10 | 1/2 | 1,660.79 | 1/2 | 1,412.48 | 1/2 | 1,164.16 | 1/2 | 915.85 | 1/2 | 667.82 | 1/2 | 419.63 | 1/2 | 171.33 | 1/2 | | 1/2 | |
| 3/4 | 1,903.93 | 3/4 | 1,655.62 | 3/4 | 1,407.30 | 3/4 | 1,158.99 | 3/4 | 910.68 | 3/4 | 662.66 | 3/4 | 414.46 | 3/4 | 166.16 | 3/4 | | 3/4 | |
| 1 | 1,898.76 | 1 | 1,650.44 | 1 | 1,402.13 | 1 | 1,153.82 | 1 | 905.50 | 1 | 657.49 | 1 | 409.28 | 1 | 160.98 | 1 | | 1 | |
| 1/4 | 1,893.59 | 1/4 | 1,645.27 | 1/4 | 1,396.96 | 1/4 | 1,148.64 | 1/4 | 900.33 | 1/4 | 652.33 | 1/4 | 404.11 | 1/4 | 155.81 | 1/4 | | 1/4 | |
| 1/2 | 1,888.41 | 1/2 | 1,640.10 | 1/2 | 1,391.78 | 1/2 | 1,143.47 | 1/2 | 895.16 | 1/2 | 647.17 | 1/2 | 398.94 | 1/2 | 150.64 | 1/2 | | 1/2 | |
| 3/4 | 1,883.24 | 3/4 | 1,634.93 | 3/4 | 1,386.61 | 3/4 | 1,138.30 | 3/4 | 889.98 | 3/4 | 642.01 | 3/4 | 393.76 | 3/4 | 145.47 | 3/4 | | 3/4 | |
| 2 | 1,878.07 | 2 | 1,629.75 | 2 | 1,381.44 | 2 | 1,133.12 | 2 | 884.81 | 2 | 636.84 | 2 | 388.59 | 2 | 140.29 | 2 | | 2 | |
| 1/4 | 1,872.89 | 1/4 | 1,624.58 | 1/4 | 1,376.27 | 1/4 | 1,127.95 | 1/4 | 879.64 | 1/4 | 631.68 | 1/4 | 383.42 | 1/4 | 135.12 | 1/4 | | 1/4 | |
| 1/2 | 1,867.72 | 1/2 | 1,619.41 | 1/2 | 1,371.09 | 1/2 | 1,122.78 | 1/2 | 874.46 | 1/2 | 626.52 | 1/2 | 378.25 | 1/2 | 129.95 | 1/2 | | 1/2 | |
| 3/4 | 1,862.55 | 3/4 | 1,614.23 | 3/4 | 1,365.92 | 3/4 | 1,117.61 | 3/4 | 869.29 | 3/4 | 621.35 | 3/4 | 373.07 | 3/4 | 124.77 | 3/4 | | 3/4 | |
| 3 | 1,857.37 | 3 | 1,609.06 | 3 | 1,360.75 | 3 | 1,112.43 | 3 | 864.12 | 3 | 616.19 | 3 | 367.90 | 3 | 119.60 | 3 | | 3 | |
| 1/4 | 1,852.20 | 1/4 | 1,603.89 | 1/4 | 1,355.57 | 1/4 | 1,107.26 | 1/4 | 858.95 | 1/4 | 611.02 | 1/4 | 362.73 | 1/4 | 114.43 | 1/4 | | 1/4 | |
| 1/2 | 1,847.03 | 1/2 | 1,598.71 | 1/2 | 1,350.40 | 1/2 | 1,102.09 | 1/2 | 853.77 | 1/2 | 605.85 | 1/2 | 357.55 | 1/2 | 109.26 | 1/2 | | 1/2 | |
| 3/4 | 1,841.85 | 3/4 | 1,593.54 | 3/4 | 1,345.23 | 3/4 | 1,096.91 | 3/4 | 848.60 | 3/4 | 600.68 | 3/4 | 352.38 | 3/4 | 104.08 | 3/4 | | 3/4 | |
| 4 | 1,836.68 | 4 | 1,588.37 | 4 | 1,340.05 | 4 | 1,091.74 | 4 | 843.43 | 4 | 595.51 | 4 | 347.21 | 4 | 98.91 | 4 | | 4 | |
| 1/4 | 1,831.51 | 1/4 | 1,583.19 | 1/4 | 1,334.88 | 1/4 | 1,086.57 | 1/4 | 838.25 | 1/4 | 590.34 | 1/4 | 342.04 | 1/4 | 93.74 | 1/4 | | 1/4 | |
| 1/2 | 1,826.33 | 1/2 | 1,578.02 | 1/2 | 1,329.71 | 1/2 | 1,081.39 | 1/2 | 833.08 | 1/2 | 585.16 | 1/2 | 336.86 | 1/2 | 88.56 | 1/2 | | 1/2 | |
| 3/4 | 1,821.16 | 3/4 | 1,572.85 | 3/4 | 1,324.53 | 3/4 | 1,076.22 | 3/4 | 827.91 | 3/4 | 579.99 | 3/4 | 331.69 | 3/4 | 83.39 | 3/4 | | 3/4 | |
| 5 | 1,815.99 | 5 | 1,567.67 | 5 | 1,319.36 | 5 | 1,071.05 | 5 | 822.74 | 5 | 574.82 | 5 | 326.52 | 5 | 78.22 | 5 | | 5 | |
| 1/4 | 1,810.81 | 1/4 | 1,562.50 | 1/4 | 1,314.19 | 1/4 | 1,065.87 | 1/4 | 817.57 | 1/4 | 569.65 | 1/4 | 321.34 | 1/4 | 73.04 | 1/4 | | 1/4 | |
| 1/2 | 1,805.64 | 1/2 | 1,557.33 | 1/2 | 1,309.01 | 1/2 | 1,060.70 | 1/2 | 812.40 | 1/2 | 564.47 | 1/2 | 316.17 | 1/2 | 67.87 | 1/2 | | 1/2 | |
| 3/4 | 1,800.47 | 3/4 | 1,552.15 | 3/4 | 1,303.84 | 3/4 | 1,055.53 | 3/4 | 807.23 | 3/4 | 559.30 | 3/4 | 311.00 | 3/4 | 62.70 | 3/4 | | 3/4 | |
| 6 | 1,795.29 | 6 | 1,546.98 | 6 | 1,298.67 | 6 | 1,050.35 | 6 | 802.07 | 6 | 554.13 | 6 | 305.83 | 6 | 57.53 | 6 | | 6 | |
| 1/4 | 1,790.12 | 1/4 | 1,541.81 | 1/4 | 1,293.49 | 1/4 | 1,045.18 | 1/4 | 796.90 | 1/4 | 548.95 | 1/4 | 300.65 | 1/4 | 52.35 | 1/4 | | 1/4 | |
| 1/2 | 1,784.95 | 1/2 | 1,536.63 | 1/2 | 1,288.32 | 1/2 | 1,040.01 | 1/2 | 791.74 | 1/2 | 543.78 | 1/2 | 295.48 | 1/2 | 47.18 | 1/2 | | 1/2 | |
| 3/4 | 1,779.77 | 3/4 | 1,531.46 | 3/4 | 1,283.15 | 3/4 | 1,034.83 | 3/4 | 786.57 | 3/4 | 538.61 | 3/4 | 290.31 | 3/4 | 42.01 | 3/4 | | 3/4 | |
| 7 | 1,774.60 | 7 | 1,526.29 | 7 | 1,277.97 | 7 | 1,029.66 | 7 | 781.41 | 7 | 533.43 | 7 | 285.13 | 7 | 37.27 | 7 | | 7 | |
| 1/4 | 1,769.43 | 1/4 | 1,521.11 | 1/4 | 1,272.80 | 1/4 | 1,024.49 | 1/4 | 776.25 | 1/4 | 528.26 | 1/4 | 279.96 | 1/4 | 32.52 | 1/4 | | 1/4 | |
| 1/2 | 1,764.26 | 1/2 | 1,515.94 | 1/2 | 1,267.63 | 1/2 | 1,019.31 | 1/2 | 771.08 | 1/2 | 523.09 | 1/2 | 274.79 | 1/2 | 27.78 | 1/2 | | 1/2 | |
| 3/4 | 1,759.08 | 3/4 | 1,510.77 | 3/4 | 1,262.45 | 3/4 | 1,014.14 | 3/4 | 765.92 | 3/4 | 517.91 | 3/4 | 269.62 | 3/4 | 23.04 | 3/4 | | 3/4 | |
| 8 | 1,753.91 | 8 | 1,505.60 | 8 | 1,257.28 | 8 | 1,008.97 | 8 | 760.75 | 8 | 512.74 | 8 | 264.44 | 8 | 19.59 | 8 | | 8 | |
| 1/4 | 1,748.74 | 1/4 | 1,500.42 | 1/4 | 1,252.11 | 1/4 | 1,003.79 | 1/4 | 755.59 | 1/4 | 507.57 | 1/4 | 259.27 | 1/4 | 16.14 | 1/4 | | 1/4 | |
| 1/2 | 1,743.56 | 1/2 | 1,495.25 | 1/2 | 1,246.94 | 1/2 | 998.62 | 1/2 | 750.43 | 1/2 | 502.40 | 1/2 | 254.10 | 1/2 | 12.69 | 1/2 | | 1/2 | |
| 3/4 | 1,738.39 | 3/4 | 1,490.08 | 3/4 | 1,241.76 | 3/4 | 993.45 | 3/4 | 745.27 | 3/4 | 497.22 | 3/4 | 248.92 | 3/4 | 9.25 | 3/4 | | 3/4 | |
| 9 | 1,733.22 | 9 | 1,484.90 | 9 | 1,236.59 | 9 | 988.28 | 9 | 740.10 | 9 | 492.05 | 9 | 243.75 | 9 | 7.52 | 9 | | 9 | |
| 1/4 | 1,728.04 | 1/4 | 1,479.73 | 1/4 | 1,231.42 | 1/4 | 983.10 | 1/4 | 734.94 | 1/4 | 486.88 | 1/4 | 238.58 | 1/4 | 5.80 | 1/4 | | 1/4 | |
| 1/2 | 1,722.87 | 1/2 | 1,474.56 | 1/2 | 1,226.24 | 1/2 | 977.93 | 1/2 | 729.78 | 1/2 | 481.70 | 1/2 | 233.40 | 1/2 | 4.07 | 1/2 | | 1/2 | |
| 3/4 | 1,717.70 | 3/4 | 1,469.38 | 3/4 | 1,221.07 | 3/4 | 972.76 | 3/4 | 724.61 | 3/4 | 476.53 | 3/4 | 228.23 | 3/4 | 2.35 | 3/4 | | 3/4 | |
| 10 | 1,712.52 | 10 | 1,464.21 | 10 | 1,215.90 | 10 | 967.58 | 10 | 719.45 | 10 | 471.36 | 10 | 223.06 | 10 | | 10 | | 10 | |
| 1/4 | 1,707.35 | 1/4 | 1,459.04 | 1/4 | 1,210.72 | 1/4 | 962.41 | 1/4 | 714.29 | 1/4 | 466.19 | 1/4 | 217.89 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,702.18 | 1/2 | 1,453.86 | 1/2 | 1,205.55 | 1/2 | 957.24 | 1/2 | 709.12 | 1/2 | 461.01 | 1/2 | 212.71 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,697.00 | 3/4 | 1,448.69 | 3/4 | 1,200.38 | 3/4 | 952.06 | 3/4 | 703.96 | 3/4 | 455.84 | 3/4 | 207.54 | 3/4 | | 3/4 | | 3/4 | |
| 11 | 1,691.83 | 11 | 1,443.52 | 11 | 1,195.20 | 11 | 946.89 | 11 | 698.80 | 11 | 450.67 | 11 | 202.37 | 11 | | 11 | | 11 | |
| 1/4 | 1,686.66 | 1/4 | 1,438.34 | 1/4 | 1,190.03 | 1/4 | 941.72 | 1/4 | 693.64 | 1/4 | 445.49 | 1/4 | 197.19 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,681.48 | 1/2 | 1,433.17 | 1/2 | 1,184.86 | 1/2 | 936.54 | 1/2 | 688.47 | 1/2 | 440.32 | 1/2 | 192.02 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,676.31 | 3/4 | 1,428.00 | 3/4 | 1,179.68 | 3/4 | 931.37 | 3/4 | 683.31 | 3/4 | 435.15 | 3/4 | 186.85 | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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