



BARGE "MM 138"

INNAGE (HERMETIC)

| | 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 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 |
| 1 STBD | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 |
| 2 PORT | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 |
| 2 STBD | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 |
| 3 PORT | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 |
| 3 STBD | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 |

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 7'-00"
 DIFF. = 5'-00" (DOWN BY STERN)

THE CORRECTION FOR 5'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 237'-00"

May 11, 2016

**PRECISION MEASUREMENT
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BARGE "MM 138"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 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 | 21.97 | 0 | 347.17 | 0 | 709.30 | 0 | 1,075.64 | 0 | 1,441.97 | 0 | 1,808.31 | 0 | 2,174.64 | 0 | 2,540.98 | 0 | 2,907.32 | 0 | 3,273.65 |
| 1/4 | 27.15 | 1/4 | 354.49 | 1/4 | 716.93 | 1/4 | 1,083.27 | 1/4 | 1,449.60 | 1/4 | 1,815.94 | 1/4 | 2,182.27 | 1/4 | 2,548.61 | 1/4 | 2,914.95 | 1/4 | 3,281.28 |
| 1/2 | 32.32 | 1/2 | 361.81 | 1/2 | 724.57 | 1/2 | 1,090.90 | 1/2 | 1,457.24 | 1/2 | 1,823.58 | 1/2 | 2,189.91 | 1/2 | 2,556.25 | 1/2 | 2,922.58 | 1/2 | 3,288.92 |
| 3/4 | 37.50 | 3/4 | 369.13 | 3/4 | 732.20 | 3/4 | 1,098.53 | 3/4 | 1,464.87 | 3/4 | 1,831.21 | 3/4 | 2,197.54 | 3/4 | 2,563.88 | 3/4 | 2,930.21 | 3/4 | 3,296.55 |
| 1 | 42.67 | 1 | 376.45 | 1 | 739.83 | 1 | 1,106.16 | 1 | 1,472.50 | 1 | 1,838.84 | 1 | 2,205.17 | 1 | 2,571.51 | 1 | 2,937.84 | 1 | 3,304.18 |
| 1/4 | 49.17 | 1/4 | 383.80 | 1/4 | 747.46 | 1/4 | 1,113.79 | 1/4 | 1,480.13 | 1/4 | 1,846.47 | 1/4 | 2,212.80 | 1/4 | 2,579.14 | 1/4 | 2,945.47 | 1/4 | 3,311.81 |
| 1/2 | 55.66 | 1/2 | 391.16 | 1/2 | 755.10 | 1/2 | 1,121.43 | 1/2 | 1,487.77 | 1/2 | 1,854.10 | 1/2 | 2,220.44 | 1/2 | 2,586.78 | 1/2 | 2,953.11 | 1/2 | 3,319.45 |
| 3/4 | 62.16 | 3/4 | 398.51 | 3/4 | 762.73 | 3/4 | 1,129.06 | 3/4 | 1,495.40 | 3/4 | 1,861.73 | 3/4 | 2,228.07 | 3/4 | 2,594.41 | 3/4 | 2,960.74 | 3/4 | 3,327.08 |
| 2 | 68.65 | 2 | 405.86 | 2 | 770.36 | 2 | 1,136.69 | 2 | 1,503.03 | 2 | 1,869.36 | 2 | 2,235.70 | 2 | 2,602.04 | 2 | 2,968.37 | 2 | 3,334.71 |
| 1/4 | 75.35 | 1/4 | 413.30 | 1/4 | 777.99 | 1/4 | 1,144.32 | 1/4 | 1,510.66 | 1/4 | 1,876.99 | 1/4 | 2,243.33 | 1/4 | 2,609.67 | 1/4 | 2,976.00 | 1/4 | 3,342.34 |
| 1/2 | 82.05 | 1/2 | 420.75 | 1/2 | 785.61 | 1/2 | 1,151.96 | 1/2 | 1,518.30 | 1/2 | 1,884.63 | 1/2 | 2,250.97 | 1/2 | 2,617.30 | 1/2 | 2,983.64 | 1/2 | 3,349.98 |
| 3/4 | 88.75 | 3/4 | 428.19 | 3/4 | 793.24 | 3/4 | 1,159.59 | 3/4 | 1,525.93 | 3/4 | 1,892.26 | 3/4 | 2,258.60 | 3/4 | 2,624.93 | 3/4 | 2,991.27 | 3/4 | 3,357.61 |
| 3 | 95.45 | 3 | 435.63 | 3 | 800.86 | 3 | 1,167.22 | 3 | 1,533.56 | 3 | 1,899.89 | 3 | 2,266.23 | 3 | 2,632.56 | 3 | 2,998.90 | 3 | 3,365.24 |
| 1/4 | 102.18 | 1/4 | 443.10 | 1/4 | 808.50 | 1/4 | 1,174.85 | 1/4 | 1,541.19 | 1/4 | 1,907.52 | 1/4 | 2,273.86 | 1/4 | 2,640.19 | 1/4 | 3,006.53 | 1/4 | 3,372.87 |
| 1/2 | 108.91 | 1/2 | 450.58 | 1/2 | 816.14 | 1/2 | 1,182.49 | 1/2 | 1,548.82 | 1/2 | 1,915.16 | 1/2 | 2,281.50 | 1/2 | 2,647.83 | 1/2 | 3,014.17 | 1/2 | 3,380.50 |
| 3/4 | 115.63 | 3/4 | 458.05 | 3/4 | 823.77 | 3/4 | 1,190.12 | 3/4 | 1,556.45 | 3/4 | 1,922.79 | 3/4 | 2,289.13 | 3/4 | 2,655.46 | 3/4 | 3,021.80 | 3/4 | 3,388.13 |
| 4 | 122.36 | 4 | 465.52 | 4 | 831.41 | 4 | 1,197.75 | 4 | 1,564.08 | 4 | 1,930.42 | 4 | 2,296.76 | 4 | 2,663.09 | 4 | 3,029.43 | 4 | 3,395.76 |
| 1/4 | 129.19 | 1/4 | 473.09 | 1/4 | 839.04 | 1/4 | 1,205.38 | 1/4 | 1,571.71 | 1/4 | 1,938.05 | 1/4 | 2,304.39 | 1/4 | 2,670.72 | 1/4 | 3,037.06 | 1/4 | 3,403.39 |
| 1/2 | 136.01 | 1/2 | 480.66 | 1/2 | 846.68 | 1/2 | 1,213.02 | 1/2 | 1,579.35 | 1/2 | 1,945.69 | 1/2 | 2,312.02 | 1/2 | 2,678.36 | 1/2 | 3,044.70 | 1/2 | 3,411.03 |
| 3/4 | 142.84 | 3/4 | 488.23 | 3/4 | 854.31 | 3/4 | 1,220.65 | 3/4 | 1,586.98 | 3/4 | 1,953.32 | 3/4 | 2,319.65 | 3/4 | 2,685.99 | 3/4 | 3,052.33 | 3/4 | 3,418.66 |
| 5 | 149.66 | 5 | 495.80 | 5 | 861.94 | 5 | 1,228.28 | 5 | 1,594.61 | 5 | 1,960.95 | 5 | 2,327.28 | 5 | 2,693.62 | 5 | 3,059.96 | 5 | 3,426.29 |
| 1/4 | 156.51 | 1/4 | 503.38 | 1/4 | 869.57 | 1/4 | 1,235.91 | 1/4 | 1,602.24 | 1/4 | 1,968.58 | 1/4 | 2,334.91 | 1/4 | 2,701.25 | 1/4 | 3,067.59 | 1/4 | 3,433.92 |
| 1/2 | 163.37 | 1/2 | 510.97 | 1/2 | 877.21 | 1/2 | 1,243.54 | 1/2 | 1,609.88 | 1/2 | 1,976.22 | 1/2 | 2,342.55 | 1/2 | 2,708.89 | 1/2 | 3,075.22 | 1/2 | 3,441.56 |
| 3/4 | 170.22 | 3/4 | 518.55 | 3/4 | 884.84 | 3/4 | 1,251.17 | 3/4 | 1,617.51 | 3/4 | 1,983.85 | 3/4 | 2,350.18 | 3/4 | 2,716.52 | 3/4 | 3,082.85 | 3/4 | 3,449.19 |
| 6 | 177.07 | 6 | 526.13 | 6 | 892.47 | 6 | 1,258.80 | 6 | 1,625.14 | 6 | 1,991.48 | 6 | 2,357.81 | 6 | 2,724.15 | 6 | 3,090.48 | 6 | 3,456.82 |
| 1/4 | 184.02 | 1/4 | 533.76 | 1/4 | 900.10 | 1/4 | 1,266.43 | 1/4 | 1,632.77 | 1/4 | 1,999.11 | 1/4 | 2,365.44 | 1/4 | 2,731.78 | 1/4 | 3,098.11 | 1/4 | 3,464.45 |
| 1/2 | 190.97 | 1/2 | 541.40 | 1/2 | 907.74 | 1/2 | 1,274.07 | 1/2 | 1,640.41 | 1/2 | 2,006.74 | 1/2 | 2,373.08 | 1/2 | 2,739.42 | 1/2 | 3,105.75 | 1/2 | 3,472.09 |
| 3/4 | 197.91 | 3/4 | 549.03 | 3/4 | 915.37 | 3/4 | 1,281.70 | 3/4 | 1,648.04 | 3/4 | 2,014.37 | 3/4 | 2,380.71 | 3/4 | 2,747.05 | 3/4 | 3,113.38 | 3/4 | 3,479.72 |
| 7 | 204.86 | 7 | 556.66 | 7 | 923.00 | 7 | 1,289.33 | 7 | 1,655.67 | 7 | 2,022.00 | 7 | 2,388.34 | 7 | 2,754.68 | 7 | 3,121.01 | 7 | 3,487.35 |
| 1/4 | 211.84 | 1/4 | 564.29 | 1/4 | 930.63 | 1/4 | 1,296.96 | 1/4 | 1,663.30 | 1/4 | 2,029.63 | 1/4 | 2,395.97 | 1/4 | 2,762.31 | 1/4 | 3,128.64 | 1/4 | 3,494.98 |
| 1/2 | 218.82 | 1/2 | 571.93 | 1/2 | 938.26 | 1/2 | 1,304.60 | 1/2 | 1,670.94 | 1/2 | 2,037.27 | 1/2 | 2,403.61 | 1/2 | 2,769.94 | 1/2 | 3,136.28 | 1/2 | 3,502.62 |
| 3/4 | 225.80 | 3/4 | 579.56 | 3/4 | 945.89 | 3/4 | 1,312.23 | 3/4 | 1,678.57 | 3/4 | 2,044.90 | 3/4 | 2,411.24 | 3/4 | 2,777.57 | 3/4 | 3,143.91 | 3/4 | 3,510.25 |
| 8 | 232.78 | 8 | 587.19 | 8 | 953.52 | 8 | 1,319.86 | 8 | 1,686.20 | 8 | 2,052.53 | 8 | 2,418.87 | 8 | 2,785.20 | 8 | 3,151.54 | 8 | 3,517.88 |
| 1/4 | 239.85 | 1/4 | 594.82 | 1/4 | 961.15 | 1/4 | 1,327.49 | 1/4 | 1,693.83 | 1/4 | 2,060.16 | 1/4 | 2,426.50 | 1/4 | 2,792.83 | 1/4 | 3,159.17 | 1/4 | 3,525.51 |
| 1/2 | 246.93 | 1/2 | 602.46 | 1/2 | 968.79 | 1/2 | 1,335.13 | 1/2 | 1,701.46 | 1/2 | 2,067.80 | 1/2 | 2,434.14 | 1/2 | 2,800.47 | 1/2 | 3,166.81 | 1/2 | 3,533.14 |
| 3/4 | 254.00 | 3/4 | 610.09 | 3/4 | 976.42 | 3/4 | 1,342.76 | 3/4 | 1,709.09 | 3/4 | 2,075.43 | 3/4 | 2,441.77 | 3/4 | 2,808.10 | 3/4 | 3,174.44 | 3/4 | 3,540.77 |
| 9 | 261.07 | 9 | 617.72 | 9 | 984.05 | 9 | 1,350.39 | 9 | 1,716.72 | 9 | 2,083.06 | 9 | 2,449.40 | 9 | 2,815.73 | 9 | 3,182.07 | 9 | 3,548.40 |
| 1/4 | 268.17 | 1/4 | 625.35 | 1/4 | 991.68 | 1/4 | 1,358.02 | 1/4 | 1,724.35 | 1/4 | 2,090.69 | 1/4 | 2,457.03 | 1/4 | 2,823.36 | 1/4 | 3,189.70 | 1/4 | 3,556.03 |
| 1/2 | 275.28 | 1/2 | 632.98 | 1/2 | 999.32 | 1/2 | 1,365.66 | 1/2 | 1,731.99 | 1/2 | 2,098.33 | 1/2 | 2,464.66 | 1/2 | 2,831.00 | 1/2 | 3,197.34 | 1/2 | 3,563.67 |
| 3/4 | 282.38 | 3/4 | 640.61 | 3/4 | 1,006.95 | 3/4 | 1,373.29 | 3/4 | 1,739.62 | 3/4 | 2,105.96 | 3/4 | 2,472.29 | 3/4 | 2,838.63 | 3/4 | 3,204.97 | 3/4 | 3,571.30 |
| 10 | 289.48 | 10 | 648.24 | 10 | 1,014.58 | 10 | 1,380.92 | 10 | 1,747.25 | 10 | 2,113.59 | 10 | 2,479.92 | 10 | 2,846.26 | 10 | 3,212.60 | 10 | 3,578.93 |
| 1/4 | 296.68 | 1/4 | 655.87 | 1/4 | 1,022.21 | 1/4 | 1,388.55 | 1/4 | 1,754.88 | 1/4 | 2,121.22 | 1/4 | 2,487.55 | 1/4 | 2,853.89 | 1/4 | 3,220.23 | 1/4 | 3,586.56 |
| 1/2 | 303.87 | 1/2 | 663.51 | 1/2 | 1,029.85 | 1/2 | 1,396.18 | 1/2 | 1,762.52 | 1/2 | 2,128.86 | 1/2 | 2,495.19 | 1/2 | 2,861.53 | 1/2 | 3,227.86 | 1/2 | 3,594.20 |
| 3/4 | 311.07 | 3/4 | 671.14 | 3/4 | 1,037.48 | 3/4 | 1,403.81 | 3/4 | 1,770.15 | 3/4 | 2,136.49 | 3/4 | 2,502.82 | 3/4 | 2,869.16 | 3/4 | 3,235.49 | 3/4 | 3,601.83 |
| 11 | 318.26 | 11 | 678.77 | 11 | 1,045.11 | 11 | 1,411.44 | 11 | 1,777.78 | 11 | 2,144.12 | 11 | 2,510.45 | 11 | 2,876.79 | 11 | 3,243.12 | 11 | 3,609.46 |
| 1/4 | 325.49 | 1/4 | 686.40 | 1/4 | 1,052.74 | 1/4 | 1,419.07 | 1/4 | 1,785.41 | 1/4 | 2,151.75 | 1/4 | 2,518.08 | 1/4 | 2,884.42 | 1/4 | 3,250.75 | 1/4 | 3,617.09 |
| 1/2 | 332.72 | 1/2 | 694.04 | 1/2 | 1,060.38 | 1/2 | 1,426.71 | 1/2 | 1,793.05 | 1/2 | 2,159.38 | 1/2 | 2,525.72 | 1/2 | 2,892.06 | 1/2 | 3,258.39 | 1/2 | 3,624.73 |
| 3/4 | 339.94 | 3/4 | 701.67 | 3/4 | 1,068.01 | 3/4 | 1,434.34 | 3/4 | 1,800.68 | 3/4 | 2,167.01 | 3/4 | 2,533.35 | 3/4 | 2,899.69 | 3/4 | 3,266.02 | 3/4 | 3,632.36 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "MM 138"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-03 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 | 3,639.99 | 0 | 4,006.32 | 0 | 4,372.66 | 0 | 4,739.00 | 0 | 5,104.77 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 3,647.62 | 1/4 | 4,013.95 | 1/4 | 4,380.29 | 1/4 | 4,746.63 | 1/4 | 5,111.55 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,655.26 | 1/2 | 4,021.59 | 1/2 | 4,387.93 | 1/2 | 4,754.26 | 1/2 | 5,118.34 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,662.89 | 3/4 | 4,029.22 | 3/4 | 4,395.56 | 3/4 | 4,761.89 | 3/4 | 5,125.12 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 3,670.52 | 1 | 4,036.85 | 1 | 4,403.19 | 1 | 4,769.52 | 1 | 5,131.90 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 3,678.15 | 1/4 | 4,044.48 | 1/4 | 4,410.82 | 1/4 | 4,777.15 | 1/4 | 5,137.55 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,685.78 | 1/2 | 4,052.12 | 1/2 | 4,418.46 | 1/2 | 4,784.79 | 1/2 | 5,143.21 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,693.41 | 3/4 | 4,059.75 | 3/4 | 4,426.09 | 3/4 | 4,792.42 | 3/4 | 5,148.86 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 3,701.04 | 2 | 4,067.38 | 2 | 4,433.72 | 2 | 4,800.05 | 2 | 5,154.51 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 3,708.67 | 1/4 | 4,075.01 | 1/4 | 4,441.35 | 1/4 | 4,807.68 | 1/4 | 5,159.03 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,716.31 | 1/2 | 4,082.65 | 1/2 | 4,448.98 | 1/2 | 4,815.32 | 1/2 | 5,163.56 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,723.94 | 3/4 | 4,090.28 | 3/4 | 4,456.61 | 3/4 | 4,822.95 | 3/4 | 5,168.08 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 3,731.57 | 3 | 4,097.91 | 3 | 4,464.24 | 3 | 4,830.58 | 3 | 5,172.60 | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 3,739.20 | 1/4 | 4,105.54 | 1/4 | 4,471.87 | 1/4 | 4,838.21 | 1/4 | 5,175.99 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,746.84 | 1/2 | 4,113.18 | 1/2 | 4,479.51 | 1/2 | 4,845.85 | 1/2 | 5,179.38 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,754.47 | 3/4 | 4,120.81 | 3/4 | 4,487.14 | 3/4 | 4,853.48 | 3/4 | 5,182.76 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 3,762.10 | 4 | 4,128.44 | 4 | 4,494.77 | 4 | 4,861.11 | 4 | 5,186.15 | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 3,769.73 | 1/4 | 4,136.07 | 1/4 | 4,502.40 | 1/4 | 4,868.74 | 1/4 | 5,188.41 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,777.37 | 1/2 | 4,143.70 | 1/2 | 4,510.04 | 1/2 | 4,876.38 | 1/2 | 5,190.67 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,785.00 | 3/4 | 4,151.33 | 3/4 | 4,517.67 | 3/4 | 4,884.01 | 3/4 | 5,192.93 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 3,792.63 | 5 | 4,158.96 | 5 | 4,525.30 | 5 | 4,891.64 | 5 | 5,195.19 | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 3,800.26 | 1/4 | 4,166.59 | 1/4 | 4,532.93 | 1/4 | 4,899.27 | 1/4 | 5,196.35 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,807.90 | 1/2 | 4,174.23 | 1/2 | 4,540.57 | 1/2 | 4,906.90 | 1/2 | 5,197.52 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,815.53 | 3/4 | 4,181.86 | 3/4 | 4,548.20 | 3/4 | 4,914.53 | 3/4 | 5,198.68 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 3,823.16 | 6 | 4,189.49 | 6 | 4,555.83 | 6 | 4,922.16 | 6 | 5,199.84 | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 3,830.79 | 1/4 | 4,197.12 | 1/4 | 4,563.46 | 1/4 | 4,929.79 | 1/4 | 5,200.26 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,838.42 | 1/2 | 4,204.76 | 1/2 | 4,571.10 | 1/2 | 4,937.43 | 1/2 | 5,200.68 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,846.05 | 3/4 | 4,212.39 | 3/4 | 4,578.73 | 3/4 | 4,945.06 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 3,853.68 | 7 | 4,220.02 | 7 | 4,586.36 | 7 | 4,952.69 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 3,861.31 | 1/4 | 4,227.65 | 1/4 | 4,593.99 | 1/4 | 4,960.32 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,868.95 | 1/2 | 4,235.29 | 1/2 | 4,601.62 | 1/2 | 4,967.96 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,876.58 | 3/4 | 4,242.92 | 3/4 | 4,609.25 | 3/4 | 4,975.59 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 3,884.21 | 8 | 4,250.55 | 8 | 4,616.88 | 8 | 4,983.22 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 3,891.84 | 1/4 | 4,258.18 | 1/4 | 4,624.51 | 1/4 | 4,990.85 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,899.48 | 1/2 | 4,265.82 | 1/2 | 4,632.15 | 1/2 | 4,998.49 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,907.11 | 3/4 | 4,273.45 | 3/4 | 4,639.78 | 3/4 | 5,006.12 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 3,914.74 | 9 | 4,281.08 | 9 | 4,647.41 | 9 | 5,013.75 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 3,922.37 | 1/4 | 4,288.71 | 1/4 | 4,655.04 | 1/4 | 5,021.38 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,930.01 | 1/2 | 4,296.34 | 1/2 | 4,662.68 | 1/2 | 5,029.02 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,937.64 | 3/4 | 4,303.97 | 3/4 | 4,670.31 | 3/4 | 5,036.65 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 3,945.27 | 10 | 4,311.60 | 10 | 4,677.94 | 10 | 5,044.28 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 3,952.90 | 1/4 | 4,319.23 | 1/4 | 4,685.57 | 1/4 | 5,051.91 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,960.54 | 1/2 | 4,326.87 | 1/2 | 4,693.21 | 1/2 | 5,059.54 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,968.17 | 3/4 | 4,334.50 | 3/4 | 4,700.84 | 3/4 | 5,067.17 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 3,975.80 | 11 | 4,342.13 | 11 | 4,708.47 | 11 | 5,074.80 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 3,983.43 | 1/4 | 4,349.76 | 1/4 | 4,716.10 | 1/4 | 5,082.29 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,991.06 | 1/2 | 4,357.40 | 1/2 | 4,723.74 | 1/2 | 5,089.79 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,998.69 | 3/4 | 4,365.03 | 3/4 | 4,731.37 | 3/4 | 5,097.28 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

STRAPPED: 07/15/1999
DECK MEASUREMENTS: 05/11/2016 SW
PRINTED: 05/11/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MM 138"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 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 | 21.97 | 0 | 347.17 | 0 | 709.30 | 0 | 1,075.64 | 0 | 1,441.97 | 0 | 1,808.31 | 0 | 2,174.64 | 0 | 2,540.98 | 0 | 2,907.32 | 0 | 3,273.65 |
| 1/4 | 27.15 | 1/4 | 354.49 | 1/4 | 716.93 | 1/4 | 1,083.27 | 1/4 | 1,449.60 | 1/4 | 1,815.94 | 1/4 | 2,182.27 | 1/4 | 2,548.61 | 1/4 | 2,914.95 | 1/4 | 3,281.28 |
| 1/2 | 32.32 | 1/2 | 361.81 | 1/2 | 724.57 | 1/2 | 1,090.90 | 1/2 | 1,457.24 | 1/2 | 1,823.58 | 1/2 | 2,189.91 | 1/2 | 2,556.25 | 1/2 | 2,922.58 | 1/2 | 3,288.92 |
| 3/4 | 37.50 | 3/4 | 369.13 | 3/4 | 732.20 | 3/4 | 1,098.53 | 3/4 | 1,464.87 | 3/4 | 1,831.21 | 3/4 | 2,197.54 | 3/4 | 2,563.88 | 3/4 | 2,930.21 | 3/4 | 3,296.55 |
| 1 | 42.67 | 1 | 376.45 | 1 | 739.83 | 1 | 1,106.16 | 1 | 1,472.50 | 1 | 1,838.84 | 1 | 2,205.17 | 1 | 2,571.51 | 1 | 2,937.84 | 1 | 3,304.18 |
| 1/4 | 49.17 | 1/4 | 383.80 | 1/4 | 747.46 | 1/4 | 1,113.79 | 1/4 | 1,480.13 | 1/4 | 1,846.47 | 1/4 | 2,212.80 | 1/4 | 2,579.14 | 1/4 | 2,945.47 | 1/4 | 3,311.81 |
| 1/2 | 55.66 | 1/2 | 391.16 | 1/2 | 755.10 | 1/2 | 1,121.43 | 1/2 | 1,487.77 | 1/2 | 1,854.10 | 1/2 | 2,220.44 | 1/2 | 2,586.78 | 1/2 | 2,953.11 | 1/2 | 3,319.45 |
| 3/4 | 62.16 | 3/4 | 398.51 | 3/4 | 762.73 | 3/4 | 1,129.06 | 3/4 | 1,495.40 | 3/4 | 1,861.73 | 3/4 | 2,228.07 | 3/4 | 2,594.41 | 3/4 | 2,960.74 | 3/4 | 3,327.08 |
| 2 | 68.65 | 2 | 405.86 | 2 | 770.36 | 2 | 1,136.69 | 2 | 1,503.03 | 2 | 1,869.36 | 2 | 2,235.70 | 2 | 2,602.04 | 2 | 2,968.37 | 2 | 3,334.71 |
| 1/4 | 75.35 | 1/4 | 413.30 | 1/4 | 777.99 | 1/4 | 1,144.32 | 1/4 | 1,510.66 | 1/4 | 1,876.99 | 1/4 | 2,243.33 | 1/4 | 2,609.67 | 1/4 | 2,976.00 | 1/4 | 3,342.34 |
| 1/2 | 82.05 | 1/2 | 420.75 | 1/2 | 785.61 | 1/2 | 1,151.96 | 1/2 | 1,518.30 | 1/2 | 1,884.63 | 1/2 | 2,250.97 | 1/2 | 2,617.30 | 1/2 | 2,983.64 | 1/2 | 3,349.98 |
| 3/4 | 88.75 | 3/4 | 428.19 | 3/4 | 793.24 | 3/4 | 1,159.59 | 3/4 | 1,525.93 | 3/4 | 1,892.26 | 3/4 | 2,258.60 | 3/4 | 2,624.93 | 3/4 | 2,991.27 | 3/4 | 3,357.61 |
| 3 | 95.45 | 3 | 435.63 | 3 | 800.86 | 3 | 1,167.22 | 3 | 1,533.56 | 3 | 1,899.89 | 3 | 2,266.23 | 3 | 2,632.56 | 3 | 2,998.90 | 3 | 3,365.24 |
| 1/4 | 102.18 | 1/4 | 443.10 | 1/4 | 808.50 | 1/4 | 1,174.85 | 1/4 | 1,541.19 | 1/4 | 1,907.52 | 1/4 | 2,273.86 | 1/4 | 2,640.19 | 1/4 | 3,006.53 | 1/4 | 3,372.87 |
| 1/2 | 108.91 | 1/2 | 450.58 | 1/2 | 816.14 | 1/2 | 1,182.49 | 1/2 | 1,548.82 | 1/2 | 1,915.16 | 1/2 | 2,281.50 | 1/2 | 2,647.83 | 1/2 | 3,014.17 | 1/2 | 3,380.50 |
| 3/4 | 115.63 | 3/4 | 458.05 | 3/4 | 823.77 | 3/4 | 1,190.12 | 3/4 | 1,556.45 | 3/4 | 1,922.79 | 3/4 | 2,289.13 | 3/4 | 2,655.46 | 3/4 | 3,021.80 | 3/4 | 3,388.13 |
| 4 | 122.36 | 4 | 465.52 | 4 | 831.41 | 4 | 1,197.75 | 4 | 1,564.08 | 4 | 1,930.42 | 4 | 2,296.76 | 4 | 2,663.09 | 4 | 3,029.43 | 4 | 3,395.76 |
| 1/4 | 129.19 | 1/4 | 473.09 | 1/4 | 839.04 | 1/4 | 1,205.38 | 1/4 | 1,571.71 | 1/4 | 1,938.05 | 1/4 | 2,304.39 | 1/4 | 2,670.72 | 1/4 | 3,037.06 | 1/4 | 3,403.39 |
| 1/2 | 136.01 | 1/2 | 480.66 | 1/2 | 846.68 | 1/2 | 1,213.02 | 1/2 | 1,579.35 | 1/2 | 1,945.69 | 1/2 | 2,312.02 | 1/2 | 2,678.36 | 1/2 | 3,044.70 | 1/2 | 3,411.03 |
| 3/4 | 142.84 | 3/4 | 488.23 | 3/4 | 854.31 | 3/4 | 1,220.65 | 3/4 | 1,586.98 | 3/4 | 1,953.32 | 3/4 | 2,319.65 | 3/4 | 2,685.99 | 3/4 | 3,052.33 | 3/4 | 3,418.66 |
| 5 | 149.66 | 5 | 495.80 | 5 | 861.94 | 5 | 1,228.28 | 5 | 1,594.61 | 5 | 1,960.95 | 5 | 2,327.28 | 5 | 2,693.62 | 5 | 3,059.96 | 5 | 3,426.29 |
| 1/4 | 156.51 | 1/4 | 503.38 | 1/4 | 869.57 | 1/4 | 1,235.91 | 1/4 | 1,602.24 | 1/4 | 1,968.58 | 1/4 | 2,334.91 | 1/4 | 2,701.25 | 1/4 | 3,067.59 | 1/4 | 3,433.92 |
| 1/2 | 163.37 | 1/2 | 510.97 | 1/2 | 877.21 | 1/2 | 1,243.54 | 1/2 | 1,609.88 | 1/2 | 1,976.22 | 1/2 | 2,342.55 | 1/2 | 2,708.89 | 1/2 | 3,075.22 | 1/2 | 3,441.56 |
| 3/4 | 170.22 | 3/4 | 518.55 | 3/4 | 884.84 | 3/4 | 1,251.17 | 3/4 | 1,617.51 | 3/4 | 1,983.85 | 3/4 | 2,350.18 | 3/4 | 2,716.52 | 3/4 | 3,082.85 | 3/4 | 3,449.19 |
| 6 | 177.07 | 6 | 526.13 | 6 | 892.47 | 6 | 1,258.80 | 6 | 1,625.14 | 6 | 1,991.48 | 6 | 2,357.81 | 6 | 2,724.15 | 6 | 3,090.48 | 6 | 3,456.82 |
| 1/4 | 184.02 | 1/4 | 533.76 | 1/4 | 900.10 | 1/4 | 1,266.43 | 1/4 | 1,632.77 | 1/4 | 1,999.11 | 1/4 | 2,365.44 | 1/4 | 2,731.78 | 1/4 | 3,098.11 | 1/4 | 3,464.45 |
| 1/2 | 190.97 | 1/2 | 541.40 | 1/2 | 907.74 | 1/2 | 1,274.07 | 1/2 | 1,640.41 | 1/2 | 2,006.74 | 1/2 | 2,373.08 | 1/2 | 2,739.42 | 1/2 | 3,105.75 | 1/2 | 3,472.09 |
| 3/4 | 197.91 | 3/4 | 549.03 | 3/4 | 915.37 | 3/4 | 1,281.70 | 3/4 | 1,648.04 | 3/4 | 2,014.37 | 3/4 | 2,380.71 | 3/4 | 2,747.05 | 3/4 | 3,113.38 | 3/4 | 3,479.72 |
| 7 | 204.86 | 7 | 556.66 | 7 | 923.00 | 7 | 1,289.33 | 7 | 1,655.67 | 7 | 2,022.00 | 7 | 2,388.34 | 7 | 2,754.68 | 7 | 3,121.01 | 7 | 3,487.35 |
| 1/4 | 211.84 | 1/4 | 564.29 | 1/4 | 930.63 | 1/4 | 1,296.96 | 1/4 | 1,663.30 | 1/4 | 2,029.63 | 1/4 | 2,395.97 | 1/4 | 2,762.31 | 1/4 | 3,128.64 | 1/4 | 3,494.98 |
| 1/2 | 218.82 | 1/2 | 571.93 | 1/2 | 938.26 | 1/2 | 1,304.60 | 1/2 | 1,670.94 | 1/2 | 2,037.27 | 1/2 | 2,403.61 | 1/2 | 2,769.94 | 1/2 | 3,136.28 | 1/2 | 3,502.62 |
| 3/4 | 225.80 | 3/4 | 579.56 | 3/4 | 945.89 | 3/4 | 1,312.23 | 3/4 | 1,678.57 | 3/4 | 2,044.90 | 3/4 | 2,411.24 | 3/4 | 2,777.57 | 3/4 | 3,143.91 | 3/4 | 3,510.25 |
| 8 | 232.78 | 8 | 587.19 | 8 | 953.52 | 8 | 1,319.86 | 8 | 1,686.20 | 8 | 2,052.53 | 8 | 2,418.87 | 8 | 2,785.20 | 8 | 3,151.54 | 8 | 3,517.88 |
| 1/4 | 239.85 | 1/4 | 594.82 | 1/4 | 961.15 | 1/4 | 1,327.49 | 1/4 | 1,693.83 | 1/4 | 2,060.16 | 1/4 | 2,426.50 | 1/4 | 2,792.83 | 1/4 | 3,159.17 | 1/4 | 3,525.51 |
| 1/2 | 246.93 | 1/2 | 602.46 | 1/2 | 968.79 | 1/2 | 1,335.13 | 1/2 | 1,701.46 | 1/2 | 2,067.80 | 1/2 | 2,434.14 | 1/2 | 2,800.47 | 1/2 | 3,166.81 | 1/2 | 3,533.14 |
| 3/4 | 254.00 | 3/4 | 610.09 | 3/4 | 976.42 | 3/4 | 1,342.76 | 3/4 | 1,709.09 | 3/4 | 2,075.43 | 3/4 | 2,441.77 | 3/4 | 2,808.10 | 3/4 | 3,174.44 | 3/4 | 3,540.77 |
| 9 | 261.07 | 9 | 617.72 | 9 | 984.05 | 9 | 1,350.39 | 9 | 1,716.72 | 9 | 2,083.06 | 9 | 2,449.40 | 9 | 2,815.73 | 9 | 3,182.07 | 9 | 3,548.40 |
| 1/4 | 268.17 | 1/4 | 625.35 | 1/4 | 991.68 | 1/4 | 1,358.02 | 1/4 | 1,724.35 | 1/4 | 2,090.69 | 1/4 | 2,457.03 | 1/4 | 2,823.36 | 1/4 | 3,189.70 | 1/4 | 3,556.03 |
| 1/2 | 275.28 | 1/2 | 632.98 | 1/2 | 999.32 | 1/2 | 1,365.66 | 1/2 | 1,731.99 | 1/2 | 2,098.33 | 1/2 | 2,464.66 | 1/2 | 2,831.00 | 1/2 | 3,197.34 | 1/2 | 3,563.67 |
| 3/4 | 282.38 | 3/4 | 640.61 | 3/4 | 1,006.95 | 3/4 | 1,373.29 | 3/4 | 1,739.62 | 3/4 | 2,105.96 | 3/4 | 2,472.29 | 3/4 | 2,838.63 | 3/4 | 3,204.97 | 3/4 | 3,571.30 |
| 10 | 289.48 | 10 | 648.24 | 10 | 1,014.58 | 10 | 1,380.92 | 10 | 1,747.25 | 10 | 2,113.59 | 10 | 2,479.92 | 10 | 2,846.26 | 10 | 3,212.60 | 10 | 3,578.93 |
| 1/4 | 296.68 | 1/4 | 655.87 | 1/4 | 1,022.21 | 1/4 | 1,388.55 | 1/4 | 1,754.88 | 1/4 | 2,121.22 | 1/4 | 2,487.55 | 1/4 | 2,853.89 | 1/4 | 3,220.23 | 1/4 | 3,586.56 |
| 1/2 | 303.87 | 1/2 | 663.51 | 1/2 | 1,029.85 | 1/2 | 1,396.18 | 1/2 | 1,762.52 | 1/2 | 2,128.86 | 1/2 | 2,495.19 | 1/2 | 2,861.53 | 1/2 | 3,227.86 | 1/2 | 3,594.20 |
| 3/4 | 311.07 | 3/4 | 671.14 | 3/4 | 1,037.48 | 3/4 | 1,403.81 | 3/4 | 1,770.15 | 3/4 | 2,136.49 | 3/4 | 2,502.82 | 3/4 | 2,869.16 | 3/4 | 3,235.49 | 3/4 | 3,601.83 |
| 11 | 318.26 | 11 | 678.77 | 11 | 1,045.11 | 11 | 1,411.44 | 11 | 1,777.78 | 11 | 2,144.12 | 11 | 2,510.45 | 11 | 2,876.79 | 11 | 3,243.12 | 11 | 3,609.46 |
| 1/4 | 325.49 | 1/4 | 686.40 | 1/4 | 1,052.74 | 1/4 | 1,419.07 | 1/4 | 1,785.41 | 1/4 | 2,151.75 | 1/4 | 2,518.08 | 1/4 | 2,884.42 | 1/4 | 3,250.75 | 1/4 | 3,617.09 |
| 1/2 | 332.72 | 1/2 | 694.04 | 1/2 | 1,060.38 | 1/2 | 1,426.71 | 1/2 | 1,793.05 | 1/2 | 2,159.38 | 1/2 | 2,525.72 | 1/2 | 2,892.06 | 1/2 | 3,258.39 | 1/2 | 3,624.73 |
| 3/4 | 339.94 | 3/4 | 701.67 | 3/4 | 1,068.01 | 3/4 | 1,434.34 | 3/4 | 1,800.68 | 3/4 | 2,167.01 | 3/4 | 2,533.35 | 3/4 | 2,899.69 | 3/4 | 3,266.02 | 3/4 | 3,632.36 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "MM 138"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 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 | 3,639.99 | 0 | 4,006.32 | 0 | 4,372.66 | 0 | 4,739.00 | 0 | 5,104.77 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 3,647.62 | 1/4 | 4,013.95 | 1/4 | 4,380.29 | 1/4 | 4,746.63 | 1/4 | 5,111.55 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,655.26 | 1/2 | 4,021.59 | 1/2 | 4,387.93 | 1/2 | 4,754.26 | 1/2 | 5,118.34 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,662.89 | 3/4 | 4,029.22 | 3/4 | 4,395.56 | 3/4 | 4,761.89 | 3/4 | 5,125.12 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 3,670.52 | 1 | 4,036.85 | 1 | 4,403.19 | 1 | 4,769.52 | 1 | 5,131.90 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 3,678.15 | 1/4 | 4,044.48 | 1/4 | 4,410.82 | 1/4 | 4,777.15 | 1/4 | 5,137.55 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,685.78 | 1/2 | 4,052.12 | 1/2 | 4,418.46 | 1/2 | 4,784.79 | 1/2 | 5,143.21 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,693.41 | 3/4 | 4,059.75 | 3/4 | 4,426.09 | 3/4 | 4,792.42 | 3/4 | 5,148.86 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 3,701.04 | 2 | 4,067.38 | 2 | 4,433.72 | 2 | 4,800.05 | 2 | 5,154.51 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 3,708.67 | 1/4 | 4,075.01 | 1/4 | 4,441.35 | 1/4 | 4,807.68 | 1/4 | 5,159.03 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,716.31 | 1/2 | 4,082.65 | 1/2 | 4,448.98 | 1/2 | 4,815.32 | 1/2 | 5,163.56 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,723.94 | 3/4 | 4,090.28 | 3/4 | 4,456.61 | 3/4 | 4,822.95 | 3/4 | 5,168.08 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 3,731.57 | 3 | 4,097.91 | 3 | 4,464.24 | 3 | 4,830.58 | 3 | 5,172.60 | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 3,739.20 | 1/4 | 4,105.54 | 1/4 | 4,471.87 | 1/4 | 4,838.21 | 1/4 | 5,175.99 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,746.84 | 1/2 | 4,113.18 | 1/2 | 4,479.51 | 1/2 | 4,845.85 | 1/2 | 5,179.38 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,754.47 | 3/4 | 4,120.81 | 3/4 | 4,487.14 | 3/4 | 4,853.48 | 3/4 | 5,182.76 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 3,762.10 | 4 | 4,128.44 | 4 | 4,494.77 | 4 | 4,861.11 | 4 | 5,186.15 | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 3,769.73 | 1/4 | 4,136.07 | 1/4 | 4,502.40 | 1/4 | 4,868.74 | 1/4 | 5,188.41 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,777.37 | 1/2 | 4,143.70 | 1/2 | 4,510.04 | 1/2 | 4,876.38 | 1/2 | 5,190.67 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,785.00 | 3/4 | 4,151.33 | 3/4 | 4,517.67 | 3/4 | 4,884.01 | 3/4 | 5,192.93 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 3,792.63 | 5 | 4,158.96 | 5 | 4,525.30 | 5 | 4,891.64 | 5 | 5,195.19 | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 3,800.26 | 1/4 | 4,166.59 | 1/4 | 4,532.93 | 1/4 | 4,899.27 | 1/4 | 5,196.35 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,807.90 | 1/2 | 4,174.23 | 1/2 | 4,540.57 | 1/2 | 4,906.90 | 1/2 | 5,197.52 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,815.53 | 3/4 | 4,181.86 | 3/4 | 4,548.20 | 3/4 | 4,914.53 | 3/4 | 5,198.68 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 3,823.16 | 6 | 4,189.49 | 6 | 4,555.83 | 6 | 4,922.16 | 6 | 5,199.84 | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 3,830.79 | 1/4 | 4,197.12 | 1/4 | 4,563.46 | 1/4 | 4,929.79 | 1/4 | 5,200.26 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,838.42 | 1/2 | 4,204.76 | 1/2 | 4,571.10 | 1/2 | 4,937.43 | 1/2 | 5,200.68 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,846.05 | 3/4 | 4,212.39 | 3/4 | 4,578.73 | 3/4 | 4,945.06 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 3,853.68 | 7 | 4,220.02 | 7 | 4,586.36 | 7 | 4,952.69 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 3,861.31 | 1/4 | 4,227.65 | 1/4 | 4,593.99 | 1/4 | 4,960.32 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,868.95 | 1/2 | 4,235.29 | 1/2 | 4,601.62 | 1/2 | 4,967.96 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,876.58 | 3/4 | 4,242.92 | 3/4 | 4,609.25 | 3/4 | 4,975.59 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 3,884.21 | 8 | 4,250.55 | 8 | 4,616.88 | 8 | 4,983.22 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 3,891.84 | 1/4 | 4,258.18 | 1/4 | 4,624.51 | 1/4 | 4,990.85 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,899.48 | 1/2 | 4,265.82 | 1/2 | 4,632.15 | 1/2 | 4,998.49 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,907.11 | 3/4 | 4,273.45 | 3/4 | 4,639.78 | 3/4 | 5,006.12 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 3,914.74 | 9 | 4,281.08 | 9 | 4,647.41 | 9 | 5,013.75 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 3,922.37 | 1/4 | 4,288.71 | 1/4 | 4,655.04 | 1/4 | 5,021.38 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,930.01 | 1/2 | 4,296.34 | 1/2 | 4,662.68 | 1/2 | 5,029.02 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,937.64 | 3/4 | 4,303.97 | 3/4 | 4,670.31 | 3/4 | 5,036.65 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 3,945.27 | 10 | 4,311.60 | 10 | 4,677.94 | 10 | 5,044.28 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 3,952.90 | 1/4 | 4,319.23 | 1/4 | 4,685.57 | 1/4 | 5,051.91 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,960.54 | 1/2 | 4,326.87 | 1/2 | 4,693.21 | 1/2 | 5,059.54 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,968.17 | 3/4 | 4,334.50 | 3/4 | 4,700.84 | 3/4 | 5,067.17 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 3,975.80 | 11 | 4,342.13 | 11 | 4,708.47 | 11 | 5,074.80 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 3,983.43 | 1/4 | 4,349.76 | 1/4 | 4,716.10 | 1/4 | 5,082.29 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,991.06 | 1/2 | 4,357.40 | 1/2 | 4,723.74 | 1/2 | 5,089.79 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,998.69 | 3/4 | 4,365.03 | 3/4 | 4,731.37 | 3/4 | 5,097.28 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

STRAPPED: 07/15/1999
DECK MEASUREMENTS: 05/11/2016 SW
PRINTED: 05/11/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MM 138"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 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 | 16.35 | 0 | 360.86 | 0 | 694.59 | 0 | 1,038.32 | 0 | 1,382.04 | 0 | 1,725.99 | 0 | 2,069.50 | 0 | 2,413.23 | 0 | 2,756.96 | 0 | 3,100.68 |
| 1/4 | 21.46 | 1/4 | 365.52 | 1/4 | 701.75 | 1/4 | 1,045.48 | 1/4 | 1,389.20 | 1/4 | 1,733.10 | 1/4 | 2,076.66 | 1/4 | 2,420.39 | 1/4 | 2,764.12 | 1/4 | 3,107.84 |
| 1/2 | 26.58 | 1/2 | 370.18 | 1/2 | 708.91 | 1/2 | 1,052.64 | 1/2 | 1,396.37 | 1/2 | 1,740.21 | 1/2 | 2,083.82 | 1/2 | 2,427.55 | 1/2 | 2,771.28 | 1/2 | 3,115.00 |
| 3/4 | 31.69 | 3/4 | 374.84 | 3/4 | 716.07 | 3/4 | 1,059.80 | 3/4 | 1,403.53 | 3/4 | 1,747.31 | 3/4 | 2,090.98 | 3/4 | 2,434.71 | 3/4 | 2,778.44 | 3/4 | 3,122.17 |
| 1 | 36.80 | 1 | 379.50 | 1 | 723.23 | 1 | 1,066.96 | 1 | 1,410.69 | 1 | 1,754.42 | 1 | 2,098.14 | 1 | 2,441.87 | 1 | 2,785.60 | 1 | 3,129.33 |
| 1/4 | 43.71 | 1/4 | 386.66 | 1/4 | 730.39 | 1/4 | 1,074.12 | 1/4 | 1,417.85 | 1/4 | 1,761.58 | 1/4 | 2,105.30 | 1/4 | 2,449.03 | 1/4 | 2,792.76 | 1/4 | 3,136.49 |
| 1/2 | 50.61 | 1/2 | 393.83 | 1/2 | 737.56 | 1/2 | 1,081.28 | 1/2 | 1,425.01 | 1/2 | 1,768.74 | 1/2 | 2,112.47 | 1/2 | 2,456.19 | 1/2 | 2,799.92 | 1/2 | 3,143.65 |
| 3/4 | 57.52 | 3/4 | 400.99 | 3/4 | 744.72 | 3/4 | 1,088.44 | 3/4 | 1,432.17 | 3/4 | 1,775.90 | 3/4 | 2,119.63 | 3/4 | 2,463.36 | 3/4 | 2,807.08 | 3/4 | 3,150.81 |
| 2 | 64.42 | 2 | 408.15 | 2 | 751.88 | 2 | 1,095.60 | 2 | 1,439.33 | 2 | 1,783.06 | 2 | 2,126.79 | 2 | 2,470.52 | 2 | 2,814.24 | 2 | 3,157.97 |
| 1/4 | 71.58 | 1/4 | 415.31 | 1/4 | 759.04 | 1/4 | 1,102.76 | 1/4 | 1,446.49 | 1/4 | 1,790.22 | 1/4 | 2,133.95 | 1/4 | 2,477.68 | 1/4 | 2,821.40 | 1/4 | 3,165.13 |
| 1/2 | 78.74 | 1/2 | 422.47 | 1/2 | 766.20 | 1/2 | 1,109.93 | 1/2 | 1,453.66 | 1/2 | 1,797.38 | 1/2 | 2,141.11 | 1/2 | 2,484.84 | 1/2 | 2,828.56 | 1/2 | 3,172.29 |
| 3/4 | 85.90 | 3/4 | 429.63 | 3/4 | 773.36 | 3/4 | 1,117.09 | 3/4 | 1,460.82 | 3/4 | 1,804.54 | 3/4 | 2,148.27 | 3/4 | 2,492.00 | 3/4 | 2,835.73 | 3/4 | 3,179.46 |
| 3 | 93.06 | 3 | 436.79 | 3 | 780.52 | 3 | 1,124.25 | 3 | 1,467.98 | 3 | 1,811.70 | 3 | 2,155.43 | 3 | 2,499.16 | 3 | 2,842.89 | 3 | 3,186.62 |
| 1/4 | 100.22 | 1/4 | 443.95 | 1/4 | 787.68 | 1/4 | 1,131.41 | 1/4 | 1,475.14 | 1/4 | 1,818.86 | 1/4 | 2,162.59 | 1/4 | 2,506.32 | 1/4 | 2,850.05 | 1/4 | 3,193.78 |
| 1/2 | 107.39 | 1/2 | 451.12 | 1/2 | 794.84 | 1/2 | 1,138.57 | 1/2 | 1,482.30 | 1/2 | 1,826.03 | 1/2 | 2,169.76 | 1/2 | 2,513.48 | 1/2 | 2,857.21 | 1/2 | 3,200.94 |
| 3/4 | 114.55 | 3/4 | 458.28 | 3/4 | 802.00 | 3/4 | 1,145.73 | 3/4 | 1,489.46 | 3/4 | 1,833.19 | 3/4 | 2,176.92 | 3/4 | 2,520.64 | 3/4 | 2,864.37 | 3/4 | 3,208.10 |
| 4 | 121.71 | 4 | 465.44 | 4 | 809.16 | 4 | 1,152.89 | 4 | 1,496.62 | 4 | 1,840.35 | 4 | 2,184.08 | 4 | 2,527.80 | 4 | 2,871.53 | 4 | 3,215.26 |
| 1/4 | 128.87 | 1/4 | 472.60 | 1/4 | 816.32 | 1/4 | 1,160.05 | 1/4 | 1,503.78 | 1/4 | 1,847.51 | 1/4 | 2,191.24 | 1/4 | 2,534.96 | 1/4 | 2,878.69 | 1/4 | 3,222.42 |
| 1/2 | 136.03 | 1/2 | 479.76 | 1/2 | 823.49 | 1/2 | 1,167.22 | 1/2 | 1,510.94 | 1/2 | 1,854.67 | 1/2 | 2,198.40 | 1/2 | 2,542.12 | 1/2 | 2,885.85 | 1/2 | 3,229.58 |
| 3/4 | 143.19 | 3/4 | 486.92 | 3/4 | 830.65 | 3/4 | 1,174.38 | 3/4 | 1,518.10 | 3/4 | 1,861.83 | 3/4 | 2,205.56 | 3/4 | 2,549.29 | 3/4 | 2,893.02 | 3/4 | 3,236.74 |
| 5 | 150.35 | 5 | 494.08 | 5 | 837.81 | 5 | 1,181.54 | 5 | 1,525.26 | 5 | 1,868.99 | 5 | 2,212.72 | 5 | 2,556.45 | 5 | 2,900.18 | 5 | 3,243.90 |
| 1/4 | 157.51 | 1/4 | 501.24 | 1/4 | 844.97 | 1/4 | 1,188.70 | 1/4 | 1,532.42 | 1/4 | 1,876.15 | 1/4 | 2,219.88 | 1/4 | 2,563.61 | 1/4 | 2,907.34 | 1/4 | 3,251.06 |
| 1/2 | 164.68 | 1/2 | 508.40 | 1/2 | 852.13 | 1/2 | 1,195.86 | 1/2 | 1,539.59 | 1/2 | 1,883.32 | 1/2 | 2,227.04 | 1/2 | 2,570.77 | 1/2 | 2,914.50 | 1/2 | 3,258.22 |
| 3/4 | 171.84 | 3/4 | 515.56 | 3/4 | 859.29 | 3/4 | 1,203.02 | 3/4 | 1,546.75 | 3/4 | 1,890.48 | 3/4 | 2,234.20 | 3/4 | 2,577.93 | 3/4 | 2,921.66 | 3/4 | 3,265.39 |
| 6 | 179.00 | 6 | 522.72 | 6 | 866.45 | 6 | 1,210.18 | 6 | 1,553.91 | 6 | 1,897.64 | 6 | 2,241.36 | 6 | 2,585.09 | 6 | 2,928.82 | 6 | 3,272.55 |
| 1/4 | 186.16 | 1/4 | 529.88 | 1/4 | 873.61 | 1/4 | 1,217.34 | 1/4 | 1,561.07 | 1/4 | 1,904.80 | 1/4 | 2,248.52 | 1/4 | 2,592.25 | 1/4 | 2,935.98 | 1/4 | 3,279.71 |
| 1/2 | 193.32 | 1/2 | 537.05 | 1/2 | 880.78 | 1/2 | 1,224.50 | 1/2 | 1,568.23 | 1/2 | 1,911.96 | 1/2 | 2,255.69 | 1/2 | 2,599.41 | 1/2 | 2,943.14 | 1/2 | 3,286.87 |
| 3/4 | 200.48 | 3/4 | 544.21 | 3/4 | 887.94 | 3/4 | 1,231.66 | 3/4 | 1,575.39 | 3/4 | 1,919.12 | 3/4 | 2,262.85 | 3/4 | 2,606.58 | 3/4 | 2,950.30 | 3/4 | 3,294.03 |
| 7 | 207.64 | 7 | 551.37 | 7 | 895.10 | 7 | 1,238.82 | 7 | 1,582.55 | 7 | 1,926.28 | 7 | 2,270.01 | 7 | 2,613.74 | 7 | 2,957.46 | 7 | 3,301.19 |
| 1/4 | 214.80 | 1/4 | 558.53 | 1/4 | 902.26 | 1/4 | 1,245.98 | 1/4 | 1,589.71 | 1/4 | 1,933.44 | 1/4 | 2,277.17 | 1/4 | 2,620.90 | 1/4 | 2,964.62 | 1/4 | 3,308.35 |
| 1/2 | 221.96 | 1/2 | 565.69 | 1/2 | 909.42 | 1/2 | 1,253.15 | 1/2 | 1,596.88 | 1/2 | 1,940.60 | 1/2 | 2,284.33 | 1/2 | 2,628.06 | 1/2 | 2,971.78 | 1/2 | 3,315.51 |
| 3/4 | 229.12 | 3/4 | 572.85 | 3/4 | 916.58 | 3/4 | 1,260.31 | 3/4 | 1,604.04 | 3/4 | 1,947.76 | 3/4 | 2,291.49 | 3/4 | 2,635.22 | 3/4 | 2,978.95 | 3/4 | 3,322.68 |
| 8 | 236.28 | 8 | 580.01 | 8 | 923.74 | 8 | 1,267.47 | 8 | 1,611.20 | 8 | 1,954.92 | 8 | 2,298.65 | 8 | 2,642.38 | 8 | 2,986.11 | 8 | 3,329.84 |
| 1/4 | 243.44 | 1/4 | 587.17 | 1/4 | 930.90 | 1/4 | 1,274.63 | 1/4 | 1,618.36 | 1/4 | 1,962.08 | 1/4 | 2,305.81 | 1/4 | 2,649.54 | 1/4 | 2,993.27 | 1/4 | 3,337.00 |
| 1/2 | 250.61 | 1/2 | 594.34 | 1/2 | 938.06 | 1/2 | 1,281.79 | 1/2 | 1,625.52 | 1/2 | 1,969.25 | 1/2 | 2,312.98 | 1/2 | 2,656.70 | 1/2 | 3,000.43 | 1/2 | 3,344.16 |
| 3/4 | 257.77 | 3/4 | 601.50 | 3/4 | 945.22 | 3/4 | 1,288.95 | 3/4 | 1,632.68 | 3/4 | 1,976.41 | 3/4 | 2,320.14 | 3/4 | 2,663.86 | 3/4 | 3,007.59 | 3/4 | 3,351.32 |
| 9 | 264.93 | 9 | 608.66 | 9 | 952.38 | 9 | 1,296.11 | 9 | 1,639.84 | 9 | 1,983.57 | 9 | 2,327.30 | 9 | 2,671.02 | 9 | 3,014.75 | 9 | 3,358.48 |
| 1/4 | 272.09 | 1/4 | 615.82 | 1/4 | 959.54 | 1/4 | 1,303.27 | 1/4 | 1,647.00 | 1/4 | 1,990.73 | 1/4 | 2,334.46 | 1/4 | 2,678.18 | 1/4 | 3,021.91 | 1/4 | 3,365.64 |
| 1/2 | 279.25 | 1/2 | 622.98 | 1/2 | 966.71 | 1/2 | 1,310.44 | 1/2 | 1,654.16 | 1/2 | 1,997.89 | 1/2 | 2,341.62 | 1/2 | 2,685.34 | 1/2 | 3,029.07 | 1/2 | 3,372.80 |
| 3/4 | 286.41 | 3/4 | 630.14 | 3/4 | 973.87 | 3/4 | 1,317.60 | 3/4 | 1,661.32 | 3/4 | 2,005.05 | 3/4 | 2,348.78 | 3/4 | 2,692.51 | 3/4 | 3,036.24 | 3/4 | 3,379.96 |
| 10 | 293.57 | 10 | 637.30 | 10 | 981.03 | 10 | 1,324.76 | 10 | 1,668.48 | 10 | 2,012.21 | 10 | 2,355.94 | 10 | 2,699.67 | 10 | 3,043.40 | 10 | 3,387.12 |
| 1/4 | 300.73 | 1/4 | 644.46 | 1/4 | 988.19 | 1/4 | 1,331.92 | 1/4 | 1,675.64 | 1/4 | 2,019.37 | 1/4 | 2,363.10 | 1/4 | 2,706.83 | 1/4 | 3,050.56 | 1/4 | 3,394.28 |
| 1/2 | 307.90 | 1/2 | 651.62 | 1/2 | 995.35 | 1/2 | 1,339.08 | 1/2 | 1,682.81 | 1/2 | 2,026.54 | 1/2 | 2,370.26 | 1/2 | 2,713.99 | 1/2 | 3,057.72 | 1/2 | 3,401.44 |
| 3/4 | 315.06 | 3/4 | 658.78 | 3/4 | 1,002.51 | 3/4 | 1,346.24 | 3/4 | 1,689.97 | 3/4 | 2,033.70 | 3/4 | 2,377.42 | 3/4 | 2,721.15 | 3/4 | 3,064.88 | 3/4 | 3,408.61 |
| 11 | 322.22 | 11 | 665.94 | 11 | 1,009.67 | 11 | 1,353.40 | 11 | 1,697.13 | 11 | 2,040.86 | 11 | 2,384.58 | 11 | 2,728.31 | 11 | 3,072.04 | 11 | 3,415.77 |
| 1/4 | 331.88 | 1/4 | 673.10 | 1/4 | 1,016.83 | 1/4 | 1,360.56 | 1/4 | 1,704.35 | 1/4 | 2,048.02 | 1/4 | 2,391.74 | 1/4 | 2,735.47 | 1/4 | 3,079.20 | 1/4 | 3,422.93 |
| 1/2 | 341.54 | 1/2 | 680.27 | 1/2 | 1,024.00 | 1/2 | 1,367.72 | 1/2 | 1,711.56 | 1/2 | 2,055.18 | 1/2 | 2,398.91 | 1/2 | 2,742.63 | 1/2 | 3,086.36 | 1/2 | 3,430.09 |
| 3/4 | 351.20 | 3/4 | 687.43 | 3/4 | 1,031.16 | 3/4 | 1,374.88 | 3/4 | 1,718.78 | 3/4 | 2,062.34 | 3/4 | 2,406.07 | 3/4 | 2,749.80 | 3/4 | 3,093.52 | 3/4 | 3,437.25 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

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





BARGE "MM 138"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 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 | 3,444.41 | 0 | 3,788.14 | 0 | 4,131.87 | 0 | 4,475.60 | 0 | 4,817.02 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 3,451.57 | 1/4 | 3,795.30 | 1/4 | 4,139.03 | 1/4 | 4,482.73 | 1/4 | 4,823.60 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,458.73 | 1/2 | 3,802.46 | 1/2 | 4,146.19 | 1/2 | 4,489.87 | 1/2 | 4,830.18 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,465.90 | 3/4 | 3,809.62 | 3/4 | 4,153.35 | 3/4 | 4,497.00 | 3/4 | 4,836.76 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 3,473.06 | 1 | 3,816.78 | 1 | 4,160.51 | 1 | 4,504.14 | 1 | 4,843.34 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 3,480.22 | 1/4 | 3,823.94 | 1/4 | 4,167.67 | 1/4 | 4,511.25 | 1/4 | 4,848.91 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,487.38 | 1/2 | 3,831.10 | 1/2 | 4,174.83 | 1/2 | 4,518.36 | 1/2 | 4,854.48 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,494.54 | 3/4 | 3,838.27 | 3/4 | 4,182.00 | 3/4 | 4,525.47 | 3/4 | 4,860.05 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 3,501.70 | 2 | 3,845.43 | 2 | 4,189.16 | 2 | 4,532.58 | 2 | 4,865.62 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 3,508.86 | 1/4 | 3,852.59 | 1/4 | 4,196.32 | 1/4 | 4,539.69 | 1/4 | 4,870.12 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,516.02 | 1/2 | 3,859.75 | 1/2 | 4,203.48 | 1/2 | 4,546.80 | 1/2 | 4,874.63 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,523.18 | 3/4 | 3,866.91 | 3/4 | 4,210.64 | 3/4 | 4,553.92 | 3/4 | 4,879.13 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 3,530.34 | 3 | 3,874.07 | 3 | 4,217.80 | 3 | 4,561.03 | 3 | 4,883.64 | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 3,537.50 | 1/4 | 3,881.23 | 1/4 | 4,224.96 | 1/4 | 4,568.14 | 1/4 | 4,887.08 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,544.66 | 1/2 | 3,888.39 | 1/2 | 4,232.12 | 1/2 | 4,575.25 | 1/2 | 4,890.53 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,551.83 | 3/4 | 3,895.56 | 3/4 | 4,239.28 | 3/4 | 4,582.36 | 3/4 | 4,893.97 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 3,558.99 | 4 | 3,902.72 | 4 | 4,246.44 | 4 | 4,589.47 | 4 | 4,897.42 | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 3,566.15 | 1/4 | 3,909.88 | 1/4 | 4,253.60 | 1/4 | 4,596.58 | 1/4 | 4,899.80 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,573.31 | 1/2 | 3,917.04 | 1/2 | 4,260.76 | 1/2 | 4,603.69 | 1/2 | 4,902.19 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,580.47 | 3/4 | 3,924.20 | 3/4 | 4,267.93 | 3/4 | 4,610.81 | 3/4 | 4,904.57 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 3,587.63 | 5 | 3,931.36 | 5 | 4,275.09 | 5 | 4,617.92 | 5 | 4,906.96 | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 3,594.79 | 1/4 | 3,938.52 | 1/4 | 4,282.25 | 1/4 | 4,625.03 | 1/4 | 4,908.28 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,601.95 | 1/2 | 3,945.68 | 1/2 | 4,289.41 | 1/2 | 4,632.14 | 1/2 | 4,909.60 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,609.12 | 3/4 | 3,952.84 | 3/4 | 4,296.57 | 3/4 | 4,639.25 | 3/4 | 4,910.93 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 3,616.28 | 6 | 3,960.00 | 6 | 4,303.73 | 6 | 4,646.36 | 6 | 4,912.25 | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 3,623.44 | 1/4 | 3,967.16 | 1/4 | 4,310.89 | 1/4 | 4,653.47 | 1/4 | 4,912.64 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,630.60 | 1/2 | 3,974.32 | 1/2 | 4,318.05 | 1/2 | 4,660.58 | 1/2 | 4,913.04 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,637.76 | 3/4 | 3,981.49 | 3/4 | 4,325.22 | 3/4 | 4,667.69 | 3/4 | 4,913.43 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 3,644.92 | 7 | 3,988.65 | 7 | 4,332.38 | 7 | 4,674.80 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 3,652.08 | 1/4 | 3,995.81 | 1/4 | 4,339.54 | 1/4 | 4,681.91 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,659.24 | 1/2 | 4,002.97 | 1/2 | 4,346.70 | 1/2 | 4,689.02 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,666.40 | 3/4 | 4,010.13 | 3/4 | 4,353.86 | 3/4 | 4,696.14 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 3,673.56 | 8 | 4,017.29 | 8 | 4,361.02 | 8 | 4,703.25 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 3,680.72 | 1/4 | 4,024.45 | 1/4 | 4,368.18 | 1/4 | 4,710.36 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,687.88 | 1/2 | 4,031.61 | 1/2 | 4,375.34 | 1/2 | 4,717.47 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,695.05 | 3/4 | 4,038.78 | 3/4 | 4,382.50 | 3/4 | 4,724.58 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 3,702.21 | 9 | 4,045.94 | 9 | 4,389.66 | 9 | 4,731.69 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 3,709.37 | 1/4 | 4,053.10 | 1/4 | 4,396.82 | 1/4 | 4,738.80 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,716.53 | 1/2 | 4,060.26 | 1/2 | 4,403.98 | 1/2 | 4,745.91 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,723.69 | 3/4 | 4,067.42 | 3/4 | 4,411.15 | 3/4 | 4,753.03 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 3,730.85 | 10 | 4,074.58 | 10 | 4,418.31 | 10 | 4,760.14 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 3,738.01 | 1/4 | 4,081.74 | 1/4 | 4,425.47 | 1/4 | 4,767.25 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,745.17 | 1/2 | 4,088.90 | 1/2 | 4,432.63 | 1/2 | 4,774.36 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,752.34 | 3/4 | 4,096.06 | 3/4 | 4,439.79 | 3/4 | 4,781.47 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 3,759.50 | 11 | 4,103.22 | 11 | 4,446.95 | 11 | 4,788.58 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 3,766.66 | 1/4 | 4,110.38 | 1/4 | 4,454.11 | 1/4 | 4,795.69 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,773.82 | 1/2 | 4,117.54 | 1/2 | 4,461.27 | 1/2 | 4,802.80 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,780.98 | 3/4 | 4,124.71 | 3/4 | 4,468.44 | 3/4 | 4,809.91 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

STRAPPED: 07/15/1999
DECK MEASUREMENTS: 05/11/2016 SW
PRINTED: 05/11/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MM 138"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-05"

| 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 | 16.35 | 0 | 360.86 | 0 | 694.59 | 0 | 1,038.32 | 0 | 1,382.04 | 0 | 1,725.99 | 0 | 2,069.50 | 0 | 2,413.23 | 0 | 2,756.96 | 0 | 3,100.68 |
| 1/4 | 21.46 | 1/4 | 365.52 | 1/4 | 701.75 | 1/4 | 1,045.48 | 1/4 | 1,389.20 | 1/4 | 1,733.10 | 1/4 | 2,076.66 | 1/4 | 2,420.39 | 1/4 | 2,764.12 | 1/4 | 3,107.84 |
| 1/2 | 26.58 | 1/2 | 370.18 | 1/2 | 708.91 | 1/2 | 1,052.64 | 1/2 | 1,396.37 | 1/2 | 1,740.21 | 1/2 | 2,083.82 | 1/2 | 2,427.55 | 1/2 | 2,771.28 | 1/2 | 3,115.00 |
| 3/4 | 31.69 | 3/4 | 374.84 | 3/4 | 716.07 | 3/4 | 1,059.80 | 3/4 | 1,403.53 | 3/4 | 1,747.31 | 3/4 | 2,090.98 | 3/4 | 2,434.71 | 3/4 | 2,778.44 | 3/4 | 3,122.17 |
| 1 | 36.80 | 1 | 379.50 | 1 | 723.23 | 1 | 1,066.96 | 1 | 1,410.69 | 1 | 1,754.42 | 1 | 2,098.14 | 1 | 2,441.87 | 1 | 2,785.60 | 1 | 3,129.33 |
| 1/4 | 43.71 | 1/4 | 386.66 | 1/4 | 730.39 | 1/4 | 1,074.12 | 1/4 | 1,417.85 | 1/4 | 1,761.58 | 1/4 | 2,105.30 | 1/4 | 2,449.03 | 1/4 | 2,792.76 | 1/4 | 3,136.49 |
| 1/2 | 50.61 | 1/2 | 393.83 | 1/2 | 737.56 | 1/2 | 1,081.28 | 1/2 | 1,425.01 | 1/2 | 1,768.74 | 1/2 | 2,112.47 | 1/2 | 2,456.19 | 1/2 | 2,799.92 | 1/2 | 3,143.65 |
| 3/4 | 57.52 | 3/4 | 400.99 | 3/4 | 744.72 | 3/4 | 1,088.44 | 3/4 | 1,432.17 | 3/4 | 1,775.90 | 3/4 | 2,119.63 | 3/4 | 2,463.36 | 3/4 | 2,807.08 | 3/4 | 3,150.81 |
| 2 | 64.42 | 2 | 408.15 | 2 | 751.88 | 2 | 1,095.60 | 2 | 1,439.33 | 2 | 1,783.06 | 2 | 2,126.79 | 2 | 2,470.52 | 2 | 2,814.24 | 2 | 3,157.97 |
| 1/4 | 71.58 | 1/4 | 415.31 | 1/4 | 759.04 | 1/4 | 1,102.76 | 1/4 | 1,446.49 | 1/4 | 1,790.22 | 1/4 | 2,133.95 | 1/4 | 2,477.68 | 1/4 | 2,821.40 | 1/4 | 3,165.13 |
| 1/2 | 78.74 | 1/2 | 422.47 | 1/2 | 766.20 | 1/2 | 1,109.93 | 1/2 | 1,453.66 | 1/2 | 1,797.38 | 1/2 | 2,141.11 | 1/2 | 2,484.84 | 1/2 | 2,828.56 | 1/2 | 3,172.29 |
| 3/4 | 85.90 | 3/4 | 429.63 | 3/4 | 773.36 | 3/4 | 1,117.09 | 3/4 | 1,460.82 | 3/4 | 1,804.54 | 3/4 | 2,148.27 | 3/4 | 2,492.00 | 3/4 | 2,835.73 | 3/4 | 3,179.46 |
| 3 | 93.06 | 3 | 436.79 | 3 | 780.52 | 3 | 1,124.25 | 3 | 1,467.98 | 3 | 1,811.70 | 3 | 2,155.43 | 3 | 2,499.16 | 3 | 2,842.89 | 3 | 3,186.62 |
| 1/4 | 100.22 | 1/4 | 443.95 | 1/4 | 787.68 | 1/4 | 1,131.41 | 1/4 | 1,475.14 | 1/4 | 1,818.86 | 1/4 | 2,162.59 | 1/4 | 2,506.32 | 1/4 | 2,850.05 | 1/4 | 3,193.78 |
| 1/2 | 107.39 | 1/2 | 451.12 | 1/2 | 794.84 | 1/2 | 1,138.57 | 1/2 | 1,482.30 | 1/2 | 1,826.03 | 1/2 | 2,169.76 | 1/2 | 2,513.48 | 1/2 | 2,857.21 | 1/2 | 3,200.94 |
| 3/4 | 114.55 | 3/4 | 458.28 | 3/4 | 802.00 | 3/4 | 1,145.73 | 3/4 | 1,489.46 | 3/4 | 1,833.19 | 3/4 | 2,176.92 | 3/4 | 2,520.64 | 3/4 | 2,864.37 | 3/4 | 3,208.10 |
| 4 | 121.71 | 4 | 465.44 | 4 | 809.16 | 4 | 1,152.89 | 4 | 1,496.62 | 4 | 1,840.35 | 4 | 2,184.08 | 4 | 2,527.80 | 4 | 2,871.53 | 4 | 3,215.26 |
| 1/4 | 128.87 | 1/4 | 472.60 | 1/4 | 816.32 | 1/4 | 1,160.05 | 1/4 | 1,503.78 | 1/4 | 1,847.51 | 1/4 | 2,191.24 | 1/4 | 2,534.96 | 1/4 | 2,878.69 | 1/4 | 3,222.42 |
| 1/2 | 136.03 | 1/2 | 479.76 | 1/2 | 823.49 | 1/2 | 1,167.22 | 1/2 | 1,510.94 | 1/2 | 1,854.67 | 1/2 | 2,198.40 | 1/2 | 2,542.12 | 1/2 | 2,885.85 | 1/2 | 3,229.58 |
| 3/4 | 143.19 | 3/4 | 486.92 | 3/4 | 830.65 | 3/4 | 1,174.38 | 3/4 | 1,518.10 | 3/4 | 1,861.83 | 3/4 | 2,205.56 | 3/4 | 2,549.29 | 3/4 | 2,893.02 | 3/4 | 3,236.74 |
| 5 | 150.35 | 5 | 494.08 | 5 | 837.81 | 5 | 1,181.54 | 5 | 1,525.26 | 5 | 1,868.99 | 5 | 2,212.72 | 5 | 2,556.45 | 5 | 2,900.18 | 5 | 3,243.90 |
| 1/4 | 157.51 | 1/4 | 501.24 | 1/4 | 844.97 | 1/4 | 1,188.70 | 1/4 | 1,532.42 | 1/4 | 1,876.15 | 1/4 | 2,219.88 | 1/4 | 2,563.61 | 1/4 | 2,907.34 | 1/4 | 3,251.06 |
| 1/2 | 164.68 | 1/2 | 508.40 | 1/2 | 852.13 | 1/2 | 1,195.86 | 1/2 | 1,539.59 | 1/2 | 1,883.32 | 1/2 | 2,227.04 | 1/2 | 2,570.77 | 1/2 | 2,914.50 | 1/2 | 3,258.22 |
| 3/4 | 171.84 | 3/4 | 515.56 | 3/4 | 859.29 | 3/4 | 1,203.02 | 3/4 | 1,546.75 | 3/4 | 1,890.48 | 3/4 | 2,234.20 | 3/4 | 2,577.93 | 3/4 | 2,921.66 | 3/4 | 3,265.39 |
| 6 | 179.00 | 6 | 522.72 | 6 | 866.45 | 6 | 1,210.18 | 6 | 1,553.91 | 6 | 1,897.64 | 6 | 2,241.36 | 6 | 2,585.09 | 6 | 2,928.82 | 6 | 3,272.55 |
| 1/4 | 186.16 | 1/4 | 529.88 | 1/4 | 873.61 | 1/4 | 1,217.34 | 1/4 | 1,561.07 | 1/4 | 1,904.80 | 1/4 | 2,248.52 | 1/4 | 2,592.25 | 1/4 | 2,935.98 | 1/4 | 3,279.71 |
| 1/2 | 193.32 | 1/2 | 537.05 | 1/2 | 880.78 | 1/2 | 1,224.50 | 1/2 | 1,568.23 | 1/2 | 1,911.96 | 1/2 | 2,255.69 | 1/2 | 2,599.41 | 1/2 | 2,943.14 | 1/2 | 3,286.87 |
| 3/4 | 200.48 | 3/4 | 544.21 | 3/4 | 887.94 | 3/4 | 1,231.66 | 3/4 | 1,575.39 | 3/4 | 1,919.12 | 3/4 | 2,262.85 | 3/4 | 2,606.58 | 3/4 | 2,950.30 | 3/4 | 3,294.03 |
| 7 | 207.64 | 7 | 551.37 | 7 | 895.10 | 7 | 1,238.82 | 7 | 1,582.55 | 7 | 1,926.28 | 7 | 2,270.01 | 7 | 2,613.74 | 7 | 2,957.46 | 7 | 3,301.19 |
| 1/4 | 214.80 | 1/4 | 558.53 | 1/4 | 902.26 | 1/4 | 1,245.98 | 1/4 | 1,589.71 | 1/4 | 1,933.44 | 1/4 | 2,277.17 | 1/4 | 2,620.90 | 1/4 | 2,964.62 | 1/4 | 3,308.35 |
| 1/2 | 221.96 | 1/2 | 565.69 | 1/2 | 909.42 | 1/2 | 1,253.15 | 1/2 | 1,596.88 | 1/2 | 1,940.60 | 1/2 | 2,284.33 | 1/2 | 2,628.06 | 1/2 | 2,971.78 | 1/2 | 3,315.51 |
| 3/4 | 229.12 | 3/4 | 572.85 | 3/4 | 916.58 | 3/4 | 1,260.31 | 3/4 | 1,604.04 | 3/4 | 1,947.76 | 3/4 | 2,291.49 | 3/4 | 2,635.22 | 3/4 | 2,978.95 | 3/4 | 3,322.68 |
| 8 | 236.28 | 8 | 580.01 | 8 | 923.74 | 8 | 1,267.47 | 8 | 1,611.20 | 8 | 1,954.92 | 8 | 2,298.65 | 8 | 2,642.38 | 8 | 2,986.11 | 8 | 3,329.84 |
| 1/4 | 243.44 | 1/4 | 587.17 | 1/4 | 930.90 | 1/4 | 1,274.63 | 1/4 | 1,618.36 | 1/4 | 1,962.08 | 1/4 | 2,305.81 | 1/4 | 2,649.54 | 1/4 | 2,993.27 | 1/4 | 3,337.00 |
| 1/2 | 250.61 | 1/2 | 594.34 | 1/2 | 938.06 | 1/2 | 1,281.79 | 1/2 | 1,625.52 | 1/2 | 1,969.25 | 1/2 | 2,312.98 | 1/2 | 2,656.70 | 1/2 | 3,000.43 | 1/2 | 3,344.16 |
| 3/4 | 257.77 | 3/4 | 601.50 | 3/4 | 945.22 | 3/4 | 1,288.95 | 3/4 | 1,632.68 | 3/4 | 1,976.41 | 3/4 | 2,320.14 | 3/4 | 2,663.86 | 3/4 | 3,007.59 | 3/4 | 3,351.32 |
| 9 | 264.93 | 9 | 608.66 | 9 | 952.38 | 9 | 1,296.11 | 9 | 1,639.84 | 9 | 1,983.57 | 9 | 2,327.30 | 9 | 2,671.02 | 9 | 3,014.75 | 9 | 3,358.48 |
| 1/4 | 272.09 | 1/4 | 615.82 | 1/4 | 959.54 | 1/4 | 1,303.27 | 1/4 | 1,647.00 | 1/4 | 1,990.73 | 1/4 | 2,334.46 | 1/4 | 2,678.18 | 1/4 | 3,021.91 | 1/4 | 3,365.64 |
| 1/2 | 279.25 | 1/2 | 622.98 | 1/2 | 966.71 | 1/2 | 1,310.44 | 1/2 | 1,654.16 | 1/2 | 1,997.89 | 1/2 | 2,341.62 | 1/2 | 2,685.34 | 1/2 | 3,029.07 | 1/2 | 3,372.80 |
| 3/4 | 286.41 | 3/4 | 630.14 | 3/4 | 973.87 | 3/4 | 1,317.60 | 3/4 | 1,661.32 | 3/4 | 2,005.05 | 3/4 | 2,348.78 | 3/4 | 2,692.51 | 3/4 | 3,036.24 | 3/4 | 3,379.96 |
| 10 | 293.57 | 10 | 637.30 | 10 | 981.03 | 10 | 1,324.76 | 10 | 1,668.48 | 10 | 2,012.21 | 10 | 2,355.94 | 10 | 2,699.67 | 10 | 3,043.40 | 10 | 3,387.12 |
| 1/4 | 300.73 | 1/4 | 644.46 | 1/4 | 988.19 | 1/4 | 1,331.92 | 1/4 | 1,675.64 | 1/4 | 2,019.37 | 1/4 | 2,363.10 | 1/4 | 2,706.83 | 1/4 | 3,050.56 | 1/4 | 3,394.28 |
| 1/2 | 307.90 | 1/2 | 651.62 | 1/2 | 995.35 | 1/2 | 1,339.08 | 1/2 | 1,682.81 | 1/2 | 2,026.54 | 1/2 | 2,370.26 | 1/2 | 2,713.99 | 1/2 | 3,057.72 | 1/2 | 3,401.44 |
| 3/4 | 315.06 | 3/4 | 658.78 | 3/4 | 1,002.51 | 3/4 | 1,346.24 | 3/4 | 1,689.97 | 3/4 | 2,033.70 | 3/4 | 2,377.42 | 3/4 | 2,721.15 | 3/4 | 3,064.88 | 3/4 | 3,408.61 |
| 11 | 322.22 | 11 | 665.94 | 11 | 1,009.67 | 11 | 1,353.40 | 11 | 1,697.13 | 11 | 2,040.86 | 11 | 2,384.58 | 11 | 2,728.31 | 11 | 3,072.04 | 11 | 3,415.77 |
| 1/4 | 331.88 | 1/4 | 673.10 | 1/4 | 1,016.83 | 1/4 | 1,360.56 | 1/4 | 1,704.35 | 1/4 | 2,048.02 | 1/4 | 2,391.74 | 1/4 | 2,735.47 | 1/4 | 3,079.20 | 1/4 | 3,422.93 |
| 1/2 | 341.54 | 1/2 | 680.27 | 1/2 | 1,024.00 | 1/2 | 1,367.72 | 1/2 | 1,711.56 | 1/2 | 2,055.18 | 1/2 | 2,398.91 | 1/2 | 2,742.63 | 1/2 | 3,086.36 | 1/2 | 3,430.09 |
| 3/4 | 351.20 | 3/4 | 687.43 | 3/4 | 1,031.16 | 3/4 | 1,374.88 | 3/4 | 1,718.78 | 3/4 | 2,062.34 | 3/4 | 2,406.07 | 3/4 | 2,749.80 | 3/4 | 3,093.52 | 3/4 | 3,437.25 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 41'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "MM 138"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-05"

| 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 | 3,444.41 | 0 | 3,788.14 | 0 | 4,131.87 | 0 | 4,475.60 | 0 | 4,817.02 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 3,451.57 | 1/4 | 3,795.30 | 1/4 | 4,139.03 | 1/4 | 4,482.73 | 1/4 | 4,823.60 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,458.73 | 1/2 | 3,802.46 | 1/2 | 4,146.19 | 1/2 | 4,489.87 | 1/2 | 4,830.18 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,465.90 | 3/4 | 3,809.62 | 3/4 | 4,153.35 | 3/4 | 4,497.00 | 3/4 | 4,836.76 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 3,473.06 | 1 | 3,816.78 | 1 | 4,160.51 | 1 | 4,504.14 | 1 | 4,843.34 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 3,480.22 | 1/4 | 3,823.94 | 1/4 | 4,167.67 | 1/4 | 4,511.25 | 1/4 | 4,848.91 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,487.38 | 1/2 | 3,831.10 | 1/2 | 4,174.83 | 1/2 | 4,518.36 | 1/2 | 4,854.48 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,494.54 | 3/4 | 3,838.27 | 3/4 | 4,182.00 | 3/4 | 4,525.47 | 3/4 | 4,860.05 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 3,501.70 | 2 | 3,845.43 | 2 | 4,189.16 | 2 | 4,532.58 | 2 | 4,865.62 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 3,508.86 | 1/4 | 3,852.59 | 1/4 | 4,196.32 | 1/4 | 4,539.69 | 1/4 | 4,870.12 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,516.02 | 1/2 | 3,859.75 | 1/2 | 4,203.48 | 1/2 | 4,546.80 | 1/2 | 4,874.63 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,523.18 | 3/4 | 3,866.91 | 3/4 | 4,210.64 | 3/4 | 4,553.92 | 3/4 | 4,879.13 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 3,530.34 | 3 | 3,874.07 | 3 | 4,217.80 | 3 | 4,561.03 | 3 | 4,883.64 | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 3,537.50 | 1/4 | 3,881.23 | 1/4 | 4,224.96 | 1/4 | 4,568.14 | 1/4 | 4,887.08 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,544.66 | 1/2 | 3,888.39 | 1/2 | 4,232.12 | 1/2 | 4,575.25 | 1/2 | 4,890.53 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,551.83 | 3/4 | 3,895.56 | 3/4 | 4,239.28 | 3/4 | 4,582.36 | 3/4 | 4,893.97 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 3,558.99 | 4 | 3,902.72 | 4 | 4,246.44 | 4 | 4,589.47 | 4 | 4,897.42 | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 3,566.15 | 1/4 | 3,909.88 | 1/4 | 4,253.60 | 1/4 | 4,596.58 | 1/4 | 4,899.80 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,573.31 | 1/2 | 3,917.04 | 1/2 | 4,260.76 | 1/2 | 4,603.69 | 1/2 | 4,902.19 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,580.47 | 3/4 | 3,924.20 | 3/4 | 4,267.93 | 3/4 | 4,610.81 | 3/4 | 4,904.57 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 3,587.63 | 5 | 3,931.36 | 5 | 4,275.09 | 5 | 4,617.92 | 5 | 4,906.96 | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 3,594.79 | 1/4 | 3,938.52 | 1/4 | 4,282.25 | 1/4 | 4,625.03 | 1/4 | 4,908.28 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,601.95 | 1/2 | 3,945.68 | 1/2 | 4,289.41 | 1/2 | 4,632.14 | 1/2 | 4,909.60 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,609.12 | 3/4 | 3,952.84 | 3/4 | 4,296.57 | 3/4 | 4,639.25 | 3/4 | 4,910.93 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 3,616.28 | 6 | 3,960.00 | 6 | 4,303.73 | 6 | 4,646.36 | 6 | 4,912.25 | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 3,623.44 | 1/4 | 3,967.16 | 1/4 | 4,310.89 | 1/4 | 4,653.47 | 1/4 | 4,912.64 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,630.60 | 1/2 | 3,974.32 | 1/2 | 4,318.05 | 1/2 | 4,660.58 | 1/2 | 4,913.04 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,637.76 | 3/4 | 3,981.49 | 3/4 | 4,325.22 | 3/4 | 4,667.69 | 3/4 | 4,913.43 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 3,644.92 | 7 | 3,988.65 | 7 | 4,332.38 | 7 | 4,674.80 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 3,652.08 | 1/4 | 3,995.81 | 1/4 | 4,339.54 | 1/4 | 4,681.91 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,659.24 | 1/2 | 4,002.97 | 1/2 | 4,346.70 | 1/2 | 4,689.02 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,666.40 | 3/4 | 4,010.13 | 3/4 | 4,353.86 | 3/4 | 4,696.14 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 3,673.56 | 8 | 4,017.29 | 8 | 4,361.02 | 8 | 4,703.25 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 3,680.72 | 1/4 | 4,024.45 | 1/4 | 4,368.18 | 1/4 | 4,710.36 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,687.88 | 1/2 | 4,031.61 | 1/2 | 4,375.34 | 1/2 | 4,717.47 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,695.05 | 3/4 | 4,038.78 | 3/4 | 4,382.50 | 3/4 | 4,724.58 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 3,702.21 | 9 | 4,045.94 | 9 | 4,389.66 | 9 | 4,731.69 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 3,709.37 | 1/4 | 4,053.10 | 1/4 | 4,396.82 | 1/4 | 4,738.80 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,716.53 | 1/2 | 4,060.26 | 1/2 | 4,403.98 | 1/2 | 4,745.91 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,723.69 | 3/4 | 4,067.42 | 3/4 | 4,411.15 | 3/4 | 4,753.03 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 3,730.85 | 10 | 4,074.58 | 10 | 4,418.31 | 10 | 4,760.14 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 3,738.01 | 1/4 | 4,081.74 | 1/4 | 4,425.47 | 1/4 | 4,767.25 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,745.17 | 1/2 | 4,088.90 | 1/2 | 4,432.63 | 1/2 | 4,774.36 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,752.34 | 3/4 | 4,096.06 | 3/4 | 4,439.79 | 3/4 | 4,781.47 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 3,759.50 | 11 | 4,103.22 | 11 | 4,446.95 | 11 | 4,788.58 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 3,766.66 | 1/4 | 4,110.38 | 1/4 | 4,454.11 | 1/4 | 4,795.69 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,773.82 | 1/2 | 4,117.54 | 1/2 | 4,461.27 | 1/2 | 4,802.80 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,780.98 | 3/4 | 4,124.71 | 3/4 | 4,468.44 | 3/4 | 4,809.91 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

STRAPPED: 07/15/1999
DECK MEASUREMENTS: 05/11/2016 SW
PRINTED: 05/11/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "MM 138"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 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 | 14.03 | 0 | 363.96 | 0 | 727.78 | 0 | 1,090.62 | 0 | 1,454.89 | 0 | 1,819.16 | 0 | 2,183.43 | 0 | 2,547.71 | 0 | 2,911.98 | 0 | 3,276.25 |
| 1/4 | 18.90 | 1/4 | 371.55 | 1/4 | 735.34 | 1/4 | 1,098.21 | 1/4 | 1,462.48 | 1/4 | 1,826.75 | 1/4 | 2,191.02 | 1/4 | 2,555.30 | 1/4 | 2,919.57 | 1/4 | 3,283.84 |
| 1/2 | 23.78 | 1/2 | 379.13 | 1/2 | 742.89 | 1/2 | 1,105.80 | 1/2 | 1,470.07 | 1/2 | 1,834.34 | 1/2 | 2,198.61 | 1/2 | 2,562.89 | 1/2 | 2,927.16 | 1/2 | 3,291.43 |
| 3/4 | 28.65 | 3/4 | 386.72 | 3/4 | 750.45 | 3/4 | 1,113.39 | 3/4 | 1,477.66 | 3/4 | 1,841.93 | 3/4 | 2,206.20 | 3/4 | 2,570.47 | 3/4 | 2,934.74 | 3/4 | 3,299.02 |
| 1 | 33.52 | 1 | 394.30 | 1 | 758.00 | 1 | 1,120.98 | 1 | 1,485.25 | 1 | 1,849.52 | 1 | 2,213.79 | 1 | 2,578.06 | 1 | 2,942.33 | 1 | 3,306.61 |
| 1/4 | 40.29 | 1/4 | 401.88 | 1/4 | 765.55 | 1/4 | 1,128.57 | 1/4 | 1,492.84 | 1/4 | 1,857.11 | 1/4 | 2,221.38 | 1/4 | 2,585.65 | 1/4 | 2,949.92 | 1/4 | 3,314.20 |
| 1/2 | 47.06 | 1/2 | 409.47 | 1/2 | 773.11 | 1/2 | 1,136.16 | 1/2 | 1,500.43 | 1/2 | 1,864.70 | 1/2 | 2,228.97 | 1/2 | 2,593.24 | 1/2 | 2,957.51 | 1/2 | 3,321.79 |
| 3/4 | 53.83 | 3/4 | 417.05 | 3/4 | 780.66 | 3/4 | 1,143.74 | 3/4 | 1,508.01 | 3/4 | 1,872.28 | 3/4 | 2,236.56 | 3/4 | 2,600.83 | 3/4 | 2,965.10 | 3/4 | 3,329.37 |
| 2 | 60.60 | 2 | 424.63 | 2 | 788.21 | 2 | 1,151.33 | 2 | 1,515.60 | 2 | 1,879.87 | 2 | 2,244.15 | 2 | 2,608.42 | 2 | 2,972.69 | 2 | 3,336.96 |
| 1/4 | 68.19 | 1/4 | 432.22 | 1/4 | 795.77 | 1/4 | 1,158.92 | 1/4 | 1,523.19 | 1/4 | 1,887.46 | 1/4 | 2,251.74 | 1/4 | 2,616.01 | 1/4 | 2,980.28 | 1/4 | 3,344.55 |
| 1/2 | 75.77 | 1/2 | 439.80 | 1/2 | 803.32 | 1/2 | 1,166.51 | 1/2 | 1,530.78 | 1/2 | 1,895.05 | 1/2 | 2,259.33 | 1/2 | 2,623.60 | 1/2 | 2,987.87 | 1/2 | 3,352.14 |
| 3/4 | 83.36 | 3/4 | 447.39 | 3/4 | 810.87 | 3/4 | 1,174.10 | 3/4 | 1,538.37 | 3/4 | 1,902.64 | 3/4 | 2,266.91 | 3/4 | 2,631.18 | 3/4 | 2,995.46 | 3/4 | 3,359.73 |
| 3 | 90.94 | 3 | 454.97 | 3 | 818.43 | 3 | 1,181.69 | 3 | 1,545.96 | 3 | 1,910.23 | 3 | 2,274.50 | 3 | 2,638.77 | 3 | 3,003.05 | 3 | 3,367.32 |
| 1/4 | 98.52 | 1/4 | 462.55 | 1/4 | 825.98 | 1/4 | 1,189.28 | 1/4 | 1,553.55 | 1/4 | 1,917.82 | 1/4 | 2,281.97 | 1/4 | 2,646.36 | 1/4 | 3,010.64 | 1/4 | 3,374.91 |
| 1/2 | 106.11 | 1/2 | 470.14 | 1/2 | 833.54 | 1/2 | 1,196.87 | 1/2 | 1,561.14 | 1/2 | 1,925.41 | 1/2 | 2,289.43 | 1/2 | 2,653.95 | 1/2 | 3,018.23 | 1/2 | 3,382.50 |
| 3/4 | 113.69 | 3/4 | 477.72 | 3/4 | 841.09 | 3/4 | 1,204.45 | 3/4 | 1,568.72 | 3/4 | 1,933.00 | 3/4 | 2,296.90 | 3/4 | 2,661.54 | 3/4 | 3,025.81 | 3/4 | 3,390.08 |
| 4 | 121.27 | 4 | 485.30 | 4 | 848.65 | 4 | 1,212.04 | 4 | 1,576.31 | 4 | 1,940.59 | 4 | 2,304.36 | 4 | 2,669.13 | 4 | 3,033.40 | 4 | 3,397.67 |
| 1/4 | 128.86 | 1/4 | 492.88 | 1/4 | 856.20 | 1/4 | 1,219.63 | 1/4 | 1,583.90 | 1/4 | 1,948.18 | 1/4 | 2,312.07 | 1/4 | 2,676.72 | 1/4 | 3,040.99 | 1/4 | 3,405.26 |
| 1/2 | 136.44 | 1/2 | 500.47 | 1/2 | 863.75 | 1/2 | 1,227.22 | 1/2 | 1,591.49 | 1/2 | 1,955.77 | 1/2 | 2,319.79 | 1/2 | 2,684.31 | 1/2 | 3,048.58 | 1/2 | 3,412.85 |
| 3/4 | 144.03 | 3/4 | 508.05 | 3/4 | 871.31 | 3/4 | 1,234.81 | 3/4 | 1,599.08 | 3/4 | 1,963.35 | 3/4 | 2,327.50 | 3/4 | 2,691.90 | 3/4 | 3,056.17 | 3/4 | 3,420.44 |
| 5 | 151.61 | 5 | 515.64 | 5 | 878.86 | 5 | 1,242.40 | 5 | 1,606.67 | 5 | 1,970.94 | 5 | 2,335.21 | 5 | 2,699.49 | 5 | 3,063.76 | 5 | 3,428.03 |
| 1/4 | 159.19 | 1/4 | 523.22 | 1/4 | 886.41 | 1/4 | 1,249.99 | 1/4 | 1,614.26 | 1/4 | 1,978.53 | 1/4 | 2,342.80 | 1/4 | 2,707.08 | 1/4 | 3,071.35 | 1/4 | 3,435.62 |
| 1/2 | 166.78 | 1/2 | 530.81 | 1/2 | 893.97 | 1/2 | 1,257.58 | 1/2 | 1,621.85 | 1/2 | 1,986.12 | 1/2 | 2,350.39 | 1/2 | 2,714.67 | 1/2 | 3,078.94 | 1/2 | 3,443.21 |
| 3/4 | 174.36 | 3/4 | 538.40 | 3/4 | 901.52 | 3/4 | 1,265.17 | 3/4 | 1,629.44 | 3/4 | 1,993.71 | 3/4 | 2,357.98 | 3/4 | 2,722.25 | 3/4 | 3,086.52 | 3/4 | 3,450.80 |
| 6 | 181.94 | 6 | 545.98 | 6 | 909.08 | 6 | 1,272.76 | 6 | 1,637.03 | 6 | 2,001.30 | 6 | 2,365.57 | 6 | 2,729.84 | 6 | 3,094.11 | 6 | 3,458.39 |
| 1/4 | 189.53 | 1/4 | 553.56 | 1/4 | 916.63 | 1/4 | 1,280.35 | 1/4 | 1,644.62 | 1/4 | 2,008.89 | 1/4 | 2,373.16 | 1/4 | 2,737.43 | 1/4 | 3,101.70 | 1/4 | 3,465.81 |
| 1/2 | 197.11 | 1/2 | 561.15 | 1/2 | 924.18 | 1/2 | 1,287.94 | 1/2 | 1,652.21 | 1/2 | 2,016.48 | 1/2 | 2,380.75 | 1/2 | 2,745.02 | 1/2 | 3,109.29 | 1/2 | 3,473.23 |
| 3/4 | 204.70 | 3/4 | 568.73 | 3/4 | 931.74 | 3/4 | 1,295.52 | 3/4 | 1,659.79 | 3/4 | 2,024.06 | 3/4 | 2,388.34 | 3/4 | 2,752.61 | 3/4 | 3,116.88 | 3/4 | 3,480.65 |
| 7 | 212.28 | 7 | 576.31 | 7 | 939.29 | 7 | 1,303.11 | 7 | 1,667.38 | 7 | 2,031.65 | 7 | 2,395.93 | 7 | 2,760.20 | 7 | 3,124.47 | 7 | 3,488.07 |
| 1/4 | 219.87 | 1/4 | 583.90 | 1/4 | 946.84 | 1/4 | 1,310.70 | 1/4 | 1,674.97 | 1/4 | 2,039.24 | 1/4 | 2,403.52 | 1/4 | 2,767.79 | 1/4 | 3,132.06 | 1/4 | 3,495.15 |
| 1/2 | 227.45 | 1/2 | 591.48 | 1/2 | 954.40 | 1/2 | 1,318.29 | 1/2 | 1,682.56 | 1/2 | 2,046.83 | 1/2 | 2,411.11 | 1/2 | 2,775.38 | 1/2 | 3,139.65 | 1/2 | 3,502.23 |
| 3/4 | 235.04 | 3/4 | 599.07 | 3/4 | 961.95 | 3/4 | 1,325.88 | 3/4 | 1,690.15 | 3/4 | 2,054.42 | 3/4 | 2,418.69 | 3/4 | 2,782.96 | 3/4 | 3,147.24 | 3/4 | 3,509.30 |
| 8 | 242.62 | 8 | 606.65 | 8 | 969.51 | 8 | 1,333.47 | 8 | 1,697.74 | 8 | 2,062.01 | 8 | 2,426.28 | 8 | 2,790.55 | 8 | 3,154.83 | 8 | 3,516.38 |
| 1/4 | 250.20 | 1/4 | 614.23 | 1/4 | 977.06 | 1/4 | 1,341.06 | 1/4 | 1,705.33 | 1/4 | 2,069.60 | 1/4 | 2,433.87 | 1/4 | 2,798.14 | 1/4 | 3,162.42 | 1/4 | 3,523.11 |
| 1/2 | 257.79 | 1/2 | 621.82 | 1/2 | 984.62 | 1/2 | 1,348.65 | 1/2 | 1,712.92 | 1/2 | 2,077.19 | 1/2 | 2,441.46 | 1/2 | 2,805.73 | 1/2 | 3,170.01 | 1/2 | 3,529.85 |
| 3/4 | 265.37 | 3/4 | 629.40 | 3/4 | 992.17 | 3/4 | 1,356.23 | 3/4 | 1,720.50 | 3/4 | 2,084.78 | 3/4 | 2,449.05 | 3/4 | 2,813.32 | 3/4 | 3,177.59 | 3/4 | 3,536.58 |
| 9 | 272.95 | 9 | 636.98 | 9 | 999.73 | 9 | 1,363.82 | 9 | 1,728.09 | 9 | 2,092.37 | 9 | 2,456.64 | 9 | 2,820.91 | 9 | 3,185.18 | 9 | 3,543.31 |
| 1/4 | 280.54 | 1/4 | 644.57 | 1/4 | 1,007.28 | 1/4 | 1,371.41 | 1/4 | 1,735.68 | 1/4 | 2,099.96 | 1/4 | 2,464.23 | 1/4 | 2,828.50 | 1/4 | 3,192.77 | 1/4 | 3,549.70 |
| 1/2 | 288.12 | 1/2 | 652.15 | 1/2 | 1,014.84 | 1/2 | 1,379.00 | 1/2 | 1,743.27 | 1/2 | 2,107.55 | 1/2 | 2,471.82 | 1/2 | 2,836.09 | 1/2 | 3,200.36 | 1/2 | 3,556.08 |
| 3/4 | 295.71 | 3/4 | 659.74 | 3/4 | 1,022.39 | 3/4 | 1,386.59 | 3/4 | 1,750.86 | 3/4 | 2,115.13 | 3/4 | 2,479.40 | 3/4 | 2,843.68 | 3/4 | 3,207.95 | 3/4 | 3,562.47 |
| 10 | 303.29 | 10 | 667.32 | 10 | 1,029.94 | 10 | 1,394.18 | 10 | 1,758.45 | 10 | 2,122.72 | 10 | 2,486.99 | 10 | 2,851.27 | 10 | 3,215.54 | 10 | 3,568.85 |
| 1/4 | 310.87 | 1/4 | 674.88 | 1/4 | 1,037.52 | 1/4 | 1,401.77 | 1/4 | 1,766.04 | 1/4 | 2,130.31 | 1/4 | 2,494.58 | 1/4 | 2,858.86 | 1/4 | 3,223.13 | 1/4 | 3,574.89 |
| 1/2 | 318.46 | 1/2 | 682.45 | 1/2 | 1,045.10 | 1/2 | 1,409.36 | 1/2 | 1,773.63 | 1/2 | 2,137.90 | 1/2 | 2,502.17 | 1/2 | 2,866.45 | 1/2 | 3,230.72 | 1/2 | 3,580.94 |
| 3/4 | 326.04 | 3/4 | 690.01 | 3/4 | 1,052.68 | 3/4 | 1,416.94 | 3/4 | 1,781.22 | 3/4 | 2,145.49 | 3/4 | 2,509.76 | 3/4 | 2,874.03 | 3/4 | 3,238.30 | 3/4 | 3,586.98 |
| 11 | 333.62 | 11 | 697.57 | 11 | 1,060.26 | 11 | 1,424.53 | 11 | 1,788.81 | 11 | 2,153.08 | 11 | 2,517.35 | 11 | 2,881.62 | 11 | 3,245.89 | 11 | 3,593.02 |
| 1/4 | 341.21 | 1/4 | 705.12 | 1/4 | 1,067.85 | 1/4 | 1,432.12 | 1/4 | 1,796.40 | 1/4 | 2,160.67 | 1/4 | 2,524.94 | 1/4 | 2,889.21 | 1/4 | 3,253.48 | 1/4 | 3,598.72 |
| 1/2 | 348.79 | 1/2 | 712.68 | 1/2 | 1,075.44 | 1/2 | 1,439.71 | 1/2 | 1,803.99 | 1/2 | 2,168.26 | 1/2 | 2,532.53 | 1/2 | 2,896.80 | 1/2 | 3,261.07 | 1/2 | 3,604.41 |
| 3/4 | 356.38 | 3/4 | 720.23 | 3/4 | 1,083.03 | 3/4 | 1,447.30 | 3/4 | 1,811.57 | 3/4 | 2,175.84 | 3/4 | 2,540.12 | 3/4 | 2,904.39 | 3/4 | 3,268.66 | 3/4 | 3,610.11 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "MM 138"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 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 | 3,615.80 | 0 | 3,868.91 | 0 | 4,121.63 | 0 | 4,374.35 | 0 | 4,627.07 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 3,621.16 | 1/4 | 3,874.18 | 1/4 | 4,126.90 | 1/4 | 4,379.62 | 1/4 | 4,632.04 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,626.53 | 1/2 | 3,879.44 | 1/2 | 4,132.16 | 1/2 | 4,384.88 | 1/2 | 4,637.02 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,631.89 | 3/4 | 3,884.71 | 3/4 | 4,137.43 | 3/4 | 4,390.15 | 3/4 | 4,641.99 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 3,637.25 | 1 | 3,889.97 | 1 | 4,142.69 | 1 | 4,395.41 | 1 | 4,646.96 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 3,642.52 | 1/4 | 3,895.24 | 1/4 | 4,147.96 | 1/4 | 4,400.68 | 1/4 | 4,651.25 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,647.78 | 1/2 | 3,900.50 | 1/2 | 4,153.22 | 1/2 | 4,405.94 | 1/2 | 4,655.54 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,653.05 | 3/4 | 3,905.77 | 3/4 | 4,158.49 | 3/4 | 4,411.21 | 3/4 | 4,659.83 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 3,658.31 | 2 | 3,911.03 | 2 | 4,163.75 | 2 | 4,416.47 | 2 | 4,664.12 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 3,663.58 | 1/4 | 3,916.30 | 1/4 | 4,169.02 | 1/4 | 4,421.74 | 1/4 | 4,667.63 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,668.84 | 1/2 | 3,921.56 | 1/2 | 4,174.28 | 1/2 | 4,427.00 | 1/2 | 4,671.14 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,674.11 | 3/4 | 3,926.83 | 3/4 | 4,179.55 | 3/4 | 4,432.27 | 3/4 | 4,674.64 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 3,679.37 | 3 | 3,932.09 | 3 | 4,184.81 | 3 | 4,437.53 | 3 | 4,678.15 | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 3,684.64 | 1/4 | 3,937.36 | 1/4 | 4,190.08 | 1/4 | 4,442.80 | 1/4 | 4,680.88 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,689.90 | 1/2 | 3,942.62 | 1/2 | 4,195.34 | 1/2 | 4,448.06 | 1/2 | 4,683.60 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,695.17 | 3/4 | 3,947.89 | 3/4 | 4,200.61 | 3/4 | 4,453.33 | 3/4 | 4,686.33 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 3,700.43 | 4 | 3,953.15 | 4 | 4,205.87 | 4 | 4,458.59 | 4 | 4,689.05 | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 3,705.70 | 1/4 | 3,958.42 | 1/4 | 4,211.14 | 1/4 | 4,463.86 | 1/4 | 4,691.00 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,710.96 | 1/2 | 3,963.68 | 1/2 | 4,216.40 | 1/2 | 4,469.12 | 1/2 | 4,692.95 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,716.23 | 3/4 | 3,968.95 | 3/4 | 4,221.67 | 3/4 | 4,474.39 | 3/4 | 4,694.90 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 3,721.49 | 5 | 3,974.21 | 5 | 4,226.93 | 5 | 4,479.65 | 5 | 4,696.85 | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 3,726.76 | 1/4 | 3,979.48 | 1/4 | 4,232.20 | 1/4 | 4,484.92 | 1/4 | 4,698.02 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,732.02 | 1/2 | 3,984.74 | 1/2 | 4,237.46 | 1/2 | 4,490.18 | 1/2 | 4,699.18 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,737.29 | 3/4 | 3,990.01 | 3/4 | 4,242.73 | 3/4 | 4,495.45 | 3/4 | 4,700.35 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 3,742.55 | 6 | 3,995.27 | 6 | 4,247.99 | 6 | 4,500.71 | 6 | 4,701.51 | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 3,747.82 | 1/4 | 4,000.54 | 1/4 | 4,253.26 | 1/4 | 4,505.98 | 1/4 | 4,701.97 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,753.08 | 1/2 | 4,005.80 | 1/2 | 4,258.52 | 1/2 | 4,511.24 | 1/2 | 4,702.43 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,758.35 | 3/4 | 4,011.07 | 3/4 | 4,263.79 | 3/4 | 4,516.51 | 3/4 | 4,702.89 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 3,763.61 | 7 | 4,016.33 | 7 | 4,269.05 | 7 | 4,521.77 | 7 | 4,703.35 | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 3,768.88 | 1/4 | 4,021.60 | 1/4 | 4,274.32 | 1/4 | 4,527.04 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,774.14 | 1/2 | 4,026.86 | 1/2 | 4,279.58 | 1/2 | 4,532.30 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,779.41 | 3/4 | 4,032.13 | 3/4 | 4,284.85 | 3/4 | 4,537.57 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 3,784.67 | 8 | 4,037.39 | 8 | 4,290.11 | 8 | 4,542.83 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 3,789.94 | 1/4 | 4,042.66 | 1/4 | 4,295.38 | 1/4 | 4,548.10 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,795.20 | 1/2 | 4,047.92 | 1/2 | 4,300.64 | 1/2 | 4,553.36 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,800.47 | 3/4 | 4,053.19 | 3/4 | 4,305.91 | 3/4 | 4,558.63 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 3,805.73 | 9 | 4,058.45 | 9 | 4,311.17 | 9 | 4,563.89 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 3,811.00 | 1/4 | 4,063.72 | 1/4 | 4,316.44 | 1/4 | 4,569.16 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,816.26 | 1/2 | 4,068.98 | 1/2 | 4,321.70 | 1/2 | 4,574.42 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,821.53 | 3/4 | 4,074.25 | 3/4 | 4,326.97 | 3/4 | 4,579.69 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 3,826.79 | 10 | 4,079.51 | 10 | 4,332.23 | 10 | 4,584.95 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 3,832.06 | 1/4 | 4,084.78 | 1/4 | 4,337.50 | 1/4 | 4,590.22 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,837.32 | 1/2 | 4,090.04 | 1/2 | 4,342.76 | 1/2 | 4,595.48 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,842.59 | 3/4 | 4,095.31 | 3/4 | 4,348.03 | 3/4 | 4,600.75 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 3,847.85 | 11 | 4,100.57 | 11 | 4,353.29 | 11 | 4,606.01 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 3,853.12 | 1/4 | 4,105.84 | 1/4 | 4,358.56 | 1/4 | 4,611.28 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,858.38 | 1/2 | 4,111.10 | 1/2 | 4,363.82 | 1/2 | 4,616.54 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,863.65 | 3/4 | 4,116.37 | 3/4 | 4,369.09 | 3/4 | 4,621.81 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

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BARGE "MM 138"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 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 | 14.03 | 0 | 363.96 | 0 | 727.78 | 0 | 1,090.62 | 0 | 1,454.89 | 0 | 1,819.16 | 0 | 2,183.43 | 0 | 2,547.71 | 0 | 2,911.98 | 0 | 3,276.25 |
| 1/4 | 18.90 | 1/4 | 371.55 | 1/4 | 735.34 | 1/4 | 1,098.21 | 1/4 | 1,462.48 | 1/4 | 1,826.75 | 1/4 | 2,191.02 | 1/4 | 2,555.30 | 1/4 | 2,919.57 | 1/4 | 3,283.84 |
| 1/2 | 23.78 | 1/2 | 379.13 | 1/2 | 742.89 | 1/2 | 1,105.80 | 1/2 | 1,470.07 | 1/2 | 1,834.34 | 1/2 | 2,198.61 | 1/2 | 2,562.89 | 1/2 | 2,927.16 | 1/2 | 3,291.43 |
| 3/4 | 28.65 | 3/4 | 386.72 | 3/4 | 750.45 | 3/4 | 1,113.39 | 3/4 | 1,477.66 | 3/4 | 1,841.93 | 3/4 | 2,206.20 | 3/4 | 2,570.47 | 3/4 | 2,934.74 | 3/4 | 3,299.02 |
| 1 | 33.52 | 1 | 394.30 | 1 | 758.00 | 1 | 1,120.98 | 1 | 1,485.25 | 1 | 1,849.52 | 1 | 2,213.79 | 1 | 2,578.06 | 1 | 2,942.33 | 1 | 3,306.61 |
| 1/4 | 40.29 | 1/4 | 401.88 | 1/4 | 765.55 | 1/4 | 1,128.57 | 1/4 | 1,492.84 | 1/4 | 1,857.11 | 1/4 | 2,221.38 | 1/4 | 2,585.65 | 1/4 | 2,949.92 | 1/4 | 3,314.20 |
| 1/2 | 47.06 | 1/2 | 409.47 | 1/2 | 773.11 | 1/2 | 1,136.16 | 1/2 | 1,500.43 | 1/2 | 1,864.70 | 1/2 | 2,228.97 | 1/2 | 2,593.24 | 1/2 | 2,957.51 | 1/2 | 3,321.79 |
| 3/4 | 53.83 | 3/4 | 417.05 | 3/4 | 780.66 | 3/4 | 1,143.74 | 3/4 | 1,508.01 | 3/4 | 1,872.28 | 3/4 | 2,236.56 | 3/4 | 2,600.83 | 3/4 | 2,965.10 | 3/4 | 3,329.37 |
| 2 | 60.60 | 2 | 424.63 | 2 | 788.21 | 2 | 1,151.33 | 2 | 1,515.60 | 2 | 1,879.87 | 2 | 2,244.15 | 2 | 2,608.42 | 2 | 2,972.69 | 2 | 3,336.96 |
| 1/4 | 68.19 | 1/4 | 432.22 | 1/4 | 795.77 | 1/4 | 1,158.92 | 1/4 | 1,523.19 | 1/4 | 1,887.46 | 1/4 | 2,251.74 | 1/4 | 2,616.01 | 1/4 | 2,980.28 | 1/4 | 3,344.55 |
| 1/2 | 75.77 | 1/2 | 439.80 | 1/2 | 803.32 | 1/2 | 1,166.51 | 1/2 | 1,530.78 | 1/2 | 1,895.05 | 1/2 | 2,259.33 | 1/2 | 2,623.60 | 1/2 | 2,987.87 | 1/2 | 3,352.14 |
| 3/4 | 83.36 | 3/4 | 447.39 | 3/4 | 810.87 | 3/4 | 1,174.10 | 3/4 | 1,538.37 | 3/4 | 1,902.64 | 3/4 | 2,266.91 | 3/4 | 2,631.18 | 3/4 | 2,995.46 | 3/4 | 3,359.73 |
| 3 | 90.94 | 3 | 454.97 | 3 | 818.43 | 3 | 1,181.69 | 3 | 1,545.96 | 3 | 1,910.23 | 3 | 2,274.50 | 3 | 2,638.77 | 3 | 3,003.05 | 3 | 3,367.32 |
| 1/4 | 98.52 | 1/4 | 462.55 | 1/4 | 825.98 | 1/4 | 1,189.28 | 1/4 | 1,553.55 | 1/4 | 1,917.82 | 1/4 | 2,281.97 | 1/4 | 2,646.36 | 1/4 | 3,010.64 | 1/4 | 3,374.91 |
| 1/2 | 106.11 | 1/2 | 470.14 | 1/2 | 833.54 | 1/2 | 1,196.87 | 1/2 | 1,561.14 | 1/2 | 1,925.41 | 1/2 | 2,289.43 | 1/2 | 2,653.95 | 1/2 | 3,018.23 | 1/2 | 3,382.50 |
| 3/4 | 113.69 | 3/4 | 477.72 | 3/4 | 841.09 | 3/4 | 1,204.45 | 3/4 | 1,568.72 | 3/4 | 1,933.00 | 3/4 | 2,296.90 | 3/4 | 2,661.54 | 3/4 | 3,025.81 | 3/4 | 3,390.08 |
| 4 | 121.27 | 4 | 485.30 | 4 | 848.65 | 4 | 1,212.04 | 4 | 1,576.31 | 4 | 1,940.59 | 4 | 2,304.36 | 4 | 2,669.13 | 4 | 3,033.40 | 4 | 3,397.67 |
| 1/4 | 128.86 | 1/4 | 492.88 | 1/4 | 856.20 | 1/4 | 1,219.63 | 1/4 | 1,583.90 | 1/4 | 1,948.18 | 1/4 | 2,312.07 | 1/4 | 2,676.72 | 1/4 | 3,040.99 | 1/4 | 3,405.26 |
| 1/2 | 136.44 | 1/2 | 500.47 | 1/2 | 863.75 | 1/2 | 1,227.22 | 1/2 | 1,591.49 | 1/2 | 1,955.77 | 1/2 | 2,319.79 | 1/2 | 2,684.31 | 1/2 | 3,048.58 | 1/2 | 3,412.85 |
| 3/4 | 144.03 | 3/4 | 508.05 | 3/4 | 871.31 | 3/4 | 1,234.81 | 3/4 | 1,599.08 | 3/4 | 1,963.35 | 3/4 | 2,327.50 | 3/4 | 2,691.90 | 3/4 | 3,056.17 | 3/4 | 3,420.44 |
| 5 | 151.61 | 5 | 515.64 | 5 | 878.86 | 5 | 1,242.40 | 5 | 1,606.67 | 5 | 1,970.94 | 5 | 2,335.21 | 5 | 2,699.49 | 5 | 3,063.76 | 5 | 3,428.03 |
| 1/4 | 159.19 | 1/4 | 523.22 | 1/4 | 886.41 | 1/4 | 1,249.99 | 1/4 | 1,614.26 | 1/4 | 1,978.53 | 1/4 | 2,342.80 | 1/4 | 2,707.08 | 1/4 | 3,071.35 | 1/4 | 3,435.62 |
| 1/2 | 166.78 | 1/2 | 530.81 | 1/2 | 893.97 | 1/2 | 1,257.58 | 1/2 | 1,621.85 | 1/2 | 1,986.12 | 1/2 | 2,350.39 | 1/2 | 2,714.67 | 1/2 | 3,078.94 | 1/2 | 3,443.21 |
| 3/4 | 174.36 | 3/4 | 538.40 | 3/4 | 901.52 | 3/4 | 1,265.17 | 3/4 | 1,629.44 | 3/4 | 1,993.71 | 3/4 | 2,357.98 | 3/4 | 2,722.25 | 3/4 | 3,086.52 | 3/4 | 3,450.80 |
| 6 | 181.94 | 6 | 545.98 | 6 | 909.08 | 6 | 1,272.76 | 6 | 1,637.03 | 6 | 2,001.30 | 6 | 2,365.57 | 6 | 2,729.84 | 6 | 3,094.11 | 6 | 3,458.39 |
| 1/4 | 189.53 | 1/4 | 553.56 | 1/4 | 916.63 | 1/4 | 1,280.35 | 1/4 | 1,644.62 | 1/4 | 2,008.89 | 1/4 | 2,373.16 | 1/4 | 2,737.43 | 1/4 | 3,101.70 | 1/4 | 3,465.81 |
| 1/2 | 197.11 | 1/2 | 561.15 | 1/2 | 924.18 | 1/2 | 1,287.94 | 1/2 | 1,652.21 | 1/2 | 2,016.48 | 1/2 | 2,380.75 | 1/2 | 2,745.02 | 1/2 | 3,109.29 | 1/2 | 3,473.23 |
| 3/4 | 204.70 | 3/4 | 568.73 | 3/4 | 931.74 | 3/4 | 1,295.52 | 3/4 | 1,659.79 | 3/4 | 2,024.06 | 3/4 | 2,388.34 | 3/4 | 2,752.61 | 3/4 | 3,116.88 | 3/4 | 3,480.65 |
| 7 | 212.28 | 7 | 576.31 | 7 | 939.29 | 7 | 1,303.11 | 7 | 1,667.38 | 7 | 2,031.65 | 7 | 2,395.93 | 7 | 2,760.20 | 7 | 3,124.47 | 7 | 3,488.07 |
| 1/4 | 219.87 | 1/4 | 583.90 | 1/4 | 946.84 | 1/4 | 1,310.70 | 1/4 | 1,674.97 | 1/4 | 2,039.24 | 1/4 | 2,403.52 | 1/4 | 2,767.79 | 1/4 | 3,132.06 | 1/4 | 3,495.15 |
| 1/2 | 227.45 | 1/2 | 591.48 | 1/2 | 954.40 | 1/2 | 1,318.29 | 1/2 | 1,682.56 | 1/2 | 2,046.83 | 1/2 | 2,411.11 | 1/2 | 2,775.38 | 1/2 | 3,139.65 | 1/2 | 3,502.23 |
| 3/4 | 235.04 | 3/4 | 599.07 | 3/4 | 961.95 | 3/4 | 1,325.88 | 3/4 | 1,690.15 | 3/4 | 2,054.42 | 3/4 | 2,418.69 | 3/4 | 2,782.96 | 3/4 | 3,147.24 | 3/4 | 3,509.30 |
| 8 | 242.62 | 8 | 606.65 | 8 | 969.51 | 8 | 1,333.47 | 8 | 1,697.74 | 8 | 2,062.01 | 8 | 2,426.28 | 8 | 2,790.55 | 8 | 3,154.83 | 8 | 3,516.38 |
| 1/4 | 250.20 | 1/4 | 614.23 | 1/4 | 977.06 | 1/4 | 1,341.06 | 1/4 | 1,705.33 | 1/4 | 2,069.60 | 1/4 | 2,433.87 | 1/4 | 2,798.14 | 1/4 | 3,162.42 | 1/4 | 3,523.11 |
| 1/2 | 257.79 | 1/2 | 621.82 | 1/2 | 984.62 | 1/2 | 1,348.65 | 1/2 | 1,712.92 | 1/2 | 2,077.19 | 1/2 | 2,441.46 | 1/2 | 2,805.73 | 1/2 | 3,170.01 | 1/2 | 3,529.85 |
| 3/4 | 265.37 | 3/4 | 629.40 | 3/4 | 992.17 | 3/4 | 1,356.23 | 3/4 | 1,720.50 | 3/4 | 2,084.78 | 3/4 | 2,449.05 | 3/4 | 2,813.32 | 3/4 | 3,177.59 | 3/4 | 3,536.58 |
| 9 | 272.95 | 9 | 636.98 | 9 | 999.73 | 9 | 1,363.82 | 9 | 1,728.09 | 9 | 2,092.37 | 9 | 2,456.64 | 9 | 2,820.91 | 9 | 3,185.18 | 9 | 3,543.31 |
| 1/4 | 280.54 | 1/4 | 644.57 | 1/4 | 1,007.28 | 1/4 | 1,371.41 | 1/4 | 1,735.68 | 1/4 | 2,099.96 | 1/4 | 2,464.23 | 1/4 | 2,828.50 | 1/4 | 3,192.77 | 1/4 | 3,549.70 |
| 1/2 | 288.12 | 1/2 | 652.15 | 1/2 | 1,014.84 | 1/2 | 1,379.00 | 1/2 | 1,743.27 | 1/2 | 2,107.55 | 1/2 | 2,471.82 | 1/2 | 2,836.09 | 1/2 | 3,200.36 | 1/2 | 3,556.08 |
| 3/4 | 295.71 | 3/4 | 659.74 | 3/4 | 1,022.39 | 3/4 | 1,386.59 | 3/4 | 1,750.86 | 3/4 | 2,115.13 | 3/4 | 2,479.40 | 3/4 | 2,843.68 | 3/4 | 3,207.95 | 3/4 | 3,562.47 |
| 10 | 303.29 | 10 | 667.32 | 10 | 1,029.94 | 10 | 1,394.18 | 10 | 1,758.45 | 10 | 2,122.72 | 10 | 2,486.99 | 10 | 2,851.27 | 10 | 3,215.54 | 10 | 3,568.85 |
| 1/4 | 310.87 | 1/4 | 674.88 | 1/4 | 1,037.52 | 1/4 | 1,401.77 | 1/4 | 1,766.04 | 1/4 | 2,130.31 | 1/4 | 2,494.58 | 1/4 | 2,858.86 | 1/4 | 3,223.13 | 1/4 | 3,574.89 |
| 1/2 | 318.46 | 1/2 | 682.45 | 1/2 | 1,045.10 | 1/2 | 1,409.36 | 1/2 | 1,773.63 | 1/2 | 2,137.90 | 1/2 | 2,502.17 | 1/2 | 2,866.45 | 1/2 | 3,230.72 | 1/2 | 3,580.94 |
| 3/4 | 326.04 | 3/4 | 690.01 | 3/4 | 1,052.68 | 3/4 | 1,416.94 | 3/4 | 1,781.22 | 3/4 | 2,145.49 | 3/4 | 2,509.76 | 3/4 | 2,874.03 | 3/4 | 3,238.30 | 3/4 | 3,586.98 |
| 11 | 333.62 | 11 | 697.57 | 11 | 1,060.26 | 11 | 1,424.53 | 11 | 1,788.81 | 11 | 2,153.08 | 11 | 2,517.35 | 11 | 2,881.62 | 11 | 3,245.89 | 11 | 3,593.02 |
| 1/4 | 341.21 | 1/4 | 705.12 | 1/4 | 1,067.85 | 1/4 | 1,432.12 | 1/4 | 1,796.40 | 1/4 | 2,160.67 | 1/4 | 2,524.94 | 1/4 | 2,889.21 | 1/4 | 3,253.48 | 1/4 | 3,598.72 |
| 1/2 | 348.79 | 1/2 | 712.68 | 1/2 | 1,075.44 | 1/2 | 1,439.71 | 1/2 | 1,803.99 | 1/2 | 2,168.26 | 1/2 | 2,532.53 | 1/2 | 2,896.80 | 1/2 | 3,261.07 | 1/2 | 3,604.41 |
| 3/4 | 356.38 | 3/4 | 720.23 | 3/4 | 1,083.03 | 3/4 | 1,447.30 | 3/4 | 1,811.57 | 3/4 | 2,175.84 | 3/4 | 2,540.12 | 3/4 | 2,904.39 | 3/4 | 3,268.66 | 3/4 | 3,610.11 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP LIP OF 2" HERMETIC VALVE.
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 43'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "MM 138"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-04 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 | 3,615.80 | 0 | 3,868.91 | 0 | 4,121.63 | 0 | 4,374.35 | 0 | 4,627.07 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 3,621.16 | 1/4 | 3,874.18 | 1/4 | 4,126.90 | 1/4 | 4,379.62 | 1/4 | 4,632.04 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,626.53 | 1/2 | 3,879.44 | 1/2 | 4,132.16 | 1/2 | 4,384.88 | 1/2 | 4,637.02 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,631.89 | 3/4 | 3,884.71 | 3/4 | 4,137.43 | 3/4 | 4,390.15 | 3/4 | 4,641.99 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 3,637.25 | 1 | 3,889.97 | 1 | 4,142.69 | 1 | 4,395.41 | 1 | 4,646.96 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 3,642.52 | 1/4 | 3,895.24 | 1/4 | 4,147.96 | 1/4 | 4,400.68 | 1/4 | 4,651.25 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,647.78 | 1/2 | 3,900.50 | 1/2 | 4,153.22 | 1/2 | 4,405.94 | 1/2 | 4,655.54 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,653.05 | 3/4 | 3,905.77 | 3/4 | 4,158.49 | 3/4 | 4,411.21 | 3/4 | 4,659.83 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 3,658.31 | 2 | 3,911.03 | 2 | 4,163.75 | 2 | 4,416.47 | 2 | 4,664.12 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 3,663.58 | 1/4 | 3,916.30 | 1/4 | 4,169.02 | 1/4 | 4,421.74 | 1/4 | 4,667.63 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,668.84 | 1/2 | 3,921.56 | 1/2 | 4,174.28 | 1/2 | 4,427.00 | 1/2 | 4,671.14 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,674.11 | 3/4 | 3,926.83 | 3/4 | 4,179.55 | 3/4 | 4,432.27 | 3/4 | 4,674.64 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 3,679.37 | 3 | 3,932.09 | 3 | 4,184.81 | 3 | 4,437.53 | 3 | 4,678.15 | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 3,684.64 | 1/4 | 3,937.36 | 1/4 | 4,190.08 | 1/4 | 4,442.80 | 1/4 | 4,680.88 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,689.90 | 1/2 | 3,942.62 | 1/2 | 4,195.34 | 1/2 | 4,448.06 | 1/2 | 4,683.60 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,695.17 | 3/4 | 3,947.89 | 3/4 | 4,200.61 | 3/4 | 4,453.33 | 3/4 | 4,686.33 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 3,700.43 | 4 | 3,953.15 | 4 | 4,205.87 | 4 | 4,458.59 | 4 | 4,689.05 | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 3,705.70 | 1/4 | 3,958.42 | 1/4 | 4,211.14 | 1/4 | 4,463.86 | 1/4 | 4,691.00 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,710.96 | 1/2 | 3,963.68 | 1/2 | 4,216.40 | 1/2 | 4,469.12 | 1/2 | 4,692.95 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,716.23 | 3/4 | 3,968.95 | 3/4 | 4,221.67 | 3/4 | 4,474.39 | 3/4 | 4,694.90 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 3,721.49 | 5 | 3,974.21 | 5 | 4,226.93 | 5 | 4,479.65 | 5 | 4,696.85 | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 3,726.76 | 1/4 | 3,979.48 | 1/4 | 4,232.20 | 1/4 | 4,484.92 | 1/4 | 4,698.02 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,732.02 | 1/2 | 3,984.74 | 1/2 | 4,237.46 | 1/2 | 4,490.18 | 1/2 | 4,699.18 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,737.29 | 3/4 | 3,990.01 | 3/4 | 4,242.73 | 3/4 | 4,495.45 | 3/4 | 4,700.35 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 3,742.55 | 6 | 3,995.27 | 6 | 4,247.99 | 6 | 4,500.71 | 6 | 4,701.51 | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 3,747.82 | 1/4 | 4,000.54 | 1/4 | 4,253.26 | 1/4 | 4,505.98 | 1/4 | 4,701.97 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,753.08 | 1/2 | 4,005.80 | 1/2 | 4,258.52 | 1/2 | 4,511.24 | 1/2 | 4,702.43 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,758.35 | 3/4 | 4,011.07 | 3/4 | 4,263.79 | 3/4 | 4,516.51 | 3/4 | 4,702.89 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 3,763.61 | 7 | 4,016.33 | 7 | 4,269.05 | 7 | 4,521.77 | 7 | 4,703.35 | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 3,768.88 | 1/4 | 4,021.60 | 1/4 | 4,274.32 | 1/4 | 4,527.04 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,774.14 | 1/2 | 4,026.86 | 1/2 | 4,279.58 | 1/2 | 4,532.30 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,779.41 | 3/4 | 4,032.13 | 3/4 | 4,284.85 | 3/4 | 4,537.57 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 3,784.67 | 8 | 4,037.39 | 8 | 4,290.11 | 8 | 4,542.83 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 3,789.94 | 1/4 | 4,042.66 | 1/4 | 4,295.38 | 1/4 | 4,548.10 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,795.20 | 1/2 | 4,047.92 | 1/2 | 4,300.64 | 1/2 | 4,553.36 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,800.47 | 3/4 | 4,053.19 | 3/4 | 4,305.91 | 3/4 | 4,558.63 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 3,805.73 | 9 | 4,058.45 | 9 | 4,311.17 | 9 | 4,563.89 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 3,811.00 | 1/4 | 4,063.72 | 1/4 | 4,316.44 | 1/4 | 4,569.16 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,816.26 | 1/2 | 4,068.98 | 1/2 | 4,321.70 | 1/2 | 4,574.42 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,821.53 | 3/4 | 4,074.25 | 3/4 | 4,326.97 | 3/4 | 4,579.69 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 3,826.79 | 10 | 4,079.51 | 10 | 4,332.23 | 10 | 4,584.95 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 3,832.06 | 1/4 | 4,084.78 | 1/4 | 4,337.50 | 1/4 | 4,590.22 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,837.32 | 1/2 | 4,090.04 | 1/2 | 4,342.76 | 1/2 | 4,595.48 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,842.59 | 3/4 | 4,095.31 | 3/4 | 4,348.03 | 3/4 | 4,600.75 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 3,847.85 | 11 | 4,100.57 | 11 | 4,353.29 | 11 | 4,606.01 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 3,853.12 | 1/4 | 4,105.84 | 1/4 | 4,358.56 | 1/4 | 4,611.28 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 3,858.38 | 1/2 | 4,111.10 | 1/2 | 4,363.82 | 1/2 | 4,616.54 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 3,863.65 | 3/4 | 4,116.37 | 3/4 | 4,369.09 | 3/4 | 4,621.81 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

STRAPPED: 07/15/1999
DECK MEASUREMENTS: 05/11/2016 SW
PRINTED: 05/11/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2016

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