



# BARGE "E2MS 102"

## INNAGE 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> |
| <b>1 CENTER</b> | 00-1/4     | - 00-1/4     | 00-1/2     | - 00-1/2     | 00-5/8     | - 00-5/8     | 00-7/8     | - 00-7/8     | 01-1/8     | - 01-1/8     | 01-3/8     | - 01-3/8     |
| <b>2 CENTER</b> | - 00-1/8   | 00-1/8       | - 00-1/4   | 00-1/4       | - 00-3/8   | 00-3/8       | - 00-3/8   | 00-3/8       | - 00-1/2   | 00-1/2       | - 00-5/8   | 00-5/8       |
| <b>3 CENTER</b> | 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     |

(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 3 CENTER IS - 00-3/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 3 CENTER, THE TRIM CORRECTED INNAGE IS 3'-11 5/8"

LENGTH BETWEEN DRAFT MARKS: 166'-09"

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# BARGE "E2MS 102"

## 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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   | 4.09   | 0   | 225.00 | 0   | 477.76 | 0   | 727.14 | 0   | 976.12   | 0   | 1,228.14 | 0   | 1,480.17 | 0   | 1,731.95 | 0   | 1,983.55 | 0   | 2,235.64 |
| 1/4 | 4.97   | 1/4 | 230.26 | 1/4 | 483.02 | 1/4 | 732.24 | 1/4 | 981.37   | 1/4 | 1,233.39 | 1/4 | 1,485.42 | 1/4 | 1,737.18 | 1/4 | 1,988.80 | 1/4 | 2,240.90 |
| 1/2 | 5.85   | 1/2 | 235.53 | 1/2 | 488.29 | 1/2 | 737.33 | 1/2 | 986.62   | 1/2 | 1,238.64 | 1/2 | 1,490.67 | 1/2 | 1,742.42 | 1/2 | 1,994.05 | 1/2 | 2,246.15 |
| 3/4 | 6.72   | 3/4 | 240.79 | 3/4 | 493.55 | 3/4 | 742.42 | 3/4 | 991.87   | 3/4 | 1,243.89 | 3/4 | 1,495.92 | 3/4 | 1,747.65 | 3/4 | 1,999.30 | 3/4 | 2,251.40 |
| 1   | 7.60   | 1   | 246.06 | 1   | 498.82 | 1   | 747.52 | 1   | 997.12   | 1   | 1,249.14 | 1   | 1,501.17 | 1   | 1,752.88 | 1   | 2,004.56 | 1   | 2,256.65 |
| 1/4 | 10.23  | 1/4 | 251.33 | 1/4 | 504.08 | 1/4 | 752.61 | 1/4 | 1,002.37 | 1/4 | 1,254.39 | 1/4 | 1,506.42 | 1/4 | 1,758.12 | 1/4 | 2,009.81 | 1/4 | 2,261.90 |
| 1/2 | 12.86  | 1/2 | 256.59 | 1/2 | 509.35 | 1/2 | 757.70 | 1/2 | 1,007.62 | 1/2 | 1,259.65 | 1/2 | 1,511.67 | 1/2 | 1,763.35 | 1/2 | 2,015.06 | 1/2 | 2,267.16 |
| 3/4 | 15.50  | 3/4 | 261.86 | 3/4 | 514.62 | 3/4 | 762.80 | 3/4 | 1,012.87 | 3/4 | 1,264.90 | 3/4 | 1,516.91 | 3/4 | 1,768.59 | 3/4 | 2,020.31 | 3/4 | 2,272.41 |
| 2   | 18.13  | 2   | 267.12 | 2   | 519.88 | 2   | 767.89 | 2   | 1,018.12 | 2   | 1,270.15 | 2   | 1,522.16 | 2   | 1,773.82 | 2   | 2,025.56 | 2   | 2,277.66 |
| 1/4 | 22.51  | 1/4 | 272.39 | 1/4 | 525.15 | 1/4 | 772.98 | 1/4 | 1,023.37 | 1/4 | 1,275.40 | 1/4 | 1,527.41 | 1/4 | 1,779.06 | 1/4 | 2,030.82 | 1/4 | 2,282.91 |
| 1/2 | 26.90  | 1/2 | 277.66 | 1/2 | 530.41 | 1/2 | 778.08 | 1/2 | 1,028.62 | 1/2 | 1,280.65 | 1/2 | 1,532.66 | 1/2 | 1,784.29 | 1/2 | 2,036.07 | 1/2 | 2,288.16 |
| 3/4 | 31.28  | 3/4 | 282.92 | 3/4 | 535.68 | 3/4 | 783.17 | 3/4 | 1,033.87 | 3/4 | 1,285.90 | 3/4 | 1,537.91 | 3/4 | 1,789.52 | 3/4 | 2,041.32 | 3/4 | 2,293.42 |
| 3   | 35.67  | 3   | 288.19 | 3   | 540.95 | 3   | 788.26 | 3   | 1,039.12 | 3   | 1,291.15 | 3   | 1,543.16 | 3   | 1,794.76 | 3   | 2,046.57 | 3   | 2,298.67 |
| 1/4 | 40.89  | 1/4 | 293.45 | 1/4 | 546.21 | 1/4 | 793.36 | 1/4 | 1,044.37 | 1/4 | 1,296.40 | 1/4 | 1,548.41 | 1/4 | 1,799.99 | 1/4 | 2,051.82 | 1/4 | 2,303.92 |
| 1/2 | 46.11  | 1/2 | 298.72 | 1/2 | 551.48 | 1/2 | 798.45 | 1/2 | 1,049.63 | 1/2 | 1,301.65 | 1/2 | 1,553.66 | 1/2 | 1,805.23 | 1/2 | 2,057.08 | 1/2 | 2,309.17 |
| 3/4 | 51.33  | 3/4 | 303.98 | 3/4 | 556.74 | 3/4 | 803.54 | 3/4 | 1,054.88 | 3/4 | 1,306.90 | 3/4 | 1,558.91 | 3/4 | 1,810.46 | 3/4 | 2,062.33 | 3/4 | 2,314.42 |
| 4   | 56.55  | 4   | 309.25 | 4   | 562.01 | 4   | 808.64 | 4   | 1,060.13 | 4   | 1,312.15 | 4   | 1,564.15 | 4   | 1,815.70 | 4   | 2,067.58 | 4   | 2,319.68 |
| 1/4 | 61.80  | 1/4 | 314.52 | 1/4 | 567.27 | 1/4 | 813.75 | 1/4 | 1,065.38 | 1/4 | 1,317.40 | 1/4 | 1,569.40 | 1/4 | 1,820.93 | 1/4 | 2,072.83 | 1/4 | 2,324.93 |
| 1/2 | 67.06  | 1/2 | 319.78 | 1/2 | 572.54 | 1/2 | 818.87 | 1/2 | 1,070.63 | 1/2 | 1,322.65 | 1/2 | 1,574.65 | 1/2 | 1,826.16 | 1/2 | 2,078.08 | 1/2 | 2,330.18 |
| 3/4 | 72.31  | 3/4 | 325.05 | 3/4 | 577.81 | 3/4 | 823.99 | 3/4 | 1,075.88 | 3/4 | 1,327.90 | 3/4 | 1,579.90 | 3/4 | 1,831.40 | 3/4 | 2,083.34 | 3/4 | 2,335.43 |
| 5   | 77.56  | 5   | 330.31 | 5   | 583.07 | 5   | 829.10 | 5   | 1,081.13 | 5   | 1,333.15 | 5   | 1,585.15 | 5   | 1,836.63 | 5   | 2,088.59 | 5   | 2,340.68 |
| 1/4 | 82.83  | 1/4 | 335.58 | 1/4 | 588.34 | 1/4 | 834.35 | 1/4 | 1,086.38 | 1/4 | 1,338.40 | 1/4 | 1,590.40 | 1/4 | 1,841.87 | 1/4 | 2,093.84 | 1/4 | 2,345.94 |
| 1/2 | 88.09  | 1/2 | 340.85 | 1/2 | 593.60 | 1/2 | 839.61 | 1/2 | 1,091.63 | 1/2 | 1,343.65 | 1/2 | 1,595.65 | 1/2 | 1,847.10 | 1/2 | 2,099.09 | 1/2 | 2,351.19 |
| 3/4 | 93.35  | 3/4 | 346.11 | 3/4 | 598.87 | 3/4 | 844.86 | 3/4 | 1,096.88 | 3/4 | 1,348.90 | 3/4 | 1,600.90 | 3/4 | 1,852.34 | 3/4 | 2,104.34 | 3/4 | 2,356.44 |
| 6   | 98.62  | 6   | 351.38 | 6   | 604.14 | 6   | 850.11 | 6   | 1,102.13 | 6   | 1,354.15 | 6   | 1,606.14 | 6   | 1,857.57 | 6   | 2,109.60 | 6   | 2,361.69 |
| 1/4 | 103.88 | 1/4 | 356.64 | 1/4 | 609.40 | 1/4 | 855.36 | 1/4 | 1,107.38 | 1/4 | 1,359.40 | 1/4 | 1,611.39 | 1/4 | 1,862.80 | 1/4 | 2,114.85 | 1/4 | 2,366.94 |
| 1/2 | 109.15 | 1/2 | 361.91 | 1/2 | 614.67 | 1/2 | 860.61 | 1/2 | 1,112.63 | 1/2 | 1,364.66 | 1/2 | 1,616.64 | 1/2 | 1,868.04 | 1/2 | 2,120.10 | 1/2 | 2,372.20 |
| 3/4 | 114.42 | 3/4 | 367.17 | 3/4 | 619.93 | 3/4 | 865.86 | 3/4 | 1,117.88 | 3/4 | 1,369.91 | 3/4 | 1,621.89 | 3/4 | 1,873.27 | 3/4 | 2,125.35 | 3/4 | 2,377.45 |
| 7   | 119.68 | 7   | 372.44 | 7   | 625.20 | 7   | 871.11 | 7   | 1,123.13 | 7   | 1,375.16 | 7   | 1,627.14 | 7   | 1,878.51 | 7   | 2,130.60 | 7   | 2,382.70 |
| 1/4 | 124.95 | 1/4 | 377.71 | 1/4 | 630.33 | 1/4 | 876.36 | 1/4 | 1,128.38 | 1/4 | 1,380.41 | 1/4 | 1,632.39 | 1/4 | 1,883.76 | 1/4 | 2,135.86 | 1/4 | 2,387.95 |
| 1/2 | 130.21 | 1/2 | 382.97 | 1/2 | 635.46 | 1/2 | 881.61 | 1/2 | 1,133.63 | 1/2 | 1,385.66 | 1/2 | 1,637.64 | 1/2 | 1,889.01 | 1/2 | 2,141.11 | 1/2 | 2,393.20 |
| 3/4 | 135.48 | 3/4 | 388.24 | 3/4 | 640.59 | 3/4 | 886.86 | 3/4 | 1,138.88 | 3/4 | 1,390.91 | 3/4 | 1,642.89 | 3/4 | 1,894.26 | 3/4 | 2,146.36 | 3/4 | 2,398.46 |
| 8   | 140.74 | 8   | 393.50 | 8   | 645.72 | 8   | 892.11 | 8   | 1,144.13 | 8   | 1,396.16 | 8   | 1,648.14 | 8   | 1,899.52 | 8   | 2,151.61 | 8   | 2,403.71 |
| 1/4 | 146.01 | 1/4 | 398.77 | 1/4 | 650.81 | 1/4 | 897.36 | 1/4 | 1,149.38 | 1/4 | 1,401.41 | 1/4 | 1,653.39 | 1/4 | 1,904.77 | 1/4 | 2,156.86 | 1/4 | 2,408.96 |
| 1/2 | 151.28 | 1/2 | 404.03 | 1/2 | 655.90 | 1/2 | 902.61 | 1/2 | 1,154.64 | 1/2 | 1,406.66 | 1/2 | 1,658.64 | 1/2 | 1,910.02 | 1/2 | 2,162.12 | 1/2 | 2,414.21 |
| 3/4 | 156.54 | 3/4 | 409.30 | 3/4 | 661.00 | 3/4 | 907.86 | 3/4 | 1,159.89 | 3/4 | 1,411.91 | 3/4 | 1,663.89 | 3/4 | 1,915.27 | 3/4 | 2,167.37 | 3/4 | 2,419.46 |
| 9   | 161.81 | 9   | 414.57 | 9   | 666.09 | 9   | 913.11 | 9   | 1,165.14 | 9   | 1,417.16 | 9   | 1,669.14 | 9   | 1,920.52 | 9   | 2,172.62 | 9   | 2,424.72 |
| 1/4 | 167.07 | 1/4 | 419.83 | 1/4 | 671.18 | 1/4 | 918.36 | 1/4 | 1,170.39 | 1/4 | 1,422.41 | 1/4 | 1,674.37 | 1/4 | 1,925.78 | 1/4 | 2,177.87 | 1/4 | 2,429.97 |
| 1/2 | 172.34 | 1/2 | 425.10 | 1/2 | 676.28 | 1/2 | 923.61 | 1/2 | 1,175.64 | 1/2 | 1,427.66 | 1/2 | 1,679.60 | 1/2 | 1,931.03 | 1/2 | 2,183.12 | 1/2 | 2,435.22 |
| 3/4 | 177.61 | 3/4 | 430.36 | 3/4 | 681.37 | 3/4 | 928.86 | 3/4 | 1,180.89 | 3/4 | 1,432.91 | 3/4 | 1,684.84 | 3/4 | 1,936.28 | 3/4 | 2,188.38 | 3/4 | 2,440.47 |
| 10  | 182.87 | 10  | 435.63 | 10  | 686.46 | 10  | 934.11 | 10  | 1,186.14 | 10  | 1,438.16 | 10  | 1,690.07 | 10  | 1,941.53 | 10  | 2,193.63 | 10  | 2,445.72 |
| 1/4 | 188.14 | 1/4 | 440.90 | 1/4 | 691.55 | 1/4 | 939.36 | 1/4 | 1,191.39 | 1/4 | 1,443.41 | 1/4 | 1,695.31 | 1/4 | 1,946.78 | 1/4 | 2,198.88 | 1/4 | 2,450.98 |
| 1/2 | 193.40 | 1/2 | 446.16 | 1/2 | 696.63 | 1/2 | 944.62 | 1/2 | 1,196.64 | 1/2 | 1,448.66 | 1/2 | 1,700.54 | 1/2 | 1,952.04 | 1/2 | 2,204.13 | 1/2 | 2,456.23 |
| 3/4 | 198.67 | 3/4 | 451.43 | 3/4 | 701.72 | 3/4 | 949.87 | 3/4 | 1,201.89 | 3/4 | 1,453.91 | 3/4 | 1,705.78 | 3/4 | 1,957.29 | 3/4 | 2,209.38 | 3/4 | 2,461.48 |
| 11  | 203.93 | 11  | 456.69 | 11  | 706.80 | 11  | 955.12 | 11  | 1,207.14 | 11  | 1,459.16 | 11  | 1,711.01 | 11  | 1,962.54 | 11  | 2,214.64 | 11  | 2,466.73 |
| 1/4 | 209.20 | 1/4 | 461.96 | 1/4 | 711.89 | 1/4 | 960.37 | 1/4 | 1,212.39 | 1/4 | 1,464.41 | 1/4 | 1,716.24 | 1/4 | 1,967.79 | 1/4 | 2,219.89 | 1/4 | 2,471.98 |
| 1/2 | 214.47 | 1/2 | 467.22 | 1/2 | 716.97 | 1/2 | 965.62 | 1/2 | 1,217.64 | 1/2 | 1,469.67 | 1/2 | 1,721.48 | 1/2 | 1,973.04 | 1/2 | 2,225.14 | 1/2 | 2,477.24 |
| 3/4 | 219.73 | 3/4 | 472.49 | 3/4 | 722.06 | 3/4 | 970.87 | 3/4 | 1,222.89 | 3/4 | 1,474.92 | 3/4 | 1,726.71 | 3/4 | 1,978.30 | 3/4 | 2,230.39 | 3/4 | 2,482.49 |

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 INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-03" FORWARD OF AFT BULKHEAD

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# BARGE "E2MS 102"

## 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

| IN  | 10 FT.   | IN  | 11 FT.   | IN  | 12 FT.   | IN  | 13 FT.   | IN  | 14 FT.   | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 2,487.74 | 0   | 2,724.94 | 0   | 2,941.56 | 0   | 3,158.19 | 0   | 3,374.81 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 2,492.99 | 1/4 | 2,729.45 | 1/4 | 2,946.08 | 1/4 | 3,162.70 | 1/4 | 3,379.32 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,498.24 | 1/2 | 2,733.96 | 1/2 | 2,950.59 | 1/2 | 3,167.21 | 1/2 | 3,383.84 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,503.50 | 3/4 | 2,738.48 | 3/4 | 2,955.10 | 3/4 | 3,171.73 | 3/4 | 3,388.35 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 2,508.75 | 1   | 2,742.99 | 1   | 2,959.61 | 1   | 3,176.24 | 1   | 3,392.86 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 2,514.00 | 1/4 | 2,747.50 | 1/4 | 2,964.13 | 1/4 | 3,180.75 | 1/4 | 3,397.38 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,519.25 | 1/2 | 2,752.02 | 1/2 | 2,968.64 | 1/2 | 3,185.26 | 1/2 | 3,401.89 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,524.50 | 3/4 | 2,756.53 | 3/4 | 2,973.15 | 3/4 | 3,189.78 | 3/4 | 3,406.40 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 2,529.76 | 2   | 2,761.04 | 2   | 2,977.67 | 2   | 3,194.29 | 2   | 3,410.91 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 2,535.01 | 1/4 | 2,765.56 | 1/4 | 2,982.18 | 1/4 | 3,198.80 | 1/4 | 3,415.43 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,540.26 | 1/2 | 2,770.07 | 1/2 | 2,986.69 | 1/2 | 3,203.32 | 1/2 | 3,419.94 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,545.51 | 3/4 | 2,774.58 | 3/4 | 2,991.21 | 3/4 | 3,207.83 | 3/4 | 3,424.45 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 2,550.76 | 3   | 2,779.09 | 3   | 2,995.72 | 3   | 3,212.34 | 3   | 3,428.96 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 2,556.02 | 1/4 | 2,783.61 | 1/4 | 3,000.23 | 1/4 | 3,216.86 | 1/4 | 3,433.46 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,561.27 | 1/2 | 2,788.12 | 1/2 | 3,004.74 | 1/2 | 3,221.37 | 1/2 | 3,437.96 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,566.52 | 3/4 | 2,792.63 | 3/4 | 3,009.26 | 3/4 | 3,225.88 | 3/4 | 3,442.46 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 2,571.77 | 4   | 2,797.15 | 4   | 3,013.77 | 4   | 3,230.39 | 4   | 3,446.96 | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 2,577.02 | 1/4 | 2,801.66 | 1/4 | 3,018.28 | 1/4 | 3,234.91 | 1/4 | 3,451.43 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,582.28 | 1/2 | 2,806.17 | 1/2 | 3,022.80 | 1/2 | 3,239.42 | 1/2 | 3,455.90 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,587.53 | 3/4 | 2,810.69 | 3/4 | 3,027.31 | 3/4 | 3,243.93 | 3/4 | 3,460.37 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 2,592.78 | 5   | 2,815.20 | 5   | 3,031.82 | 5   | 3,248.45 | 5   | 3,464.83 | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 2,598.03 | 1/4 | 2,819.71 | 1/4 | 3,036.34 | 1/4 | 3,252.96 | 1/4 | 3,469.22 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,603.28 | 1/2 | 2,824.22 | 1/2 | 3,040.85 | 1/2 | 3,257.47 | 1/2 | 3,473.60 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,608.54 | 3/4 | 2,828.74 | 3/4 | 3,045.36 | 3/4 | 3,261.99 | 3/4 | 3,477.99 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 2,613.79 | 6   | 2,833.25 | 6   | 3,049.87 | 6   | 3,266.50 | 6   | 3,482.38 | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 2,619.04 | 1/4 | 2,837.76 | 1/4 | 3,054.39 | 1/4 | 3,271.01 | 1/4 | 3,485.01 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,624.29 | 1/2 | 2,842.28 | 1/2 | 3,058.90 | 1/2 | 3,275.52 | 1/2 | 3,487.64 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,629.54 | 3/4 | 2,846.79 | 3/4 | 3,063.41 | 3/4 | 3,280.04 | 3/4 | 3,490.27 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 2,634.80 | 7   | 2,851.30 | 7   | 3,067.93 | 7   | 3,284.55 | 7   | 3,492.91 | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 2,639.29 | 1/4 | 2,855.82 | 1/4 | 3,072.44 | 1/4 | 3,289.06 | 1/4 | 3,493.78 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,643.79 | 1/2 | 2,860.33 | 1/2 | 3,076.95 | 1/2 | 3,293.58 | 1/2 | 3,494.66 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,648.29 | 3/4 | 2,864.84 | 3/4 | 3,081.47 | 3/4 | 3,298.09 | 3/4 | 3,495.54 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 2,652.79 | 8   | 2,869.35 | 8   | 3,085.98 | 8   | 3,302.60 | 8   | 3,496.41 | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 2,657.29 | 1/4 | 2,873.87 | 1/4 | 3,090.49 | 1/4 | 3,307.12 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,661.79 | 1/2 | 2,878.38 | 1/2 | 3,095.00 | 1/2 | 3,311.63 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,666.28 | 3/4 | 2,882.89 | 3/4 | 3,099.52 | 3/4 | 3,316.14 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 2,670.78 | 9   | 2,887.41 | 9   | 3,104.03 | 9   | 3,320.65 | 9   |          | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 2,675.30 | 1/4 | 2,891.92 | 1/4 | 3,108.54 | 1/4 | 3,325.17 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,679.81 | 1/2 | 2,896.43 | 1/2 | 3,113.06 | 1/2 | 3,329.68 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,684.32 | 3/4 | 2,900.95 | 3/4 | 3,117.57 | 3/4 | 3,334.19 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 2,688.83 | 10  | 2,905.46 | 10  | 3,122.08 | 10  | 3,338.71 | 10  |          | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 2,693.35 | 1/4 | 2,909.97 | 1/4 | 3,126.60 | 1/4 | 3,343.22 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,697.86 | 1/2 | 2,914.48 | 1/2 | 3,131.11 | 1/2 | 3,347.73 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,702.37 | 3/4 | 2,919.00 | 3/4 | 3,135.62 | 3/4 | 3,352.25 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 2,706.89 | 11  | 2,923.51 | 11  | 3,140.13 | 11  | 3,356.76 | 11  |          | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 2,711.40 | 1/4 | 2,928.02 | 1/4 | 3,144.65 | 1/4 | 3,361.27 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,715.91 | 1/2 | 2,932.54 | 1/2 | 3,149.16 | 1/2 | 3,365.78 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,720.43 | 3/4 | 2,937.05 | 3/4 | 3,153.67 | 3/4 | 3,370.30 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2018 CL  
CALCULATED: 08/01/2018 CL  
PRINTED: 08/01/2018 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2018

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



# BARGE "E2MS 102"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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   | 0.63   | 0   | 240.91 | 0   | 515.85 | 0   | 787.00   | 0   | 1,058.86 | 0   | 1,333.81 | 0   | 1,608.75 | 0   | 1,883.69 | 0   | 2,158.64 | 0   | 2,433.58 |
| 1/4 | 1.58   | 1/4 | 246.64 | 1/4 | 521.57 | 1/4 | 792.56   | 1/4 | 1,064.59 | 1/4 | 1,339.53 | 1/4 | 1,614.48 | 1/4 | 1,889.42 | 1/4 | 2,164.37 | 1/4 | 2,439.31 |
| 1/2 | 2.53   | 1/2 | 252.37 | 1/2 | 527.30 | 1/2 | 798.11   | 1/2 | 1,070.32 | 1/2 | 1,345.26 | 1/2 | 1,620.21 | 1/2 | 1,895.15 | 1/2 | 2,170.09 | 1/2 | 2,445.04 |
| 3/4 | 3.49   | 3/4 | 258.10 | 3/4 | 533.03 | 3/4 | 803.67   | 3/4 | 1,076.05 | 3/4 | 1,350.99 | 3/4 | 1,625.93 | 3/4 | 1,900.88 | 3/4 | 2,175.82 | 3/4 | 2,450.77 |
| 1   | 4.44   | 1   | 263.82 | 1   | 538.76 | 1   | 809.23   | 1   | 1,081.77 | 1   | 1,356.72 | 1   | 1,631.66 | 1   | 1,906.61 | 1   | 2,181.55 | 1   | 2,456.49 |
| 1/4 | 7.30   | 1/4 | 269.55 | 1/4 | 544.49 | 1/4 | 814.78   | 1/4 | 1,087.50 | 1/4 | 1,362.45 | 1/4 | 1,637.39 | 1/4 | 1,912.33 | 1/4 | 2,187.28 | 1/4 | 2,462.22 |
| 1/2 | 10.17  | 1/2 | 275.28 | 1/2 | 550.21 | 1/2 | 820.34   | 1/2 | 1,093.23 | 1/2 | 1,368.17 | 1/2 | 1,643.12 | 1/2 | 1,918.06 | 1/2 | 2,193.01 | 1/2 | 2,467.95 |
| 3/4 | 13.03  | 3/4 | 281.01 | 3/4 | 555.94 | 3/4 | 825.89   | 3/4 | 1,098.96 | 3/4 | 1,373.90 | 3/4 | 1,648.85 | 3/4 | 1,923.79 | 3/4 | 2,198.73 | 3/4 | 2,473.68 |
| 2   | 15.89  | 2   | 286.73 | 2   | 561.67 | 2   | 831.45   | 2   | 1,104.69 | 2   | 1,379.63 | 2   | 1,654.57 | 2   | 1,929.52 | 2   | 2,204.46 | 2   | 2,479.41 |
| 1/4 | 20.66  | 1/4 | 292.46 | 1/4 | 567.40 | 1/4 | 837.00   | 1/4 | 1,110.41 | 1/4 | 1,385.36 | 1/4 | 1,660.30 | 1/4 | 1,935.25 | 1/4 | 2,210.19 | 1/4 | 2,485.13 |
| 1/2 | 25.43  | 1/2 | 298.19 | 1/2 | 573.12 | 1/2 | 842.56   | 1/2 | 1,116.14 | 1/2 | 1,391.09 | 1/2 | 1,666.03 | 1/2 | 1,940.97 | 1/2 | 2,215.92 | 1/2 | 2,490.86 |
| 3/4 | 30.20  | 3/4 | 303.92 | 3/4 | 578.85 | 3/4 | 848.11   | 3/4 | 1,121.87 | 3/4 | 1,396.81 | 3/4 | 1,671.76 | 3/4 | 1,946.70 | 3/4 | 2,221.65 | 3/4 | 2,496.59 |
| 3   | 34.97  | 3   | 309.65 | 3   | 584.58 | 3   | 853.67   | 3   | 1,127.60 | 3   | 1,402.54 | 3   | 1,677.49 | 3   | 1,952.43 | 3   | 2,227.37 | 3   | 2,502.32 |
| 1/4 | 40.65  | 1/4 | 315.37 | 1/4 | 590.31 | 1/4 | 859.23   | 1/4 | 1,133.33 | 1/4 | 1,408.27 | 1/4 | 1,683.21 | 1/4 | 1,958.16 | 1/4 | 2,233.10 | 1/4 | 2,508.05 |
| 1/2 | 46.33  | 1/2 | 321.10 | 1/2 | 596.04 | 1/2 | 864.78   | 1/2 | 1,139.05 | 1/2 | 1,414.00 | 1/2 | 1,688.94 | 1/2 | 1,963.89 | 1/2 | 2,238.83 | 1/2 | 2,513.77 |
| 3/4 | 52.01  | 3/4 | 326.83 | 3/4 | 601.76 | 3/4 | 870.34   | 3/4 | 1,144.78 | 3/4 | 1,419.73 | 3/4 | 1,694.67 | 3/4 | 1,969.61 | 3/4 | 2,244.56 | 3/4 | 2,519.50 |
| 4   | 57.69  | 4   | 332.56 | 4   | 607.49 | 4   | 875.90   | 4   | 1,150.51 | 4   | 1,425.45 | 4   | 1,700.40 | 4   | 1,975.34 | 4   | 2,250.29 | 4   | 2,525.23 |
| 1/4 | 63.40  | 1/4 | 338.28 | 1/4 | 613.22 | 1/4 | 881.54   | 1/4 | 1,156.24 | 1/4 | 1,431.18 | 1/4 | 1,706.13 | 1/4 | 1,981.07 | 1/4 | 2,256.01 | 1/4 | 2,530.96 |
| 1/2 | 69.11  | 1/2 | 344.01 | 1/2 | 618.95 | 1/2 | 887.19   | 1/2 | 1,161.97 | 1/2 | 1,436.91 | 1/2 | 1,711.85 | 1/2 | 1,986.80 | 1/2 | 2,261.74 | 1/2 | 2,536.69 |
| 3/4 | 74.83  | 3/4 | 349.74 | 3/4 | 624.67 | 3/4 | 892.83   | 3/4 | 1,167.69 | 3/4 | 1,442.64 | 3/4 | 1,717.58 | 3/4 | 1,992.53 | 3/4 | 2,267.47 | 3/4 | 2,542.41 |
| 5   | 80.54  | 5   | 355.47 | 5   | 630.40 | 5   | 898.48   | 5   | 1,173.42 | 5   | 1,448.37 | 5   | 1,723.31 | 5   | 1,998.25 | 5   | 2,273.20 | 5   | 2,548.14 |
| 1/4 | 86.27  | 1/4 | 361.20 | 1/4 | 636.13 | 1/4 | 904.21   | 1/4 | 1,179.15 | 1/4 | 1,454.09 | 1/4 | 1,729.04 | 1/4 | 2,003.98 | 1/4 | 2,278.93 | 1/4 | 2,553.87 |
| 1/2 | 91.99  | 1/2 | 366.92 | 1/2 | 641.86 | 1/2 | 909.93   | 1/2 | 1,184.88 | 1/2 | 1,459.82 | 1/2 | 1,734.77 | 1/2 | 2,009.71 | 1/2 | 2,284.65 | 1/2 | 2,559.60 |
| 3/4 | 97.72  | 3/4 | 372.65 | 3/4 | 647.59 | 3/4 | 915.66   | 3/4 | 1,190.61 | 3/4 | 1,465.55 | 3/4 | 1,740.49 | 3/4 | 2,015.44 | 3/4 | 2,290.38 | 3/4 | 2,565.33 |
| 6   | 103.44 | 6   | 378.38 | 6   | 653.31 | 6   | 921.39   | 6   | 1,196.33 | 6   | 1,471.28 | 6   | 1,746.22 | 6   | 2,021.17 | 6   | 2,296.11 | 6   | 2,571.05 |
| 1/4 | 109.17 | 1/4 | 384.11 | 1/4 | 658.96 | 1/4 | 927.12   | 1/4 | 1,202.06 | 1/4 | 1,477.01 | 1/4 | 1,751.95 | 1/4 | 2,026.89 | 1/4 | 2,301.84 | 1/4 | 2,576.78 |
| 1/2 | 114.90 | 1/2 | 389.83 | 1/2 | 664.60 | 1/2 | 932.85   | 1/2 | 1,207.79 | 1/2 | 1,482.73 | 1/2 | 1,757.68 | 1/2 | 2,032.62 | 1/2 | 2,307.57 | 1/2 | 2,582.51 |
| 3/4 | 120.63 | 3/4 | 395.56 | 3/4 | 670.25 | 3/4 | 938.57   | 3/4 | 1,213.52 | 3/4 | 1,488.46 | 3/4 | 1,763.41 | 3/4 | 2,038.35 | 3/4 | 2,313.29 | 3/4 | 2,588.24 |
| 7   | 126.36 | 7   | 401.29 | 7   | 675.89 | 7   | 944.30   | 7   | 1,219.25 | 7   | 1,494.19 | 7   | 1,769.13 | 7   | 2,044.08 | 7   | 2,319.02 | 7   | 2,593.97 |
| 1/4 | 132.08 | 1/4 | 407.02 | 1/4 | 681.45 | 1/4 | 950.03   | 1/4 | 1,224.97 | 1/4 | 1,499.92 | 1/4 | 1,774.86 | 1/4 | 2,049.81 | 1/4 | 2,324.75 | 1/4 | 2,599.69 |
| 1/2 | 137.81 | 1/2 | 412.75 | 1/2 | 687.01 | 1/2 | 955.76   | 1/2 | 1,230.70 | 1/2 | 1,505.65 | 1/2 | 1,780.59 | 1/2 | 2,055.53 | 1/2 | 2,330.48 | 1/2 | 2,605.42 |
| 3/4 | 143.54 | 3/4 | 418.47 | 3/4 | 692.56 | 3/4 | 961.49   | 3/4 | 1,236.43 | 3/4 | 1,511.37 | 3/4 | 1,786.32 | 3/4 | 2,061.26 | 3/4 | 2,336.21 | 3/4 | 2,611.15 |
| 8   | 149.27 | 8   | 424.20 | 8   | 698.12 | 8   | 967.21   | 8   | 1,242.16 | 8   | 1,517.10 | 8   | 1,792.05 | 8   | 2,066.99 | 8   | 2,341.93 | 8   | 2,616.88 |
| 1/4 | 155.00 | 1/4 | 429.93 | 1/4 | 703.68 | 1/4 | 972.94   | 1/4 | 1,247.89 | 1/4 | 1,522.83 | 1/4 | 1,797.77 | 1/4 | 2,072.72 | 1/4 | 2,347.66 | 1/4 | 2,622.61 |
| 1/2 | 160.72 | 1/2 | 435.66 | 1/2 | 709.23 | 1/2 | 978.67   | 1/2 | 1,253.61 | 1/2 | 1,528.56 | 1/2 | 1,803.50 | 1/2 | 2,078.45 | 1/2 | 2,353.39 | 1/2 | 2,628.33 |
| 3/4 | 166.45 | 3/4 | 441.39 | 3/4 | 714.79 | 3/4 | 984.40   | 3/4 | 1,259.34 | 3/4 | 1,534.29 | 3/4 | 1,809.23 | 3/4 | 2,084.17 | 3/4 | 2,359.12 | 3/4 | 2,634.06 |
| 9   | 172.18 | 9   | 447.11 | 9   | 720.34 | 9   | 990.13   | 9   | 1,265.07 | 9   | 1,540.01 | 9   | 1,814.96 | 9   | 2,089.90 | 9   | 2,364.85 | 9   | 2,639.79 |
| 1/4 | 177.91 | 1/4 | 452.84 | 1/4 | 725.90 | 1/4 | 995.85   | 1/4 | 1,270.80 | 1/4 | 1,545.74 | 1/4 | 1,820.69 | 1/4 | 2,095.63 | 1/4 | 2,370.57 | 1/4 | 2,645.52 |
| 1/2 | 183.63 | 1/2 | 458.57 | 1/2 | 731.45 | 1/2 | 1,001.58 | 1/2 | 1,276.53 | 1/2 | 1,551.47 | 1/2 | 1,826.41 | 1/2 | 2,101.36 | 1/2 | 2,376.30 | 1/2 | 2,651.25 |
| 3/4 | 189.36 | 3/4 | 464.30 | 3/4 | 737.01 | 3/4 | 1,007.31 | 3/4 | 1,282.25 | 3/4 | 1,557.20 | 3/4 | 1,832.14 | 3/4 | 2,107.09 | 3/4 | 2,382.03 | 3/4 | 2,656.97 |
| 10  | 195.09 | 10  | 470.02 | 10  | 742.56 | 10  | 1,013.04 | 10  | 1,287.98 | 10  | 1,562.93 | 10  | 1,837.87 | 10  | 2,112.81 | 10  | 2,387.76 | 10  | 2,662.70 |
| 1/4 | 200.82 | 1/4 | 475.75 | 1/4 | 748.12 | 1/4 | 1,018.77 | 1/4 | 1,293.71 | 1/4 | 1,568.65 | 1/4 | 1,843.60 | 1/4 | 2,118.54 | 1/4 | 2,393.49 | 1/4 | 2,668.43 |
| 1/2 | 206.55 | 1/2 | 481.48 | 1/2 | 753.67 | 1/2 | 1,024.49 | 1/2 | 1,299.44 | 1/2 | 1,574.38 | 1/2 | 1,849.33 | 1/2 | 2,124.27 | 1/2 | 2,399.21 | 1/2 | 2,674.16 |
| 3/4 | 212.27 | 3/4 | 487.21 | 3/4 | 759.23 | 3/4 | 1,030.22 | 3/4 | 1,305.17 | 3/4 | 1,580.11 | 3/4 | 1,855.05 | 3/4 | 2,130.00 | 3/4 | 2,404.94 | 3/4 | 2,679.89 |
| 11  | 218.00 | 11  | 492.94 | 11  | 764.78 | 11  | 1,035.95 | 11  | 1,310.89 | 11  | 1,585.84 | 11  | 1,860.78 | 11  | 2,135.73 | 11  | 2,410.67 | 11  | 2,685.61 |
| 1/4 | 223.73 | 1/4 | 498.66 | 1/4 | 770.34 | 1/4 | 1,041.68 | 1/4 | 1,316.62 | 1/4 | 1,591.57 | 1/4 | 1,866.51 | 1/4 | 2,141.45 | 1/4 | 2,416.40 | 1/4 | 2,691.34 |
| 1/2 | 229.46 | 1/2 | 504.39 | 1/2 | 775.89 | 1/2 | 1,047.41 | 1/2 | 1,322.35 | 1/2 | 1,597.29 | 1/2 | 1,872.24 | 1/2 | 2,147.18 | 1/2 | 2,422.13 | 1/2 | 2,697.07 |
| 3/4 | 235.18 | 3/4 | 510.12 | 3/4 | 781.45 | 3/4 | 1,053.13 | 3/4 | 1,328.08 | 3/4 | 1,603.02 | 3/4 | 1,877.97 | 3/4 | 2,152.91 | 3/4 | 2,427.85 | 3/4 | 2,702.80 |

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 INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-03" FORWARD OF AFT BULKHEAD

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



# BARGE "E2MS 102"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 3/4"

| IN  | 10 FT.   | IN  | 11 FT.   | IN  | 12 FT.   | IN  | 13 FT.   | IN  | 14 FT.   | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 2,708.53 | 0   | 2,983.47 | 0   | 3,258.41 | 0   | 3,533.36 | 0   | 3,808.30 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 2,714.25 | 1/4 | 2,989.20 | 1/4 | 3,264.14 | 1/4 | 3,539.09 | 1/4 | 3,814.03 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,719.98 | 1/2 | 2,994.93 | 1/2 | 3,269.87 | 1/2 | 3,544.81 | 1/2 | 3,819.76 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,725.71 | 3/4 | 3,000.65 | 3/4 | 3,275.60 | 3/4 | 3,550.54 | 3/4 | 3,825.49 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 2,731.44 | 1   | 3,006.38 | 1   | 3,281.33 | 1   | 3,556.27 | 1   | 3,831.21 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 2,737.17 | 1/4 | 3,012.11 | 1/4 | 3,287.05 | 1/4 | 3,562.00 | 1/4 | 3,836.94 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,742.89 | 1/2 | 3,017.84 | 1/2 | 3,292.78 | 1/2 | 3,567.73 | 1/2 | 3,842.67 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,748.62 | 3/4 | 3,023.57 | 3/4 | 3,298.51 | 3/4 | 3,573.45 | 3/4 | 3,848.40 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 2,754.35 | 2   | 3,029.29 | 2   | 3,304.24 | 2   | 3,579.18 | 2   | 3,854.13 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 2,760.08 | 1/4 | 3,035.02 | 1/4 | 3,309.97 | 1/4 | 3,584.91 | 1/4 | 3,859.86 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,765.81 | 1/2 | 3,040.75 | 1/2 | 3,315.69 | 1/2 | 3,590.64 | 1/2 | 3,865.59 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,771.53 | 3/4 | 3,046.48 | 3/4 | 3,321.42 | 3/4 | 3,596.37 | 3/4 | 3,871.32 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 2,777.26 | 3   | 3,052.21 | 3   | 3,327.15 | 3   | 3,602.09 | 3   | 3,877.05 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 2,782.99 | 1/4 | 3,057.93 | 1/4 | 3,332.88 | 1/4 | 3,607.82 | 1/4 | 3,882.76 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,788.72 | 1/2 | 3,063.66 | 1/2 | 3,338.61 | 1/2 | 3,613.55 | 1/2 | 3,888.48 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,794.45 | 3/4 | 3,069.39 | 3/4 | 3,344.33 | 3/4 | 3,619.28 | 3/4 | 3,894.19 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 2,800.17 | 4   | 3,075.12 | 4   | 3,350.06 | 4   | 3,625.01 | 4   | 3,899.90 | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 2,805.90 | 1/4 | 3,080.85 | 1/4 | 3,355.79 | 1/4 | 3,630.73 | 1/4 | 3,905.58 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,811.63 | 1/2 | 3,086.57 | 1/2 | 3,361.52 | 1/2 | 3,636.46 | 1/2 | 3,911.26 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,817.36 | 3/4 | 3,092.30 | 3/4 | 3,367.25 | 3/4 | 3,642.19 | 3/4 | 3,916.94 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 2,823.09 | 5   | 3,098.03 | 5   | 3,372.97 | 5   | 3,647.92 | 5   | 3,922.62 | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 2,828.81 | 1/4 | 3,103.76 | 1/4 | 3,378.70 | 1/4 | 3,653.65 | 1/4 | 3,927.39 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,834.54 | 1/2 | 3,109.49 | 1/2 | 3,384.43 | 1/2 | 3,659.37 | 1/2 | 3,932.16 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,840.27 | 3/4 | 3,115.21 | 3/4 | 3,390.16 | 3/4 | 3,665.10 | 3/4 | 3,936.93 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 2,846.00 | 6   | 3,120.94 | 6   | 3,395.89 | 6   | 3,670.83 | 6   | 3,941.70 | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 2,851.73 | 1/4 | 3,126.67 | 1/4 | 3,401.61 | 1/4 | 3,676.56 | 1/4 | 3,944.56 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,857.45 | 1/2 | 3,132.40 | 1/2 | 3,407.34 | 1/2 | 3,682.29 | 1/2 | 3,947.43 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,863.18 | 3/4 | 3,138.13 | 3/4 | 3,413.07 | 3/4 | 3,688.01 | 3/4 | 3,950.29 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 2,868.91 | 7   | 3,143.85 | 7   | 3,418.80 | 7   | 3,693.74 | 7   | 3,953.15 | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 2,874.64 | 1/4 | 3,149.58 | 1/4 | 3,424.53 | 1/4 | 3,699.47 | 1/4 | 3,954.11 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,880.37 | 1/2 | 3,155.31 | 1/2 | 3,430.25 | 1/2 | 3,705.20 | 1/2 | 3,955.06 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,886.09 | 3/4 | 3,161.04 | 3/4 | 3,435.98 | 3/4 | 3,710.93 | 3/4 | 3,956.01 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 2,891.82 | 8   | 3,166.77 | 8   | 3,441.71 | 8   | 3,716.65 | 8   | 3,956.97 | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 2,897.55 | 1/4 | 3,172.49 | 1/4 | 3,447.44 | 1/4 | 3,722.38 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,903.28 | 1/2 | 3,178.22 | 1/2 | 3,453.17 | 1/2 | 3,728.11 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,909.01 | 3/4 | 3,183.95 | 3/4 | 3,458.89 | 3/4 | 3,733.84 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 2,914.73 | 9   | 3,189.68 | 9   | 3,464.62 | 9   | 3,739.57 | 9   |          | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 2,920.46 | 1/4 | 3,195.41 | 1/4 | 3,470.35 | 1/4 | 3,745.29 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,926.19 | 1/2 | 3,201.13 | 1/2 | 3,476.08 | 1/2 | 3,751.02 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,931.92 | 3/4 | 3,206.86 | 3/4 | 3,481.81 | 3/4 | 3,756.75 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 2,937.65 | 10  | 3,212.59 | 10  | 3,487.53 | 10  | 3,762.48 | 10  |          | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 2,943.37 | 1/4 | 3,218.32 | 1/4 | 3,493.26 | 1/4 | 3,768.21 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,949.10 | 1/2 | 3,224.05 | 1/2 | 3,498.99 | 1/2 | 3,773.93 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,954.83 | 3/4 | 3,229.77 | 3/4 | 3,504.72 | 3/4 | 3,779.66 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 2,960.56 | 11  | 3,235.50 | 11  | 3,510.45 | 11  | 3,785.39 | 11  |          | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 2,966.29 | 1/4 | 3,241.23 | 1/4 | 3,516.17 | 1/4 | 3,791.12 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,972.01 | 1/2 | 3,246.96 | 1/2 | 3,521.90 | 1/2 | 3,796.85 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,977.74 | 3/4 | 3,252.69 | 3/4 | 3,527.63 | 3/4 | 3,802.57 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2018 CL  
CALCULATED : 08/01/2018 CL  
PRINTED: 08/01/2018 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2018

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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<http://www.pmacorp.net>



# BARGE "E2MS 102"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 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   | 0.63   | 0   | 212.06 | 0   | 453.99 | 0   | 695.59 | 0   | 937.27   | 0   | 1,179.20 | 0   | 1,421.14 | 0   | 1,663.07 | 0   | 1,905.01 | 0   | 2,146.94 |
| 1/4 | 1.46   | 1/4 | 217.10 | 1/4 | 459.03 | 1/4 | 700.62 | 1/4 | 942.31   | 1/4 | 1,184.25 | 1/4 | 1,426.18 | 1/4 | 1,668.11 | 1/4 | 1,910.05 | 1/4 | 2,151.98 |
| 1/2 | 2.30   | 1/2 | 222.14 | 1/2 | 464.07 | 1/2 | 705.64 | 1/2 | 947.35   | 1/2 | 1,189.29 | 1/2 | 1,431.22 | 1/2 | 1,673.15 | 1/2 | 1,915.09 | 1/2 | 2,157.02 |
| 3/4 | 3.14   | 3/4 | 227.18 | 3/4 | 469.11 | 3/4 | 710.67 | 3/4 | 952.39   | 3/4 | 1,194.33 | 3/4 | 1,436.26 | 3/4 | 1,678.19 | 3/4 | 1,920.13 | 3/4 | 2,162.06 |
| 1   | 3.98   | 1   | 232.22 | 1   | 474.15 | 1   | 715.69 | 1   | 957.43   | 1   | 1,199.37 | 1   | 1,441.30 | 1   | 1,683.23 | 1   | 1,925.17 | 1   | 2,167.10 |
| 1/4 | 6.50   | 1/4 | 237.26 | 1/4 | 479.19 | 1/4 | 720.72 | 1/4 | 962.47   | 1/4 | 1,204.41 | 1/4 | 1,446.34 | 1/4 | 1,688.28 | 1/4 | 1,930.21 | 1/4 | 2,172.14 |
| 1/2 | 9.02   | 1/2 | 242.30 | 1/2 | 484.23 | 1/2 | 725.74 | 1/2 | 967.51   | 1/2 | 1,209.45 | 1/2 | 1,451.38 | 1/2 | 1,693.32 | 1/2 | 1,935.25 | 1/2 | 2,177.18 |
| 3/4 | 11.54  | 3/4 | 247.34 | 3/4 | 489.27 | 3/4 | 730.77 | 3/4 | 972.55   | 3/4 | 1,214.49 | 3/4 | 1,456.42 | 3/4 | 1,698.36 | 3/4 | 1,940.29 | 3/4 | 2,182.22 |
| 2   | 14.06  | 2   | 252.38 | 2   | 494.31 | 2   | 735.79 | 2   | 977.59   | 2   | 1,219.53 | 2   | 1,461.46 | 2   | 1,703.40 | 2   | 1,945.33 | 2   | 2,187.26 |
| 1/4 | 18.26  | 1/4 | 257.42 | 1/4 | 499.35 | 1/4 | 740.82 | 1/4 | 982.63   | 1/4 | 1,224.57 | 1/4 | 1,466.50 | 1/4 | 1,708.44 | 1/4 | 1,950.37 | 1/4 | 2,192.31 |
| 1/2 | 22.45  | 1/2 | 262.46 | 1/2 | 504.39 | 1/2 | 745.84 | 1/2 | 987.67   | 1/2 | 1,229.61 | 1/2 | 1,471.54 | 1/2 | 1,713.48 | 1/2 | 1,955.41 | 1/2 | 2,197.35 |
| 3/4 | 26.65  | 3/4 | 267.50 | 3/4 | 509.43 | 3/4 | 750.86 | 3/4 | 992.71   | 3/4 | 1,234.65 | 3/4 | 1,476.58 | 3/4 | 1,718.52 | 3/4 | 1,960.45 | 3/4 | 2,202.39 |
| 3   | 30.85  | 3   | 272.54 | 3   | 514.47 | 3   | 755.89 | 3   | 997.75   | 3   | 1,239.69 | 3   | 1,481.62 | 3   | 1,723.56 | 3   | 1,965.49 | 3   | 2,207.43 |
| 1/4 | 35.85  | 1/4 | 277.58 | 1/4 | 519.51 | 1/4 | 760.92 | 1/4 | 1,002.79 | 1/4 | 1,244.73 | 1/4 | 1,486.66 | 1/4 | 1,728.60 | 1/4 | 1,970.53 | 1/4 | 2,212.47 |
| 1/2 | 40.84  | 1/2 | 282.62 | 1/2 | 524.55 | 1/2 | 765.95 | 1/2 | 1,007.83 | 1/2 | 1,249.77 | 1/2 | 1,491.70 | 1/2 | 1,733.64 | 1/2 | 1,975.57 | 1/2 | 2,217.51 |
| 3/4 | 45.84  | 3/4 | 287.66 | 3/4 | 529.59 | 3/4 | 770.97 | 3/4 | 1,012.88 | 3/4 | 1,254.81 | 3/4 | 1,496.74 | 3/4 | 1,738.68 | 3/4 | 1,980.61 | 3/4 | 2,222.55 |
| 4   | 50.83  | 4   | 292.70 | 4   | 534.63 | 4   | 776.00 | 4   | 1,017.92 | 4   | 1,259.85 | 4   | 1,501.78 | 4   | 1,743.72 | 4   | 1,985.65 | 4   | 2,227.59 |
| 1/4 | 55.86  | 1/4 | 297.74 | 1/4 | 539.67 | 1/4 | 781.04 | 1/4 | 1,022.96 | 1/4 | 1,264.89 | 1/4 | 1,506.82 | 1/4 | 1,748.76 | 1/4 | 1,990.69 | 1/4 | 2,232.63 |
| 1/2 | 60.89  | 1/2 | 302.78 | 1/2 | 544.71 | 1/2 | 786.07 | 1/2 | 1,028.00 | 1/2 | 1,269.93 | 1/2 | 1,511.86 | 1/2 | 1,753.80 | 1/2 | 1,995.73 | 1/2 | 2,237.67 |
| 3/4 | 65.92  | 3/4 | 307.82 | 3/4 | 549.75 | 3/4 | 791.11 | 3/4 | 1,033.04 | 3/4 | 1,274.97 | 3/4 | 1,516.90 | 3/4 | 1,758.84 | 3/4 | 2,000.77 | 3/4 | 2,242.71 |
| 5   | 70.94  | 5   | 312.86 | 5   | 554.79 | 5   | 796.14 | 5   | 1,038.08 | 5   | 1,280.01 | 5   | 1,521.95 | 5   | 1,763.88 | 5   | 2,005.81 | 5   | 2,247.75 |
| 1/4 | 75.98  | 1/4 | 317.90 | 1/4 | 559.83 | 1/4 | 801.18 | 1/4 | 1,043.12 | 1/4 | 1,285.05 | 1/4 | 1,526.99 | 1/4 | 1,768.92 | 1/4 | 2,010.85 | 1/4 | 2,252.79 |
| 1/2 | 81.02  | 1/2 | 322.94 | 1/2 | 564.87 | 1/2 | 806.22 | 1/2 | 1,048.16 | 1/2 | 1,290.09 | 1/2 | 1,532.03 | 1/2 | 1,773.96 | 1/2 | 2,015.89 | 1/2 | 2,257.83 |
| 3/4 | 86.06  | 3/4 | 327.98 | 3/4 | 569.91 | 3/4 | 811.26 | 3/4 | 1,053.20 | 3/4 | 1,295.13 | 3/4 | 1,537.07 | 3/4 | 1,779.00 | 3/4 | 2,020.93 | 3/4 | 2,262.87 |
| 6   | 91.10  | 6   | 333.02 | 6   | 574.95 | 6   | 816.30 | 6   | 1,058.24 | 6   | 1,300.17 | 6   | 1,542.11 | 6   | 1,784.04 | 6   | 2,025.98 | 6   | 2,267.91 |
| 1/4 | 96.14  | 1/4 | 338.06 | 1/4 | 579.98 | 1/4 | 821.34 | 1/4 | 1,063.28 | 1/4 | 1,305.21 | 1/4 | 1,547.15 | 1/4 | 1,789.08 | 1/4 | 2,031.02 | 1/4 | 2,272.95 |
| 1/2 | 101.18 | 1/2 | 343.10 | 1/2 | 585.02 | 1/2 | 826.38 | 1/2 | 1,068.32 | 1/2 | 1,310.25 | 1/2 | 1,552.19 | 1/2 | 1,794.12 | 1/2 | 2,036.06 | 1/2 | 2,277.99 |
| 3/4 | 106.22 | 3/4 | 348.14 | 3/4 | 590.05 | 3/4 | 831.42 | 3/4 | 1,073.36 | 3/4 | 1,315.29 | 3/4 | 1,557.23 | 3/4 | 1,799.16 | 3/4 | 2,041.10 | 3/4 | 2,283.03 |
| 7   | 111.26 | 7   | 353.18 | 7   | 595.09 | 7   | 836.46 | 7   | 1,078.40 | 7   | 1,320.33 | 7   | 1,562.27 | 7   | 1,804.20 | 7   | 2,046.14 | 7   | 2,288.07 |
| 1/4 | 116.30 | 1/4 | 358.22 | 1/4 | 600.11 | 1/4 | 841.50 | 1/4 | 1,083.44 | 1/4 | 1,325.37 | 1/4 | 1,567.31 | 1/4 | 1,809.24 | 1/4 | 2,051.18 | 1/4 | 2,293.11 |
| 1/2 | 121.34 | 1/2 | 363.26 | 1/2 | 605.14 | 1/2 | 846.55 | 1/2 | 1,088.48 | 1/2 | 1,330.41 | 1/2 | 1,572.35 | 1/2 | 1,814.28 | 1/2 | 2,056.22 | 1/2 | 2,298.15 |
| 3/4 | 126.38 | 3/4 | 368.30 | 3/4 | 610.17 | 3/4 | 851.59 | 3/4 | 1,093.52 | 3/4 | 1,335.45 | 3/4 | 1,577.39 | 3/4 | 1,819.32 | 3/4 | 2,061.26 | 3/4 | 2,303.19 |
| 8   | 131.42 | 8   | 373.34 | 8   | 615.20 | 8   | 856.63 | 8   | 1,098.56 | 8   | 1,340.49 | 8   | 1,582.43 | 8   | 1,824.36 | 8   | 2,066.30 | 8   | 2,308.23 |
| 1/4 | 136.46 | 1/4 | 378.38 | 1/4 | 620.22 | 1/4 | 861.67 | 1/4 | 1,103.60 | 1/4 | 1,345.53 | 1/4 | 1,587.47 | 1/4 | 1,829.40 | 1/4 | 2,071.34 | 1/4 | 2,313.27 |
| 1/2 | 141.50 | 1/2 | 383.42 | 1/2 | 625.24 | 1/2 | 866.71 | 1/2 | 1,108.64 | 1/2 | 1,350.58 | 1/2 | 1,592.51 | 1/2 | 1,834.44 | 1/2 | 2,076.38 | 1/2 | 2,318.31 |
| 3/4 | 146.54 | 3/4 | 388.46 | 3/4 | 630.27 | 3/4 | 871.75 | 3/4 | 1,113.68 | 3/4 | 1,355.62 | 3/4 | 1,597.55 | 3/4 | 1,839.48 | 3/4 | 2,081.42 | 3/4 | 2,323.35 |
| 9   | 151.58 | 9   | 393.50 | 9   | 635.29 | 9   | 876.79 | 9   | 1,118.72 | 9   | 1,360.66 | 9   | 1,602.59 | 9   | 1,844.52 | 9   | 2,086.46 | 9   | 2,328.39 |
| 1/4 | 156.62 | 1/4 | 398.54 | 1/4 | 640.32 | 1/4 | 881.83 | 1/4 | 1,123.76 | 1/4 | 1,365.70 | 1/4 | 1,607.63 | 1/4 | 1,849.56 | 1/4 | 2,091.50 | 1/4 | 2,333.43 |
| 1/2 | 161.66 | 1/2 | 403.58 | 1/2 | 645.34 | 1/2 | 886.87 | 1/2 | 1,128.80 | 1/2 | 1,370.74 | 1/2 | 1,612.67 | 1/2 | 1,854.61 | 1/2 | 2,096.54 | 1/2 | 2,338.47 |
| 3/4 | 166.70 | 3/4 | 408.62 | 3/4 | 650.37 | 3/4 | 891.91 | 3/4 | 1,133.84 | 3/4 | 1,375.78 | 3/4 | 1,617.71 | 3/4 | 1,859.65 | 3/4 | 2,101.58 | 3/4 | 2,343.51 |
| 10  | 171.74 | 10  | 413.66 | 10  | 655.39 | 10  | 896.95 | 10  | 1,138.88 | 10  | 1,380.82 | 10  | 1,622.75 | 10  | 1,864.69 | 10  | 2,106.62 | 10  | 2,348.55 |
| 1/4 | 176.78 | 1/4 | 418.70 | 1/4 | 660.42 | 1/4 | 901.99 | 1/4 | 1,143.92 | 1/4 | 1,385.86 | 1/4 | 1,627.79 | 1/4 | 1,869.73 | 1/4 | 2,111.66 | 1/4 | 2,353.59 |
| 1/2 | 181.82 | 1/2 | 423.74 | 1/2 | 665.44 | 1/2 | 907.03 | 1/2 | 1,148.96 | 1/2 | 1,390.90 | 1/2 | 1,632.83 | 1/2 | 1,874.77 | 1/2 | 2,116.70 | 1/2 | 2,358.64 |
| 3/4 | 186.86 | 3/4 | 428.78 | 3/4 | 670.47 | 3/4 | 912.07 | 3/4 | 1,154.00 | 3/4 | 1,395.94 | 3/4 | 1,637.87 | 3/4 | 1,879.81 | 3/4 | 2,121.74 | 3/4 | 2,363.68 |
| 11  | 191.90 | 11  | 433.82 | 11  | 675.49 | 11  | 917.11 | 11  | 1,159.04 | 11  | 1,400.98 | 11  | 1,642.91 | 11  | 1,884.85 | 11  | 2,126.78 | 11  | 2,368.72 |
| 1/4 | 196.94 | 1/4 | 438.87 | 1/4 | 680.52 | 1/4 | 922.15 | 1/4 | 1,164.08 | 1/4 | 1,406.02 | 1/4 | 1,647.95 | 1/4 | 1,889.89 | 1/4 | 2,131.82 | 1/4 | 2,373.76 |
| 1/2 | 201.98 | 1/2 | 443.91 | 1/2 | 685.54 | 1/2 | 927.19 | 1/2 | 1,169.12 | 1/2 | 1,411.06 | 1/2 | 1,652.99 | 1/2 | 1,894.93 | 1/2 | 2,136.86 | 1/2 | 2,378.80 |
| 3/4 | 207.02 | 3/4 | 448.95 | 3/4 | 690.57 | 3/4 | 932.23 | 3/4 | 1,174.16 | 3/4 | 1,416.10 | 3/4 | 1,658.03 | 3/4 | 1,899.97 | 3/4 | 2,141.90 | 3/4 | 2,383.84 |

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 INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-00" FORWARD OF AFT BULKHEAD

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





# BARGE "E2MS 102"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 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   | 2,388.88 | 0   | 2,630.81 | 0   | 2,872.75 | 0   | 3,114.68 | 0   | 3,356.61 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 2,393.92 | 1/4 | 2,635.85 | 1/4 | 2,877.79 | 1/4 | 3,119.72 | 1/4 | 3,361.65 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,398.96 | 1/2 | 2,640.89 | 1/2 | 2,882.83 | 1/2 | 3,124.76 | 1/2 | 3,366.70 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,404.00 | 3/4 | 2,645.93 | 3/4 | 2,887.87 | 3/4 | 3,129.80 | 3/4 | 3,371.74 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 2,409.04 | 1   | 2,650.97 | 1   | 2,892.91 | 1   | 3,134.84 | 1   | 3,376.78 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 2,414.08 | 1/4 | 2,656.01 | 1/4 | 2,897.95 | 1/4 | 3,139.88 | 1/4 | 3,381.82 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,419.12 | 1/2 | 2,661.05 | 1/2 | 2,902.99 | 1/2 | 3,144.92 | 1/2 | 3,386.86 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,424.16 | 3/4 | 2,666.09 | 3/4 | 2,908.03 | 3/4 | 3,149.96 | 3/4 | 3,391.90 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 2,429.20 | 2   | 2,671.13 | 2   | 2,913.07 | 2   | 3,155.00 | 2   | 3,396.94 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 2,434.24 | 1/4 | 2,676.17 | 1/4 | 2,918.11 | 1/4 | 3,160.04 | 1/4 | 3,401.97 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,439.28 | 1/2 | 2,681.21 | 1/2 | 2,923.15 | 1/2 | 3,165.08 | 1/2 | 3,407.01 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,444.32 | 3/4 | 2,686.25 | 3/4 | 2,928.19 | 3/4 | 3,170.12 | 3/4 | 3,412.05 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 2,449.36 | 3   | 2,691.29 | 3   | 2,933.23 | 3   | 3,175.16 | 3   | 3,417.08 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 2,454.40 | 1/4 | 2,696.34 | 1/4 | 2,938.27 | 1/4 | 3,180.20 | 1/4 | 3,422.11 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,459.44 | 1/2 | 2,701.38 | 1/2 | 2,943.31 | 1/2 | 3,185.24 | 1/2 | 3,427.14 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,464.48 | 3/4 | 2,706.42 | 3/4 | 2,948.35 | 3/4 | 3,190.28 | 3/4 | 3,432.16 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 2,469.52 | 4   | 2,711.46 | 4   | 2,953.39 | 4   | 3,195.32 | 4   | 3,437.19 | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 2,474.56 | 1/4 | 2,716.50 | 1/4 | 2,958.43 | 1/4 | 3,200.37 | 1/4 | 3,442.19 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,479.60 | 1/2 | 2,721.54 | 1/2 | 2,963.47 | 1/2 | 3,205.41 | 1/2 | 3,447.19 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,484.64 | 3/4 | 2,726.58 | 3/4 | 2,968.51 | 3/4 | 3,210.45 | 3/4 | 3,452.18 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 2,489.68 | 5   | 2,731.62 | 5   | 2,973.55 | 5   | 3,215.49 | 5   | 3,457.18 | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 2,494.72 | 1/4 | 2,736.66 | 1/4 | 2,978.59 | 1/4 | 3,220.53 | 1/4 | 3,461.38 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,499.76 | 1/2 | 2,741.70 | 1/2 | 2,983.63 | 1/2 | 3,225.57 | 1/2 | 3,465.57 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,504.80 | 3/4 | 2,746.74 | 3/4 | 2,988.67 | 3/4 | 3,230.61 | 3/4 | 3,469.77 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 2,509.84 | 6   | 2,751.78 | 6   | 2,993.71 | 6   | 3,235.65 | 6   | 3,473.97 | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 2,514.88 | 1/4 | 2,756.82 | 1/4 | 2,998.75 | 1/4 | 3,240.69 | 1/4 | 3,476.49 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,519.92 | 1/2 | 2,761.86 | 1/2 | 3,003.79 | 1/2 | 3,245.73 | 1/2 | 3,479.01 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,524.96 | 3/4 | 2,766.90 | 3/4 | 3,008.83 | 3/4 | 3,250.77 | 3/4 | 3,481.53 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 2,530.01 | 7   | 2,771.94 | 7   | 3,013.87 | 7   | 3,255.81 | 7   | 3,484.05 | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 2,535.05 | 1/4 | 2,776.98 | 1/4 | 3,018.91 | 1/4 | 3,260.85 | 1/4 | 3,484.89 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,540.09 | 1/2 | 2,782.02 | 1/2 | 3,023.95 | 1/2 | 3,265.89 | 1/2 | 3,485.73 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,545.13 | 3/4 | 2,787.06 | 3/4 | 3,029.00 | 3/4 | 3,270.93 | 3/4 | 3,486.57 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 2,550.17 | 8   | 2,792.10 | 8   | 3,034.04 | 8   | 3,275.97 | 8   | 3,487.40 | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 2,555.21 | 1/4 | 2,797.14 | 1/4 | 3,039.08 | 1/4 | 3,281.01 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,560.25 | 1/2 | 2,802.18 | 1/2 | 3,044.12 | 1/2 | 3,286.05 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,565.29 | 3/4 | 2,807.22 | 3/4 | 3,049.16 | 3/4 | 3,291.09 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 2,570.33 | 9   | 2,812.26 | 9   | 3,054.20 | 9   | 3,296.13 | 9   |          | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 2,575.37 | 1/4 | 2,817.30 | 1/4 | 3,059.24 | 1/4 | 3,301.17 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,580.41 | 1/2 | 2,822.34 | 1/2 | 3,064.28 | 1/2 | 3,306.21 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,585.45 | 3/4 | 2,827.38 | 3/4 | 3,069.32 | 3/4 | 3,311.25 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 2,590.49 | 10  | 2,832.42 | 10  | 3,074.36 | 10  | 3,316.29 | 10  |          | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 2,595.53 | 1/4 | 2,837.46 | 1/4 | 3,079.40 | 1/4 | 3,321.33 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,600.57 | 1/2 | 2,842.50 | 1/2 | 3,084.44 | 1/2 | 3,326.37 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,605.61 | 3/4 | 2,847.54 | 3/4 | 3,089.48 | 3/4 | 3,331.41 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 2,610.65 | 11  | 2,852.58 | 11  | 3,094.52 | 11  | 3,336.45 | 11  |          | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 2,615.69 | 1/4 | 2,857.62 | 1/4 | 3,099.56 | 1/4 | 3,341.49 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,620.73 | 1/2 | 2,862.67 | 1/2 | 3,104.60 | 1/2 | 3,346.53 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,625.77 | 3/4 | 2,867.71 | 3/4 | 3,109.64 | 3/4 | 3,351.57 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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PRINTED: 08/01/2018 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2018

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "E2MS 102"

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GUAGE HEIGHT 4'-00"

| 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   | 84    | 0   | 209   | 0   | 319   | 0   |       | 0   |       | 0   |       | 0   |       | 0   |       | 0   |       |
| 1/4 | 1     | 1/4 | 86    | 1/4 | 211   | 1/4 | 321   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 1     | 1/2 | 89    | 1/2 | 214   | 1/2 | 322   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 2     | 3/4 | 91    | 3/4 | 216   | 3/4 | 324   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 1   | 2     | 1   | 93    | 1   | 219   | 1   | 326   | 1   |       | 1   |       | 1   |       | 1   |       | 1   |       | 1   |       |
| 1/4 | 3     | 1/4 | 96    | 1/4 | 222   | 1/4 | 327   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 4     | 1/2 | 98    | 1/2 | 224   | 1/2 | 329   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 5     | 3/4 | 101   | 3/4 | 227   | 3/4 | 330   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 2   | 6     | 2   | 103   | 2   | 229   | 2   | 332   | 2   |       | 2   |       | 2   |       | 2   |       | 2   |       | 2   |       |
| 1/4 | 7     | 1/4 | 106   | 1/4 | 232   | 1/4 | 333   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 9     | 1/2 | 109   | 1/2 | 234   | 1/2 | 334   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 10    | 3/4 | 111   | 3/4 | 237   | 3/4 | 335   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 3   | 11    | 3   | 114   | 3   | 240   | 3   | 337   | 3   |       | 3   |       | 3   |       | 3   |       | 3   |       | 3   |       |
| 1/4 | 13    | 1/4 | 116   | 1/4 | 242   | 1/4 | 338   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 14    | 1/2 | 119   | 1/2 | 245   | 1/2 | 339   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 16    | 3/4 | 121   | 3/4 | 247   | 3/4 | 340   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 4   | 17    | 4   | 124   | 4   | 250   | 4   | 341   | 4   |       | 4   |       | 4   |       | 4   |       | 4   |       | 4   |       |
| 1/4 | 19    | 1/4 | 127   | 1/4 | 252   | 1/4 | 341   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 21    | 1/2 | 129   | 1/2 | 254   | 1/2 | 342   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 22    | 3/4 | 132   | 3/4 | 257   | 3/4 | 342   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 5   | 24    | 5   | 134   | 5   | 259   | 5   | 343   | 5   |       | 5   |       | 5   |       | 5   |       | 5   |       | 5   |       |
| 1/4 | 26    | 1/4 | 137   | 1/4 | 262   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 27    | 1/2 | 140   | 1/2 | 264   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 29    | 3/4 | 142   | 3/4 | 266   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 6   | 31    | 6   | 145   | 6   | 269   | 6   |       | 6   |       | 6   |       | 6   |       | 6   |       | 6   |       | 6   |       |
| 1/4 | 33    | 1/4 | 148   | 1/4 | 271   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 35    | 1/2 | 150   | 1/2 | 274   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 37    | 3/4 | 153   | 3/4 | 276   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 7   | 39    | 7   | 156   | 7   | 278   | 7   |       | 7   |       | 7   |       | 7   |       | 7   |       | 7   |       | 7   |       |
| 1/4 | 41    | 1/4 | 158   | 1/4 | 280   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 43    | 1/2 | 161   | 1/2 | 283   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 45    | 3/4 | 163   | 3/4 | 285   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 8   | 47    | 8   | 166   | 8   | 287   | 8   |       | 8   |       | 8   |       | 8   |       | 8   |       | 8   |       | 8   |       |
| 1/4 | 49    | 1/4 | 169   | 1/4 | 289   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 51    | 1/2 | 171   | 1/2 | 291   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 54    | 3/4 | 174   | 3/4 | 294   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 9   | 56    | 9   | 177   | 9   | 296   | 9   |       | 9   |       | 9   |       | 9   |       | 9   |       | 9   |       | 9   |       |
| 1/4 | 58    | 1/4 | 179   | 1/4 | 298   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 60    | 1/2 | 182   | 1/2 | 300   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 62    | 3/4 | 185   | 3/4 | 302   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 10  | 65    | 10  | 187   | 10  | 304   | 10  |       | 10  |       | 10  |       | 10  |       | 10  |       | 10  |       | 10  |       |
| 1/4 | 67    | 1/4 | 190   | 1/4 | 306   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 69    | 1/2 | 193   | 1/2 | 308   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 72    | 3/4 | 195   | 3/4 | 310   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |
| 11  | 74    | 11  | 198   | 11  | 312   | 11  |       | 11  |       | 11  |       | 11  |       | 11  |       | 11  |       | 11  |       |
| 1/4 | 76    | 1/4 | 201   | 1/4 | 314   | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       | 1/4 |       |
| 1/2 | 79    | 1/2 | 203   | 1/2 | 315   | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       | 1/2 |       |
| 3/4 | 81    | 3/4 | 206   | 3/4 | 317   | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       | 3/4 |       |

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 AT GAUGE POINT  
 CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN AT 2" DIAMETER STANDPIPE

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CANCELS AND SUPERCEDES  
 ALL PRIOR TO 08/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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





# BARGE "E2MS 102"

## 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> |
| <b>1 CENTER</b> | - 00-1/4   | 00-1/4       | - 00-1/2   | 00-1/2       | - 00-5/8   | 00-5/8       | - 00-7/8   | 00-7/8       | - 01-1/8   | 01-1/8       | - 01-3/8   | 01-3/8       |
| <b>2 CENTER</b> | 00-1/8     | - 00-1/8     | 00-1/4     | - 00-1/4     | 00-3/8     | - 00-3/8     | 00-3/8     | - 00-3/8     | 00-1/2     | - 00-1/2     | 00-5/8     | - 00-5/8     |
| <b>3 CENTER</b> | - 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       |

(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 3 CENTER IS 00-3/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 3 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 3/8"

LENGTH BETWEEN DRAFT MARKS: 166'-09"

August 1, 2018

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**  
 P.O. Box 2092  
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# BARGE "E2MS 102"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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   | 3,316.14 | 0   | 3,099.52 | 0   | 2,882.89 | 0   | 2,666.28 | 0   | 2,449.66 | 0   | 2,233.05 | 0   | 2,016.43 | 0   | 1,800.00 | 0   | 1,583.57 |
| 1/4 | 1/4   | 1/4 | 3,311.63 | 1/4 | 3,095.00 | 1/4 | 2,878.38 | 1/4 | 2,661.79 | 1/4 | 2,444.17 | 1/4 | 2,228.54 | 1/4 | 2,011.92 | 1/4 | 1,795.50 | 1/4 | 1,579.07 |
| 1/2 | 1/2   | 1/2 | 3,307.12 | 1/2 | 3,090.49 | 1/2 | 2,873.87 | 1/2 | 2,657.29 | 1/2 | 2,439.66 | 1/2 | 2,224.03 | 1/2 | 2,007.41 | 1/2 | 1,791.00 | 1/2 | 1,574.57 |
| 3/4 | 3/4   | 3/4 | 3,496.41 | 3/4 | 3,302.60 | 3/4 | 3,085.98 | 3/4 | 2,869.35 | 3/4 | 2,652.79 | 3/4 | 2,437.16 | 3/4 | 2,219.54 | 3/4 | 1,899.52 | 3/4 | 1,688.14 |
| 1   | 1     | 1   | 3,495.54 | 1   | 3,298.09 | 1   | 3,081.47 | 1   | 2,864.84 | 1   | 2,648.29 | 1   | 2,398.46 | 1   | 2,146.36 | 1   | 1,894.26 | 1   | 1,642.89 |
| 1/4 | 1/4   | 1/4 | 3,494.66 | 1/4 | 3,293.58 | 1/4 | 3,076.95 | 1/4 | 2,860.33 | 1/4 | 2,643.79 | 1/4 | 2,393.20 | 1/4 | 2,141.11 | 1/4 | 1,889.01 | 1/4 | 1,637.64 |
| 1/2 | 1/2   | 1/2 | 3,493.78 | 1/2 | 3,289.06 | 1/2 | 3,072.44 | 1/2 | 2,855.82 | 1/2 | 2,639.29 | 1/2 | 2,387.95 | 1/2 | 2,135.86 | 1/2 | 1,883.76 | 1/2 | 1,632.39 |
| 3/4 | 3/4   | 3/4 | 3,492.91 | 3/4 | 3,284.55 | 3/4 | 3,067.93 | 3/4 | 2,851.30 | 3/4 | 2,634.80 | 3/4 | 2,382.70 | 3/4 | 2,130.60 | 3/4 | 1,878.51 | 3/4 | 1,627.14 |
| 2   | 2     | 2   | 3,490.27 | 2   | 3,280.04 | 2   | 3,063.41 | 2   | 2,846.79 | 2   | 2,629.54 | 2   | 2,377.45 | 2   | 2,125.35 | 2   | 1,873.27 | 2   | 1,621.89 |
| 1/4 | 1/4   | 1/4 | 3,487.64 | 1/4 | 3,275.52 | 1/4 | 3,058.90 | 1/4 | 2,842.28 | 1/4 | 2,624.29 | 1/4 | 2,372.20 | 1/4 | 2,120.10 | 1/4 | 1,868.04 | 1/4 | 1,616.64 |
| 1/2 | 1/2   | 1/2 | 3,485.01 | 1/2 | 3,271.01 | 1/2 | 3,054.39 | 1/2 | 2,837.76 | 1/2 | 2,619.04 | 1/2 | 2,366.94 | 1/2 | 2,114.85 | 1/2 | 1,862.80 | 1/2 | 1,611.39 |
| 3/4 | 3/4   | 3/4 | 3,482.38 | 3/4 | 3,266.50 | 3/4 | 3,049.87 | 3/4 | 2,833.25 | 3/4 | 2,613.79 | 3/4 | 2,361.69 | 3/4 | 2,109.60 | 3/4 | 1,857.57 | 3/4 | 1,606.14 |
| 3   | 3     | 3   | 3,477.99 | 3   | 3,261.99 | 3   | 3,045.36 | 3   | 2,828.74 | 3   | 2,608.54 | 3   | 2,356.44 | 3   | 2,104.34 | 3   | 1,852.34 | 3   | 1,600.90 |
| 1/4 | 1/4   | 1/4 | 3,473.60 | 1/4 | 3,257.47 | 1/4 | 3,040.85 | 1/4 | 2,824.22 | 1/4 | 2,603.28 | 1/4 | 2,351.19 | 1/4 | 2,099.09 | 1/4 | 1,847.10 | 1/4 | 1,595.65 |
| 1/2 | 1/2   | 1/2 | 3,469.22 | 1/2 | 3,252.96 | 1/2 | 3,036.34 | 1/2 | 2,819.71 | 1/2 | 2,598.03 | 1/2 | 2,345.94 | 1/2 | 2,093.84 | 1/2 | 1,841.87 | 1/2 | 1,590.40 |
| 3/4 | 3/4   | 3/4 | 3,464.83 | 3/4 | 3,248.45 | 3/4 | 3,031.82 | 3/4 | 2,815.20 | 3/4 | 2,592.78 | 3/4 | 2,340.68 | 3/4 | 2,088.59 | 3/4 | 1,836.63 | 3/4 | 1,585.15 |
| 4   | 4     | 4   | 3,460.37 | 4   | 3,243.93 | 4   | 3,027.31 | 4   | 2,810.69 | 4   | 2,587.53 | 4   | 2,335.43 | 4   | 2,083.34 | 4   | 1,831.40 | 4   | 1,579.90 |
| 1/4 | 1/4   | 1/4 | 3,455.90 | 1/4 | 3,239.42 | 1/4 | 3,022.80 | 1/4 | 2,806.17 | 1/4 | 2,582.28 | 1/4 | 2,330.18 | 1/4 | 2,078.08 | 1/4 | 1,826.16 | 1/4 | 1,574.65 |
| 1/2 | 1/2   | 1/2 | 3,451.43 | 1/2 | 3,234.91 | 1/2 | 3,018.28 | 1/2 | 2,801.66 | 1/2 | 2,577.02 | 1/2 | 2,324.93 | 1/2 | 2,072.83 | 1/2 | 1,820.93 | 1/2 | 1,569.40 |
| 3/4 | 3/4   | 3/4 | 3,446.96 | 3/4 | 3,230.39 | 3/4 | 3,013.77 | 3/4 | 2,797.15 | 3/4 | 2,571.77 | 3/4 | 2,319.68 | 3/4 | 2,067.58 | 3/4 | 1,815.70 | 3/4 | 1,564.15 |
| 5   | 5     | 5   | 3,442.46 | 5   | 3,225.88 | 5   | 3,009.26 | 5   | 2,792.63 | 5   | 2,566.52 | 5   | 2,314.42 | 5   | 2,062.33 | 5   | 1,810.46 | 5   | 1,558.91 |
| 1/4 | 1/4   | 1/4 | 3,437.96 | 1/4 | 3,221.37 | 1/4 | 3,004.74 | 1/4 | 2,788.12 | 1/4 | 2,561.27 | 1/4 | 2,309.17 | 1/4 | 2,057.08 | 1/4 | 1,805.23 | 1/4 | 1,553.66 |
| 1/2 | 1/2   | 1/2 | 3,433.46 | 1/2 | 3,216.86 | 1/2 | 3,000.23 | 1/2 | 2,783.61 | 1/2 | 2,556.02 | 1/2 | 2,303.92 | 1/2 | 2,051.82 | 1/2 | 1,799.99 | 1/2 | 1,548.41 |
| 3/4 | 3/4   | 3/4 | 3,428.96 | 3/4 | 3,212.34 | 3/4 | 2,995.72 | 3/4 | 2,779.09 | 3/4 | 2,550.76 | 3/4 | 2,298.67 | 3/4 | 2,046.57 | 3/4 | 1,794.76 | 3/4 | 1,543.16 |
| 6   | 6     | 6   | 3,424.45 | 6   | 3,207.83 | 6   | 2,991.21 | 6   | 2,774.58 | 6   | 2,545.51 | 6   | 2,293.42 | 6   | 2,041.32 | 6   | 1,789.52 | 6   | 1,537.91 |
| 1/4 | 1/4   | 1/4 | 3,419.94 | 1/4 | 3,203.32 | 1/4 | 2,986.69 | 1/4 | 2,770.07 | 1/4 | 2,540.26 | 1/4 | 2,288.16 | 1/4 | 2,036.07 | 1/4 | 1,784.29 | 1/4 | 1,532.66 |
| 1/2 | 1/2   | 1/2 | 3,415.43 | 1/2 | 3,198.80 | 1/2 | 2,982.18 | 1/2 | 2,765.56 | 1/2 | 2,535.01 | 1/2 | 2,282.91 | 1/2 | 2,030.82 | 1/2 | 1,779.06 | 1/2 | 1,527.41 |
| 3/4 | 3/4   | 3/4 | 3,410.91 | 3/4 | 3,194.29 | 3/4 | 2,977.67 | 3/4 | 2,761.04 | 3/4 | 2,529.76 | 3/4 | 2,277.66 | 3/4 | 2,025.56 | 3/4 | 1,773.82 | 3/4 | 1,522.16 |
| 7   | 7     | 7   | 3,406.40 | 7   | 3,189.78 | 7   | 2,973.15 | 7   | 2,756.53 | 7   | 2,524.50 | 7   | 2,272.41 | 7   | 2,020.31 | 7   | 1,768.59 | 7   | 1,516.91 |
| 1/4 | 1/4   | 1/4 | 3,401.89 | 1/4 | 3,185.26 | 1/4 | 2,968.64 | 1/4 | 2,752.02 | 1/4 | 2,519.25 | 1/4 | 2,267.16 | 1/4 | 2,015.06 | 1/4 | 1,763.35 | 1/4 | 1,511.67 |
| 1/2 | 1/2   | 1/2 | 3,397.38 | 1/2 | 3,180.75 | 1/2 | 2,964.13 | 1/2 | 2,747.50 | 1/2 | 2,514.00 | 1/2 | 2,261.90 | 1/2 | 2,009.81 | 1/2 | 1,758.12 | 1/2 | 1,506.42 |
| 3/4 | 3/4   | 3/4 | 3,392.86 | 3/4 | 3,176.24 | 3/4 | 2,959.61 | 3/4 | 2,742.99 | 3/4 | 2,508.75 | 3/4 | 2,256.65 | 3/4 | 2,004.56 | 3/4 | 1,752.88 | 3/4 | 1,501.17 |
| 8   | 8     | 8   | 3,388.35 | 8   | 3,171.73 | 8   | 2,955.10 | 8   | 2,738.48 | 8   | 2,503.50 | 8   | 2,251.40 | 8   | 1,999.30 | 8   | 1,747.65 | 8   | 1,495.92 |
| 1/4 | 1/4   | 1/4 | 3,383.84 | 1/4 | 3,167.21 | 1/4 | 2,950.59 | 1/4 | 2,733.96 | 1/4 | 2,498.24 | 1/4 | 2,246.15 | 1/4 | 1,994.05 | 1/4 | 1,742.42 | 1/4 | 1,490.67 |
| 1/2 | 1/2   | 1/2 | 3,379.32 | 1/2 | 3,162.70 | 1/2 | 2,946.08 | 1/2 | 2,729.45 | 1/2 | 2,492.99 | 1/2 | 2,240.90 | 1/2 | 1,988.80 | 1/2 | 1,737.18 | 1/2 | 1,485.42 |
| 3/4 | 3/4   | 3/4 | 3,374.81 | 3/4 | 3,158.19 | 3/4 | 2,941.56 | 3/4 | 2,724.94 | 3/4 | 2,487.74 | 3/4 | 2,235.64 | 3/4 | 1,983.55 | 3/4 | 1,731.95 | 3/4 | 1,480.17 |
| 9   | 9     | 9   | 3,370.30 | 9   | 3,153.67 | 9   | 2,937.05 | 9   | 2,720.43 | 9   | 2,482.49 | 9   | 2,230.39 | 9   | 1,978.30 | 9   | 1,726.71 | 9   | 1,474.92 |
| 1/4 | 1/4   | 1/4 | 3,365.78 | 1/4 | 3,149.16 | 1/4 | 2,932.54 | 1/4 | 2,715.91 | 1/4 | 2,477.24 | 1/4 | 2,225.14 | 1/4 | 1,973.04 | 1/4 | 1,721.48 | 1/4 | 1,469.67 |
| 1/2 | 1/2   | 1/2 | 3,361.27 | 1/2 | 3,144.65 | 1/2 | 2,928.02 | 1/2 | 2,711.40 | 1/2 | 2,471.98 | 1/2 | 2,219.89 | 1/2 | 1,967.79 | 1/2 | 1,716.24 | 1/2 | 1,464.41 |
| 3/4 | 3/4   | 3/4 | 3,356.76 | 3/4 | 3,140.13 | 3/4 | 2,923.51 | 3/4 | 2,706.89 | 3/4 | 2,466.73 | 3/4 | 2,214.64 | 3/4 | 1,962.54 | 3/4 | 1,711.01 | 3/4 | 1,459.16 |
| 10  | 10    | 10  | 3,352.25 | 10  | 3,135.62 | 10  | 2,919.00 | 10  | 2,702.37 | 10  | 2,461.48 | 10  | 2,209.38 | 10  | 1,957.29 | 10  | 1,705.78 | 10  | 1,453.91 |
| 1/4 | 1/4   | 1/4 | 3,347.73 | 1/4 | 3,131.11 | 1/4 | 2,914.48 | 1/4 | 2,697.86 | 1/4 | 2,456.23 | 1/4 | 2,204.13 | 1/4 | 1,952.04 | 1/4 | 1,700.54 | 1/4 | 1,448.66 |
| 1/2 | 1/2   | 1/2 | 3,343.22 | 1/2 | 3,126.60 | 1/2 | 2,909.97 | 1/2 | 2,693.35 | 1/2 | 2,450.98 | 1/2 | 2,198.88 | 1/2 | 1,946.78 | 1/2 | 1,695.31 | 1/2 | 1,443.41 |
| 3/4 | 3/4   | 3/4 | 3,338.71 | 3/4 | 3,122.08 | 3/4 | 2,905.46 | 3/4 | 2,688.83 | 3/4 | 2,445.72 | 3/4 | 2,193.63 | 3/4 | 1,941.53 | 3/4 | 1,690.07 | 3/4 | 1,438.16 |
| 11  | 11    | 11  | 3,334.19 | 11  | 3,117.57 | 11  | 2,900.95 | 11  | 2,684.32 | 11  | 2,440.47 | 11  | 2,188.38 | 11  | 1,936.28 | 11  | 1,684.84 | 11  | 1,432.91 |
| 1/4 | 1/4   | 1/4 | 3,329.68 | 1/4 | 3,113.06 | 1/4 | 2,896.43 | 1/4 | 2,679.81 | 1/4 | 2,435.22 | 1/4 | 2,183.12 | 1/4 | 1,931.03 | 1/4 | 1,679.60 | 1/4 | 1,427.66 |
| 1/2 | 1/2   | 1/2 | 3,325.17 | 1/2 | 3,108.54 | 1/2 | 2,891.92 | 1/2 | 2,675.30 | 1/2 | 2,429.97 | 1/2 | 2,177.87 | 1/2 | 1,925.78 | 1/2 | 1,674.37 | 1/2 | 1,422.41 |
| 3/4 | 3/4   | 3/4 | 3,320.65 | 3/4 | 3,104.03 | 3/4 | 2,887.41 | 3/4 | 2,670.78 | 3/4 | 2,424.72 | 3/4 | 2,172.62 | 3/4 | 1,920.52 | 3/4 | 1,669.14 | 3/4 | 1,417.16 |

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 TO TOP OF 2" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-03" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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# BARGE "E2MS 102"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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   | 1,411.91 | 0   | 1,159.89 | 0   | 907.86 | 0   | 661.00 | 0   | 409.30 | 0   | 156.54 | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 1,406.66 | 1/4 | 1,154.64 | 1/4 | 902.61 | 1/4 | 655.90 | 1/4 | 404.03 | 1/4 | 151.28 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,401.41 | 1/2 | 1,149.38 | 1/2 | 897.36 | 1/2 | 650.81 | 1/2 | 398.77 | 1/2 | 146.01 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,396.16 | 3/4 | 1,144.13 | 3/4 | 892.11 | 3/4 | 645.72 | 3/4 | 393.50 | 3/4 | 140.74 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 1,390.91 | 1   | 1,138.88 | 1   | 886.86 | 1   | 640.59 | 1   | 388.24 | 1   | 135.48 | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 1,385.66 | 1/4 | 1,133.63 | 1/4 | 881.61 | 1/4 | 635.46 | 1/4 | 382.97 | 1/4 | 130.21 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,380.41 | 1/2 | 1,128.38 | 1/2 | 876.36 | 1/2 | 630.33 | 1/2 | 377.71 | 1/2 | 124.95 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,375.16 | 3/4 | 1,123.13 | 3/4 | 871.11 | 3/4 | 625.20 | 3/4 | 372.44 | 3/4 | 119.68 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 1,369.91 | 2   | 1,117.88 | 2   | 865.86 | 2   | 619.93 | 2   | 367.17 | 2   | 114.42 | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 1,364.66 | 1/4 | 1,112.63 | 1/4 | 860.61 | 1/4 | 614.67 | 1/4 | 361.91 | 1/4 | 109.15 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,359.40 | 1/2 | 1,107.38 | 1/2 | 855.36 | 1/2 | 609.40 | 1/2 | 356.64 | 1/2 | 103.88 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,354.15 | 3/4 | 1,102.13 | 3/4 | 850.11 | 3/4 | 604.14 | 3/4 | 351.38 | 3/4 | 98.62  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 1,348.90 | 3   | 1,096.88 | 3   | 844.86 | 3   | 598.87 | 3   | 346.11 | 3   | 93.35  | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 1,343.65 | 1/4 | 1,091.63 | 1/4 | 839.61 | 1/4 | 593.60 | 1/4 | 340.85 | 1/4 | 88.09  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,338.40 | 1/2 | 1,086.38 | 1/2 | 834.35 | 1/2 | 588.34 | 1/2 | 335.58 | 1/2 | 82.83  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,333.15 | 3/4 | 1,081.13 | 3/4 | 829.10 | 3/4 | 583.07 | 3/4 | 330.31 | 3/4 | 77.56  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 1,327.90 | 4   | 1,075.88 | 4   | 823.99 | 4   | 577.81 | 4   | 325.05 | 4   | 72.31  | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 1,322.65 | 1/4 | 1,070.63 | 1/4 | 818.74 | 1/4 | 572.54 | 1/4 | 319.78 | 1/4 | 67.06  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,317.40 | 1/2 | 1,065.38 | 1/2 | 813.49 | 1/2 | 567.27 | 1/2 | 314.52 | 1/2 | 61.80  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,312.15 | 3/4 | 1,060.13 | 3/4 | 808.24 | 3/4 | 562.01 | 3/4 | 309.25 | 3/4 | 56.55  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 1,306.90 | 5   | 1,054.88 | 5   | 803.54 | 5   | 556.74 | 5   | 303.98 | 5   | 51.33  | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 1,301.65 | 1/4 | 1,049.63 | 1/4 | 798.45 | 1/4 | 551.48 | 1/4 | 298.72 | 1/4 | 46.11  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,296.40 | 1/2 | 1,044.37 | 1/2 | 793.36 | 1/2 | 546.21 | 1/2 | 293.45 | 1/2 | 40.89  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,291.15 | 3/4 | 1,039.12 | 3/4 | 788.26 | 3/4 | 540.95 | 3/4 | 288.19 | 3/4 | 35.67  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 1,285.90 | 6   | 1,033.87 | 6   | 783.17 | 6   | 535.68 | 6   | 282.92 | 6   | 31.28  | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 1,280.65 | 1/4 | 1,028.62 | 1/4 | 778.08 | 1/4 | 530.41 | 1/4 | 277.66 | 1/4 | 26.90  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,275.40 | 1/2 | 1,023.37 | 1/2 | 772.98 | 1/2 | 525.15 | 1/2 | 272.39 | 1/2 | 22.51  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,270.15 | 3/4 | 1,018.12 | 3/4 | 767.89 | 3/4 | 519.88 | 3/4 | 267.12 | 3/4 | 18.13  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 1,264.90 | 7   | 1,012.87 | 7   | 762.80 | 7   | 514.62 | 7   | 261.86 | 7   | 15.50  | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 1,259.65 | 1/4 | 1,007.62 | 1/4 | 757.70 | 1/4 | 509.35 | 1/4 | 256.59 | 1/4 | 12.86  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,254.39 | 1/2 | 1,002.37 | 1/2 | 752.61 | 1/2 | 504.08 | 1/2 | 251.33 | 1/2 | 10.23  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,249.14 | 3/4 | 997.12   | 3/4 | 747.52 | 3/4 | 498.82 | 3/4 | 246.06 | 3/4 | 7.60   | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 1,243.89 | 8   | 991.87   | 8   | 742.42 | 8   | 493.55 | 8   | 240.79 | 8   | 6.72   | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 1,238.64 | 1/4 | 986.62   | 1/4 | 737.33 | 1/4 | 488.29 | 1/4 | 235.53 | 1/4 | 5.85   | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,233.39 | 1/2 | 981.37   | 1/2 | 732.24 | 1/2 | 483.02 | 1/2 | 230.26 | 1/2 | 4.97   | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,228.14 | 3/4 | 976.12   | 3/4 | 727.14 | 3/4 | 477.76 | 3/4 | 225.00 | 3/4 | 4.09   | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 1,222.89 | 9   | 970.87   | 9   | 722.06 | 9   | 472.49 | 9   | 219.73 | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 1,217.64 | 1/4 | 965.62   | 1/4 | 716.97 | 1/4 | 467.22 | 1/4 | 214.47 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,212.39 | 1/2 | 960.37   | 1/2 | 711.89 | 1/2 | 461.96 | 1/2 | 209.20 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,207.14 | 3/4 | 955.12   | 3/4 | 706.80 | 3/4 | 456.69 | 3/4 | 203.93 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 1,201.89 | 10  | 949.87   | 10  | 701.72 | 10  | 451.43 | 10  | 198.67 | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 1,196.64 | 1/4 | 944.62   | 1/4 | 696.63 | 1/4 | 446.16 | 1/4 | 193.40 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,191.39 | 1/2 | 939.36   | 1/2 | 691.55 | 1/2 | 440.90 | 1/2 | 188.14 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,186.14 | 3/4 | 934.11   | 3/4 | 686.46 | 3/4 | 435.63 | 3/4 | 182.87 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 1,180.89 | 11  | 928.86   | 11  | 681.37 | 11  | 430.36 | 11  | 177.61 | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 1,175.64 | 1/4 | 923.61   | 1/4 | 676.28 | 1/4 | 425.10 | 1/4 | 172.34 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,170.39 | 1/2 | 918.36   | 1/2 | 671.18 | 1/2 | 419.83 | 1/2 | 167.07 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,165.14 | 3/4 | 913.11   | 3/4 | 666.09 | 3/4 | 414.57 | 3/4 | 161.81 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2018 CL  
CALCULATED : 08/01/2018 CL  
PRINTED: 08/01/2018 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2018

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "E2MS 102"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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   | 3,733.84 | 0   | 3,458.89 | 0   | 3,183.95 | 0   | 2,909.01 | 0   | 2,634.06 | 0   | 2,359.12 | 0   | 2,084.17 | 0   | 1,809.23 |     |          |
| 1/4 | 1/4   | 1/4 | 3,728.11 | 1/4 | 3,453.17 | 1/4 | 3,178.22 | 1/4 | 2,903.28 | 1/4 | 2,628.33 | 1/4 | 2,353.39 | 1/4 | 2,079.45 | 1/4 | 1,803.50 |     |          |
| 1/2 | 1/2   | 1/2 | 3,722.38 | 1/2 | 3,447.44 | 1/2 | 3,172.49 | 1/2 | 2,897.55 | 1/2 | 2,622.61 | 1/2 | 2,347.66 | 1/2 | 2,072.72 | 1/2 | 1,797.77 |     |          |
| 3/4 | 3/4   | 3/4 | 3,956.97 | 3/4 | 3,716.65 | 3/4 | 3,441.71 | 3/4 | 3,166.77 | 3/4 | 2,891.82 | 3/4 | 2,616.88 | 3/4 | 2,341.93 | 3/4 | 2,066.99 | 3/4 | 1,792.05 |
| 1   | 1     | 1   | 3,956.01 | 1   | 3,710.93 | 1   | 3,435.98 | 1   | 3,161.04 | 1   | 2,886.09 | 1   | 2,611.15 | 1   | 2,336.21 | 1   | 2,061.26 | 1   | 1,786.32 |
| 1/4 | 1/4   | 1/4 | 3,955.06 | 1/4 | 3,705.20 | 1/4 | 3,430.25 | 1/4 | 3,155.31 | 1/4 | 2,880.37 | 1/4 | 2,605.42 | 1/4 | 2,330.48 | 1/4 | 2,055.53 | 1/4 | 1,780.59 |
| 1/2 | 1/2   | 1/2 | 3,954.11 | 1/2 | 3,699.47 | 1/2 | 3,424.53 | 1/2 | 3,149.58 | 1/2 | 2,874.64 | 1/2 | 2,599.69 | 1/2 | 2,324.75 | 1/2 | 2,049.81 | 1/2 | 1,774.86 |
| 3/4 | 3/4   | 3/4 | 3,953.15 | 3/4 | 3,693.74 | 3/4 | 3,418.80 | 3/4 | 3,143.85 | 3/4 | 2,868.91 | 3/4 | 2,593.97 | 3/4 | 2,319.02 | 3/4 | 2,044.08 | 3/4 | 1,769.13 |
| 2   | 2     | 2   | 3,950.29 | 2   | 3,688.01 | 2   | 3,413.07 | 2   | 3,138.13 | 2   | 2,863.18 | 2   | 2,588.24 | 2   | 2,313.29 | 2   | 2,038.35 | 2   | 1,763.41 |
| 1/4 | 1/4   | 1/4 | 3,947.43 | 1/4 | 3,682.29 | 1/4 | 3,407.34 | 1/4 | 3,132.40 | 1/4 | 2,857.45 | 1/4 | 2,582.51 | 1/4 | 2,307.57 | 1/4 | 2,032.62 | 1/4 | 1,757.68 |
| 1/2 | 1/2   | 1/2 | 3,944.56 | 1/2 | 3,676.56 | 1/2 | 3,401.61 | 1/2 | 3,126.67 | 1/2 | 2,851.73 | 1/2 | 2,576.78 | 1/2 | 2,301.84 | 1/2 | 2,026.89 | 1/2 | 1,751.95 |
| 3/4 | 3/4   | 3/4 | 3,941.70 | 3/4 | 3,670.83 | 3/4 | 3,395.89 | 3/4 | 3,120.94 | 3/4 | 2,846.00 | 3/4 | 2,571.05 | 3/4 | 2,296.11 | 3/4 | 2,021.17 | 3/4 | 1,746.22 |
| 3   | 3     | 3   | 3,936.93 | 3   | 3,665.10 | 3   | 3,390.16 | 3   | 3,115.21 | 3   | 2,840.27 | 3   | 2,565.33 | 3   | 2,290.38 | 3   | 2,015.44 | 3   | 1,740.49 |
| 1/4 | 1/4   | 1/4 | 3,932.16 | 1/4 | 3,659.37 | 1/4 | 3,384.43 | 1/4 | 3,109.49 | 1/4 | 2,834.54 | 1/4 | 2,559.60 | 1/4 | 2,284.65 | 1/4 | 2,009.71 | 1/4 | 1,734.77 |
| 1/2 | 1/2   | 1/2 | 3,927.39 | 1/2 | 3,653.65 | 1/2 | 3,378.70 | 1/2 | 3,103.76 | 1/2 | 2,828.81 | 1/2 | 2,553.87 | 1/2 | 2,278.93 | 1/2 | 2,003.98 | 1/2 | 1,729.04 |
| 3/4 | 3/4   | 3/4 | 3,922.62 | 3/4 | 3,647.92 | 3/4 | 3,372.97 | 3/4 | 3,098.03 | 3/4 | 2,823.09 | 3/4 | 2,548.14 | 3/4 | 2,273.20 | 3/4 | 1,998.25 | 3/4 | 1,723.31 |
| 4   | 4     | 4   | 3,916.94 | 4   | 3,642.19 | 4   | 3,367.25 | 4   | 3,092.30 | 4   | 2,817.36 | 4   | 2,542.41 | 4   | 2,267.47 | 4   | 1,992.53 | 4   | 1,717.58 |
| 1/4 | 1/4   | 1/4 | 3,911.26 | 1/4 | 3,636.46 | 1/4 | 3,361.52 | 1/4 | 3,086.57 | 1/4 | 2,811.63 | 1/4 | 2,536.69 | 1/4 | 2,261.74 | 1/4 | 1,986.80 | 1/4 | 1,711.85 |
| 1/2 | 1/2   | 1/2 | 3,905.58 | 1/2 | 3,630.73 | 1/2 | 3,355.79 | 1/2 | 3,080.85 | 1/2 | 2,805.90 | 1/2 | 2,530.96 | 1/2 | 2,256.01 | 1/2 | 1,981.07 | 1/2 | 1,706.13 |
| 3/4 | 3/4   | 3/4 | 3,899.90 | 3/4 | 3,625.01 | 3/4 | 3,350.06 | 3/4 | 3,075.12 | 3/4 | 2,800.17 | 3/4 | 2,525.23 | 3/4 | 2,250.29 | 3/4 | 1,975.34 | 3/4 | 1,700.40 |
| 5   | 5     | 5   | 3,894.19 | 5   | 3,619.28 | 5   | 3,344.33 | 5   | 3,069.39 | 5   | 2,794.45 | 5   | 2,519.50 | 5   | 2,244.56 | 5   | 1,969.61 | 5   | 1,694.67 |
| 1/4 | 1/4   | 1/4 | 3,888.48 | 1/4 | 3,613.55 | 1/4 | 3,338.61 | 1/4 | 3,063.66 | 1/4 | 2,788.72 | 1/4 | 2,513.77 | 1/4 | 2,238.83 | 1/4 | 1,963.89 | 1/4 | 1,688.94 |
| 1/2 | 1/2   | 1/2 | 3,882.76 | 1/2 | 3,607.82 | 1/2 | 3,332.88 | 1/2 | 3,057.93 | 1/2 | 2,782.99 | 1/2 | 2,508.05 | 1/2 | 2,233.10 | 1/2 | 1,958.16 | 1/2 | 1,683.21 |
| 3/4 | 3/4   | 3/4 | 3,877.05 | 3/4 | 3,602.09 | 3/4 | 3,327.15 | 3/4 | 3,052.21 | 3/4 | 2,777.26 | 3/4 | 2,502.32 | 3/4 | 2,227.37 | 3/4 | 1,952.43 | 3/4 | 1,677.49 |
| 6   | 6     | 6   | 3,871.32 | 6   | 3,596.37 | 6   | 3,321.42 | 6   | 3,046.48 | 6   | 2,771.53 | 6   | 2,496.59 | 6   | 2,221.65 | 6   | 1,946.70 | 6   | 1,671.76 |
| 1/4 | 1/4   | 1/4 | 3,865.59 | 1/4 | 3,590.64 | 1/4 | 3,315.69 | 1/4 | 3,040.75 | 1/4 | 2,765.81 | 1/4 | 2,490.86 | 1/4 | 2,215.92 | 1/4 | 1,940.97 | 1/4 | 1,666.03 |
| 1/2 | 1/2   | 1/2 | 3,859.86 | 1/2 | 3,584.91 | 1/2 | 3,309.97 | 1/2 | 3,035.02 | 1/2 | 2,760.08 | 1/2 | 2,485.13 | 1/2 | 2,210.19 | 1/2 | 1,935.25 | 1/2 | 1,660.30 |
| 3/4 | 3/4   | 3/4 | 3,854.13 | 3/4 | 3,579.18 | 3/4 | 3,304.24 | 3/4 | 3,029.29 | 3/4 | 2,754.35 | 3/4 | 2,479.41 | 3/4 | 2,204.46 | 3/4 | 1,929.52 | 3/4 | 1,654.57 |
| 7   | 7     | 7   | 3,848.40 | 7   | 3,573.45 | 7   | 3,298.51 | 7   | 3,023.57 | 7   | 2,748.62 | 7   | 2,473.68 | 7   | 2,198.73 | 7   | 1,923.79 | 7   | 1,648.85 |
| 1/4 | 1/4   | 1/4 | 3,842.67 | 1/4 | 3,567.73 | 1/4 | 3,292.78 | 1/4 | 3,017.84 | 1/4 | 2,742.89 | 1/4 | 2,467.95 | 1/4 | 2,193.01 | 1/4 | 1,918.06 | 1/4 | 1,643.12 |
| 1/2 | 1/2   | 1/2 | 3,836.94 | 1/2 | 3,562.00 | 1/2 | 3,287.05 | 1/2 | 3,012.11 | 1/2 | 2,737.17 | 1/2 | 2,462.22 | 1/2 | 2,187.28 | 1/2 | 1,912.33 | 1/2 | 1,637.39 |
| 3/4 | 3/4   | 3/4 | 3,831.21 | 3/4 | 3,556.27 | 3/4 | 3,281.33 | 3/4 | 3,006.38 | 3/4 | 2,731.44 | 3/4 | 2,456.49 | 3/4 | 2,181.55 | 3/4 | 1,906.61 | 3/4 | 1,631.66 |
| 8   | 8     | 8   | 3,825.49 | 8   | 3,550.54 | 8   | 3,275.60 | 8   | 3,000.65 | 8   | 2,725.71 | 8   | 2,450.77 | 8   | 2,175.82 | 8   | 1,900.88 | 8   | 1,625.93 |
| 1/4 | 1/4   | 1/4 | 3,819.76 | 1/4 | 3,544.81 | 1/4 | 3,269.87 | 1/4 | 2,994.93 | 1/4 | 2,719.98 | 1/4 | 2,445.04 | 1/4 | 2,170.09 | 1/4 | 1,895.15 | 1/4 | 1,620.21 |
| 1/2 | 1/2   | 1/2 | 3,814.03 | 1/2 | 3,539.09 | 1/2 | 3,264.14 | 1/2 | 2,989.20 | 1/2 | 2,714.25 | 1/2 | 2,439.31 | 1/2 | 2,164.37 | 1/2 | 1,889.42 | 1/2 | 1,614.48 |
| 3/4 | 3/4   | 3/4 | 3,808.30 | 3/4 | 3,533.36 | 3/4 | 3,258.41 | 3/4 | 2,983.47 | 3/4 | 2,708.53 | 3/4 | 2,433.58 | 3/4 | 2,158.64 | 3/4 | 1,883.69 | 3/4 | 1,608.75 |
| 9   | 9     | 9   | 3,802.57 | 9   | 3,527.63 | 9   | 3,252.69 | 9   | 2,977.74 | 9   | 2,702.80 | 9   | 2,427.85 | 9   | 2,152.91 | 9   | 1,877.97 | 9   | 1,603.02 |
| 1/4 | 1/4   | 1/4 | 3,796.85 | 1/4 | 3,521.90 | 1/4 | 3,246.96 | 1/4 | 2,972.01 | 1/4 | 2,697.07 | 1/4 | 2,422.13 | 1/4 | 2,147.18 | 1/4 | 1,872.24 | 1/4 | 1,597.29 |
| 1/2 | 1/2   | 1/2 | 3,791.12 | 1/2 | 3,516.17 | 1/2 | 3,241.23 | 1/2 | 2,966.29 | 1/2 | 2,691.34 | 1/2 | 2,416.40 | 1/2 | 2,141.45 | 1/2 | 1,866.51 | 1/2 | 1,591.57 |
| 3/4 | 3/4   | 3/4 | 3,785.39 | 3/4 | 3,510.45 | 3/4 | 3,235.50 | 3/4 | 2,960.56 | 3/4 | 2,685.61 | 3/4 | 2,410.67 | 3/4 | 2,135.73 | 3/4 | 1,860.78 | 3/4 | 1,585.84 |
| 10  | 10    | 10  | 3,779.66 | 10  | 3,504.72 | 10  | 3,229.77 | 10  | 2,954.83 | 10  | 2,679.89 | 10  | 2,404.94 | 10  | 2,130.00 | 10  | 1,855.05 | 10  | 1,580.11 |
| 1/4 | 1/4   | 1/4 | 3,773.93 | 1/4 | 3,498.99 | 1/4 | 3,224.05 | 1/4 | 2,949.10 | 1/4 | 2,674.16 | 1/4 | 2,399.21 | 1/4 | 2,124.27 | 1/4 | 1,849.33 | 1/4 | 1,574.38 |
| 1/2 | 1/2   | 1/2 | 3,768.21 | 1/2 | 3,493.26 | 1/2 | 3,218.32 | 1/2 | 2,943.37 | 1/2 | 2,668.43 | 1/2 | 2,393.49 | 1/2 | 2,118.54 | 1/2 | 1,843.60 | 1/2 | 1,568.65 |
| 3/4 | 3/4   | 3/4 | 3,762.48 | 3/4 | 3,487.53 | 3/4 | 3,212.59 | 3/4 | 2,937.65 | 3/4 | 2,662.70 | 3/4 | 2,387.76 | 3/4 | 2,112.81 | 3/4 | 1,837.87 | 3/4 | 1,562.93 |
| 11  | 11    | 11  | 3,756.75 | 11  | 3,481.81 | 11  | 3,206.86 | 11  | 2,931.92 | 11  | 2,656.97 | 11  | 2,382.03 | 11  | 2,107.09 | 11  | 1,832.14 | 11  | 1,557.20 |
| 1/4 | 1/4   | 1/4 | 3,751.02 | 1/4 | 3,476.08 | 1/4 | 3,201.13 | 1/4 | 2,926.19 | 1/4 | 2,651.25 | 1/4 | 2,376.30 | 1/4 | 2,101.36 | 1/4 | 1,826.41 | 1/4 | 1,551.47 |
| 1/2 | 1/2   | 1/2 | 3,745.29 | 1/2 | 3,470.35 | 1/2 | 3,195.41 | 1/2 | 2,920.46 | 1/2 | 2,645.52 | 1/2 | 2,370.57 | 1/2 | 2,095.63 | 1/2 | 1,820.69 | 1/2 | 1,545.74 |
| 3/4 | 3/4   | 3/4 | 3,739.57 | 3/4 | 3,464.62 | 3/4 | 3,189.68 | 3/4 | 2,914.73 | 3/4 | 2,639.79 | 3/4 | 2,364.85 | 3/4 | 2,089.90 | 3/4 | 1,814.96 | 3/4 | 1,540.01 |

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 TO TOP OF 2" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-03" FORWARD OF AFT BULKHEAD

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



# BARGE "E2MS 102"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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   | 1,534.29 | 0   | 1,259.34 | 0   | 984.40 | 0   | 714.79 | 0   | 441.38 | 0   | 166.45 | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 1,528.56 | 1/4 | 1,253.61 | 1/4 | 978.67 | 1/4 | 709.23 | 1/4 | 435.66 | 1/4 | 160.72 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,522.83 | 1/2 | 1,247.89 | 1/2 | 972.94 | 1/2 | 703.68 | 1/2 | 429.93 | 1/2 | 154.99 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,517.10 | 3/4 | 1,242.16 | 3/4 | 967.21 | 3/4 | 698.12 | 3/4 | 424.20 | 3/4 | 149.27 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 1,511.37 | 1   | 1,236.43 | 1   | 961.49 | 1   | 692.56 | 1   | 418.47 | 1   | 143.54 | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 1,505.65 | 1/4 | 1,230.70 | 1/4 | 955.76 | 1/4 | 687.01 | 1/4 | 412.75 | 1/4 | 137.81 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,499.92 | 1/2 | 1,224.97 | 1/2 | 950.03 | 1/2 | 681.45 | 1/2 | 407.02 | 1/2 | 132.08 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,494.19 | 3/4 | 1,219.25 | 3/4 | 944.30 | 3/4 | 675.89 | 3/4 | 401.29 | 3/4 | 126.36 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 1,488.46 | 2   | 1,213.52 | 2   | 938.57 | 2   | 670.25 | 2   | 395.56 | 2   | 120.63 | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 1,482.73 | 1/4 | 1,207.79 | 1/4 | 932.85 | 1/4 | 664.60 | 1/4 | 389.83 | 1/4 | 114.90 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,477.01 | 1/2 | 1,202.06 | 1/2 | 927.12 | 1/2 | 658.96 | 1/2 | 384.11 | 1/2 | 109.17 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,471.28 | 3/4 | 1,196.33 | 3/4 | 921.39 | 3/4 | 653.31 | 3/4 | 378.38 | 3/4 | 103.44 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 1,465.55 | 3   | 1,190.61 | 3   | 915.66 | 3   | 647.59 | 3   | 372.65 | 3   | 97.72  | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 1,459.82 | 1/4 | 1,184.88 | 1/4 | 909.93 | 1/4 | 641.86 | 1/4 | 366.92 | 1/4 | 91.99  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,454.09 | 1/2 | 1,179.15 | 1/2 | 904.21 | 1/2 | 636.13 | 1/2 | 361.20 | 1/2 | 86.27  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,448.37 | 3/4 | 1,173.42 | 3/4 | 898.48 | 3/4 | 630.40 | 3/4 | 355.47 | 3/4 | 80.54  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 1,442.64 | 4   | 1,167.69 | 4   | 892.83 | 4   | 624.67 | 4   | 349.74 | 4   | 74.83  | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 1,436.91 | 1/4 | 1,161.97 | 1/4 | 887.19 | 1/4 | 618.95 | 1/4 | 344.01 | 1/4 | 69.11  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,431.18 | 1/2 | 1,156.24 | 1/2 | 881.54 | 1/2 | 613.22 | 1/2 | 338.28 | 1/2 | 63.40  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,425.45 | 3/4 | 1,150.51 | 3/4 | 875.90 | 3/4 | 607.49 | 3/4 | 332.56 | 3/4 | 57.69  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 1,419.73 | 5   | 1,144.78 | 5   | 870.34 | 5   | 601.76 | 5   | 326.83 | 5   | 52.01  | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 1,414.00 | 1/4 | 1,139.05 | 1/4 | 864.78 | 1/4 | 596.04 | 1/4 | 321.10 | 1/4 | 46.33  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,408.27 | 1/2 | 1,133.33 | 1/2 | 859.23 | 1/2 | 590.31 | 1/2 | 315.37 | 1/2 | 40.65  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,402.54 | 3/4 | 1,127.60 | 3/4 | 853.67 | 3/4 | 584.58 | 3/4 | 309.65 | 3/4 | 34.97  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 1,396.81 | 6   | 1,121.87 | 6   | 848.11 | 6   | 578.85 | 6   | 303.92 | 6   | 30.20  | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 1,391.09 | 1/4 | 1,116.14 | 1/4 | 842.56 | 1/4 | 573.12 | 1/4 | 298.19 | 1/4 | 25.43  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,385.36 | 1/2 | 1,110.41 | 1/2 | 837.00 | 1/2 | 567.40 | 1/2 | 292.46 | 1/2 | 20.66  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,379.63 | 3/4 | 1,104.69 | 3/4 | 831.45 | 3/4 | 561.67 | 3/4 | 286.73 | 3/4 | 15.89  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 1,373.90 | 7   | 1,098.96 | 7   | 825.89 | 7   | 555.94 | 7   | 281.01 | 7   | 13.03  | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 1,368.17 | 1/4 | 1,093.23 | 1/4 | 820.34 | 1/4 | 550.21 | 1/4 | 275.28 | 1/4 | 10.17  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,362.45 | 1/2 | 1,087.50 | 1/2 | 814.78 | 1/2 | 544.49 | 1/2 | 269.55 | 1/2 | 7.30   | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,356.72 | 3/4 | 1,081.77 | 3/4 | 809.23 | 3/4 | 538.76 | 3/4 | 263.82 | 3/4 | 4.44   | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 1,350.99 | 8   | 1,076.05 | 8   | 803.67 | 8   | 533.03 | 8   | 258.10 | 8   | 3.49   | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 1,345.26 | 1/4 | 1,070.32 | 1/4 | 798.11 | 1/4 | 527.30 | 1/4 | 252.37 | 1/4 | 2.53   | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,339.53 | 1/2 | 1,064.59 | 1/2 | 792.56 | 1/2 | 521.57 | 1/2 | 246.64 | 1/2 | 1.58   | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,333.81 | 3/4 | 1,058.86 | 3/4 | 787.00 | 3/4 | 515.85 | 3/4 | 240.91 | 3/4 | 0.63   | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 1,328.08 | 9   | 1,053.13 | 9   | 781.45 | 9   | 510.12 | 9   | 235.18 | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 1,322.35 | 1/4 | 1,047.41 | 1/4 | 775.89 | 1/4 | 504.39 | 1/4 | 229.46 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,316.62 | 1/2 | 1,041.68 | 1/2 | 770.34 | 1/2 | 498.66 | 1/2 | 223.73 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,310.89 | 3/4 | 1,035.95 | 3/4 | 764.78 | 3/4 | 492.94 | 3/4 | 218.00 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 1,305.17 | 10  | 1,030.22 | 10  | 759.23 | 10  | 487.21 | 10  | 212.27 | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 1,299.44 | 1/4 | 1,024.49 | 1/4 | 753.67 | 1/4 | 481.48 | 1/4 | 206.55 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,293.71 | 1/2 | 1,018.77 | 1/2 | 748.12 | 1/2 | 475.75 | 1/2 | 200.82 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,287.98 | 3/4 | 1,013.04 | 3/4 | 742.56 | 3/4 | 470.02 | 3/4 | 195.09 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 1,282.25 | 11  | 1,007.31 | 11  | 737.01 | 11  | 464.30 | 11  | 189.36 | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 1,276.53 | 1/4 | 1,001.58 | 1/4 | 731.45 | 1/4 | 458.57 | 1/4 | 183.63 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,270.80 | 1/2 | 995.85   | 1/2 | 725.90 | 1/2 | 452.84 | 1/2 | 177.91 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,265.07 | 3/4 | 990.13   | 3/4 | 720.34 | 3/4 | 447.11 | 3/4 | 172.18 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2018 CL  
CALCULATED : 08/01/2018 CL  
PRINTED: 08/01/2018 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2018

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



# BARGE "E2MS 102"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 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   | 3,301.17 | 0   | 3,059.24 | 0   | 2,817.30 | 0   | 2,575.37 | 0   | 2,333.43 | 0   | 2,091.50 | 0   | 1,849.56 | 0   | 1,607.63 |     |          |
| 1/4 | 1/4   | 1/4 | 3,296.13 | 1/4 | 3,054.20 | 1/4 | 2,812.26 | 1/4 | 2,570.33 | 1/4 | 2,328.39 | 1/4 | 2,086.46 | 1/4 | 1,844.52 | 1/4 | 1,602.59 |     |          |
| 1/2 | 1/2   | 1/2 | 3,291.09 | 1/2 | 3,049.16 | 1/2 | 2,807.22 | 1/2 | 2,565.29 | 1/2 | 2,323.35 | 1/2 | 2,081.42 | 1/2 | 1,839.48 | 1/2 | 1,597.55 |     |          |
| 3/4 | 3/4   | 3/4 | 3,286.05 | 3/4 | 3,044.12 | 3/4 | 2,802.18 | 3/4 | 2,560.25 | 3/4 | 2,318.31 | 3/4 | 2,076.38 | 3/4 | 1,834.44 | 3/4 | 1,592.51 |     |          |
| 1   | 1     | 1   | 3,281.01 | 1   | 3,039.08 | 1   | 2,797.14 | 1   | 2,555.21 | 1   | 2,313.27 | 1   | 2,071.34 | 1   | 1,829.40 | 1   | 1,587.47 |     |          |
| 1/4 | 1/4   | 1/4 | 3,487.40 | 1/4 | 3,275.97 | 1/4 | 3,034.04 | 1/4 | 2,792.10 | 1/4 | 2,550.17 | 1/4 | 2,308.23 | 1/4 | 2,066.30 | 1/4 | 1,824.36 | 1/4 | 1,582.43 |
| 1/2 | 1/2   | 1/2 | 3,486.57 | 1/2 | 3,270.93 | 1/2 | 3,028.99 | 1/2 | 2,787.06 | 1/2 | 2,545.13 | 1/2 | 2,303.19 | 1/2 | 2,061.26 | 1/2 | 1,819.32 | 1/2 | 1,577.39 |
| 3/4 | 3/4   | 3/4 | 3,485.73 | 3/4 | 3,265.89 | 3/4 | 3,023.95 | 3/4 | 2,782.02 | 3/4 | 2,540.09 | 3/4 | 2,298.15 | 3/4 | 2,056.22 | 3/4 | 1,814.28 | 3/4 | 1,572.35 |
| 2   | 2     | 2   | 3,484.89 | 2   | 3,260.85 | 2   | 3,018.91 | 2   | 2,776.98 | 2   | 2,535.05 | 2   | 2,293.11 | 2   | 2,051.18 | 2   | 1,809.24 | 2   | 1,567.31 |
| 1/4 | 1/4   | 1/4 | 3,484.05 | 1/4 | 3,255.81 | 1/4 | 3,013.87 | 1/4 | 2,771.94 | 1/4 | 2,530.01 | 1/4 | 2,288.07 | 1/4 | 2,046.14 | 1/4 | 1,804.20 | 1/4 | 1,562.27 |
| 1/2 | 1/2   | 1/2 | 3,481.53 | 1/2 | 3,250.77 | 1/2 | 3,008.83 | 1/2 | 2,766.90 | 1/2 | 2,524.96 | 1/2 | 2,283.03 | 1/2 | 2,041.10 | 1/2 | 1,799.16 | 1/2 | 1,557.23 |
| 3/4 | 3/4   | 3/4 | 3,479.01 | 3/4 | 3,245.73 | 3/4 | 3,003.79 | 3/4 | 2,761.86 | 3/4 | 2,519.92 | 3/4 | 2,277.99 | 3/4 | 2,036.06 | 3/4 | 1,794.12 | 3/4 | 1,552.19 |
| 3   | 3     | 3   | 3,476.49 | 3   | 3,240.69 | 3   | 2,998.75 | 3   | 2,756.82 | 3   | 2,514.88 | 3   | 2,272.95 | 3   | 2,031.02 | 3   | 1,789.08 | 3   | 1,547.15 |
| 1/4 | 1/4   | 1/4 | 3,473.97 | 1/4 | 3,235.65 | 1/4 | 2,993.71 | 1/4 | 2,751.78 | 1/4 | 2,509.84 | 1/4 | 2,267.91 | 1/4 | 2,025.98 | 1/4 | 1,784.04 | 1/4 | 1,542.11 |
| 1/2 | 1/2   | 1/2 | 3,469.77 | 1/2 | 3,230.61 | 1/2 | 2,988.67 | 1/2 | 2,746.74 | 1/2 | 2,504.80 | 1/2 | 2,262.87 | 1/2 | 2,020.93 | 1/2 | 1,779.00 | 1/2 | 1,537.07 |
| 3/4 | 3/4   | 3/4 | 3,465.57 | 3/4 | 3,225.57 | 3/4 | 2,983.63 | 3/4 | 2,741.70 | 3/4 | 2,499.76 | 3/4 | 2,257.83 | 3/4 | 2,015.89 | 3/4 | 1,773.96 | 3/4 | 1,532.03 |
| 4   | 4     | 4   | 3,461.38 | 4   | 3,220.53 | 4   | 2,978.59 | 4   | 2,736.66 | 4   | 2,494.72 | 4   | 2,252.79 | 4   | 2,010.85 | 4   | 1,768.92 | 4   | 1,526.99 |
| 1/4 | 1/4   | 1/4 | 3,457.18 | 1/4 | 3,215.49 | 1/4 | 2,973.55 | 1/4 | 2,731.62 | 1/4 | 2,489.68 | 1/4 | 2,247.75 | 1/4 | 2,005.81 | 1/4 | 1,763.88 | 1/4 | 1,521.95 |
| 1/2 | 1/2   | 1/2 | 3,452.18 | 1/2 | 3,210.45 | 1/2 | 2,968.51 | 1/2 | 2,726.58 | 1/2 | 2,484.64 | 1/2 | 2,242.71 | 1/2 | 2,000.77 | 1/2 | 1,758.84 | 1/2 | 1,516.90 |
| 3/4 | 3/4   | 3/4 | 3,447.19 | 3/4 | 3,205.41 | 3/4 | 2,963.47 | 3/4 | 2,721.54 | 3/4 | 2,479.60 | 3/4 | 2,237.67 | 3/4 | 1,995.73 | 3/4 | 1,753.80 | 3/4 | 1,511.86 |
| 5   | 5     | 5   | 3,442.19 | 5   | 3,200.37 | 5   | 2,958.43 | 5   | 2,716.50 | 5   | 2,474.56 | 5   | 2,232.63 | 5   | 1,990.69 | 5   | 1,748.76 | 5   | 1,506.82 |
| 1/4 | 1/4   | 1/4 | 3,437.19 | 1/4 | 3,195.32 | 1/4 | 2,953.39 | 1/4 | 2,711.46 | 1/4 | 2,469.52 | 1/4 | 2,227.59 | 1/4 | 1,985.65 | 1/4 | 1,743.72 | 1/4 | 1,501.78 |
| 1/2 | 1/2   | 1/2 | 3,432.16 | 1/2 | 3,190.28 | 1/2 | 2,948.35 | 1/2 | 2,706.42 | 1/2 | 2,464.48 | 1/2 | 2,222.55 | 1/2 | 1,980.61 | 1/2 | 1,738.68 | 1/2 | 1,496.74 |
| 3/4 | 3/4   | 3/4 | 3,427.14 | 3/4 | 3,185.24 | 3/4 | 2,943.31 | 3/4 | 2,701.38 | 3/4 | 2,459.44 | 3/4 | 2,217.51 | 3/4 | 1,975.57 | 3/4 | 1,733.64 | 3/4 | 1,491.70 |
| 6   | 6     | 6   | 3,422.11 | 6   | 3,180.20 | 6   | 2,938.27 | 6   | 2,696.34 | 6   | 2,454.40 | 6   | 2,212.47 | 6   | 1,970.53 | 6   | 1,728.60 | 6   | 1,486.66 |
| 1/4 | 1/4   | 1/4 | 3,417.08 | 1/4 | 3,175.16 | 1/4 | 2,933.23 | 1/4 | 2,691.29 | 1/4 | 2,449.36 | 1/4 | 2,207.43 | 1/4 | 1,965.49 | 1/4 | 1,723.56 | 1/4 | 1,481.62 |
| 1/2 | 1/2   | 1/2 | 3,412.05 | 1/2 | 3,170.12 | 1/2 | 2,928.19 | 1/2 | 2,686.25 | 1/2 | 2,444.32 | 1/2 | 2,202.39 | 1/2 | 1,960.45 | 1/2 | 1,718.52 | 1/2 | 1,476.58 |
| 3/4 | 3/4   | 3/4 | 3,407.01 | 3/4 | 3,165.08 | 3/4 | 2,923.15 | 3/4 | 2,681.21 | 3/4 | 2,439.28 | 3/4 | 2,197.35 | 3/4 | 1,955.41 | 3/4 | 1,713.48 | 3/4 | 1,471.54 |
| 7   | 7     | 7   | 3,401.97 | 7   | 3,160.04 | 7   | 2,918.11 | 7   | 2,676.17 | 7   | 2,434.24 | 7   | 2,192.31 | 7   | 1,950.37 | 7   | 1,708.44 | 7   | 1,466.50 |
| 1/4 | 1/4   | 1/4 | 3,396.94 | 1/4 | 3,155.00 | 1/4 | 2,913.07 | 1/4 | 2,671.13 | 1/4 | 2,429.20 | 1/4 | 2,187.26 | 1/4 | 1,945.33 | 1/4 | 1,703.40 | 1/4 | 1,461.46 |
| 1/2 | 1/2   | 1/2 | 3,391.90 | 1/2 | 3,149.96 | 1/2 | 2,908.03 | 1/2 | 2,666.09 | 1/2 | 2,424.16 | 1/2 | 2,182.22 | 1/2 | 1,940.29 | 1/2 | 1,698.36 | 1/2 | 1,456.42 |
| 3/4 | 3/4   | 3/4 | 3,386.86 | 3/4 | 3,144.92 | 3/4 | 2,902.99 | 3/4 | 2,661.05 | 3/4 | 2,419.12 | 3/4 | 2,177.18 | 3/4 | 1,935.25 | 3/4 | 1,693.32 | 3/4 | 1,451.38 |
| 8   | 8     | 8   | 3,381.82 | 8   | 3,139.88 | 8   | 2,897.95 | 8   | 2,656.01 | 8   | 2,414.08 | 8   | 2,172.14 | 8   | 1,930.21 | 8   | 1,688.28 | 8   | 1,446.34 |
| 1/4 | 1/4   | 1/4 | 3,376.78 | 1/4 | 3,134.84 | 1/4 | 2,892.91 | 1/4 | 2,650.97 | 1/4 | 2,409.04 | 1/4 | 2,167.10 | 1/4 | 1,925.17 | 1/4 | 1,683.23 | 1/4 | 1,441.30 |
| 1/2 | 1/2   | 1/2 | 3,371.74 | 1/2 | 3,129.80 | 1/2 | 2,887.87 | 1/2 | 2,645.93 | 1/2 | 2,404.00 | 1/2 | 2,162.06 | 1/2 | 1,920.13 | 1/2 | 1,678.19 | 1/2 | 1,436.26 |
| 3/4 | 3/4   | 3/4 | 3,366.70 | 3/4 | 3,124.76 | 3/4 | 2,882.83 | 3/4 | 2,640.89 | 3/4 | 2,398.96 | 3/4 | 2,157.02 | 3/4 | 1,915.09 | 3/4 | 1,673.15 | 3/4 | 1,431.22 |
| 9   | 9     | 9   | 3,361.65 | 9   | 3,119.72 | 9   | 2,877.79 | 9   | 2,635.85 | 9   | 2,393.92 | 9   | 2,151.98 | 9   | 1,910.05 | 9   | 1,668.11 | 9   | 1,426.18 |
| 1/4 | 1/4   | 1/4 | 3,356.61 | 1/4 | 3,114.68 | 1/4 | 2,872.75 | 1/4 | 2,630.81 | 1/4 | 2,388.88 | 1/4 | 2,146.94 | 1/4 | 1,905.01 | 1/4 | 1,663.07 | 1/4 | 1,421.14 |
| 1/2 | 1/2   | 1/2 | 3,351.57 | 1/2 | 3,109.64 | 1/2 | 2,867.71 | 1/2 | 2,625.77 | 1/2 | 2,383.84 | 1/2 | 2,141.90 | 1/2 | 1,899.97 | 1/2 | 1,658.03 | 1/2 | 1,416.10 |
| 3/4 | 3/4   | 3/4 | 3,346.53 | 3/4 | 3,104.60 | 3/4 | 2,862.67 | 3/4 | 2,620.73 | 3/4 | 2,378.80 | 3/4 | 2,136.86 | 3/4 | 1,894.93 | 3/4 | 1,652.99 | 3/4 | 1,411.06 |
| 10  | 10    | 10  | 3,341.49 | 10  | 3,099.56 | 10  | 2,857.62 | 10  | 2,615.69 | 10  | 2,373.76 | 10  | 2,131.82 | 10  | 1,889.89 | 10  | 1,647.95 | 10  | 1,406.02 |
| 1/4 | 1/4   | 1/4 | 3,336.45 | 1/4 | 3,094.52 | 1/4 | 2,852.58 | 1/4 | 2,610.65 | 1/4 | 2,368.72 | 1/4 | 2,126.78 | 1/4 | 1,884.85 | 1/4 | 1,642.91 | 1/4 | 1,400.98 |
| 1/2 | 1/2   | 1/2 | 3,331.41 | 1/2 | 3,089.48 | 1/2 | 2,847.54 | 1/2 | 2,605.61 | 1/2 | 2,363.68 | 1/2 | 2,121.74 | 1/2 | 1,879.81 | 1/2 | 1,637.87 | 1/2 | 1,395.94 |
| 3/4 | 3/4   | 3/4 | 3,326.37 | 3/4 | 3,084.44 | 3/4 | 2,842.50 | 3/4 | 2,600.57 | 3/4 | 2,358.64 | 3/4 | 2,116.70 | 3/4 | 1,874.77 | 3/4 | 1,632.83 | 3/4 | 1,390.90 |
| 11  | 11    | 11  | 3,321.33 | 11  | 3,079.40 | 11  | 2,837.46 | 11  | 2,595.53 | 11  | 2,353.59 | 11  | 2,111.66 | 11  | 1,869.73 | 11  | 1,627.79 | 11  | 1,385.86 |
| 1/4 | 1/4   | 1/4 | 3,316.29 | 1/4 | 3,074.36 | 1/4 | 2,832.42 | 1/4 | 2,590.49 | 1/4 | 2,348.55 | 1/4 | 2,106.62 | 1/4 | 1,864.69 | 1/4 | 1,622.75 | 1/4 | 1,380.82 |
| 1/2 | 1/2   | 1/2 | 3,311.25 | 1/2 | 3,069.32 | 1/2 | 2,827.38 | 1/2 | 2,585.45 | 1/2 | 2,343.51 | 1/2 | 2,101.58 | 1/2 | 1,859.65 | 1/2 | 1,617.71 | 1/2 | 1,375.78 |
| 3/4 | 3/4   | 3/4 | 3,306.21 | 3/4 | 3,064.28 | 3/4 | 2,822.34 | 3/4 | 2,580.41 | 3/4 | 2,338.47 | 3/4 | 2,096.54 | 3/4 | 1,854.61 | 3/4 | 1,612.67 | 3/4 | 1,370.74 |

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 TO TOP OF 2" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-00" FORWARD OF AFT BULKHEAD

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





# BARGE "E2MS 102"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-09 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   | 1,365.70 | 0   | 1,123.76 | 0   | 881.83 | 0   | 640.32 | 0   | 398.54 | 0   | 156.62 | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 1,360.66 | 1/4 | 1,118.72 | 1/4 | 876.79 | 1/4 | 635.29 | 1/4 | 393.50 | 1/4 | 151.58 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,355.62 | 1/2 | 1,113.68 | 1/2 | 871.75 | 1/2 | 630.27 | 1/2 | 388.46 | 1/2 | 146.54 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,350.58 | 3/4 | 1,108.64 | 3/4 | 866.71 | 3/4 | 625.24 | 3/4 | 383.42 | 3/4 | 141.50 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 1,345.53 | 1   | 1,103.60 | 1   | 861.67 | 1   | 620.22 | 1   | 378.38 | 1   | 136.46 | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 1,340.49 | 1/4 | 1,098.56 | 1/4 | 856.63 | 1/4 | 615.20 | 1/4 | 373.34 | 1/4 | 131.42 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,335.45 | 1/2 | 1,093.52 | 1/2 | 851.59 | 1/2 | 610.17 | 1/2 | 368.30 | 1/2 | 126.38 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,330.41 | 3/4 | 1,088.48 | 3/4 | 846.55 | 3/4 | 605.14 | 3/4 | 363.26 | 3/4 | 121.34 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 1,325.37 | 2   | 1,083.44 | 2   | 841.50 | 2   | 600.11 | 2   | 358.22 | 2   | 116.30 | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 1,320.33 | 1/4 | 1,078.40 | 1/4 | 836.46 | 1/4 | 595.09 | 1/4 | 353.18 | 1/4 | 111.26 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,315.29 | 1/2 | 1,073.36 | 1/2 | 831.42 | 1/2 | 590.05 | 1/2 | 348.14 | 1/2 | 106.22 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,310.25 | 3/4 | 1,068.32 | 3/4 | 826.38 | 3/4 | 585.02 | 3/4 | 343.10 | 3/4 | 101.18 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 1,305.21 | 3   | 1,063.28 | 3   | 821.34 | 3   | 579.98 | 3   | 338.06 | 3   | 96.14  | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 1,300.17 | 1/4 | 1,058.24 | 1/4 | 816.30 | 1/4 | 574.95 | 1/4 | 333.02 | 1/4 | 91.10  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,295.13 | 1/2 | 1,053.20 | 1/2 | 811.26 | 1/2 | 569.91 | 1/2 | 327.98 | 1/2 | 86.06  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,290.09 | 3/4 | 1,048.16 | 3/4 | 806.22 | 3/4 | 564.87 | 3/4 | 322.94 | 3/4 | 81.02  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 1,285.05 | 4   | 1,043.12 | 4   | 801.18 | 4   | 559.83 | 4   | 317.90 | 4   | 75.98  | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 1,280.01 | 1/4 | 1,038.08 | 1/4 | 796.14 | 1/4 | 554.79 | 1/4 | 312.86 | 1/4 | 70.94  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,274.97 | 1/2 | 1,033.04 | 1/2 | 791.11 | 1/2 | 549.75 | 1/2 | 307.82 | 1/2 | 65.92  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,269.93 | 3/4 | 1,028.00 | 3/4 | 786.07 | 3/4 | 544.71 | 3/4 | 302.78 | 3/4 | 60.89  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 1,264.89 | 5   | 1,022.96 | 5   | 781.04 | 5   | 539.67 | 5   | 297.74 | 5   | 55.86  | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 1,259.85 | 1/4 | 1,017.92 | 1/4 | 776.00 | 1/4 | 534.63 | 1/4 | 292.70 | 1/4 | 50.83  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,254.81 | 1/2 | 1,012.87 | 1/2 | 770.97 | 1/2 | 529.59 | 1/2 | 287.66 | 1/2 | 45.84  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,249.77 | 3/4 | 1,007.83 | 3/4 | 765.95 | 3/4 | 524.55 | 3/4 | 282.62 | 3/4 | 40.84  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 1,244.73 | 6   | 1,002.79 | 6   | 760.92 | 6   | 519.51 | 6   | 277.58 | 6   | 35.85  | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 1,239.69 | 1/4 | 997.75   | 1/4 | 755.89 | 1/4 | 514.47 | 1/4 | 272.54 | 1/4 | 30.85  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,234.65 | 1/2 | 992.71   | 1/2 | 750.86 | 1/2 | 509.43 | 1/2 | 267.50 | 1/2 | 26.65  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,229.61 | 3/4 | 987.67   | 3/4 | 745.84 | 3/4 | 504.39 | 3/4 | 262.46 | 3/4 | 22.45  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 1,224.57 | 7   | 982.63   | 7   | 740.82 | 7   | 499.35 | 7   | 257.42 | 7   | 18.26  | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 1,219.53 | 1/4 | 977.59   | 1/4 | 735.79 | 1/4 | 494.31 | 1/4 | 252.38 | 1/4 | 14.06  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,214.49 | 1/2 | 972.55   | 1/2 | 730.77 | 1/2 | 489.27 | 1/2 | 247.34 | 1/2 | 11.54  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,209.45 | 3/4 | 967.51   | 3/4 | 725.74 | 3/4 | 484.23 | 3/4 | 242.30 | 3/4 | 9.02   | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 1,204.41 | 8   | 962.47   | 8   | 720.72 | 8   | 479.19 | 8   | 237.26 | 8   | 6.50   | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 1,199.37 | 1/4 | 957.43   | 1/4 | 715.69 | 1/4 | 474.15 | 1/4 | 232.22 | 1/4 | 3.98   | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,194.33 | 1/2 | 952.39   | 1/2 | 710.67 | 1/2 | 469.11 | 1/2 | 227.18 | 1/2 | 3.14   | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,189.29 | 3/4 | 947.35   | 3/4 | 705.64 | 3/4 | 464.07 | 3/4 | 222.14 | 3/4 | 2.30   | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 1,184.25 | 9   | 942.31   | 9   | 700.62 | 9   | 459.03 | 9   | 217.10 | 9   | 1.46   | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 1,179.20 | 1/4 | 937.27   | 1/4 | 695.59 | 1/4 | 453.99 | 1/4 | 212.06 | 1/4 | 0.63   | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,174.16 | 1/2 | 932.23   | 1/2 | 690.57 | 1/2 | 448.95 | 1/2 | 207.02 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,169.12 | 3/4 | 927.19   | 3/4 | 685.54 | 3/4 | 443.91 | 3/4 | 201.98 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 1,164.08 | 10  | 922.15   | 10  | 680.52 | 10  | 438.86 | 10  | 196.94 | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 1,159.04 | 1/4 | 917.11   | 1/4 | 675.49 | 1/4 | 433.82 | 1/4 | 191.90 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,154.00 | 1/2 | 912.07   | 1/2 | 670.47 | 1/2 | 428.78 | 1/2 | 186.86 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,148.96 | 3/4 | 907.03   | 3/4 | 665.44 | 3/4 | 423.74 | 3/4 | 181.82 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 1,143.92 | 11  | 901.99   | 11  | 660.42 | 11  | 418.70 | 11  | 176.78 | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 1,138.88 | 1/4 | 896.95   | 1/4 | 655.39 | 1/4 | 413.66 | 1/4 | 171.74 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,133.84 | 1/2 | 891.91   | 1/2 | 650.37 | 1/2 | 408.62 | 1/2 | 166.70 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,128.80 | 3/4 | 886.87   | 3/4 | 645.34 | 3/4 | 403.58 | 3/4 | 161.66 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2018 CL  
CALCULATED : 08/01/2018 CL  
PRINTED: 08/01/2018 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2018

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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