



# BARGE "HBC 309"

## 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> |
| 1 PORT | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     | 00-1/4     | - 00-1/4     | 00-1/4     | - 00-1/4     | 00-3/8     | - 00-3/8     | 00-3/8     | - 00-3/8     |
| 1 STBD | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     | 00-1/4     | - 00-1/4     | 00-1/4     | - 00-1/4     | 00-3/8     | - 00-3/8     | 00-3/8     | - 00-3/8     |
| 2 PORT | 00-0/8     | - 00-0/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     | 00-1/4     | - 00-1/4     | 00-1/4     | - 00-1/4     | 00-3/8     | - 00-3/8     |
| 2 STBD | 00-0/8     | - 00-0/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     | 00-1/4     | - 00-1/4     | 00-1/4     | - 00-1/4     | 00-3/8     | - 00-3/8     |
| 3 PORT | - 00-1/2   | 00-1/2       | - 01-1/8   | 01-1/8       | - 01-5/8   | 01-5/8       | - 02-1/4   | 02-1/4       | - 02-3/4   | 02-3/4       | - 03-3/8   | 03-3/8       |
| 3 STBD | - 00-1/2   | 00-1/2       | - 01-1/8   | 01-1/8       | - 01-5/8   | 01-5/8       | - 02-1/4   | 02-1/4       | - 02-3/4   | 02-3/4       | - 03-3/8   | 03-3/8       |

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 253'-09"

August 8, 2013

PRECISION MEASUREMENT  
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# BARGE "HBC 309"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

| IN  | 0 FT.  | IN  | 1 FT.  | IN  | 2 FT.    | IN  | 3 FT.    | IN  | 4 FT.    | IN  | 5 FT.    | IN  | 6 FT.    | IN  | 7 FT.    | IN  | 8 FT.    | IN  | 9 FT.    |
|-----|--------|-----|--------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 0   | 22.96  | 0   | 362.66 | 0   | 725.22   | 0   | 1,087.54 | 0   | 1,449.88 | 0   | 1,812.45 | 0   | 2,175.03 | 0   | 2,537.61 | 0   | 2,900.08 | 0   | 3,262.53 |
| 1/4 | 27.36  | 1/4 | 370.21 | 1/4 | 732.77   | 1/4 | 1,095.08 | 1/4 | 1,457.43 | 1/4 | 1,820.01 | 1/4 | 2,182.58 | 1/4 | 2,545.16 | 1/4 | 2,907.64 | 1/4 | 3,270.08 |
| 1/2 | 31.77  | 1/2 | 377.76 | 1/2 | 740.33   | 1/2 | 1,102.63 | 1/2 | 1,464.98 | 1/2 | 1,827.56 | 1/2 | 2,190.14 | 1/2 | 2,552.72 | 1/2 | 2,915.19 | 1/2 | 3,277.63 |
| 3/4 | 36.17  | 3/4 | 385.32 | 3/4 | 747.88   | 3/4 | 1,110.17 | 3/4 | 1,472.54 | 3/4 | 1,835.11 | 3/4 | 2,197.69 | 3/4 | 2,560.27 | 3/4 | 2,922.74 | 3/4 | 3,285.18 |
| 1   | 40.58  | 1   | 392.87 | 1   | 755.43   | 1   | 1,117.71 | 1   | 1,480.09 | 1   | 1,842.67 | 1   | 2,205.24 | 1   | 2,567.82 | 1   | 2,930.29 | 1   | 3,292.73 |
| 1/4 | 46.24  | 1/4 | 400.42 | 1/4 | 762.99   | 1/4 | 1,125.25 | 1/4 | 1,487.64 | 1/4 | 1,850.22 | 1/4 | 2,212.80 | 1/4 | 2,575.38 | 1/4 | 2,937.84 | 1/4 | 3,300.28 |
| 1/2 | 51.91  | 1/2 | 407.98 | 1/2 | 770.54   | 1/2 | 1,132.79 | 1/2 | 1,495.20 | 1/2 | 1,857.77 | 1/2 | 2,220.35 | 1/2 | 2,582.93 | 1/2 | 2,945.39 | 1/2 | 3,307.83 |
| 3/4 | 57.57  | 3/4 | 415.53 | 3/4 | 778.09   | 3/4 | 1,140.33 | 3/4 | 1,502.75 | 3/4 | 1,865.33 | 3/4 | 2,227.91 | 3/4 | 2,590.48 | 3/4 | 2,952.94 | 3/4 | 3,315.38 |
| 2   | 63.24  | 2   | 423.08 | 2   | 785.65   | 2   | 1,147.87 | 2   | 1,510.30 | 2   | 1,872.88 | 2   | 2,235.46 | 2   | 2,598.04 | 2   | 2,960.49 | 2   | 3,322.94 |
| 1/4 | 70.16  | 1/4 | 430.64 | 1/4 | 793.20   | 1/4 | 1,155.42 | 1/4 | 1,517.86 | 1/4 | 1,880.44 | 1/4 | 2,243.01 | 1/4 | 2,605.59 | 1/4 | 2,968.04 | 1/4 | 3,330.49 |
| 1/2 | 77.08  | 1/2 | 438.19 | 1/2 | 800.75   | 1/2 | 1,162.96 | 1/2 | 1,525.41 | 1/2 | 1,887.99 | 1/2 | 2,250.57 | 1/2 | 2,613.14 | 1/2 | 2,975.59 | 1/2 | 3,338.04 |
| 3/4 | 84.00  | 3/4 | 445.74 | 3/4 | 808.31   | 3/4 | 1,170.50 | 3/4 | 1,532.97 | 3/4 | 1,895.54 | 3/4 | 2,258.12 | 3/4 | 2,620.70 | 3/4 | 2,983.14 | 3/4 | 3,345.59 |
| 3   | 90.92  | 3   | 453.30 | 3   | 815.86   | 3   | 1,178.04 | 3   | 1,540.52 | 3   | 1,903.10 | 3   | 2,265.67 | 3   | 2,628.25 | 3   | 2,990.70 | 3   | 3,353.14 |
| 1/4 | 98.44  | 1/4 | 460.85 | 1/4 | 823.41   | 1/4 | 1,185.58 | 1/4 | 1,548.07 | 1/4 | 1,910.65 | 1/4 | 2,273.23 | 1/4 | 2,635.80 | 1/4 | 2,998.25 | 1/4 | 3,360.69 |
| 1/2 | 105.96 | 1/2 | 468.40 | 1/2 | 830.97   | 1/2 | 1,193.12 | 1/2 | 1,555.63 | 1/2 | 1,918.20 | 1/2 | 2,280.78 | 1/2 | 2,643.35 | 1/2 | 3,005.80 | 1/2 | 3,368.24 |
| 3/4 | 113.48 | 3/4 | 475.96 | 3/4 | 838.52   | 3/4 | 1,200.66 | 3/4 | 1,563.18 | 3/4 | 1,925.76 | 3/4 | 2,288.34 | 3/4 | 2,650.90 | 3/4 | 3,013.35 | 3/4 | 3,375.79 |
| 4   | 120.99 | 4   | 483.51 | 4   | 846.07   | 4   | 1,208.21 | 4   | 1,570.73 | 4   | 1,933.31 | 4   | 2,295.89 | 4   | 2,658.46 | 4   | 3,020.90 | 4   | 3,383.34 |
| 1/4 | 128.54 | 1/4 | 491.06 | 1/4 | 853.63   | 1/4 | 1,215.75 | 1/4 | 1,578.29 | 1/4 | 1,940.87 | 1/4 | 2,303.44 | 1/4 | 2,666.01 | 1/4 | 3,028.45 | 1/4 | 3,390.89 |
| 1/2 | 136.08 | 1/2 | 498.62 | 1/2 | 861.18   | 1/2 | 1,223.29 | 1/2 | 1,585.84 | 1/2 | 1,948.42 | 1/2 | 2,311.00 | 1/2 | 2,673.56 | 1/2 | 3,036.00 | 1/2 | 3,398.44 |
| 3/4 | 143.62 | 3/4 | 506.17 | 3/4 | 868.73   | 3/4 | 1,230.83 | 3/4 | 1,593.40 | 3/4 | 1,955.97 | 3/4 | 2,318.55 | 3/4 | 2,681.11 | 3/4 | 3,043.55 | 3/4 | 3,405.99 |
| 5   | 151.17 | 5   | 513.73 | 5   | 876.29   | 5   | 1,238.37 | 5   | 1,600.95 | 5   | 1,963.53 | 5   | 2,326.10 | 5   | 2,688.66 | 5   | 3,051.10 | 5   | 3,413.55 |
| 1/4 | 158.72 | 1/4 | 521.28 | 1/4 | 883.84   | 1/4 | 1,245.93 | 1/4 | 1,608.50 | 1/4 | 1,971.08 | 1/4 | 2,333.66 | 1/4 | 2,696.21 | 1/4 | 3,058.65 | 1/4 | 3,421.10 |
| 1/2 | 166.27 | 1/2 | 528.83 | 1/2 | 891.40   | 1/2 | 1,253.48 | 1/2 | 1,616.06 | 1/2 | 1,978.63 | 1/2 | 2,341.21 | 1/2 | 2,703.76 | 1/2 | 3,066.20 | 1/2 | 3,428.65 |
| 3/4 | 173.82 | 3/4 | 536.39 | 3/4 | 898.95   | 3/4 | 1,261.03 | 3/4 | 1,623.61 | 3/4 | 1,986.19 | 3/4 | 2,348.77 | 3/4 | 2,711.31 | 3/4 | 3,073.76 | 3/4 | 3,436.20 |
| 6   | 181.38 | 6   | 543.94 | 6   | 906.50   | 6   | 1,268.59 | 6   | 1,631.16 | 6   | 1,993.74 | 6   | 2,356.32 | 6   | 2,718.86 | 6   | 3,081.31 | 6   | 3,443.75 |
| 1/4 | 188.93 | 1/4 | 551.49 | 1/4 | 914.06   | 1/4 | 1,276.14 | 1/4 | 1,638.72 | 1/4 | 2,001.30 | 1/4 | 2,363.87 | 1/4 | 2,726.41 | 1/4 | 3,088.86 | 1/4 | 3,451.30 |
| 1/2 | 196.48 | 1/2 | 559.05 | 1/2 | 921.61   | 1/2 | 1,283.69 | 1/2 | 1,646.27 | 1/2 | 2,008.85 | 1/2 | 2,371.43 | 1/2 | 2,733.96 | 1/2 | 3,096.41 | 1/2 | 3,458.85 |
| 3/4 | 204.04 | 3/4 | 566.60 | 3/4 | 929.16   | 3/4 | 1,291.25 | 3/4 | 1,653.82 | 3/4 | 2,016.40 | 3/4 | 2,378.98 | 3/4 | 2,741.52 | 3/4 | 3,103.96 | 3/4 | 3,466.40 |
| 7   | 211.59 | 7   | 574.15 | 7   | 936.72   | 7   | 1,298.80 | 7   | 1,661.38 | 7   | 2,023.96 | 7   | 2,386.53 | 7   | 2,749.07 | 7   | 3,111.51 | 7   | 3,473.95 |
| 1/4 | 219.14 | 1/4 | 581.71 | 1/4 | 944.26   | 1/4 | 1,306.35 | 1/4 | 1,668.93 | 1/4 | 2,031.51 | 1/4 | 2,394.09 | 1/4 | 2,756.62 | 1/4 | 3,119.06 | 1/4 | 3,481.50 |
| 1/2 | 226.70 | 1/2 | 589.26 | 1/2 | 951.80   | 1/2 | 1,313.91 | 1/2 | 1,676.49 | 1/2 | 2,039.06 | 1/2 | 2,401.64 | 1/2 | 2,764.17 | 1/2 | 3,126.61 | 1/2 | 3,489.05 |
| 3/4 | 234.25 | 3/4 | 596.81 | 3/4 | 959.34   | 3/4 | 1,321.46 | 3/4 | 1,684.04 | 3/4 | 2,046.62 | 3/4 | 2,409.19 | 3/4 | 2,771.72 | 3/4 | 3,134.16 | 3/4 | 3,496.61 |
| 8   | 241.80 | 8   | 604.37 | 8   | 966.88   | 8   | 1,329.02 | 8   | 1,691.59 | 8   | 2,054.17 | 8   | 2,416.75 | 8   | 2,779.27 | 8   | 3,141.71 | 8   | 3,504.16 |
| 1/4 | 249.36 | 1/4 | 611.92 | 1/4 | 974.42   | 1/4 | 1,336.57 | 1/4 | 1,699.15 | 1/4 | 2,061.72 | 1/4 | 2,424.30 | 1/4 | 2,786.82 | 1/4 | 3,149.26 | 1/4 | 3,511.71 |
| 1/2 | 256.91 | 1/2 | 619.47 | 1/2 | 981.96   | 1/2 | 1,344.12 | 1/2 | 1,706.70 | 1/2 | 2,069.28 | 1/2 | 2,431.86 | 1/2 | 2,794.37 | 1/2 | 3,156.82 | 1/2 | 3,519.26 |
| 3/4 | 264.46 | 3/4 | 627.03 | 3/4 | 989.51   | 3/4 | 1,351.68 | 3/4 | 1,714.25 | 3/4 | 2,076.83 | 3/4 | 2,439.41 | 3/4 | 2,801.92 | 3/4 | 3,164.37 | 3/4 | 3,526.81 |
| 9   | 272.02 | 9   | 634.58 | 9   | 997.05   | 9   | 1,359.23 | 9   | 1,721.81 | 9   | 2,084.39 | 9   | 2,446.96 | 9   | 2,809.47 | 9   | 3,171.92 | 9   | 3,534.36 |
| 1/4 | 279.57 | 1/4 | 642.13 | 1/4 | 1,004.59 | 1/4 | 1,366.78 | 1/4 | 1,729.36 | 1/4 | 2,091.94 | 1/4 | 2,454.52 | 1/4 | 2,817.02 | 1/4 | 3,179.47 | 1/4 | 3,541.91 |
| 1/2 | 287.12 | 1/2 | 649.69 | 1/2 | 1,012.13 | 1/2 | 1,374.34 | 1/2 | 1,736.92 | 1/2 | 2,099.49 | 1/2 | 2,462.07 | 1/2 | 2,824.58 | 1/2 | 3,187.02 | 1/2 | 3,549.46 |
| 3/4 | 294.68 | 3/4 | 657.24 | 3/4 | 1,019.67 | 3/4 | 1,381.89 | 3/4 | 1,744.47 | 3/4 | 2,107.05 | 3/4 | 2,469.62 | 3/4 | 2,832.13 | 3/4 | 3,194.57 | 3/4 | 3,557.01 |
| 10  | 302.23 | 10  | 664.79 | 10  | 1,027.21 | 10  | 1,389.45 | 10  | 1,752.02 | 10  | 2,114.60 | 10  | 2,477.18 | 10  | 2,839.68 | 10  | 3,202.12 | 10  | 3,564.56 |
| 1/4 | 309.78 | 1/4 | 672.35 | 1/4 | 1,034.75 | 1/4 | 1,397.00 | 1/4 | 1,759.58 | 1/4 | 2,122.15 | 1/4 | 2,484.73 | 1/4 | 2,847.23 | 1/4 | 3,209.67 | 1/4 | 3,572.11 |
| 1/2 | 317.34 | 1/2 | 679.90 | 1/2 | 1,042.30 | 1/2 | 1,404.55 | 1/2 | 1,767.13 | 1/2 | 2,129.71 | 1/2 | 2,492.29 | 1/2 | 2,854.78 | 1/2 | 3,217.22 | 1/2 | 3,579.67 |
| 3/4 | 324.89 | 3/4 | 687.45 | 3/4 | 1,049.84 | 3/4 | 1,412.11 | 3/4 | 1,774.68 | 3/4 | 2,137.26 | 3/4 | 2,499.84 | 3/4 | 2,862.33 | 3/4 | 3,224.77 | 3/4 | 3,587.22 |
| 11  | 332.44 | 11  | 695.01 | 11  | 1,057.38 | 11  | 1,419.66 | 11  | 1,782.24 | 11  | 2,144.82 | 11  | 2,507.39 | 11  | 2,869.88 | 11  | 3,232.32 | 11  | 3,594.77 |
| 1/4 | 340.00 | 1/4 | 702.56 | 1/4 | 1,064.92 | 1/4 | 1,427.21 | 1/4 | 1,789.79 | 1/4 | 2,152.37 | 1/4 | 2,514.95 | 1/4 | 2,877.43 | 1/4 | 3,239.88 | 1/4 | 3,602.32 |
| 1/2 | 347.55 | 1/2 | 710.11 | 1/2 | 1,072.46 | 1/2 | 1,434.77 | 1/2 | 1,797.35 | 1/2 | 2,159.92 | 1/2 | 2,522.50 | 1/2 | 2,884.98 | 1/2 | 3,247.43 | 1/2 | 3,609.87 |
| 3/4 | 355.10 | 3/4 | 717.67 | 3/4 | 1,080.00 | 3/4 | 1,442.32 | 3/4 | 1,804.90 | 3/4 | 2,167.48 | 3/4 | 2,530.05 | 3/4 | 2,892.53 | 3/4 | 3,254.98 | 3/4 | 3,617.42 |

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" HERMETIC CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
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# BARGE "HBC 309"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/2"

| 10 FT. |          | 11 FT. |          | 12 FT. |          | 13 FT. |          | 14 FT. |          | 15 FT. |  | 16 FT. |  | 17 FT. |  | 18 FT. |  | 19 FT. |  |     |  |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|--|--------|--|--------|--|--------|--|--------|--|-----|--|
| IN     |          | IN     |          | IN     |          | IN     |          | IN     |          | IN     |  | IN     |  | IN     |  | IN     |  | IN     |  | IN  |  |
| 0      | 3,624.97 | 0      | 3,987.41 | 0      | 4,349.86 | 0      | 4,707.47 | 0      | 5,046.87 | 0      |  | 0      |  | 0      |  | 0      |  | 0      |  | 0   |  |
| 1/4    | 3,632.52 | 1/4    | 3,994.97 | 1/4    | 4,357.41 | 1/4    | 4,714.74 | 1/4    | 5,053.68 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4 |  |
| 1/2    | 3,640.07 | 1/2    | 4,002.52 | 1/2    | 4,364.96 | 1/2    | 4,722.01 | 1/2    | 5,060.49 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2 |  |
| 3/4    | 3,647.62 | 3/4    | 4,010.07 | 3/4    | 4,372.51 | 3/4    | 4,729.27 | 3/4    | 5,067.31 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4 |  |
| 1      | 3,655.17 | 1      | 4,017.62 | 1      | 4,380.06 | 1      | 4,736.54 | 1      | 5,074.12 | 1      |  | 1      |  | 1      |  | 1      |  | 1      |  | 1   |  |
| 1/4    | 3,662.73 | 1/4    | 4,025.17 | 1/4    | 4,387.61 | 1/4    | 4,743.75 | 1/4    | 5,080.90 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4 |  |
| 1/2    | 3,670.28 | 1/2    | 4,032.72 | 1/2    | 4,395.16 | 1/2    | 4,750.96 | 1/2    | 5,087.68 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2 |  |
| 3/4    | 3,677.83 | 3/4    | 4,040.27 | 3/4    | 4,402.71 | 3/4    | 4,758.16 | 3/4    | 5,094.46 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4 |  |
| 2      | 3,685.38 | 2      | 4,047.82 | 2      | 4,410.26 | 2      | 4,765.37 | 2      | 5,101.24 | 2      |  | 2      |  | 2      |  | 2      |  | 2      |  | 2   |  |
| 1/4    | 3,692.93 | 1/4    | 4,055.37 | 1/4    | 4,417.82 | 1/4    | 4,772.55 | 1/4    | 5,107.99 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4 |  |
| 1/2    | 3,700.48 | 1/2    | 4,062.92 | 1/2    | 4,425.37 | 1/2    | 4,779.73 | 1/2    | 5,114.74 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2 |  |
| 3/4    | 3,708.03 | 3/4    | 4,070.47 | 3/4    | 4,432.92 | 3/4    | 4,786.91 | 3/4    | 5,121.49 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4 |  |
| 3      | 3,715.58 | 3      | 4,078.03 | 3      | 4,440.47 | 3      | 4,794.09 | 3      | 5,128.24 | 3      |  | 3      |  | 3      |  | 3      |  | 3      |  | 3   |  |
| 1/4    | 3,723.13 | 1/4    | 4,085.58 | 1/4    | 4,448.01 | 1/4    | 4,801.24 | 1/4    | 5,134.95 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4 |  |
| 1/2    | 3,730.68 | 1/2    | 4,093.13 | 1/2    | 4,455.54 | 1/2    | 4,808.38 | 1/2    | 5,141.66 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2 |  |
| 3/4    | 3,738.23 | 3/4    | 4,100.68 | 3/4    | 4,463.08 | 3/4    | 4,815.53 | 3/4    | 5,148.37 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4 |  |
| 4      | 3,745.79 | 4      | 4,108.23 | 4      | 4,470.62 | 4      | 4,822.68 | 4      | 5,155.08 | 4      |  | 4      |  | 4      |  | 4      |  | 4      |  | 4   |  |
| 1/4    | 3,753.34 | 1/4    | 4,115.78 | 1/4    | 4,478.13 | 1/4    | 4,829.80 | 1/4    | 5,161.73 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4 |  |
| 1/2    | 3,760.89 | 1/2    | 4,123.33 | 1/2    | 4,485.63 | 1/2    | 4,836.92 | 1/2    | 5,168.39 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2 |  |
| 3/4    | 3,768.44 | 3/4    | 4,130.88 | 3/4    | 4,493.14 | 3/4    | 4,844.04 | 3/4    | 5,175.04 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4 |  |
| 5      | 3,775.99 | 5      | 4,138.43 | 5      | 4,500.64 | 5      | 4,851.16 | 5      | 5,181.70 | 5      |  | 5      |  | 5      |  | 5      |  | 5      |  | 5   |  |
| 1/4    | 3,783.54 | 1/4    | 4,145.98 | 1/4    | 4,508.12 | 1/4    | 4,858.24 | 1/4    | 5,187.73 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4 |  |
| 1/2    | 3,791.09 | 1/2    | 4,153.53 | 1/2    | 4,515.60 | 1/2    | 4,865.33 | 1/2    | 5,193.76 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2 |  |
| 3/4    | 3,798.64 | 3/4    | 4,161.08 | 3/4    | 4,523.07 | 3/4    | 4,872.42 | 3/4    | 5,199.79 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4 |  |
| 6      | 3,806.19 | 6      | 4,168.64 | 6      | 4,530.55 | 6      | 4,879.51 | 6      | 5,205.82 | 6      |  | 6      |  | 6      |  | 6      |  | 6      |  | 6   |  |
| 1/4    | 3,813.74 | 1/4    | 4,176.19 | 1/4    | 4,538.00 | 1/4    | 4,886.57 | 1/4    | 5,211.38 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4 |  |
| 1/2    | 3,821.29 | 1/2    | 4,183.74 | 1/2    | 4,545.44 | 1/2    | 4,893.63 | 1/2    | 5,216.94 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2 |  |
| 3/4    | 3,828.85 | 3/4    | 4,191.29 | 3/4    | 4,552.89 | 3/4    | 4,900.69 | 3/4    | 5,222.51 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4 |  |
| 7      | 3,836.40 | 7      | 4,198.84 | 7      | 4,560.34 | 7      | 4,907.75 | 7      | 5,228.07 | 7      |  | 7      |  | 7      |  | 7      |  | 7      |  | 7   |  |
| 1/4    | 3,843.95 | 1/4    | 4,206.39 | 1/4    | 4,567.75 | 1/4    | 4,914.77 | 1/4    | 5,232.40 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4 |  |
| 1/2    | 3,851.50 | 1/2    | 4,213.94 | 1/2    | 4,575.17 | 1/2    | 4,921.80 | 1/2    | 5,236.74 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2 |  |
| 3/4    | 3,859.05 | 3/4    | 4,221.49 | 3/4    | 4,582.58 | 3/4    | 4,928.83 | 3/4    | 5,241.07 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4 |  |
| 8      | 3,866.60 | 8      | 4,229.04 | 8      | 4,590.00 | 8      | 4,935.86 | 8      | 5,245.40 | 8      |  | 8      |  | 8      |  | 8      |  | 8      |  | 8   |  |
| 1/4    | 3,874.15 | 1/4    | 4,236.59 | 1/4    | 4,597.39 | 1/4    | 4,942.86 | 1/4    |          | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4 |  |
| 1/2    | 3,881.70 | 1/2    | 4,244.14 | 1/2    | 4,604.77 | 1/2    | 4,949.86 | 1/2    |          | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2 |  |
| 3/4    | 3,889.25 | 3/4    | 4,251.70 | 3/4    | 4,612.16 | 3/4    | 4,956.86 | 3/4    |          | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4 |  |
| 9      | 3,896.80 | 9      | 4,259.25 | 9      | 4,619.55 | 9      | 4,963.86 | 9      |          | 9      |  | 9      |  | 9      |  | 9      |  | 9      |  | 9   |  |
| 1/4    | 3,904.35 | 1/4    | 4,266.80 | 1/4    | 4,626.90 | 1/4    | 4,970.83 | 1/4    |          | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4 |  |
| 1/2    | 3,911.91 | 1/2    | 4,274.35 | 1/2    | 4,634.26 | 1/2    | 4,977.80 | 1/2    |          | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2 |  |
| 3/4    | 3,919.46 | 3/4    | 4,281.90 | 3/4    | 4,641.62 | 3/4    | 4,984.77 | 3/4    |          | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4 |  |
| 10     | 3,927.01 | 10     | 4,289.45 | 10     | 4,648.98 | 10     | 4,991.75 | 10     |          | 10     |  | 10     |  | 10     |  | 10     |  | 10     |  | 10  |  |
| 1/4    | 3,934.56 | 1/4    | 4,297.00 | 1/4    | 4,656.30 | 1/4    | 4,998.69 | 1/4    |          | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4 |  |
| 1/2    | 3,942.11 | 1/2    | 4,304.55 | 1/2    | 4,663.63 | 1/2    | 5,005.63 | 1/2    |          | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2 |  |
| 3/4    | 3,949.66 | 3/4    | 4,312.10 | 3/4    | 4,670.96 | 3/4    | 5,012.57 | 3/4    |          | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4 |  |
| 11     | 3,957.21 | 11     | 4,319.65 | 11     | 4,678.28 | 11     | 5,019.51 | 11     |          | 11     |  | 11     |  | 11     |  | 11     |  | 11     |  | 11  |  |
| 1/4    | 3,964.76 | 1/4    | 4,327.20 | 1/4    | 4,685.58 | 1/4    | 5,026.35 | 1/4    |          | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4 |  |
| 1/2    | 3,972.31 | 1/2    | 4,334.76 | 1/2    | 4,692.88 | 1/2    | 5,033.19 | 1/2    |          | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2 |  |
| 3/4    | 3,979.86 | 3/4    | 4,342.31 | 3/4    | 4,700.17 | 3/4    | 5,040.03 | 3/4    |          | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4 |  |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/08/2013 CL  
CALCULATED: 08/08/2013 CL  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
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# BARGE "HBC 309"

## 1 STBD 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   | 22.96  | 0   | 362.61 | 0   | 725.13   | 0   | 1,086.47 | 0   | 1,447.80 | 0   | 1,810.34 | 0   | 2,172.87 | 0   | 2,535.41 | 0   | 2,897.84 | 0   | 3,260.24 |
| 1/4 | 27.36  | 1/4 | 370.17 | 1/4 | 732.69   | 1/4 | 1,093.97 | 1/4 | 1,455.36 | 1/4 | 1,817.89 | 1/4 | 2,180.43 | 1/4 | 2,542.96 | 1/4 | 2,905.39 | 1/4 | 3,267.79 |
| 1/2 | 31.77  | 1/2 | 377.72 | 1/2 | 740.24   | 1/2 | 1,101.47 | 1/2 | 1,462.91 | 1/2 | 1,825.44 | 1/2 | 2,187.98 | 1/2 | 2,550.51 | 1/2 | 2,912.94 | 1/2 | 3,275.34 |
| 3/4 | 36.17  | 3/4 | 385.27 | 3/4 | 747.79   | 3/4 | 1,108.97 | 3/4 | 1,470.46 | 3/4 | 1,833.00 | 3/4 | 2,195.53 | 3/4 | 2,558.07 | 3/4 | 2,920.49 | 3/4 | 3,282.89 |
| 1   | 40.57  | 1   | 392.82 | 1   | 755.34   | 1   | 1,116.47 | 1   | 1,478.02 | 1   | 1,840.55 | 1   | 2,203.08 | 1   | 2,565.62 | 1   | 2,928.04 | 1   | 3,290.44 |
| 1/4 | 46.24  | 1/4 | 400.38 | 1/4 | 762.90   | 1/4 | 1,123.97 | 1/4 | 1,485.57 | 1/4 | 1,848.10 | 1/4 | 2,210.64 | 1/4 | 2,573.17 | 1/4 | 2,935.59 | 1/4 | 3,297.99 |
| 1/2 | 51.90  | 1/2 | 407.93 | 1/2 | 770.45   | 1/2 | 1,131.47 | 1/2 | 1,493.12 | 1/2 | 1,855.66 | 1/2 | 2,218.19 | 1/2 | 2,580.72 | 1/2 | 2,943.14 | 1/2 | 3,305.54 |
| 3/4 | 57.57  | 3/4 | 415.48 | 3/4 | 778.00   | 3/4 | 1,138.97 | 3/4 | 1,500.67 | 3/4 | 1,863.21 | 3/4 | 2,225.74 | 3/4 | 2,588.28 | 3/4 | 2,950.69 | 3/4 | 3,313.09 |
| 2   | 63.23  | 2   | 423.03 | 2   | 785.55   | 2   | 1,146.47 | 2   | 1,508.23 | 2   | 1,870.76 | 2   | 2,233.30 | 2   | 2,595.83 | 2   | 2,958.24 | 2   | 3,320.64 |
| 1/4 | 70.15  | 1/4 | 430.59 | 1/4 | 793.11   | 1/4 | 1,153.97 | 1/4 | 1,515.78 | 1/4 | 1,878.31 | 1/4 | 2,240.85 | 1/4 | 2,603.38 | 1/4 | 2,965.79 | 1/4 | 3,328.19 |
| 1/2 | 77.07  | 1/2 | 438.14 | 1/2 | 800.66   | 1/2 | 1,161.48 | 1/2 | 1,523.33 | 1/2 | 1,885.87 | 1/2 | 2,248.40 | 1/2 | 2,610.94 | 1/2 | 2,973.34 | 1/2 | 3,335.74 |
| 3/4 | 83.99  | 3/4 | 445.69 | 3/4 | 808.21   | 3/4 | 1,168.98 | 3/4 | 1,530.89 | 3/4 | 1,893.42 | 3/4 | 2,255.95 | 3/4 | 2,618.49 | 3/4 | 2,980.89 | 3/4 | 3,343.29 |
| 3   | 90.91  | 3   | 453.24 | 3   | 815.76   | 3   | 1,176.48 | 3   | 1,538.44 | 3   | 1,900.97 | 3   | 2,263.51 | 3   | 2,626.04 | 3   | 2,988.44 | 3   | 3,350.84 |
| 1/4 | 98.43  | 1/4 | 460.80 | 1/4 | 823.32   | 1/4 | 1,183.98 | 1/4 | 1,545.99 | 1/4 | 1,908.53 | 1/4 | 2,271.06 | 1/4 | 2,633.59 | 1/4 | 2,995.99 | 1/4 | 3,358.39 |
| 1/2 | 105.95 | 1/2 | 468.35 | 1/2 | 830.87   | 1/2 | 1,191.48 | 1/2 | 1,553.54 | 1/2 | 1,916.08 | 1/2 | 2,278.61 | 1/2 | 2,641.14 | 1/2 | 3,003.54 | 1/2 | 3,365.94 |
| 3/4 | 113.46 | 3/4 | 475.90 | 3/4 | 838.42   | 3/4 | 1,198.98 | 3/4 | 1,561.10 | 3/4 | 1,923.63 | 3/4 | 2,286.17 | 3/4 | 2,648.69 | 3/4 | 3,011.09 | 3/4 | 3,373.49 |
| 4   | 120.98 | 4   | 483.45 | 4   | 845.97   | 4   | 1,206.48 | 4   | 1,568.65 | 4   | 1,931.18 | 4   | 2,293.72 | 4   | 2,656.24 | 4   | 3,018.64 | 4   | 3,381.04 |
| 1/4 | 128.52 | 1/4 | 491.01 | 1/4 | 853.53   | 1/4 | 1,213.98 | 1/4 | 1,576.20 | 1/4 | 1,938.74 | 1/4 | 2,301.27 | 1/4 | 2,663.79 | 1/4 | 3,026.19 | 1/4 | 3,388.59 |
| 1/2 | 136.06 | 1/2 | 498.56 | 1/2 | 861.08   | 1/2 | 1,221.48 | 1/2 | 1,583.76 | 1/2 | 1,946.29 | 1/2 | 2,308.82 | 1/2 | 2,671.34 | 1/2 | 3,033.74 | 1/2 | 3,396.14 |
| 3/4 | 143.61 | 3/4 | 506.11 | 3/4 | 868.63   | 3/4 | 1,228.98 | 3/4 | 1,591.31 | 3/4 | 1,953.84 | 3/4 | 2,316.38 | 3/4 | 2,678.89 | 3/4 | 3,041.29 | 3/4 | 3,403.69 |
| 5   | 151.15 | 5   | 513.66 | 5   | 876.18   | 5   | 1,236.49 | 5   | 1,598.86 | 5   | 1,961.40 | 5   | 2,323.93 | 5   | 2,686.44 | 5   | 3,048.84 | 5   | 3,411.24 |
| 1/4 | 158.70 | 1/4 | 521.22 | 1/4 | 883.74   | 1/4 | 1,244.00 | 1/4 | 1,606.41 | 1/4 | 1,968.95 | 1/4 | 2,331.48 | 1/4 | 2,693.99 | 1/4 | 3,056.39 | 1/4 | 3,418.79 |
| 1/2 | 166.25 | 1/2 | 528.77 | 1/2 | 891.29   | 1/2 | 1,251.51 | 1/2 | 1,613.97 | 1/2 | 1,976.50 | 1/2 | 2,339.04 | 1/2 | 2,701.54 | 1/2 | 3,063.94 | 1/2 | 3,426.34 |
| 3/4 | 173.80 | 3/4 | 536.32 | 3/4 | 898.84   | 3/4 | 1,259.02 | 3/4 | 1,621.52 | 3/4 | 1,984.05 | 3/4 | 2,346.59 | 3/4 | 2,709.09 | 3/4 | 3,071.49 | 3/4 | 3,433.89 |
| 6   | 181.35 | 6   | 543.87 | 6   | 906.39   | 6   | 1,266.54 | 6   | 1,629.07 | 6   | 1,991.61 | 6   | 2,354.14 | 6   | 2,716.64 | 6   | 3,079.04 | 6   | 3,441.44 |
| 1/4 | 188.91 | 1/4 | 551.43 | 1/4 | 913.91   | 1/4 | 1,274.09 | 1/4 | 1,636.62 | 1/4 | 1,999.16 | 1/4 | 2,361.69 | 1/4 | 2,724.19 | 1/4 | 3,086.59 | 1/4 | 3,448.99 |
| 1/2 | 196.46 | 1/2 | 558.98 | 1/2 | 921.42   | 1/2 | 1,281.64 | 1/2 | 1,644.18 | 1/2 | 2,006.71 | 1/2 | 2,369.25 | 1/2 | 2,731.74 | 1/2 | 3,094.14 | 1/2 | 3,456.54 |
| 3/4 | 204.01 | 3/4 | 566.53 | 3/4 | 928.93   | 3/4 | 1,289.20 | 3/4 | 1,651.73 | 3/4 | 2,014.26 | 3/4 | 2,376.80 | 3/4 | 2,739.29 | 3/4 | 3,101.69 | 3/4 | 3,464.09 |
| 7   | 211.56 | 7   | 574.08 | 7   | 936.45   | 7   | 1,296.75 | 7   | 1,659.28 | 7   | 2,021.82 | 7   | 2,384.35 | 7   | 2,746.84 | 7   | 3,109.24 | 7   | 3,471.64 |
| 1/4 | 219.12 | 1/4 | 581.64 | 1/4 | 943.95   | 1/4 | 1,304.30 | 1/4 | 1,666.84 | 1/4 | 2,029.37 | 1/4 | 2,391.90 | 1/4 | 2,754.39 | 1/4 | 3,116.79 | 1/4 | 3,479.19 |
| 1/2 | 226.67 | 1/2 | 589.19 | 1/2 | 951.45   | 1/2 | 1,311.85 | 1/2 | 1,674.39 | 1/2 | 2,036.92 | 1/2 | 2,399.46 | 1/2 | 2,761.94 | 1/2 | 3,124.34 | 1/2 | 3,486.74 |
| 3/4 | 234.22 | 3/4 | 596.74 | 3/4 | 958.95   | 3/4 | 1,319.41 | 3/4 | 1,681.94 | 3/4 | 2,044.48 | 3/4 | 2,407.01 | 3/4 | 2,769.49 | 3/4 | 3,131.89 | 3/4 | 3,494.29 |
| 8   | 241.77 | 8   | 604.29 | 8   | 966.45   | 8   | 1,326.96 | 8   | 1,689.49 | 8   | 2,052.03 | 8   | 2,414.56 | 8   | 2,777.04 | 8   | 3,139.44 | 8   | 3,501.84 |
| 1/4 | 249.33 | 1/4 | 611.85 | 1/4 | 973.95   | 1/4 | 1,334.51 | 1/4 | 1,697.05 | 1/4 | 2,059.58 | 1/4 | 2,422.12 | 1/4 | 2,784.59 | 1/4 | 3,146.99 | 1/4 | 3,509.39 |
| 1/2 | 256.88 | 1/2 | 619.40 | 1/2 | 981.45   | 1/2 | 1,342.07 | 1/2 | 1,704.60 | 1/2 | 2,067.13 | 1/2 | 2,429.67 | 1/2 | 2,792.14 | 1/2 | 3,154.54 | 1/2 | 3,516.94 |
| 3/4 | 264.43 | 3/4 | 626.95 | 3/4 | 988.95   | 3/4 | 1,349.62 | 3/4 | 1,712.15 | 3/4 | 2,074.69 | 3/4 | 2,437.22 | 3/4 | 2,799.69 | 3/4 | 3,162.09 | 3/4 | 3,524.49 |
| 9   | 271.98 | 9   | 634.50 | 9   | 996.45   | 9   | 1,357.17 | 9   | 1,719.71 | 9   | 2,082.24 | 9   | 2,444.77 | 9   | 2,807.24 | 9   | 3,169.64 | 9   | 3,532.04 |
| 1/4 | 279.54 | 1/4 | 642.06 | 1/4 | 1,003.95 | 1/4 | 1,364.72 | 1/4 | 1,727.26 | 1/4 | 2,089.79 | 1/4 | 2,452.33 | 1/4 | 2,814.79 | 1/4 | 3,177.19 | 1/4 | 3,539.59 |
| 1/2 | 287.09 | 1/2 | 649.61 | 1/2 | 1,011.46 | 1/2 | 1,372.28 | 1/2 | 1,734.81 | 1/2 | 2,097.35 | 1/2 | 2,459.88 | 1/2 | 2,822.34 | 1/2 | 3,184.74 | 1/2 | 3,547.14 |
| 3/4 | 294.64 | 3/4 | 657.16 | 3/4 | 1,018.96 | 3/4 | 1,379.83 | 3/4 | 1,742.36 | 3/4 | 2,104.90 | 3/4 | 2,467.43 | 3/4 | 2,829.89 | 3/4 | 3,192.29 | 3/4 | 3,554.69 |
| 10  | 302.19 | 10  | 664.71 | 10  | 1,026.46 | 10  | 1,387.38 | 10  | 1,749.92 | 10  | 2,112.45 | 10  | 2,474.99 | 10  | 2,837.44 | 10  | 3,199.84 | 10  | 3,562.24 |
| 1/4 | 309.75 | 1/4 | 672.27 | 1/4 | 1,033.96 | 1/4 | 1,394.94 | 1/4 | 1,757.47 | 1/4 | 2,120.00 | 1/4 | 2,482.54 | 1/4 | 2,844.99 | 1/4 | 3,207.39 | 1/4 | 3,569.79 |
| 1/2 | 317.30 | 1/2 | 679.82 | 1/2 | 1,041.46 | 1/2 | 1,402.49 | 1/2 | 1,765.02 | 1/2 | 2,127.56 | 1/2 | 2,490.09 | 1/2 | 2,852.54 | 1/2 | 3,214.94 | 1/2 | 3,577.34 |
| 3/4 | 324.85 | 3/4 | 687.37 | 3/4 | 1,048.96 | 3/4 | 1,410.04 | 3/4 | 1,772.58 | 3/4 | 2,135.11 | 3/4 | 2,497.64 | 3/4 | 2,860.09 | 3/4 | 3,222.49 | 3/4 | 3,584.89 |
| 11  | 332.40 | 11  | 694.92 | 11  | 1,056.46 | 11  | 1,417.59 | 11  | 1,780.13 | 11  | 2,142.66 | 11  | 2,505.20 | 11  | 2,867.64 | 11  | 3,230.04 | 11  | 3,592.44 |
| 1/4 | 339.96 | 1/4 | 702.48 | 1/4 | 1,063.96 | 1/4 | 1,425.15 | 1/4 | 1,787.68 | 1/4 | 2,150.22 | 1/4 | 2,512.75 | 1/4 | 2,875.19 | 1/4 | 3,237.59 | 1/4 | 3,599.99 |
| 1/2 | 347.51 | 1/2 | 710.03 | 1/2 | 1,071.46 | 1/2 | 1,432.70 | 1/2 | 1,795.23 | 1/2 | 2,157.77 | 1/2 | 2,520.30 | 1/2 | 2,882.74 | 1/2 | 3,245.14 | 1/2 | 3,607.54 |
| 3/4 | 355.06 | 3/4 | 717.58 | 3/4 | 1,078.96 | 3/4 | 1,440.25 | 3/4 | 1,802.79 | 3/4 | 2,165.32 | 3/4 | 2,527.86 | 3/4 | 2,890.29 | 3/4 | 3,252.69 | 3/4 | 3,615.09 |

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" HERMETIC CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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Pearland, Texas 77588

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# BARGE "HBC 309"

## 1 STBD 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   | 3,622.64 | 0   | 3,985.04 | 0   | 4,347.44 | 0   | 4,705.01 | 0   | 5,044.37 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 3,630.19 | 1/4 | 3,992.59 | 1/4 | 4,354.99 | 1/4 | 4,712.27 | 1/4 | 5,051.18 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,637.74 | 1/2 | 4,000.14 | 1/2 | 4,362.54 | 1/2 | 4,719.54 | 1/2 | 5,057.99 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,645.29 | 3/4 | 4,007.69 | 3/4 | 4,370.09 | 3/4 | 4,726.81 | 3/4 | 5,064.80 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 3,652.84 | 1   | 4,015.24 | 1   | 4,377.64 | 1   | 4,734.07 | 1   | 5,071.61 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 3,660.39 | 1/4 | 4,022.79 | 1/4 | 4,385.19 | 1/4 | 4,741.28 | 1/4 | 5,078.39 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,667.94 | 1/2 | 4,030.34 | 1/2 | 4,392.74 | 1/2 | 4,748.49 | 1/2 | 5,085.17 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,675.49 | 3/4 | 4,037.89 | 3/4 | 4,400.29 | 3/4 | 4,755.70 | 3/4 | 5,091.95 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 3,683.04 | 2   | 4,045.44 | 2   | 4,407.84 | 2   | 4,762.90 | 2   | 5,098.73 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 3,690.59 | 1/4 | 4,052.99 | 1/4 | 4,415.39 | 1/4 | 4,770.08 | 1/4 | 5,105.47 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,698.14 | 1/2 | 4,060.54 | 1/2 | 4,422.94 | 1/2 | 4,777.26 | 1/2 | 5,112.22 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,705.69 | 3/4 | 4,068.09 | 3/4 | 4,430.49 | 3/4 | 4,784.44 | 3/4 | 5,118.97 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 3,713.24 | 3   | 4,075.64 | 3   | 4,438.04 | 3   | 4,791.61 | 3   | 5,125.72 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 3,720.79 | 1/4 | 4,083.19 | 1/4 | 4,445.58 | 1/4 | 4,798.76 | 1/4 | 5,132.43 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,728.34 | 1/2 | 4,090.74 | 1/2 | 4,453.11 | 1/2 | 4,805.91 | 1/2 | 5,139.14 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,735.89 | 3/4 | 4,098.29 | 3/4 | 4,460.65 | 3/4 | 4,813.06 | 3/4 | 5,145.85 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 3,743.44 | 4   | 4,105.84 | 4   | 4,468.19 | 4   | 4,820.20 | 4   | 5,152.56 | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 3,750.99 | 1/4 | 4,113.39 | 1/4 | 4,475.69 | 1/4 | 4,827.32 | 1/4 | 5,159.21 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,758.54 | 1/2 | 4,120.94 | 1/2 | 4,483.20 | 1/2 | 4,834.44 | 1/2 | 5,165.87 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,766.09 | 3/4 | 4,128.49 | 3/4 | 4,490.70 | 3/4 | 4,841.56 | 3/4 | 5,172.52 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 3,773.64 | 5   | 4,136.04 | 5   | 4,498.21 | 5   | 4,848.67 | 5   | 5,179.18 | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 3,781.19 | 1/4 | 4,143.59 | 1/4 | 4,505.68 | 1/4 | 4,855.76 | 1/4 | 5,185.20 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,788.74 | 1/2 | 4,151.14 | 1/2 | 4,513.16 | 1/2 | 4,862.85 | 1/2 | 5,191.23 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,796.29 | 3/4 | 4,158.69 | 3/4 | 4,520.63 | 3/4 | 4,869.94 | 3/4 | 5,197.26 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 3,803.84 | 6   | 4,166.24 | 6   | 4,528.11 | 6   | 4,877.03 | 6   | 5,203.29 | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 3,811.39 | 1/4 | 4,173.79 | 1/4 | 4,535.55 | 1/4 | 4,884.08 | 1/4 | 5,208.85 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,818.94 | 1/2 | 4,181.34 | 1/2 | 4,543.00 | 1/2 | 4,891.14 | 1/2 | 5,214.42 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,826.49 | 3/4 | 4,188.89 | 3/4 | 4,550.44 | 3/4 | 4,898.20 | 3/4 | 5,219.98 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 3,834.04 | 7   | 4,196.44 | 7   | 4,557.89 | 7   | 4,905.26 | 7   | 5,225.54 | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 3,841.59 | 1/4 | 4,203.99 | 1/4 | 4,565.31 | 1/4 | 4,912.29 | 1/4 | 5,229.87 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,849.14 | 1/2 | 4,211.54 | 1/2 | 4,572.72 | 1/2 | 4,919.31 | 1/2 | 5,234.21 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,856.69 | 3/4 | 4,219.09 | 3/4 | 4,580.14 | 3/4 | 4,926.34 | 3/4 | 5,238.54 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 3,864.24 | 8   | 4,226.64 | 8   | 4,587.55 | 8   | 4,933.37 | 8   | 5,242.87 | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 3,871.79 | 1/4 | 4,234.19 | 1/4 | 4,594.94 | 1/4 | 4,940.37 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,879.34 | 1/2 | 4,241.74 | 1/2 | 4,602.32 | 1/2 | 4,947.37 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,886.89 | 3/4 | 4,249.29 | 3/4 | 4,609.71 | 3/4 | 4,954.37 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 3,894.44 | 9   | 4,256.84 | 9   | 4,617.10 | 9   | 4,961.36 | 9   |          | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 3,901.99 | 1/4 | 4,264.39 | 1/4 | 4,624.45 | 1/4 | 4,968.33 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,909.54 | 1/2 | 4,271.94 | 1/2 | 4,631.81 | 1/2 | 4,975.31 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,917.09 | 3/4 | 4,279.49 | 3/4 | 4,639.16 | 3/4 | 4,982.28 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 3,924.64 | 10  | 4,287.04 | 10  | 4,646.52 | 10  | 4,989.25 | 10  |          | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 3,932.19 | 1/4 | 4,294.59 | 1/4 | 4,653.85 | 1/4 | 4,996.19 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,939.74 | 1/2 | 4,302.14 | 1/2 | 4,661.17 | 1/2 | 5,003.13 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,947.29 | 3/4 | 4,309.69 | 3/4 | 4,668.50 | 3/4 | 5,010.07 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 3,954.84 | 11  | 4,317.24 | 11  | 4,675.82 | 11  | 5,017.01 | 11  |          | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 3,962.39 | 1/4 | 4,324.79 | 1/4 | 4,683.12 | 1/4 | 5,023.85 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,969.94 | 1/2 | 4,332.34 | 1/2 | 4,690.42 | 1/2 | 5,030.69 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,977.49 | 3/4 | 4,339.89 | 3/4 | 4,697.71 | 3/4 | 5,037.53 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

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# BARGE "HBC 309"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

| 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   | 22.89  | 0   | 361.49 | 0   | 722.88   | 0   | 1,084.03 | 0   | 1,445.18 | 0   | 1,806.58 | 0   | 2,167.99 | 0   | 2,529.39 | 0   | 2,890.69 | 0   | 3,251.96 |
| 1/4 | 27.28  | 1/4 | 369.01 | 1/4 | 730.41   | 1/4 | 1,091.54 | 1/4 | 1,452.71 | 1/4 | 1,814.11 | 1/4 | 2,175.51 | 1/4 | 2,536.92 | 1/4 | 2,898.22 | 1/4 | 3,259.49 |
| 1/2 | 31.67  | 1/2 | 376.54 | 1/2 | 737.94   | 1/2 | 1,099.06 | 1/2 | 1,460.24 | 1/2 | 1,821.64 | 1/2 | 2,183.04 | 1/2 | 2,544.45 | 1/2 | 2,905.74 | 1/2 | 3,267.02 |
| 3/4 | 36.06  | 3/4 | 384.07 | 3/4 | 745.46   | 3/4 | 1,106.58 | 3/4 | 1,467.77 | 3/4 | 1,829.17 | 3/4 | 2,190.57 | 3/4 | 2,551.97 | 3/4 | 2,913.27 | 3/4 | 3,274.54 |
| 1   | 40.45  | 1   | 391.60 | 1   | 752.99   | 1   | 1,114.09 | 1   | 1,475.30 | 1   | 1,836.70 | 1   | 2,198.10 | 1   | 2,559.50 | 1   | 2,920.80 | 1   | 3,282.07 |
| 1/4 | 46.09  | 1/4 | 399.13 | 1/4 | 760.52   | 1/4 | 1,121.61 | 1/4 | 1,482.83 | 1/4 | 1,844.23 | 1/4 | 2,205.63 | 1/4 | 2,567.03 | 1/4 | 2,928.32 | 1/4 | 3,289.60 |
| 1/2 | 51.74  | 1/2 | 406.66 | 1/2 | 768.05   | 1/2 | 1,129.13 | 1/2 | 1,490.36 | 1/2 | 1,851.76 | 1/2 | 2,213.16 | 1/2 | 2,574.56 | 1/2 | 2,935.85 | 1/2 | 3,297.12 |
| 3/4 | 57.39  | 3/4 | 414.19 | 3/4 | 775.58   | 3/4 | 1,136.65 | 3/4 | 1,497.89 | 3/4 | 1,859.29 | 3/4 | 2,220.69 | 3/4 | 2,582.09 | 3/4 | 2,943.38 | 3/4 | 3,304.65 |
| 2   | 63.03  | 2   | 421.72 | 2   | 783.11   | 2   | 1,144.16 | 2   | 1,505.42 | 2   | 1,866.82 | 2   | 2,228.22 | 2   | 2,589.62 | 2   | 2,950.90 | 2   | 3,312.18 |
| 1/4 | 69.93  | 1/4 | 429.25 | 1/4 | 790.64   | 1/4 | 1,151.68 | 1/4 | 1,512.95 | 1/4 | 1,874.35 | 1/4 | 2,235.75 | 1/4 | 2,597.15 | 1/4 | 2,958.43 | 1/4 | 3,319.70 |
| 1/2 | 76.83  | 1/2 | 436.78 | 1/2 | 798.17   | 1/2 | 1,159.20 | 1/2 | 1,520.47 | 1/2 | 1,881.88 | 1/2 | 2,243.28 | 1/2 | 2,604.68 | 1/2 | 2,965.96 | 1/2 | 3,327.23 |
| 3/4 | 83.73  | 3/4 | 444.30 | 3/4 | 805.70   | 3/4 | 1,166.71 | 3/4 | 1,528.00 | 3/4 | 1,889.41 | 3/4 | 2,250.81 | 3/4 | 2,612.21 | 3/4 | 2,973.48 | 3/4 | 3,334.76 |
| 3   | 90.63  | 3   | 451.83 | 3   | 813.23   | 3   | 1,174.23 | 3   | 1,535.53 | 3   | 1,896.93 | 3   | 2,258.34 | 3   | 2,619.74 | 3   | 2,981.01 | 3   | 3,342.28 |
| 1/4 | 98.12  | 1/4 | 459.36 | 1/4 | 820.75   | 1/4 | 1,181.75 | 1/4 | 1,543.06 | 1/4 | 1,904.46 | 1/4 | 2,265.87 | 1/4 | 2,627.26 | 1/4 | 2,988.54 | 1/4 | 3,349.81 |
| 1/2 | 105.62 | 1/2 | 466.89 | 1/2 | 828.28   | 1/2 | 1,189.26 | 1/2 | 1,550.59 | 1/2 | 1,911.99 | 1/2 | 2,273.39 | 1/2 | 2,634.79 | 1/2 | 2,996.06 | 1/2 | 3,357.33 |
| 3/4 | 113.11 | 3/4 | 474.42 | 3/4 | 835.81   | 3/4 | 1,196.78 | 3/4 | 1,558.12 | 3/4 | 1,919.52 | 3/4 | 2,280.92 | 3/4 | 2,642.32 | 3/4 | 3,003.59 | 3/4 | 3,364.86 |
| 4   | 120.60 | 4   | 481.95 | 4   | 843.34   | 4   | 1,204.30 | 4   | 1,565.65 | 4   | 1,927.05 | 4   | 2,288.45 | 4   | 2,649.84 | 4   | 3,011.12 | 4   | 3,372.39 |
| 1/4 | 128.12 | 1/4 | 489.48 | 1/4 | 850.87   | 1/4 | 1,211.81 | 1/4 | 1,573.18 | 1/4 | 1,934.58 | 1/4 | 2,295.98 | 1/4 | 2,657.37 | 1/4 | 3,018.64 | 1/4 | 3,379.91 |
| 1/2 | 135.64 | 1/2 | 497.01 | 1/2 | 858.40   | 1/2 | 1,219.33 | 1/2 | 1,580.71 | 1/2 | 1,942.11 | 1/2 | 2,303.51 | 1/2 | 2,664.90 | 1/2 | 3,026.17 | 1/2 | 3,387.44 |
| 3/4 | 143.16 | 3/4 | 504.54 | 3/4 | 865.93   | 3/4 | 1,226.85 | 3/4 | 1,588.24 | 3/4 | 1,949.64 | 3/4 | 2,311.04 | 3/4 | 2,672.42 | 3/4 | 3,033.70 | 3/4 | 3,394.97 |
| 5   | 150.68 | 5   | 512.07 | 5   | 873.46   | 5   | 1,234.37 | 5   | 1,595.77 | 5   | 1,957.17 | 5   | 2,318.57 | 5   | 2,679.95 | 5   | 3,041.22 | 5   | 3,402.49 |
| 1/4 | 158.21 | 1/4 | 519.59 | 1/4 | 880.99   | 1/4 | 1,241.89 | 1/4 | 1,603.30 | 1/4 | 1,964.70 | 1/4 | 2,326.10 | 1/4 | 2,687.48 | 1/4 | 3,048.75 | 1/4 | 3,410.02 |
| 1/2 | 165.73 | 1/2 | 527.12 | 1/2 | 888.52   | 1/2 | 1,249.42 | 1/2 | 1,610.83 | 1/2 | 1,972.23 | 1/2 | 2,333.63 | 1/2 | 2,695.00 | 1/2 | 3,056.27 | 1/2 | 3,417.55 |
| 3/4 | 173.26 | 3/4 | 534.65 | 3/4 | 896.04   | 3/4 | 1,256.95 | 3/4 | 1,618.35 | 3/4 | 1,979.76 | 3/4 | 2,341.16 | 3/4 | 2,702.53 | 3/4 | 3,063.80 | 3/4 | 3,425.07 |
| 6   | 180.79 | 6   | 542.18 | 6   | 903.57   | 6   | 1,264.48 | 6   | 1,625.88 | 6   | 1,987.29 | 6   | 2,348.69 | 6   | 2,710.06 | 6   | 3,071.33 | 6   | 3,432.60 |
| 1/4 | 188.32 | 1/4 | 549.71 | 1/4 | 911.10   | 1/4 | 1,272.01 | 1/4 | 1,633.41 | 1/4 | 1,994.81 | 1/4 | 2,356.22 | 1/4 | 2,717.58 | 1/4 | 3,078.85 | 1/4 | 3,440.13 |
| 1/2 | 195.85 | 1/2 | 557.24 | 1/2 | 918.63   | 1/2 | 1,279.54 | 1/2 | 1,640.94 | 1/2 | 2,002.34 | 1/2 | 2,363.74 | 1/2 | 2,725.11 | 1/2 | 3,086.38 | 1/2 | 3,447.65 |
| 3/4 | 203.38 | 3/4 | 564.77 | 3/4 | 926.16   | 3/4 | 1,287.07 | 3/4 | 1,648.47 | 3/4 | 2,009.87 | 3/4 | 2,371.27 | 3/4 | 2,732.64 | 3/4 | 3,093.91 | 3/4 | 3,455.18 |
| 7   | 210.91 | 7   | 572.30 | 7   | 933.69   | 7   | 1,294.60 | 7   | 1,656.00 | 7   | 2,017.40 | 7   | 2,378.80 | 7   | 2,740.16 | 7   | 3,101.43 | 7   | 3,462.71 |
| 1/4 | 218.43 | 1/4 | 579.83 | 1/4 | 941.21   | 1/4 | 1,302.13 | 1/4 | 1,663.53 | 1/4 | 2,024.93 | 1/4 | 2,386.33 | 1/4 | 2,747.69 | 1/4 | 3,108.96 | 1/4 | 3,470.23 |
| 1/2 | 225.96 | 1/2 | 587.36 | 1/2 | 948.72   | 1/2 | 1,309.66 | 1/2 | 1,671.06 | 1/2 | 2,032.46 | 1/2 | 2,393.86 | 1/2 | 2,755.21 | 1/2 | 3,116.49 | 1/2 | 3,477.76 |
| 3/4 | 233.49 | 3/4 | 594.88 | 3/4 | 956.24   | 3/4 | 1,317.19 | 3/4 | 1,678.59 | 3/4 | 2,039.99 | 3/4 | 2,401.39 | 3/4 | 2,762.74 | 3/4 | 3,124.01 | 3/4 | 3,485.29 |
| 8   | 241.02 | 8   | 602.41 | 8   | 963.76   | 8   | 1,324.72 | 8   | 1,686.12 | 8   | 2,047.52 | 8   | 2,408.92 | 8   | 2,770.27 | 8   | 3,131.54 | 8   | 3,492.81 |
| 1/4 | 248.55 | 1/4 | 609.94 | 1/4 | 971.27   | 1/4 | 1,332.24 | 1/4 | 1,693.65 | 1/4 | 2,055.05 | 1/4 | 2,416.45 | 1/4 | 2,777.79 | 1/4 | 3,139.07 | 1/4 | 3,500.34 |
| 1/2 | 256.08 | 1/2 | 617.47 | 1/2 | 978.79   | 1/2 | 1,339.77 | 1/2 | 1,701.18 | 1/2 | 2,062.58 | 1/2 | 2,423.98 | 1/2 | 2,785.32 | 1/2 | 3,146.59 | 1/2 | 3,507.86 |
| 3/4 | 263.61 | 3/4 | 625.00 | 3/4 | 986.31   | 3/4 | 1,347.30 | 3/4 | 1,708.70 | 3/4 | 2,070.11 | 3/4 | 2,431.51 | 3/4 | 2,792.85 | 3/4 | 3,154.12 | 3/4 | 3,515.39 |
| 9   | 271.14 | 9   | 632.53 | 9   | 993.82   | 9   | 1,354.83 | 9   | 1,716.23 | 9   | 2,077.64 | 9   | 2,439.04 | 9   | 2,800.37 | 9   | 3,161.65 | 9   | 3,522.92 |
| 1/4 | 278.67 | 1/4 | 640.06 | 1/4 | 1,001.34 | 1/4 | 1,362.36 | 1/4 | 1,723.76 | 1/4 | 2,085.16 | 1/4 | 2,446.57 | 1/4 | 2,807.90 | 1/4 | 3,169.17 | 1/4 | 3,530.44 |
| 1/2 | 286.20 | 1/2 | 647.59 | 1/2 | 1,008.86 | 1/2 | 1,369.89 | 1/2 | 1,731.29 | 1/2 | 2,092.69 | 1/2 | 2,454.10 | 1/2 | 2,815.43 | 1/2 | 3,176.70 | 1/2 | 3,537.97 |
| 3/4 | 293.72 | 3/4 | 655.12 | 3/4 | 1,016.37 | 3/4 | 1,377.42 | 3/4 | 1,738.82 | 3/4 | 2,100.22 | 3/4 | 2,461.62 | 3/4 | 2,822.95 | 3/4 | 3,184.23 | 3/4 | 3,545.50 |
| 10  | 301.25 | 10  | 662.65 | 10  | 1,023.89 | 10  | 1,384.95 | 10  | 1,746.35 | 10  | 2,107.75 | 10  | 2,469.15 | 10  | 2,830.48 | 10  | 3,191.75 | 10  | 3,553.02 |
| 1/4 | 308.78 | 1/4 | 670.17 | 1/4 | 1,031.41 | 1/4 | 1,392.48 | 1/4 | 1,753.88 | 1/4 | 2,115.28 | 1/4 | 2,476.68 | 1/4 | 2,838.01 | 1/4 | 3,199.28 | 1/4 | 3,560.55 |
| 1/2 | 316.31 | 1/2 | 677.70 | 1/2 | 1,038.93 | 1/2 | 1,400.01 | 1/2 | 1,761.41 | 1/2 | 2,122.81 | 1/2 | 2,484.21 | 1/2 | 2,845.53 | 1/2 | 3,206.80 | 1/2 | 3,568.08 |
| 3/4 | 323.84 | 3/4 | 685.23 | 3/4 | 1,046.44 | 3/4 | 1,407.54 | 3/4 | 1,768.94 | 3/4 | 2,130.34 | 3/4 | 2,491.74 | 3/4 | 2,853.06 | 3/4 | 3,214.33 | 3/4 | 3,575.60 |
| 11  | 331.37 | 11  | 692.76 | 11  | 1,053.96 | 11  | 1,415.07 | 11  | 1,776.47 | 11  | 2,137.87 | 11  | 2,499.27 | 11  | 2,860.59 | 11  | 3,221.86 | 11  | 3,583.13 |
| 1/4 | 338.90 | 1/4 | 700.29 | 1/4 | 1,061.48 | 1/4 | 1,422.60 | 1/4 | 1,784.00 | 1/4 | 2,145.40 | 1/4 | 2,506.80 | 1/4 | 2,868.11 | 1/4 | 3,229.38 | 1/4 | 3,590.66 |
| 1/2 | 346.43 | 1/2 | 707.82 | 1/2 | 1,068.99 | 1/2 | 1,430.12 | 1/2 | 1,791.53 | 1/2 | 2,152.93 | 1/2 | 2,514.33 | 1/2 | 2,875.64 | 1/2 | 3,236.91 | 1/2 | 3,598.18 |
| 3/4 | 353.96 | 3/4 | 715.35 | 3/4 | 1,076.51 | 3/4 | 1,437.65 | 3/4 | 1,799.06 | 3/4 | 2,160.46 | 3/4 | 2,521.86 | 3/4 | 2,883.17 | 3/4 | 3,244.44 | 3/4 | 3,605.71 |

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" HERMETIC CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HBC 309"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

| 10 FT. |          | 11 FT. |          | 12 FT. |          | 13 FT. |          | 14 FT. |          | 15 FT. |  | 16 FT. |  | 17 FT. |  | 18 FT. |  | 19 FT. |  |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|--|--------|--|--------|--|--------|--|--------|--|
| 0      | 3,613.24 | 0      | 3,974.51 | 0      | 4,335.78 | 0      | 4,692.23 | 0      | 5,030.55 | 0      |  | 0      |  | 0      |  | 0      |  | 0      |  |
| 1/4    | 3,620.76 | 1/4    | 3,982.03 | 1/4    | 4,343.31 | 1/4    | 4,699.48 | 1/4    | 5,037.34 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,628.29 | 1/2    | 3,989.56 | 1/2    | 4,350.83 | 1/2    | 4,706.72 | 1/2    | 5,044.13 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,635.82 | 3/4    | 3,997.09 | 3/4    | 4,358.36 | 3/4    | 4,713.96 | 3/4    | 5,050.92 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 1      | 3,643.34 | 1      | 4,004.61 | 1      | 4,365.89 | 1      | 4,721.21 | 1      | 5,057.71 | 1      |  | 1      |  | 1      |  | 1      |  | 1      |  |
| 1/4    | 3,650.87 | 1/4    | 4,012.14 | 1/4    | 4,373.41 | 1/4    | 4,728.39 | 1/4    | 5,064.46 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,658.39 | 1/2    | 4,019.67 | 1/2    | 4,380.94 | 1/2    | 4,735.58 | 1/2    | 5,071.22 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,665.92 | 3/4    | 4,027.19 | 3/4    | 4,388.47 | 3/4    | 4,742.76 | 3/4    | 5,077.98 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 2      | 3,673.45 | 2      | 4,034.72 | 2      | 4,395.99 | 2      | 4,749.95 | 2      | 5,084.74 | 2      |  | 2      |  | 2      |  | 2      |  | 2      |  |
| 1/4    | 3,680.97 | 1/4    | 4,042.25 | 1/4    | 4,403.52 | 1/4    | 4,757.10 | 1/4    | 5,091.47 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,688.50 | 1/2    | 4,049.77 | 1/2    | 4,411.04 | 1/2    | 4,764.26 | 1/2    | 5,098.20 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,696.03 | 3/4    | 4,057.30 | 3/4    | 4,418.57 | 3/4    | 4,771.41 | 3/4    | 5,104.93 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 3      | 3,703.55 | 3      | 4,064.83 | 3      | 4,426.10 | 3      | 4,778.57 | 3      | 5,111.65 | 3      |  | 3      |  | 3      |  | 3      |  | 3      |  |
| 1/4    | 3,711.08 | 1/4    | 4,072.35 | 1/4    | 4,433.61 | 1/4    | 4,785.69 | 1/4    | 5,118.34 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,718.61 | 1/2    | 4,079.88 | 1/2    | 4,441.12 | 1/2    | 4,792.82 | 1/2    | 5,125.03 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,726.13 | 3/4    | 4,087.41 | 3/4    | 4,448.63 | 3/4    | 4,799.95 | 3/4    | 5,131.72 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 4      | 3,733.66 | 4      | 4,094.93 | 4      | 4,456.14 | 4      | 4,807.07 | 4      | 5,138.41 | 4      |  | 4      |  | 4      |  | 4      |  | 4      |  |
| 1/4    | 3,741.19 | 1/4    | 4,102.46 | 1/4    | 4,463.62 | 1/4    | 4,814.17 | 1/4    | 5,145.04 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,748.71 | 1/2    | 4,109.98 | 1/2    | 4,471.11 | 1/2    | 4,821.26 | 1/2    | 5,151.68 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,756.24 | 3/4    | 4,117.51 | 3/4    | 4,478.59 | 3/4    | 4,828.36 | 3/4    | 5,158.31 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 5      | 3,763.77 | 5      | 4,125.04 | 5      | 4,486.07 | 5      | 4,835.45 | 5      | 5,164.95 | 5      |  | 5      |  | 5      |  | 5      |  | 5      |  |
| 1/4    | 3,771.29 | 1/4    | 4,132.56 | 1/4    | 4,493.52 | 1/4    | 4,842.52 | 1/4    | 5,170.96 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,778.82 | 1/2    | 4,140.09 | 1/2    | 4,500.97 | 1/2    | 4,849.59 | 1/2    | 5,176.97 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,786.35 | 3/4    | 4,147.62 | 3/4    | 4,508.43 | 3/4    | 4,856.65 | 3/4    | 5,182.98 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 6      | 3,793.87 | 6      | 4,155.14 | 6      | 4,515.88 | 6      | 4,863.72 | 6      | 5,188.99 | 6      |  | 6      |  | 6      |  | 6      |  | 6      |  |
| 1/4    | 3,801.40 | 1/4    | 4,162.67 | 1/4    | 4,523.30 | 1/4    | 4,870.76 | 1/4    | 5,194.53 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,808.92 | 1/2    | 4,170.20 | 1/2    | 4,530.72 | 1/2    | 4,877.79 | 1/2    | 5,200.08 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,816.45 | 3/4    | 4,177.72 | 3/4    | 4,538.15 | 3/4    | 4,884.83 | 3/4    | 5,205.62 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 7      | 3,823.98 | 7      | 4,185.25 | 7      | 4,545.57 | 7      | 4,891.86 | 7      | 5,211.17 | 7      |  | 7      |  | 7      |  | 7      |  | 7      |  |
| 1/4    | 3,831.50 | 1/4    | 4,192.78 | 1/4    | 4,552.96 | 1/4    | 4,898.87 | 1/4    | 5,215.49 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,839.03 | 1/2    | 4,200.30 | 1/2    | 4,560.35 | 1/2    | 4,905.88 | 1/2    | 5,219.81 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,846.56 | 3/4    | 4,207.83 | 3/4    | 4,567.75 | 3/4    | 4,912.88 | 3/4    | 5,224.13 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 8      | 3,854.08 | 8      | 4,215.36 | 8      | 4,575.14 | 8      | 4,919.89 | 8      | 5,228.45 | 8      |  | 8      |  | 8      |  | 8      |  | 8      |  |
| 1/4    | 3,861.61 | 1/4    | 4,222.88 | 1/4    | 4,582.50 | 1/4    | 4,926.87 | 1/4    |          | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,869.14 | 1/2    | 4,230.41 | 1/2    | 4,589.86 | 1/2    | 4,933.85 | 1/2    |          | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,876.66 | 3/4    | 4,237.94 | 3/4    | 4,597.23 | 3/4    | 4,940.82 | 3/4    |          | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 9      | 3,884.19 | 9      | 4,245.46 | 9      | 4,604.59 | 9      | 4,947.80 | 9      |          | 9      |  | 9      |  | 9      |  | 9      |  | 9      |  |
| 1/4    | 3,891.72 | 1/4    | 4,252.99 | 1/4    | 4,611.92 | 1/4    | 4,954.75 | 1/4    |          | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,899.24 | 1/2    | 4,260.51 | 1/2    | 4,619.26 | 1/2    | 4,961.70 | 1/2    |          | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,906.77 | 3/4    | 4,268.04 | 3/4    | 4,626.59 | 3/4    | 4,968.65 | 3/4    |          | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 10     | 3,914.30 | 10     | 4,275.57 | 10     | 4,633.92 | 10     | 4,975.60 | 10     |          | 10     |  | 10     |  | 10     |  | 10     |  | 10     |  |
| 1/4    | 3,921.82 | 1/4    | 4,283.09 | 1/4    | 4,641.23 | 1/4    | 4,982.52 | 1/4    |          | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,929.35 | 1/2    | 4,290.62 | 1/2    | 4,648.53 | 1/2    | 4,989.44 | 1/2    |          | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,936.88 | 3/4    | 4,298.15 | 3/4    | 4,655.83 | 3/4    | 4,996.36 | 3/4    |          | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 11     | 3,944.40 | 11     | 4,305.67 | 11     | 4,663.14 | 11     | 5,003.28 | 11     |          | 11     |  | 11     |  | 11     |  | 11     |  | 11     |  |
| 1/4    | 3,951.93 | 1/4    | 4,313.20 | 1/4    | 4,670.41 | 1/4    | 5,010.10 | 1/4    |          | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,959.45 | 1/2    | 4,320.73 | 1/2    | 4,677.68 | 1/2    | 5,016.91 | 1/2    |          | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,966.98 | 3/4    | 4,328.25 | 3/4    | 4,684.96 | 3/4    | 5,023.73 | 3/4    |          | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/08/2013 CL  
CALCULATED: 08/08/2013 CL  
PRINTED: 08/08/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "HBC 309"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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   | 22.89  | 0   | 361.53 | 0   | 722.96   | 0   | 1,076.21 | 0   | 1,429.47 | 0   | 1,790.92 | 0   | 2,152.37 | 0   | 2,513.82 | 0   | 2,875.17 | 0   | 3,236.48 |
| 1/4 | 27.28  | 1/4 | 369.06 | 1/4 | 730.49   | 1/4 | 1,083.39 | 1/4 | 1,437.00 | 1/4 | 1,798.45 | 1/4 | 2,159.90 | 1/4 | 2,521.35 | 1/4 | 2,882.69 | 1/4 | 3,244.01 |
| 1/2 | 31.67  | 1/2 | 376.59 | 1/2 | 738.02   | 1/2 | 1,090.58 | 1/2 | 1,444.53 | 1/2 | 1,805.98 | 1/2 | 2,167.43 | 1/2 | 2,528.88 | 1/2 | 2,890.22 | 1/2 | 3,251.54 |
| 3/4 | 36.06  | 3/4 | 384.12 | 3/4 | 745.55   | 3/4 | 1,097.77 | 3/4 | 1,452.06 | 3/4 | 1,813.51 | 3/4 | 2,174.96 | 3/4 | 2,536.41 | 3/4 | 2,897.75 | 3/4 | 3,259.06 |
| 1   | 40.45  | 1   | 391.65 | 1   | 753.08   | 1   | 1,104.96 | 1   | 1,459.59 | 1   | 1,821.04 | 1   | 2,182.49 | 1   | 2,543.94 | 1   | 2,905.28 | 1   | 3,266.59 |
| 1/4 | 46.10  | 1/4 | 399.18 | 1/4 | 760.61   | 1/4 | 1,112.14 | 1/4 | 1,467.12 | 1/4 | 1,828.57 | 1/4 | 2,190.02 | 1/4 | 2,551.47 | 1/4 | 2,912.80 | 1/4 | 3,274.12 |
| 1/2 | 51.75  | 1/2 | 406.71 | 1/2 | 768.14   | 1/2 | 1,119.33 | 1/2 | 1,474.65 | 1/2 | 1,836.10 | 1/2 | 2,197.55 | 1/2 | 2,559.00 | 1/2 | 2,920.33 | 1/2 | 3,281.65 |
| 3/4 | 57.39  | 3/4 | 414.24 | 3/4 | 775.67   | 3/4 | 1,126.52 | 3/4 | 1,482.18 | 3/4 | 1,843.63 | 3/4 | 2,205.08 | 3/4 | 2,566.53 | 3/4 | 2,927.86 | 3/4 | 3,289.17 |
| 2   | 63.04  | 2   | 421.77 | 2   | 783.20   | 2   | 1,133.70 | 2   | 1,489.71 | 2   | 1,851.16 | 2   | 2,212.61 | 2   | 2,574.06 | 2   | 2,935.39 | 2   | 3,296.70 |
| 1/4 | 69.94  | 1/4 | 429.30 | 1/4 | 790.73   | 1/4 | 1,140.89 | 1/4 | 1,497.24 | 1/4 | 1,858.69 | 1/4 | 2,220.14 | 1/4 | 2,581.59 | 1/4 | 2,942.91 | 1/4 | 3,304.23 |
| 1/2 | 76.84  | 1/2 | 436.83 | 1/2 | 798.26   | 1/2 | 1,148.08 | 1/2 | 1,504.77 | 1/2 | 1,866.22 | 1/2 | 2,227.67 | 1/2 | 2,589.12 | 1/2 | 2,950.44 | 1/2 | 3,311.76 |
| 3/4 | 83.74  | 3/4 | 444.36 | 3/4 | 805.79   | 3/4 | 1,155.26 | 3/4 | 1,512.30 | 3/4 | 1,873.75 | 3/4 | 2,235.20 | 3/4 | 2,596.65 | 3/4 | 2,957.97 | 3/4 | 3,319.28 |
| 3   | 90.64  | 3   | 451.89 | 3   | 813.32   | 3   | 1,162.45 | 3   | 1,519.83 | 3   | 1,881.28 | 3   | 2,242.73 | 3   | 2,604.18 | 3   | 2,965.50 | 3   | 3,326.81 |
| 1/4 | 98.14  | 1/4 | 459.42 | 1/4 | 820.85   | 1/4 | 1,169.64 | 1/4 | 1,527.36 | 1/4 | 1,888.81 | 1/4 | 2,250.26 | 1/4 | 2,611.71 | 1/4 | 2,973.02 | 1/4 | 3,334.34 |
| 1/2 | 105.63 | 1/2 | 466.95 | 1/2 | 828.38   | 1/2 | 1,176.82 | 1/2 | 1,534.89 | 1/2 | 1,896.34 | 1/2 | 2,257.79 | 1/2 | 2,619.23 | 1/2 | 2,980.55 | 1/2 | 3,341.87 |
| 3/4 | 113.12 | 3/4 | 474.48 | 3/4 | 835.91   | 3/4 | 1,184.01 | 3/4 | 1,542.42 | 3/4 | 1,903.87 | 3/4 | 2,265.32 | 3/4 | 2,626.76 | 3/4 | 2,988.08 | 3/4 | 3,349.39 |
| 4   | 120.62 | 4   | 482.01 | 4   | 843.44   | 4   | 1,191.20 | 4   | 1,549.95 | 4   | 1,911.40 | 4   | 2,272.85 | 4   | 2,634.29 | 4   | 2,995.60 | 4   | 3,356.92 |
| 1/4 | 128.14 | 1/4 | 489.54 | 1/4 | 850.97   | 1/4 | 1,198.38 | 1/4 | 1,557.48 | 1/4 | 1,918.93 | 1/4 | 2,280.38 | 1/4 | 2,641.82 | 1/4 | 3,003.13 | 1/4 | 3,364.45 |
| 1/2 | 135.66 | 1/2 | 497.07 | 1/2 | 858.50   | 1/2 | 1,205.57 | 1/2 | 1,565.01 | 1/2 | 1,926.46 | 1/2 | 2,287.91 | 1/2 | 2,649.34 | 1/2 | 3,010.66 | 1/2 | 3,371.97 |
| 3/4 | 143.18 | 3/4 | 504.60 | 3/4 | 866.03   | 3/4 | 1,212.76 | 3/4 | 1,572.54 | 3/4 | 1,933.99 | 3/4 | 2,295.44 | 3/4 | 2,656.87 | 3/4 | 3,018.19 | 3/4 | 3,379.50 |
| 5   | 150.70 | 5   | 512.13 | 5   | 873.56   | 5   | 1,219.94 | 5   | 1,580.07 | 5   | 1,941.52 | 5   | 2,302.97 | 5   | 2,664.40 | 5   | 3,025.71 | 5   | 3,387.03 |
| 1/4 | 158.22 | 1/4 | 519.66 | 1/4 | 881.09   | 1/4 | 1,227.14 | 1/4 | 1,587.60 | 1/4 | 1,949.05 | 1/4 | 2,310.50 | 1/4 | 2,671.93 | 1/4 | 3,033.24 | 1/4 | 3,394.56 |
| 1/2 | 165.75 | 1/2 | 527.19 | 1/2 | 888.62   | 1/2 | 1,234.34 | 1/2 | 1,595.13 | 1/2 | 1,956.58 | 1/2 | 2,318.03 | 1/2 | 2,679.45 | 1/2 | 3,040.77 | 1/2 | 3,402.08 |
| 3/4 | 173.28 | 3/4 | 534.72 | 3/4 | 896.15   | 3/4 | 1,241.54 | 3/4 | 1,602.66 | 3/4 | 1,964.11 | 3/4 | 2,325.56 | 3/4 | 2,686.98 | 3/4 | 3,048.30 | 3/4 | 3,409.61 |
| 6   | 180.81 | 6   | 542.25 | 6   | 903.68   | 6   | 1,248.74 | 6   | 1,610.19 | 6   | 1,971.64 | 6   | 2,333.09 | 6   | 2,694.51 | 6   | 3,055.82 | 6   | 3,417.14 |
| 1/4 | 188.34 | 1/4 | 549.78 | 1/4 | 910.88   | 1/4 | 1,256.27 | 1/4 | 1,617.72 | 1/4 | 1,979.17 | 1/4 | 2,340.62 | 1/4 | 2,702.04 | 1/4 | 3,063.35 | 1/4 | 3,424.67 |
| 1/2 | 195.87 | 1/2 | 557.31 | 1/2 | 918.08   | 1/2 | 1,263.80 | 1/2 | 1,625.25 | 1/2 | 1,986.70 | 1/2 | 2,348.15 | 1/2 | 2,709.56 | 1/2 | 3,070.88 | 1/2 | 3,432.19 |
| 3/4 | 203.40 | 3/4 | 564.84 | 3/4 | 925.27   | 3/4 | 1,271.33 | 3/4 | 1,632.78 | 3/4 | 1,994.23 | 3/4 | 2,355.68 | 3/4 | 2,717.09 | 3/4 | 3,078.41 | 3/4 | 3,439.72 |
| 7   | 210.93 | 7   | 572.37 | 7   | 932.47   | 7   | 1,278.86 | 7   | 1,640.31 | 7   | 2,001.76 | 7   | 2,363.21 | 7   | 2,724.62 | 7   | 3,085.93 | 7   | 3,447.25 |
| 1/4 | 218.46 | 1/4 | 579.90 | 1/4 | 939.66   | 1/4 | 1,286.39 | 1/4 | 1,647.84 | 1/4 | 2,009.29 | 1/4 | 2,370.74 | 1/4 | 2,732.15 | 1/4 | 3,093.46 | 1/4 | 3,454.78 |
| 1/2 | 225.99 | 1/2 | 587.43 | 1/2 | 946.85   | 1/2 | 1,293.93 | 1/2 | 1,655.37 | 1/2 | 2,016.82 | 1/2 | 2,378.27 | 1/2 | 2,739.67 | 1/2 | 3,100.99 | 1/2 | 3,462.30 |
| 3/4 | 233.52 | 3/4 | 594.96 | 3/4 | 954.03   | 3/4 | 1,301.46 | 3/4 | 1,662.90 | 3/4 | 2,024.35 | 3/4 | 2,385.80 | 3/4 | 2,747.20 | 3/4 | 3,108.52 | 3/4 | 3,469.83 |
| 8   | 241.05 | 8   | 602.49 | 8   | 961.22   | 8   | 1,308.99 | 8   | 1,670.44 | 8   | 2,031.88 | 8   | 2,393.33 | 8   | 2,754.73 | 8   | 3,116.04 | 8   | 3,477.36 |
| 1/4 | 248.58 | 1/4 | 610.02 | 1/4 | 968.41   | 1/4 | 1,316.52 | 1/4 | 1,677.97 | 1/4 | 2,039.41 | 1/4 | 2,400.86 | 1/4 | 2,762.26 | 1/4 | 3,123.57 | 1/4 | 3,484.89 |
| 1/2 | 256.11 | 1/2 | 617.54 | 1/2 | 975.59   | 1/2 | 1,324.05 | 1/2 | 1,685.50 | 1/2 | 2,046.95 | 1/2 | 2,408.39 | 1/2 | 2,769.78 | 1/2 | 3,131.10 | 1/2 | 3,492.41 |
| 3/4 | 263.64 | 3/4 | 625.07 | 3/4 | 982.78   | 3/4 | 1,331.58 | 3/4 | 1,693.03 | 3/4 | 2,054.48 | 3/4 | 2,415.92 | 3/4 | 2,777.31 | 3/4 | 3,138.63 | 3/4 | 3,499.94 |
| 9   | 271.17 | 9   | 632.60 | 9   | 989.97   | 9   | 1,339.11 | 9   | 1,700.56 | 9   | 2,062.01 | 9   | 2,423.46 | 9   | 2,784.84 | 9   | 3,146.15 | 9   | 3,507.47 |
| 1/4 | 278.70 | 1/4 | 640.13 | 1/4 | 997.15   | 1/4 | 1,346.64 | 1/4 | 1,708.09 | 1/4 | 2,069.54 | 1/4 | 2,430.99 | 1/4 | 2,792.36 | 1/4 | 3,153.68 | 1/4 | 3,515.00 |
| 1/2 | 286.23 | 1/2 | 647.66 | 1/2 | 1,004.34 | 1/2 | 1,354.17 | 1/2 | 1,715.62 | 1/2 | 2,077.07 | 1/2 | 2,438.52 | 1/2 | 2,799.89 | 1/2 | 3,161.21 | 1/2 | 3,522.52 |
| 3/4 | 293.76 | 3/4 | 655.19 | 3/4 | 1,011.53 | 3/4 | 1,361.70 | 3/4 | 1,723.15 | 3/4 | 2,084.60 | 3/4 | 2,446.05 | 3/4 | 2,807.42 | 3/4 | 3,168.73 | 3/4 | 3,530.05 |
| 10  | 301.29 | 10  | 662.72 | 10  | 1,018.71 | 10  | 1,369.23 | 10  | 1,730.68 | 10  | 2,092.13 | 10  | 2,453.58 | 10  | 2,814.95 | 10  | 3,176.26 | 10  | 3,537.58 |
| 1/4 | 308.82 | 1/4 | 670.25 | 1/4 | 1,025.90 | 1/4 | 1,376.76 | 1/4 | 1,738.21 | 1/4 | 2,099.66 | 1/4 | 2,461.11 | 1/4 | 2,822.47 | 1/4 | 3,183.79 | 1/4 | 3,545.10 |
| 1/2 | 316.35 | 1/2 | 677.78 | 1/2 | 1,033.09 | 1/2 | 1,384.29 | 1/2 | 1,745.74 | 1/2 | 2,107.19 | 1/2 | 2,468.64 | 1/2 | 2,830.00 | 1/2 | 3,191.32 | 1/2 | 3,552.63 |
| 3/4 | 323.88 | 3/4 | 685.31 | 3/4 | 1,040.27 | 3/4 | 1,391.82 | 3/4 | 1,753.27 | 3/4 | 2,114.72 | 3/4 | 2,476.17 | 3/4 | 2,837.53 | 3/4 | 3,198.84 | 3/4 | 3,560.16 |
| 11  | 331.41 | 11  | 692.84 | 11  | 1,047.46 | 11  | 1,399.35 | 11  | 1,760.80 | 11  | 2,122.25 | 11  | 2,483.70 | 11  | 2,845.06 | 11  | 3,206.37 | 11  | 3,567.69 |
| 1/4 | 338.94 | 1/4 | 700.37 | 1/4 | 1,054.65 | 1/4 | 1,406.88 | 1/4 | 1,768.33 | 1/4 | 2,129.78 | 1/4 | 2,491.23 | 1/4 | 2,852.58 | 1/4 | 3,213.90 | 1/4 | 3,575.21 |
| 1/2 | 346.47 | 1/2 | 707.90 | 1/2 | 1,061.83 | 1/2 | 1,414.41 | 1/2 | 1,775.86 | 1/2 | 2,137.31 | 1/2 | 2,498.76 | 1/2 | 2,860.11 | 1/2 | 3,221.43 | 1/2 | 3,582.74 |
| 3/4 | 354.00 | 3/4 | 715.43 | 3/4 | 1,069.02 | 3/4 | 1,421.94 | 3/4 | 1,783.39 | 3/4 | 2,144.84 | 3/4 | 2,506.29 | 3/4 | 2,867.64 | 3/4 | 3,228.95 | 3/4 | 3,590.27 |

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" HERMETIC CLOSED GAUGING VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 42'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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





# BARGE "HBC 309"

**2 STBD  
INNAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

| 10 FT. |          | 11 FT. |          | 12 FT. |          | 13 FT. |          | 14 FT. |          | 15 FT. |  | 16 FT. |  | 17 FT. |  | 18 FT. |  | 19 FT. |  |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|--|--------|--|--------|--|--------|--|--------|--|
| IN     |          | IN     |          | IN     |          | IN     |          | IN     |          | IN     |  | IN     |  | IN     |  | IN     |  | IN     |  |
| 0      | 3,597.80 | 0      | 3,959.11 | 0      | 4,320.43 | 0      | 4,676.91 | 0      | 5,015.27 | 0      |  | 0      |  | 0      |  | 0      |  | 0      |  |
| 1/4    | 3,605.32 | 1/4    | 3,966.64 | 1/4    | 4,327.95 | 1/4    | 4,684.15 | 1/4    | 5,022.06 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,612.85 | 1/2    | 3,974.17 | 1/2    | 4,335.48 | 1/2    | 4,691.40 | 1/2    | 5,028.85 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,620.38 | 3/4    | 3,981.69 | 3/4    | 4,343.01 | 3/4    | 4,698.64 | 3/4    | 5,035.64 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 1      | 3,627.91 | 1      | 3,989.22 | 1      | 4,350.54 | 1      | 4,705.89 | 1      | 5,042.43 | 1      |  | 1      |  | 1      |  | 1      |  | 1      |  |
| 1/4    | 3,635.43 | 1/4    | 3,996.75 | 1/4    | 4,358.06 | 1/4    | 4,713.07 | 1/4    | 5,049.19 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,642.96 | 1/2    | 4,004.28 | 1/2    | 4,365.59 | 1/2    | 4,720.26 | 1/2    | 5,055.95 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,650.49 | 3/4    | 4,011.80 | 3/4    | 4,373.12 | 3/4    | 4,727.45 | 3/4    | 5,062.71 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 2      | 3,658.02 | 2      | 4,019.33 | 2      | 4,380.65 | 2      | 4,734.63 | 2      | 5,069.47 | 2      |  | 2      |  | 2      |  | 2      |  | 2      |  |
| 1/4    | 3,665.54 | 1/4    | 4,026.86 | 1/4    | 4,388.17 | 1/4    | 4,741.79 | 1/4    | 5,076.20 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,673.07 | 1/2    | 4,034.39 | 1/2    | 4,395.70 | 1/2    | 4,748.94 | 1/2    | 5,082.93 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,680.60 | 3/4    | 4,041.91 | 3/4    | 4,403.23 | 3/4    | 4,756.10 | 3/4    | 5,089.66 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 3      | 3,688.13 | 3      | 4,049.44 | 3      | 4,410.76 | 3      | 4,763.26 | 3      | 5,096.38 | 3      |  | 3      |  | 3      |  | 3      |  | 3      |  |
| 1/4    | 3,695.65 | 1/4    | 4,056.97 | 1/4    | 4,418.26 | 1/4    | 4,770.38 | 1/4    | 5,103.07 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,703.18 | 1/2    | 4,064.50 | 1/2    | 4,425.77 | 1/2    | 4,777.51 | 1/2    | 5,109.76 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,710.71 | 3/4    | 4,072.02 | 3/4    | 4,433.28 | 3/4    | 4,784.64 | 3/4    | 5,116.45 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 4      | 3,718.24 | 4      | 4,079.55 | 4      | 4,440.79 | 4      | 4,791.76 | 4      | 5,123.14 | 4      |  | 4      |  | 4      |  | 4      |  | 4      |  |
| 1/4    | 3,725.76 | 1/4    | 4,087.08 | 1/4    | 4,448.27 | 1/4    | 4,798.86 | 1/4    | 5,129.78 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,733.29 | 1/2    | 4,094.61 | 1/2    | 4,455.76 | 1/2    | 4,805.96 | 1/2    | 5,136.41 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,740.82 | 3/4    | 4,102.13 | 3/4    | 4,463.24 | 3/4    | 4,813.05 | 3/4    | 5,143.05 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 5      | 3,748.34 | 5      | 4,109.66 | 5      | 4,470.72 | 5      | 4,820.15 | 5      | 5,149.68 | 5      |  | 5      |  | 5      |  | 5      |  | 5      |  |
| 1/4    | 3,755.87 | 1/4    | 4,117.19 | 1/4    | 4,478.18 | 1/4    | 4,827.22 | 1/4    | 5,155.70 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,763.40 | 1/2    | 4,124.71 | 1/2    | 4,485.63 | 1/2    | 4,834.28 | 1/2    | 5,161.71 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,770.93 | 3/4    | 4,132.24 | 3/4    | 4,493.08 | 3/4    | 4,841.35 | 3/4    | 5,167.72 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 6      | 3,778.45 | 6      | 4,139.77 | 6      | 4,500.54 | 6      | 4,848.42 | 6      | 5,173.73 | 6      |  | 6      |  | 6      |  | 6      |  | 6      |  |
| 1/4    | 3,785.98 | 1/4    | 4,147.30 | 1/4    | 4,507.96 | 1/4    | 4,855.46 | 1/4    | 5,179.28 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,793.51 | 1/2    | 4,154.82 | 1/2    | 4,515.38 | 1/2    | 4,862.49 | 1/2    | 5,184.82 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,801.04 | 3/4    | 4,162.35 | 3/4    | 4,522.80 | 3/4    | 4,869.53 | 3/4    | 5,190.37 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 7      | 3,808.56 | 7      | 4,169.88 | 7      | 4,530.23 | 7      | 4,876.57 | 7      | 5,195.91 | 7      |  | 7      |  | 7      |  | 7      |  | 7      |  |
| 1/4    | 3,816.09 | 1/4    | 4,177.41 | 1/4    | 4,537.62 | 1/4    | 4,883.57 | 1/4    | 5,200.23 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,823.62 | 1/2    | 4,184.93 | 1/2    | 4,545.02 | 1/2    | 4,890.58 | 1/2    | 5,204.55 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,831.15 | 3/4    | 4,192.46 | 3/4    | 4,552.41 | 3/4    | 4,897.59 | 3/4    | 5,208.87 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 8      | 3,838.67 | 8      | 4,199.99 | 8      | 4,559.80 | 8      | 4,904.60 | 8      | 5,213.19 | 8      |  | 8      |  | 8      |  | 8      |  | 8      |  |
| 1/4    | 3,846.20 | 1/4    | 4,207.52 | 1/4    | 4,567.17 | 1/4    | 4,911.58 | 1/4    |          | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,853.73 | 1/2    | 4,215.04 | 1/2    | 4,574.53 | 1/2    | 4,918.55 | 1/2    |          | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,861.26 | 3/4    | 4,222.57 | 3/4    | 4,581.89 | 3/4    | 4,925.53 | 3/4    |          | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 9      | 3,868.78 | 9      | 4,230.10 | 9      | 4,589.26 | 9      | 4,932.51 | 9      |          | 9      |  | 9      |  | 9      |  | 9      |  | 9      |  |
| 1/4    | 3,876.31 | 1/4    | 4,237.63 | 1/4    | 4,596.59 | 1/4    | 4,939.46 | 1/4    |          | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,883.84 | 1/2    | 4,245.15 | 1/2    | 4,603.93 | 1/2    | 4,946.41 | 1/2    |          | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,891.37 | 3/4    | 4,252.68 | 3/4    | 4,611.26 | 3/4    | 4,953.36 | 3/4    |          | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 10     | 3,898.89 | 10     | 4,260.21 | 10     | 4,618.59 | 10     | 4,960.31 | 10     |          | 10     |  | 10     |  | 10     |  | 10     |  | 10     |  |
| 1/4    | 3,906.42 | 1/4    | 4,267.74 | 1/4    | 4,625.90 | 1/4    | 4,967.23 | 1/4    |          | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,913.95 | 1/2    | 4,275.26 | 1/2    | 4,633.20 | 1/2    | 4,974.15 | 1/2    |          | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,921.47 | 3/4    | 4,282.79 | 3/4    | 4,640.51 | 3/4    | 4,981.07 | 3/4    |          | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 11     | 3,929.00 | 11     | 4,290.32 | 11     | 4,647.81 | 11     | 4,987.99 | 11     |          | 11     |  | 11     |  | 11     |  | 11     |  | 11     |  |
| 1/4    | 3,936.53 | 1/4    | 4,297.84 | 1/4    | 4,655.09 | 1/4    | 4,994.81 | 1/4    |          | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,944.06 | 1/2    | 4,305.37 | 1/2    | 4,662.36 | 1/2    | 5,001.63 | 1/2    |          | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,951.58 | 3/4    | 4,312.90 | 3/4    | 4,669.63 | 3/4    | 5,008.45 | 3/4    |          | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/08/2013 CL  
CALCULATED: 08/08/2013 CL  
PRINTED: 08/08/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

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



# BARGE "HBC 309"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

| 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   | 22.81  | 0   | 360.19 | 0   | 720.28   | 0   | 1,080.17 | 0   | 1,440.12 | 0   | 1,800.22 | 0   | 2,160.30 | 0   | 2,520.33 | 0   | 2,880.15 | 0   | 3,239.08 |
| 1/4 | 27.18  | 1/4 | 367.69 | 1/4 | 727.78   | 1/4 | 1,087.67 | 1/4 | 1,447.62 | 1/4 | 1,807.72 | 1/4 | 2,167.80 | 1/4 | 2,527.83 | 1/4 | 2,887.64 | 1/4 | 3,246.54 |
| 1/2 | 31.56  | 1/2 | 375.19 | 1/2 | 735.29   | 1/2 | 1,095.16 | 1/2 | 1,455.12 | 1/2 | 1,815.23 | 1/2 | 2,175.30 | 1/2 | 2,535.33 | 1/2 | 2,895.13 | 1/2 | 3,253.99 |
| 3/4 | 35.93  | 3/4 | 382.70 | 3/4 | 742.79   | 3/4 | 1,102.65 | 3/4 | 1,462.62 | 3/4 | 1,822.73 | 3/4 | 2,182.80 | 3/4 | 2,542.83 | 3/4 | 2,902.61 | 3/4 | 3,261.44 |
| 1   | 40.31  | 1   | 390.20 | 1   | 750.29   | 1   | 1,110.14 | 1   | 1,470.12 | 1   | 1,830.23 | 1   | 2,190.30 | 1   | 2,550.33 | 1   | 2,910.10 | 1   | 3,268.89 |
| 1/4 | 45.93  | 1/4 | 397.70 | 1/4 | 757.79   | 1/4 | 1,117.64 | 1/4 | 1,477.63 | 1/4 | 1,837.73 | 1/4 | 2,197.80 | 1/4 | 2,557.83 | 1/4 | 2,917.59 | 1/4 | 3,276.34 |
| 1/2 | 51.56  | 1/2 | 405.20 | 1/2 | 765.29   | 1/2 | 1,125.13 | 1/2 | 1,485.13 | 1/2 | 1,845.23 | 1/2 | 2,205.30 | 1/2 | 2,565.33 | 1/2 | 2,925.07 | 1/2 | 3,283.80 |
| 3/4 | 57.18  | 3/4 | 412.70 | 3/4 | 772.79   | 3/4 | 1,132.62 | 3/4 | 1,492.63 | 3/4 | 1,852.74 | 3/4 | 2,212.81 | 3/4 | 2,572.83 | 3/4 | 2,932.56 | 3/4 | 3,291.25 |
| 2   | 62.81  | 2   | 420.21 | 2   | 780.30   | 2   | 1,140.11 | 2   | 1,500.13 | 2   | 1,860.24 | 2   | 2,220.31 | 2   | 2,580.33 | 2   | 2,940.04 | 2   | 3,298.70 |
| 1/4 | 69.69  | 1/4 | 427.71 | 1/4 | 787.80   | 1/4 | 1,147.61 | 1/4 | 1,507.64 | 1/4 | 1,867.74 | 1/4 | 2,227.81 | 1/4 | 2,587.84 | 1/4 | 2,947.53 | 1/4 | 3,306.15 |
| 1/2 | 76.56  | 1/2 | 435.21 | 1/2 | 795.30   | 1/2 | 1,155.10 | 1/2 | 1,515.14 | 1/2 | 1,875.24 | 1/2 | 2,235.31 | 1/2 | 2,595.34 | 1/2 | 2,955.02 | 1/2 | 3,313.60 |
| 3/4 | 83.44  | 3/4 | 442.71 | 3/4 | 802.80   | 3/4 | 1,162.59 | 3/4 | 1,522.64 | 3/4 | 1,882.75 | 3/4 | 2,242.81 | 3/4 | 2,602.84 | 3/4 | 2,962.50 | 3/4 | 3,321.06 |
| 3   | 90.31  | 3   | 450.21 | 3   | 810.30   | 3   | 1,170.09 | 3   | 1,530.14 | 3   | 1,890.25 | 3   | 2,250.31 | 3   | 2,610.34 | 3   | 2,969.99 | 3   | 3,328.51 |
| 1/4 | 97.78  | 1/4 | 457.71 | 1/4 | 817.81   | 1/4 | 1,177.58 | 1/4 | 1,537.64 | 1/4 | 1,897.75 | 1/4 | 2,257.81 | 1/4 | 2,617.84 | 1/4 | 2,977.48 | 1/4 | 3,335.98 |
| 1/2 | 105.24 | 1/2 | 465.22 | 1/2 | 825.31   | 1/2 | 1,185.07 | 1/2 | 1,545.15 | 1/2 | 1,905.25 | 1/2 | 2,265.31 | 1/2 | 2,625.33 | 1/2 | 2,984.96 | 1/2 | 3,343.44 |
| 3/4 | 112.71 | 3/4 | 472.72 | 3/4 | 832.81   | 3/4 | 1,192.56 | 3/4 | 1,552.65 | 3/4 | 1,912.75 | 3/4 | 2,272.81 | 3/4 | 2,632.83 | 3/4 | 2,992.45 | 3/4 | 3,350.91 |
| 4   | 120.18 | 4   | 480.22 | 4   | 840.31   | 4   | 1,200.06 | 4   | 1,560.15 | 4   | 1,920.26 | 4   | 2,280.31 | 4   | 2,640.33 | 4   | 2,999.93 | 4   | 3,358.38 |
| 1/4 | 127.67 | 1/4 | 487.72 | 1/4 | 847.81   | 1/4 | 1,207.56 | 1/4 | 1,567.65 | 1/4 | 1,927.76 | 1/4 | 2,287.81 | 1/4 | 2,647.83 | 1/4 | 3,007.42 | 1/4 | 3,365.85 |
| 1/2 | 135.16 | 1/2 | 495.22 | 1/2 | 855.32   | 1/2 | 1,215.06 | 1/2 | 1,575.15 | 1/2 | 1,935.26 | 1/2 | 2,295.31 | 1/2 | 2,655.33 | 1/2 | 3,014.91 | 1/2 | 3,373.32 |
| 3/4 | 142.65 | 3/4 | 502.73 | 3/4 | 862.82   | 3/4 | 1,222.55 | 3/4 | 1,582.66 | 3/4 | 1,942.76 | 3/4 | 2,302.81 | 3/4 | 2,662.83 | 3/4 | 3,022.39 | 3/4 | 3,380.78 |
| 5   | 150.14 | 5   | 510.23 | 5   | 870.32   | 5   | 1,230.05 | 5   | 1,590.16 | 5   | 1,950.26 | 5   | 2,310.31 | 5   | 2,670.33 | 5   | 3,029.88 | 5   | 3,388.25 |
| 1/4 | 157.64 | 1/4 | 517.73 | 1/4 | 877.82   | 1/4 | 1,237.56 | 1/4 | 1,597.66 | 1/4 | 1,957.77 | 1/4 | 2,317.81 | 1/4 | 2,677.83 | 1/4 | 3,037.37 | 1/4 | 3,395.72 |
| 1/2 | 165.14 | 1/2 | 525.23 | 1/2 | 885.32   | 1/2 | 1,245.06 | 1/2 | 1,605.16 | 1/2 | 1,965.27 | 1/2 | 2,325.31 | 1/2 | 2,685.33 | 1/2 | 3,044.85 | 1/2 | 3,403.19 |
| 3/4 | 172.64 | 3/4 | 532.73 | 3/4 | 892.83   | 3/4 | 1,252.56 | 3/4 | 1,612.67 | 3/4 | 1,972.77 | 3/4 | 2,332.81 | 3/4 | 2,692.83 | 3/4 | 3,052.34 | 3/4 | 3,410.65 |
| 6   | 180.14 | 6   | 540.24 | 6   | 900.33   | 6   | 1,260.06 | 6   | 1,620.17 | 6   | 1,980.27 | 6   | 2,340.32 | 6   | 2,700.32 | 6   | 3,059.83 | 6   | 3,418.12 |
| 1/4 | 187.65 | 1/4 | 547.74 | 1/4 | 907.82   | 1/4 | 1,267.56 | 1/4 | 1,627.67 | 1/4 | 1,987.78 | 1/4 | 2,347.82 | 1/4 | 2,707.82 | 1/4 | 3,067.31 | 1/4 | 3,425.59 |
| 1/2 | 195.15 | 1/2 | 555.24 | 1/2 | 915.32   | 1/2 | 1,275.07 | 1/2 | 1,635.17 | 1/2 | 1,995.28 | 1/2 | 2,355.32 | 1/2 | 2,715.32 | 1/2 | 3,074.80 | 1/2 | 3,433.06 |
| 3/4 | 202.65 | 3/4 | 562.74 | 3/4 | 922.82   | 3/4 | 1,282.57 | 3/4 | 1,642.67 | 3/4 | 2,002.78 | 3/4 | 2,362.82 | 3/4 | 2,722.82 | 3/4 | 3,082.28 | 3/4 | 3,440.52 |
| 7   | 210.15 | 7   | 570.24 | 7   | 930.32   | 7   | 1,290.07 | 7   | 1,650.18 | 7   | 2,010.28 | 7   | 2,370.32 | 7   | 2,730.32 | 7   | 3,089.77 | 7   | 3,447.99 |
| 1/4 | 217.65 | 1/4 | 577.75 | 1/4 | 937.81   | 1/4 | 1,297.57 | 1/4 | 1,657.68 | 1/4 | 2,017.78 | 1/4 | 2,377.82 | 1/4 | 2,737.82 | 1/4 | 3,097.26 | 1/4 | 3,455.46 |
| 1/2 | 225.16 | 1/2 | 585.25 | 1/2 | 945.30   | 1/2 | 1,305.08 | 1/2 | 1,665.18 | 1/2 | 2,025.29 | 1/2 | 2,385.32 | 1/2 | 2,745.32 | 1/2 | 3,104.74 | 1/2 | 3,462.93 |
| 3/4 | 232.66 | 3/4 | 592.75 | 3/4 | 952.79   | 3/4 | 1,312.58 | 3/4 | 1,672.68 | 3/4 | 2,032.79 | 3/4 | 2,392.82 | 3/4 | 2,752.82 | 3/4 | 3,112.23 | 3/4 | 3,470.40 |
| 8   | 240.16 | 8   | 600.25 | 8   | 960.29   | 8   | 1,320.08 | 8   | 1,680.19 | 8   | 2,040.29 | 8   | 2,400.32 | 8   | 2,760.32 | 8   | 3,119.72 | 8   | 3,477.86 |
| 1/4 | 247.66 | 1/4 | 607.75 | 1/4 | 967.78   | 1/4 | 1,327.58 | 1/4 | 1,687.69 | 1/4 | 2,047.79 | 1/4 | 2,407.82 | 1/4 | 2,767.82 | 1/4 | 3,127.20 | 1/4 | 3,485.33 |
| 1/2 | 255.16 | 1/2 | 615.25 | 1/2 | 975.27   | 1/2 | 1,335.08 | 1/2 | 1,695.19 | 1/2 | 2,055.29 | 1/2 | 2,415.32 | 1/2 | 2,775.32 | 1/2 | 3,134.69 | 1/2 | 3,492.80 |
| 3/4 | 262.67 | 3/4 | 622.76 | 3/4 | 982.77   | 3/4 | 1,342.59 | 3/4 | 1,702.69 | 3/4 | 2,062.79 | 3/4 | 2,422.82 | 3/4 | 2,782.82 | 3/4 | 3,142.17 | 3/4 | 3,500.27 |
| 9   | 270.17 | 9   | 630.26 | 9   | 990.26   | 9   | 1,350.09 | 9   | 1,710.19 | 9   | 2,070.29 | 9   | 2,430.32 | 9   | 2,790.32 | 9   | 3,149.66 | 9   | 3,507.73 |
| 1/4 | 277.67 | 1/4 | 637.76 | 1/4 | 997.75   | 1/4 | 1,357.59 | 1/4 | 1,717.70 | 1/4 | 2,077.79 | 1/4 | 2,437.82 | 1/4 | 2,797.80 | 1/4 | 3,157.11 | 1/4 | 3,515.17 |
| 1/2 | 285.17 | 1/2 | 645.26 | 1/2 | 1,005.24 | 1/2 | 1,365.09 | 1/2 | 1,725.20 | 1/2 | 2,085.29 | 1/2 | 2,445.32 | 1/2 | 2,805.29 | 1/2 | 3,164.56 | 1/2 | 3,515.80 |
| 3/4 | 292.67 | 3/4 | 652.76 | 3/4 | 1,012.74 | 3/4 | 1,372.60 | 3/4 | 1,732.70 | 3/4 | 2,092.80 | 3/4 | 2,452.82 | 3/4 | 2,812.78 | 3/4 | 3,172.02 | 3/4 | 3,519.84 |
| 10  | 300.18 | 10  | 660.27 | 10  | 1,020.23 | 10  | 1,380.10 | 10  | 1,740.20 | 10  | 2,100.30 | 10  | 2,460.32 | 10  | 2,820.26 | 10  | 3,179.47 | 10  | 3,523.87 |
| 1/4 | 307.68 | 1/4 | 667.77 | 1/4 | 1,027.72 | 1/4 | 1,387.60 | 1/4 | 1,747.71 | 1/4 | 2,107.80 | 1/4 | 2,467.83 | 1/4 | 2,827.75 | 1/4 | 3,186.92 | 1/4 | 3,527.91 |
| 1/2 | 315.18 | 1/2 | 675.27 | 1/2 | 1,035.22 | 1/2 | 1,395.10 | 1/2 | 1,755.21 | 1/2 | 2,115.30 | 1/2 | 2,475.33 | 1/2 | 2,835.24 | 1/2 | 3,194.37 | 1/2 | 3,531.94 |
| 3/4 | 322.68 | 3/4 | 682.77 | 3/4 | 1,042.71 | 3/4 | 1,402.60 | 3/4 | 1,762.71 | 3/4 | 2,122.80 | 3/4 | 2,482.83 | 3/4 | 2,842.72 | 3/4 | 3,201.82 | 3/4 | 3,535.97 |
| 11  | 330.18 | 11  | 690.27 | 11  | 1,050.20 | 11  | 1,410.11 | 11  | 1,770.21 | 11  | 2,130.30 | 11  | 2,490.33 | 11  | 2,850.21 | 11  | 3,209.28 | 11  | 3,540.01 |
| 1/4 | 337.68 | 1/4 | 697.77 | 1/4 | 1,057.69 | 1/4 | 1,417.61 | 1/4 | 1,777.71 | 1/4 | 2,137.80 | 1/4 | 2,497.83 | 1/4 | 2,857.70 | 1/4 | 3,216.73 | 1/4 | 3,544.04 |
| 1/2 | 345.19 | 1/2 | 705.28 | 1/2 | 1,065.19 | 1/2 | 1,425.11 | 1/2 | 1,785.22 | 1/2 | 2,145.30 | 1/2 | 2,505.33 | 1/2 | 2,865.18 | 1/2 | 3,224.18 | 1/2 | 3,548.08 |
| 3/4 | 352.69 | 3/4 | 712.78 | 3/4 | 1,072.68 | 3/4 | 1,432.61 | 3/4 | 1,792.72 | 3/4 | 2,152.80 | 3/4 | 2,512.83 | 3/4 | 2,872.67 | 3/4 | 3,231.63 | 3/4 | 3,552.11 |

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" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HBC 309"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08"

| 10 FT. |          | 11 FT. |          | 12 FT. |          | 13 FT. |          | 14 FT. |          | 15 FT. |  | 16 FT. |  | 17 FT. |  | 18 FT. |  | 19 FT. |  |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|--|--------|--|--------|--|--------|--|--------|--|
| IN     |          | IN     |          | IN     |          | IN     |          | IN     |          | IN     |  | IN     |  | IN     |  | IN     |  | IN     |  |
| 0      | 3,556.15 | 0      | 3,749.80 | 0      | 3,943.45 | 0      | 4,134.52 | 0      | 4,315.92 | 0      |  | 0      |  | 0      |  | 0      |  | 0      |  |
| 1/4    | 3,560.18 | 1/4    | 3,753.83 | 1/4    | 3,947.48 | 1/4    | 4,138.40 | 1/4    | 4,319.56 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,564.22 | 1/2    | 3,757.87 | 1/2    | 3,951.52 | 1/2    | 4,142.28 | 1/2    | 4,323.20 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,568.25 | 3/4    | 3,761.90 | 3/4    | 3,955.55 | 3/4    | 4,146.17 | 3/4    | 4,326.84 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 1      | 3,572.28 | 1      | 3,765.94 | 1      | 3,959.59 | 1      | 4,150.05 | 1      | 4,330.48 | 1      |  | 1      |  | 1      |  | 1      |  | 1      |  |
| 1/4    | 3,576.32 | 1/4    | 3,769.97 | 1/4    | 3,963.62 | 1/4    | 4,153.90 | 1/4    | 4,334.10 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,580.35 | 1/2    | 3,774.00 | 1/2    | 3,967.66 | 1/2    | 4,157.75 | 1/2    | 4,337.73 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,584.39 | 3/4    | 3,778.04 | 3/4    | 3,971.69 | 3/4    | 4,161.61 | 3/4    | 4,341.35 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 2      | 3,588.42 | 2      | 3,782.07 | 2      | 3,975.72 | 2      | 4,165.46 | 2      | 4,344.97 | 2      |  | 2      |  | 2      |  | 2      |  | 2      |  |
| 1/4    | 3,592.46 | 1/4    | 3,786.11 | 1/4    | 3,979.76 | 1/4    | 4,169.30 | 1/4    | 4,348.58 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,596.49 | 1/2    | 3,790.14 | 1/2    | 3,983.79 | 1/2    | 4,173.13 | 1/2    | 4,352.19 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,600.52 | 3/4    | 3,794.18 | 3/4    | 3,987.83 | 3/4    | 4,176.97 | 3/4    | 4,355.79 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 3      | 3,604.56 | 3      | 3,798.21 | 3      | 3,991.86 | 3      | 4,180.81 | 3      | 4,359.40 | 3      |  | 3      |  | 3      |  | 3      |  | 3      |  |
| 1/4    | 3,608.59 | 1/4    | 3,802.24 | 1/4    | 3,995.89 | 1/4    | 4,184.63 | 1/4    | 4,362.98 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,612.63 | 1/2    | 3,806.28 | 1/2    | 3,999.91 | 1/2    | 4,188.45 | 1/2    | 4,366.56 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,616.66 | 3/4    | 3,810.31 | 3/4    | 4,003.94 | 3/4    | 4,192.27 | 3/4    | 4,370.15 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 4      | 3,620.70 | 4      | 3,814.35 | 4      | 4,007.96 | 4      | 4,196.09 | 4      | 4,373.73 | 4      |  | 4      |  | 4      |  | 4      |  | 4      |  |
| 1/4    | 3,624.73 | 1/4    | 3,818.38 | 1/4    | 4,011.97 | 1/4    | 4,199.90 | 1/4    | 4,377.27 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,628.77 | 1/2    | 3,822.42 | 1/2    | 4,015.98 | 1/2    | 4,203.70 | 1/2    | 4,380.81 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,632.80 | 3/4    | 3,826.45 | 3/4    | 4,019.99 | 3/4    | 4,207.51 | 3/4    | 4,384.35 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 5      | 3,636.83 | 5      | 3,830.49 | 5      | 4,024.00 | 5      | 4,211.31 | 5      | 4,387.89 | 5      |  | 5      |  | 5      |  | 5      |  | 5      |  |
| 1/4    | 3,640.87 | 1/4    | 3,834.52 | 1/4    | 4,028.00 | 1/4    | 4,215.10 | 1/4    | 4,390.82 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,644.90 | 1/2    | 3,838.55 | 1/2    | 4,031.99 | 1/2    | 4,218.89 | 1/2    | 4,393.76 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,648.94 | 3/4    | 3,842.59 | 3/4    | 4,035.99 | 3/4    | 4,222.68 | 3/4    | 4,396.69 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 6      | 3,652.97 | 6      | 3,846.62 | 6      | 4,039.98 | 6      | 4,226.47 | 6      | 4,399.62 | 6      |  | 6      |  | 6      |  | 6      |  | 6      |  |
| 1/4    | 3,657.01 | 1/4    | 3,850.66 | 1/4    | 4,043.96 | 1/4    | 4,230.24 | 1/4    | 4,401.73 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,661.04 | 1/2    | 3,854.69 | 1/2    | 4,047.94 | 1/2    | 4,234.02 | 1/2    | 4,403.84 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,665.08 | 3/4    | 3,858.73 | 3/4    | 4,051.92 | 3/4    | 4,237.79 | 3/4    | 4,405.94 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 7      | 3,669.11 | 7      | 3,862.76 | 7      | 4,055.90 | 7      | 4,241.56 | 7      | 4,408.05 | 7      |  | 7      |  | 7      |  | 7      |  | 7      |  |
| 1/4    | 3,673.14 | 1/4    | 3,866.80 | 1/4    | 4,059.86 | 1/4    | 4,245.32 | 1/4    | 4,408.92 | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,677.18 | 1/2    | 3,870.83 | 1/2    | 4,063.82 | 1/2    | 4,249.08 | 1/2    | 4,409.79 | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,681.21 | 3/4    | 3,874.86 | 3/4    | 4,067.78 | 3/4    | 4,252.84 | 3/4    | 4,410.66 | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 8      | 3,685.25 | 8      | 3,878.90 | 8      | 4,071.75 | 8      | 4,256.59 | 8      | 4,411.53 | 8      |  | 8      |  | 8      |  | 8      |  | 8      |  |
| 1/4    | 3,689.28 | 1/4    | 3,882.93 | 1/4    | 4,075.69 | 1/4    | 4,260.33 | 1/4    |          | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,693.32 | 1/2    | 3,886.97 | 1/2    | 4,079.64 | 1/2    | 4,264.08 | 1/2    |          | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,697.35 | 3/4    | 3,891.00 | 3/4    | 4,083.59 | 3/4    | 4,267.82 | 3/4    |          | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 9      | 3,701.38 | 9      | 3,895.04 | 9      | 4,087.53 | 9      | 4,271.56 | 9      |          | 9      |  | 9      |  | 9      |  | 9      |  | 9      |  |
| 1/4    | 3,705.42 | 1/4    | 3,899.07 | 1/4    | 4,091.47 | 1/4    | 4,275.29 | 1/4    |          | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,709.45 | 1/2    | 3,903.10 | 1/2    | 4,095.40 | 1/2    | 4,279.01 | 1/2    |          | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,713.49 | 3/4    | 3,907.14 | 3/4    | 4,099.33 | 3/4    | 4,282.74 | 3/4    |          | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 10     | 3,717.52 | 10     | 3,911.17 | 10     | 4,103.26 | 10     | 4,286.46 | 10     |          | 10     |  | 10     |  | 10     |  | 10     |  | 10     |  |
| 1/4    | 3,721.56 | 1/4    | 3,915.21 | 1/4    | 4,107.17 | 1/4    | 4,290.17 | 1/4    |          | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,725.59 | 1/2    | 3,919.24 | 1/2    | 4,111.09 | 1/2    | 4,293.88 | 1/2    |          | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,729.63 | 3/4    | 3,923.28 | 3/4    | 4,115.00 | 3/4    | 4,297.59 | 3/4    |          | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |
| 11     | 3,733.66 | 11     | 3,927.31 | 11     | 4,118.92 | 11     | 4,301.30 | 11     |          | 11     |  | 11     |  | 11     |  | 11     |  | 11     |  |
| 1/4    | 3,737.69 | 1/4    | 3,931.35 | 1/4    | 4,122.82 | 1/4    | 4,304.96 | 1/4    |          | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  | 1/4    |  |
| 1/2    | 3,741.73 | 1/2    | 3,935.38 | 1/2    | 4,126.72 | 1/2    | 4,308.61 | 1/2    |          | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  | 1/2    |  |
| 3/4    | 3,745.76 | 3/4    | 3,939.41 | 3/4    | 4,130.62 | 3/4    | 4,312.27 | 3/4    |          | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  | 3/4    |  |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/08/2013 CL  
CALCULATED: 08/08/2013 CL  
PRINTED: 08/08/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "HBC 309"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 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   | 22.81  | 0   | 359.67 | 0   | 719.20   | 0   | 1,067.01 | 0   | 1,420.09 | 0   | 1,779.03 | 0   | 2,138.44 | 0   | 2,497.79 | 0   | 2,856.94 | 0   | 3,215.02 |
| 1/4 | 27.18  | 1/4 | 367.16 | 1/4 | 726.69   | 1/4 | 1,074.16 | 1/4 | 1,427.52 | 1/4 | 1,786.52 | 1/4 | 2,145.92 | 1/4 | 2,505.27 | 1/4 | 2,864.41 | 1/4 | 3,222.46 |
| 1/2 | 31.56  | 1/2 | 374.65 | 1/2 | 734.18   | 1/2 | 1,081.31 | 1/2 | 1,434.94 | 1/2 | 1,794.01 | 1/2 | 2,153.41 | 1/2 | 2,512.76 | 1/2 | 2,871.88 | 1/2 | 3,229.89 |
| 3/4 | 35.93  | 3/4 | 382.14 | 3/4 | 741.67   | 3/4 | 1,088.47 | 3/4 | 1,442.37 | 3/4 | 1,801.49 | 3/4 | 2,160.89 | 3/4 | 2,520.25 | 3/4 | 2,879.36 | 3/4 | 3,237.33 |
| 1   | 40.31  | 1   | 389.63 | 1   | 749.16   | 1   | 1,095.62 | 1   | 1,449.79 | 1   | 1,808.98 | 1   | 2,168.38 | 1   | 2,527.73 | 1   | 2,886.83 | 1   | 3,244.77 |
| 1/4 | 45.92  | 1/4 | 397.12 | 1/4 | 756.65   | 1/4 | 1,102.77 | 1/4 | 1,457.22 | 1/4 | 1,816.47 | 1/4 | 2,175.87 | 1/4 | 2,535.22 | 1/4 | 2,894.29 | 1/4 | 3,252.21 |
| 1/2 | 51.54  | 1/2 | 404.61 | 1/2 | 764.14   | 1/2 | 1,109.92 | 1/2 | 1,464.65 | 1/2 | 1,823.96 | 1/2 | 2,183.35 | 1/2 | 2,542.71 | 1/2 | 2,901.76 | 1/2 | 3,259.65 |
| 3/4 | 57.15  | 3/4 | 412.10 | 3/4 | 771.63   | 3/4 | 1,117.08 | 3/4 | 1,472.07 | 3/4 | 1,831.45 | 3/4 | 2,190.84 | 3/4 | 2,550.19 | 3/4 | 2,909.22 | 3/4 | 3,267.08 |
| 2   | 62.77  | 2   | 419.59 | 2   | 779.12   | 2   | 1,124.23 | 2   | 1,479.50 | 2   | 1,838.93 | 2   | 2,198.33 | 2   | 2,557.68 | 2   | 2,916.69 | 2   | 3,274.52 |
| 1/4 | 69.62  | 1/4 | 427.08 | 1/4 | 786.61   | 1/4 | 1,131.38 | 1/4 | 1,486.99 | 1/4 | 1,846.42 | 1/4 | 2,205.81 | 1/4 | 2,565.17 | 1/4 | 2,924.15 | 1/4 | 3,281.96 |
| 1/2 | 76.47  | 1/2 | 434.57 | 1/2 | 794.10   | 1/2 | 1,138.53 | 1/2 | 1,494.48 | 1/2 | 1,853.91 | 1/2 | 2,213.30 | 1/2 | 2,572.65 | 1/2 | 2,931.62 | 1/2 | 3,289.40 |
| 3/4 | 83.33  | 3/4 | 442.06 | 3/4 | 801.59   | 3/4 | 1,145.69 | 3/4 | 1,501.97 | 3/4 | 1,861.40 | 3/4 | 2,220.79 | 3/4 | 2,580.14 | 3/4 | 2,939.08 | 3/4 | 3,296.84 |
| 3   | 90.18  | 3   | 449.55 | 3   | 809.08   | 3   | 1,152.84 | 3   | 1,509.45 | 3   | 1,868.89 | 3   | 2,228.27 | 3   | 2,587.63 | 3   | 2,946.55 | 3   | 3,304.27 |
| 1/4 | 97.63  | 1/4 | 457.04 | 1/4 | 816.29   | 1/4 | 1,160.28 | 1/4 | 1,516.94 | 1/4 | 1,876.38 | 1/4 | 2,235.76 | 1/4 | 2,595.11 | 1/4 | 2,954.01 | 1/4 | 3,311.73 |
| 1/2 | 105.09 | 1/2 | 464.53 | 1/2 | 823.50   | 1/2 | 1,167.71 | 1/2 | 1,524.43 | 1/2 | 1,883.86 | 1/2 | 2,243.25 | 1/2 | 2,602.60 | 1/2 | 2,961.48 | 1/2 | 3,319.18 |
| 3/4 | 112.54 | 3/4 | 472.02 | 3/4 | 830.70   | 3/4 | 1,175.15 | 3/4 | 1,531.92 | 3/4 | 1,891.35 | 3/4 | 2,250.73 | 3/4 | 2,610.08 | 3/4 | 2,968.94 | 3/4 | 3,326.64 |
| 4   | 120.00 | 4   | 479.51 | 4   | 837.91   | 4   | 1,182.58 | 4   | 1,539.41 | 4   | 1,898.84 | 4   | 2,258.22 | 4   | 2,617.57 | 4   | 2,976.40 | 4   | 3,334.09 |
| 1/4 | 127.49 | 1/4 | 487.00 | 1/4 | 845.09   | 1/4 | 1,189.99 | 1/4 | 1,546.89 | 1/4 | 1,906.33 | 1/4 | 2,265.71 | 1/4 | 2,625.05 | 1/4 | 2,983.87 | 1/4 | 3,341.54 |
| 1/2 | 134.97 | 1/2 | 494.49 | 1/2 | 852.27   | 1/2 | 1,197.40 | 1/2 | 1,554.38 | 1/2 | 1,913.82 | 1/2 | 2,273.19 | 1/2 | 2,632.54 | 1/2 | 2,991.33 | 1/2 | 3,349.00 |
| 3/4 | 142.46 | 3/4 | 501.98 | 3/4 | 859.44   | 3/4 | 1,204.81 | 3/4 | 1,561.87 | 3/4 | 1,921.30 | 3/4 | 2,280.68 | 3/4 | 2,640.02 | 3/4 | 2,998.80 | 3/4 | 3,356.45 |
| 5   | 149.94 | 5   | 509.47 | 5   | 866.62   | 5   | 1,212.21 | 5   | 1,569.36 | 5   | 1,928.79 | 5   | 2,288.17 | 5   | 2,647.51 | 5   | 3,006.26 | 5   | 3,363.90 |
| 1/4 | 157.43 | 1/4 | 516.96 | 1/4 | 873.80   | 1/4 | 1,219.62 | 1/4 | 1,576.85 | 1/4 | 1,936.28 | 1/4 | 2,295.65 | 1/4 | 2,654.99 | 1/4 | 3,013.73 | 1/4 | 3,371.36 |
| 1/2 | 164.92 | 1/2 | 524.45 | 1/2 | 880.98   | 1/2 | 1,227.03 | 1/2 | 1,584.34 | 1/2 | 1,943.77 | 1/2 | 2,303.14 | 1/2 | 2,662.48 | 1/2 | 3,021.19 | 1/2 | 3,378.81 |
| 3/4 | 172.41 | 3/4 | 531.94 | 3/4 | 888.16   | 3/4 | 1,234.44 | 3/4 | 1,591.82 | 3/4 | 1,951.26 | 3/4 | 2,310.62 | 3/4 | 2,669.96 | 3/4 | 3,028.66 | 3/4 | 3,386.26 |
| 6   | 179.90 | 6   | 539.43 | 6   | 895.34   | 6   | 1,241.85 | 6   | 1,599.31 | 6   | 1,958.75 | 6   | 2,318.11 | 6   | 2,677.45 | 6   | 3,036.12 | 6   | 3,393.72 |
| 1/4 | 187.39 | 1/4 | 546.92 | 1/4 | 902.49   | 1/4 | 1,249.28 | 1/4 | 1,606.80 | 1/4 | 1,966.23 | 1/4 | 2,325.60 | 1/4 | 2,684.93 | 1/4 | 3,043.59 | 1/4 | 3,401.17 |
| 1/2 | 194.88 | 1/2 | 554.41 | 1/2 | 909.65   | 1/2 | 1,256.71 | 1/2 | 1,614.29 | 1/2 | 1,973.72 | 1/2 | 2,333.08 | 1/2 | 2,692.42 | 1/2 | 3,051.05 | 1/2 | 3,408.63 |
| 3/4 | 202.37 | 3/4 | 561.90 | 3/4 | 916.80   | 3/4 | 1,264.13 | 3/4 | 1,621.78 | 3/4 | 1,981.21 | 3/4 | 2,340.57 | 3/4 | 2,699.90 | 3/4 | 3,058.52 | 3/4 | 3,416.08 |
| 7   | 209.86 | 7   | 569.40 | 7   | 923.96   | 7   | 1,271.56 | 7   | 1,629.26 | 7   | 1,988.70 | 7   | 2,348.06 | 7   | 2,707.39 | 7   | 3,065.98 | 7   | 3,423.53 |
| 1/4 | 217.35 | 1/4 | 576.89 | 1/4 | 931.11   | 1/4 | 1,278.99 | 1/4 | 1,636.75 | 1/4 | 1,996.19 | 1/4 | 2,355.54 | 1/4 | 2,714.87 | 1/4 | 3,073.45 | 1/4 | 3,430.99 |
| 1/2 | 224.84 | 1/2 | 584.38 | 1/2 | 938.26   | 1/2 | 1,286.41 | 1/2 | 1,644.24 | 1/2 | 2,003.67 | 1/2 | 2,363.03 | 1/2 | 2,722.36 | 1/2 | 3,080.93 | 1/2 | 3,438.44 |
| 3/4 | 232.33 | 3/4 | 591.87 | 3/4 | 945.41   | 3/4 | 1,293.84 | 3/4 | 1,651.73 | 3/4 | 2,011.16 | 3/4 | 2,370.52 | 3/4 | 2,729.84 | 3/4 | 3,088.40 | 3/4 | 3,445.89 |
| 8   | 239.82 | 8   | 599.36 | 8   | 952.57   | 8   | 1,301.26 | 8   | 1,659.22 | 8   | 2,018.65 | 8   | 2,378.00 | 8   | 2,737.33 | 8   | 3,095.87 | 8   | 3,453.35 |
| 1/4 | 247.31 | 1/4 | 606.85 | 1/4 | 959.72   | 1/4 | 1,308.69 | 1/4 | 1,666.71 | 1/4 | 2,026.14 | 1/4 | 2,385.49 | 1/4 | 2,744.81 | 1/4 | 3,103.34 | 1/4 | 3,460.80 |
| 1/2 | 254.80 | 1/2 | 614.34 | 1/2 | 966.87   | 1/2 | 1,316.12 | 1/2 | 1,674.19 | 1/2 | 2,033.62 | 1/2 | 2,392.98 | 1/2 | 2,752.30 | 1/2 | 3,110.82 | 1/2 | 3,468.25 |
| 3/4 | 262.29 | 3/4 | 621.83 | 3/4 | 974.02   | 3/4 | 1,323.54 | 3/4 | 1,681.68 | 3/4 | 2,041.11 | 3/4 | 2,400.46 | 3/4 | 2,759.78 | 3/4 | 3,118.29 | 3/4 | 3,475.71 |
| 9   | 269.78 | 9   | 629.32 | 9   | 981.18   | 9   | 1,330.97 | 9   | 1,689.17 | 9   | 2,048.60 | 9   | 2,407.95 | 9   | 2,767.27 | 9   | 3,125.76 | 9   | 3,483.16 |
| 1/4 | 277.27 | 1/4 | 636.81 | 1/4 | 988.33   | 1/4 | 1,338.40 | 1/4 | 1,696.66 | 1/4 | 2,056.08 | 1/4 | 2,415.44 | 1/4 | 2,774.74 | 1/4 | 3,133.20 | 1/4 | 3,488.18 |
| 1/2 | 284.76 | 1/2 | 644.30 | 1/2 | 995.48   | 1/2 | 1,345.82 | 1/2 | 1,704.15 | 1/2 | 2,063.57 | 1/2 | 2,422.92 | 1/2 | 2,782.22 | 1/2 | 3,140.64 | 1/2 | 3,491.20 |
| 3/4 | 292.25 | 3/4 | 651.79 | 3/4 | 1,002.64 | 3/4 | 1,353.25 | 3/4 | 1,711.63 | 3/4 | 2,071.06 | 3/4 | 2,430.41 | 3/4 | 2,789.69 | 3/4 | 3,148.07 | 3/4 | 3,495.22 |
| 10  | 299.74 | 10  | 659.28 | 10  | 1,009.79 | 10  | 1,360.68 | 10  | 1,719.12 | 10  | 2,078.54 | 10  | 2,437.90 | 10  | 2,797.16 | 10  | 3,155.51 | 10  | 3,499.24 |
| 1/4 | 307.23 | 1/4 | 666.77 | 1/4 | 1,016.94 | 1/4 | 1,368.10 | 1/4 | 1,726.61 | 1/4 | 2,086.03 | 1/4 | 2,445.38 | 1/4 | 2,804.63 | 1/4 | 3,162.95 | 1/4 | 3,503.26 |
| 1/2 | 314.72 | 1/2 | 674.26 | 1/2 | 1,024.09 | 1/2 | 1,375.53 | 1/2 | 1,734.10 | 1/2 | 2,093.52 | 1/2 | 2,452.87 | 1/2 | 2,812.11 | 1/2 | 3,170.39 | 1/2 | 3,507.28 |
| 3/4 | 322.21 | 3/4 | 681.75 | 3/4 | 1,031.25 | 3/4 | 1,382.96 | 3/4 | 1,741.59 | 3/4 | 2,101.00 | 3/4 | 2,460.35 | 3/4 | 2,819.58 | 3/4 | 3,177.83 | 3/4 | 3,511.30 |
| 11  | 329.71 | 11  | 689.24 | 11  | 1,038.40 | 11  | 1,390.38 | 11  | 1,749.08 | 11  | 2,108.49 | 11  | 2,467.84 | 11  | 2,827.05 | 11  | 3,185.27 | 11  | 3,515.32 |
| 1/4 | 337.20 | 1/4 | 696.73 | 1/4 | 1,045.55 | 1/4 | 1,397.81 | 1/4 | 1,756.56 | 1/4 | 2,115.98 | 1/4 | 2,475.33 | 1/4 | 2,834.52 | 1/4 | 3,192.70 | 1/4 | 3,519.34 |
| 1/2 | 344.69 | 1/2 | 704.22 | 1/2 | 1,052.70 | 1/2 | 1,405.24 | 1/2 | 1,764.05 | 1/2 | 2,123.46 | 1/2 | 2,482.81 | 1/2 | 2,841.99 | 1/2 | 3,200.14 | 1/2 | 3,523.36 |
| 3/4 | 352.18 | 3/4 | 711.71 | 3/4 | 1,059.86 | 3/4 | 1,412.66 | 3/4 | 1,771.54 | 3/4 | 2,130.95 | 3/4 | 2,490.30 | 3/4 | 2,849.47 | 3/4 | 3,207.58 | 3/4 | 3,527.38 |

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" HERMETIC CLOSED GAUGING VALVE.

GAUGE POINT: (HERMETIC) LOCATED 10'-06" OFF CENTERLINE AND 55'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HBC 309"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-08 1/4"

| IN  | 10 FT.   | IN  | 11 FT.   | IN  | 12 FT.   | IN  | 13 FT.   | IN  | 14 FT.   | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 3,531.40 | 0   | 3,724.38 | 0   | 3,917.35 | 0   | 4,107.76 | 0   | 4,288.49 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 3,535.42 | 1/4 | 3,728.40 | 1/4 | 3,921.37 | 1/4 | 4,111.63 | 1/4 | 4,292.12 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,539.45 | 1/2 | 3,732.42 | 1/2 | 3,925.39 | 1/2 | 4,115.49 | 1/2 | 4,295.74 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,543.47 | 3/4 | 3,736.44 | 3/4 | 3,929.41 | 3/4 | 4,119.36 | 3/4 | 4,299.37 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 3,547.49 | 1   | 3,740.46 | 1   | 3,933.43 | 1   | 4,123.23 | 1   | 4,302.99 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 3,551.51 | 1/4 | 3,744.48 | 1/4 | 3,937.45 | 1/4 | 4,127.07 | 1/4 | 4,306.60 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,555.53 | 1/2 | 3,748.50 | 1/2 | 3,941.48 | 1/2 | 4,130.91 | 1/2 | 4,310.21 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,559.55 | 3/4 | 3,752.52 | 3/4 | 3,945.50 | 3/4 | 4,134.75 | 3/4 | 4,313.82 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 3,563.57 | 2   | 3,756.54 | 2   | 3,949.52 | 2   | 4,138.59 | 2   | 4,317.43 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 3,567.59 | 1/4 | 3,760.56 | 1/4 | 3,953.54 | 1/4 | 4,142.41 | 1/4 | 4,321.02 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,571.61 | 1/2 | 3,764.58 | 1/2 | 3,957.56 | 1/2 | 4,146.23 | 1/2 | 4,324.62 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,575.63 | 3/4 | 3,768.60 | 3/4 | 3,961.58 | 3/4 | 4,150.06 | 3/4 | 4,328.21 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 3,579.65 | 3   | 3,772.62 | 3   | 3,965.60 | 3   | 4,153.88 | 3   | 4,331.80 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 3,583.67 | 1/4 | 3,776.64 | 1/4 | 3,969.61 | 1/4 | 4,157.69 | 1/4 | 4,335.37 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,587.69 | 1/2 | 3,780.66 | 1/2 | 3,973.62 | 1/2 | 4,161.49 | 1/2 | 4,338.94 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,591.71 | 3/4 | 3,784.68 | 3/4 | 3,977.64 | 3/4 | 4,165.30 | 3/4 | 4,342.50 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 3,595.73 | 4   | 3,788.70 | 4   | 3,981.65 | 4   | 4,169.11 | 4   | 4,346.07 | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 3,599.75 | 1/4 | 3,792.72 | 1/4 | 3,985.65 | 1/4 | 4,172.90 | 1/4 | 4,349.60 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,603.77 | 1/2 | 3,796.74 | 1/2 | 3,989.64 | 1/2 | 4,176.69 | 1/2 | 4,353.12 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,607.79 | 3/4 | 3,800.76 | 3/4 | 3,993.64 | 3/4 | 4,180.48 | 3/4 | 4,356.65 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 3,611.81 | 5   | 3,804.79 | 5   | 3,997.64 | 5   | 4,184.27 | 5   | 4,360.18 | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 3,615.83 | 1/4 | 3,808.81 | 1/4 | 4,001.62 | 1/4 | 4,188.05 | 1/4 | 4,363.10 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,619.85 | 1/2 | 3,812.83 | 1/2 | 4,005.60 | 1/2 | 4,191.82 | 1/2 | 4,366.02 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,623.87 | 3/4 | 3,816.85 | 3/4 | 4,009.58 | 3/4 | 4,195.60 | 3/4 | 4,368.94 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 3,627.89 | 6   | 3,820.87 | 6   | 4,013.56 | 6   | 4,199.37 | 6   | 4,371.86 | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 3,631.91 | 1/4 | 3,824.89 | 1/4 | 4,017.52 | 1/4 | 4,203.13 | 1/4 | 4,373.95 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,635.93 | 1/2 | 3,828.91 | 1/2 | 4,021.49 | 1/2 | 4,206.89 | 1/2 | 4,376.04 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,639.95 | 3/4 | 3,832.93 | 3/4 | 4,025.45 | 3/4 | 4,210.65 | 3/4 | 4,378.13 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 3,643.97 | 7   | 3,836.95 | 7   | 4,029.42 | 7   | 4,214.41 | 7   | 4,380.22 | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 3,647.99 | 1/4 | 3,840.97 | 1/4 | 4,033.37 | 1/4 | 4,218.16 | 1/4 | 4,381.08 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,652.01 | 1/2 | 3,844.99 | 1/2 | 4,037.31 | 1/2 | 4,221.90 | 1/2 | 4,381.94 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,656.03 | 3/4 | 3,849.01 | 3/4 | 4,041.26 | 3/4 | 4,225.64 | 3/4 | 4,382.79 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 3,660.05 | 8   | 3,853.03 | 8   | 4,045.21 | 8   | 4,229.39 | 8   | 4,383.65 | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 3,664.07 | 1/4 | 3,857.05 | 1/4 | 4,049.14 | 1/4 | 4,233.11 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,668.09 | 1/2 | 3,861.07 | 1/2 | 4,053.08 | 1/2 | 4,236.84 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,672.12 | 3/4 | 3,865.09 | 3/4 | 4,057.01 | 3/4 | 4,240.57 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 3,676.14 | 9   | 3,869.11 | 9   | 4,060.94 | 9   | 4,244.30 | 9   |          | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 3,680.16 | 1/4 | 3,873.13 | 1/4 | 4,064.86 | 1/4 | 4,248.01 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,684.18 | 1/2 | 3,877.15 | 1/2 | 4,068.78 | 1/2 | 4,251.72 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,688.20 | 3/4 | 3,881.17 | 3/4 | 4,072.69 | 3/4 | 4,255.43 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 3,692.22 | 10  | 3,885.19 | 10  | 4,076.61 | 10  | 4,259.14 | 10  |          | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 3,696.24 | 1/4 | 3,889.21 | 1/4 | 4,080.51 | 1/4 | 4,262.84 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,700.26 | 1/2 | 3,893.23 | 1/2 | 4,084.41 | 1/2 | 4,266.53 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,704.28 | 3/4 | 3,897.25 | 3/4 | 4,088.31 | 3/4 | 4,270.23 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 3,708.30 | 11  | 3,901.27 | 11  | 4,092.22 | 11  | 4,273.93 | 11  |          | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 3,712.32 | 1/4 | 3,905.29 | 1/4 | 4,096.10 | 1/4 | 4,277.57 | 1/4 |          | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 3,716.34 | 1/2 | 3,909.31 | 1/2 | 4,099.99 | 1/2 | 4,281.21 | 1/2 |          | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 3,720.36 | 3/4 | 3,913.33 | 3/4 | 4,103.87 | 3/4 | 4,284.85 | 3/4 |          | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/08/2013 CL  
CALCULATED: 08/08/2013 CL  
PRINTED: 08/08/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2013

PRECISION MEASUREMENT  
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