



# BARGE "CBC 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 | - 00-0/8   | 00-0/8       | - 00-0/8   | 00-0/8       | - 00-0/8   | 00-0/8       | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       |
| 1 STBD | - 00-0/8   | 00-0/8       | - 00-0/8   | 00-0/8       | - 00-0/8   | 00-0/8       | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       |
| 2 PORT | - 00-0/8   | 00-0/8       | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       | - 00-1/4   | 00-1/4       | - 00-1/4   | 00-1/4       |
| 2 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       | - 00-1/4   | 00-1/4       |
| 3 PORT | - 00-0/8   | 00-0/8       | - 00-0/8   | 00-0/8       | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       |
| 3 STBD | - 00-0/8   | 00-0/8       | - 00-0/8   | 00-0/8       | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       |

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 6'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 238'-03"

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PRECISION MEASUREMENT  
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# BARGE "CBC 309"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 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   | 585    | 0   | 13,233 | 0   | 28,414 | 0   | 44,037 | 0   | 59,735 | 0   | 75,449 | 0   | 91,164  | 0   | 106,878 | 0   | 122,592 | 0   | 138,304 |
| 1/4 | 719    | 1/4 | 13,534 | 1/4 | 28,741 | 1/4 | 44,361 | 1/4 | 60,063 | 1/4 | 75,777 | 1/4 | 91,491  | 1/4 | 107,205 | 1/4 | 122,919 | 1/4 | 138,632 |
| 1/2 | 854    | 1/2 | 13,835 | 1/2 | 29,068 | 1/2 | 44,686 | 1/2 | 60,390 | 1/2 | 76,104 | 1/2 | 91,818  | 1/2 | 107,532 | 1/2 | 123,247 | 1/2 | 138,959 |
| 3/4 | 989    | 3/4 | 14,136 | 3/4 | 29,396 | 3/4 | 45,010 | 3/4 | 60,717 | 3/4 | 76,432 | 3/4 | 92,146  | 3/4 | 107,860 | 3/4 | 123,574 | 3/4 | 139,286 |
| 1   | 1,124  | 1   | 14,437 | 1   | 29,723 | 1   | 45,335 | 1   | 61,045 | 1   | 76,759 | 1   | 92,473  | 1   | 108,187 | 1   | 123,901 | 1   | 139,614 |
| 1/4 | 1,336  | 1/4 | 14,742 | 1/4 | 30,051 | 1/4 | 45,662 | 1/4 | 61,372 | 1/4 | 77,086 | 1/4 | 92,800  | 1/4 | 108,515 | 1/4 | 124,229 | 1/4 | 139,941 |
| 1/2 | 1,548  | 1/2 | 15,046 | 1/2 | 30,378 | 1/2 | 45,989 | 1/2 | 61,700 | 1/2 | 77,414 | 1/2 | 93,128  | 1/2 | 108,842 | 1/2 | 124,556 | 1/2 | 140,268 |
| 3/4 | 1,761  | 3/4 | 15,350 | 3/4 | 30,705 | 3/4 | 46,315 | 3/4 | 62,027 | 3/4 | 77,741 | 3/4 | 93,455  | 3/4 | 109,169 | 3/4 | 124,883 | 3/4 | 140,596 |
| 2   | 1,973  | 2   | 15,655 | 2   | 31,033 | 2   | 46,642 | 2   | 62,354 | 2   | 78,068 | 2   | 93,783  | 2   | 109,497 | 2   | 125,211 | 2   | 140,923 |
| 1/4 | 2,233  | 1/4 | 15,963 | 1/4 | 31,360 | 1/4 | 46,969 | 1/4 | 62,682 | 1/4 | 78,396 | 1/4 | 94,110  | 1/4 | 109,824 | 1/4 | 125,538 | 1/4 | 141,250 |
| 1/2 | 2,494  | 1/2 | 16,270 | 1/2 | 31,687 | 1/2 | 47,296 | 1/2 | 63,009 | 1/2 | 78,723 | 1/2 | 94,437  | 1/2 | 110,151 | 1/2 | 125,866 | 1/2 | 141,577 |
| 3/4 | 2,754  | 3/4 | 16,578 | 3/4 | 32,015 | 3/4 | 47,623 | 3/4 | 63,336 | 3/4 | 79,051 | 3/4 | 94,765  | 3/4 | 110,479 | 3/4 | 126,193 | 3/4 | 141,905 |
| 3   | 3,015  | 3   | 16,886 | 3   | 32,342 | 3   | 47,950 | 3   | 63,664 | 3   | 79,378 | 3   | 95,092  | 3   | 110,806 | 3   | 126,520 | 3   | 142,232 |
| 1/4 | 3,284  | 1/4 | 17,197 | 1/4 | 32,668 | 1/4 | 48,277 | 1/4 | 63,991 | 1/4 | 79,705 | 1/4 | 95,419  | 1/4 | 111,134 | 1/4 | 126,848 | 1/4 | 142,559 |
| 1/2 | 3,554  | 1/2 | 17,508 | 1/2 | 32,993 | 1/2 | 48,605 | 1/2 | 64,319 | 1/2 | 80,033 | 1/2 | 95,747  | 1/2 | 111,461 | 1/2 | 127,175 | 1/2 | 142,887 |
| 3/4 | 3,824  | 3/4 | 17,819 | 3/4 | 33,319 | 3/4 | 48,932 | 3/4 | 64,646 | 3/4 | 80,360 | 3/4 | 96,074  | 3/4 | 111,788 | 3/4 | 127,502 | 3/4 | 143,214 |
| 4   | 4,094  | 4   | 18,131 | 4   | 33,645 | 4   | 49,259 | 4   | 64,973 | 4   | 80,687 | 4   | 96,402  | 4   | 112,116 | 4   | 127,830 | 4   | 143,541 |
| 1/4 | 4,367  | 1/4 | 18,445 | 1/4 | 33,970 | 1/4 | 49,587 | 1/4 | 65,301 | 1/4 | 81,015 | 1/4 | 96,729  | 1/4 | 112,443 | 1/4 | 128,157 | 1/4 | 143,869 |
| 1/2 | 4,641  | 1/2 | 18,760 | 1/2 | 34,295 | 1/2 | 49,914 | 1/2 | 65,628 | 1/2 | 81,342 | 1/2 | 97,056  | 1/2 | 112,770 | 1/2 | 128,485 | 1/2 | 144,196 |
| 3/4 | 4,914  | 3/4 | 19,074 | 3/4 | 34,621 | 3/4 | 50,241 | 3/4 | 65,955 | 3/4 | 81,670 | 3/4 | 97,384  | 3/4 | 113,098 | 3/4 | 128,812 | 3/4 | 144,523 |
| 5   | 5,188  | 5   | 19,389 | 5   | 34,946 | 5   | 50,569 | 5   | 66,283 | 5   | 81,997 | 5   | 97,711  | 5   | 113,425 | 5   | 129,139 | 5   | 144,850 |
| 1/4 | 5,465  | 1/4 | 19,707 | 1/4 | 35,271 | 1/4 | 50,896 | 1/4 | 66,610 | 1/4 | 82,324 | 1/4 | 98,038  | 1/4 | 113,753 | 1/4 | 129,467 | 1/4 | 145,178 |
| 1/2 | 5,742  | 1/2 | 20,025 | 1/2 | 35,596 | 1/2 | 51,223 | 1/2 | 66,938 | 1/2 | 82,652 | 1/2 | 98,366  | 1/2 | 114,080 | 1/2 | 129,794 | 1/2 | 145,505 |
| 3/4 | 6,019  | 3/4 | 20,343 | 3/4 | 35,920 | 3/4 | 51,551 | 3/4 | 67,265 | 3/4 | 82,979 | 3/4 | 98,693  | 3/4 | 114,407 | 3/4 | 130,121 | 3/4 | 145,832 |
| 6   | 6,296  | 6   | 20,661 | 6   | 36,245 | 6   | 51,878 | 6   | 67,592 | 6   | 83,306 | 6   | 99,021  | 6   | 114,735 | 6   | 130,449 | 6   | 146,160 |
| 1/4 | 6,577  | 1/4 | 20,982 | 1/4 | 36,570 | 1/4 | 52,206 | 1/4 | 67,920 | 1/4 | 83,634 | 1/4 | 99,348  | 1/4 | 115,062 | 1/4 | 130,776 | 1/4 | 146,487 |
| 1/2 | 6,857  | 1/2 | 21,304 | 1/2 | 36,894 | 1/2 | 52,533 | 1/2 | 68,247 | 1/2 | 83,961 | 1/2 | 99,675  | 1/2 | 115,389 | 1/2 | 131,104 | 1/2 | 146,814 |
| 3/4 | 7,138  | 3/4 | 21,625 | 3/4 | 37,219 | 3/4 | 52,860 | 3/4 | 68,575 | 3/4 | 84,289 | 3/4 | 100,003 | 3/4 | 115,717 | 3/4 | 131,431 | 3/4 | 147,142 |
| 7   | 7,418  | 7   | 21,947 | 7   | 37,544 | 7   | 53,188 | 7   | 68,902 | 7   | 84,616 | 7   | 100,330 | 7   | 116,044 | 7   | 131,758 | 7   | 147,469 |
| 1/4 | 7,702  | 1/4 | 22,264 | 1/4 | 37,868 | 1/4 | 53,515 | 1/4 | 69,229 | 1/4 | 84,943 | 1/4 | 100,658 | 1/4 | 116,372 | 1/4 | 132,086 | 1/4 | 147,796 |
| 1/2 | 7,986  | 1/2 | 22,581 | 1/2 | 38,193 | 1/2 | 53,843 | 1/2 | 69,557 | 1/2 | 85,271 | 1/2 | 100,985 | 1/2 | 116,699 | 1/2 | 132,413 | 1/2 | 148,123 |
| 3/4 | 8,270  | 3/4 | 22,898 | 3/4 | 38,518 | 3/4 | 54,170 | 3/4 | 69,884 | 3/4 | 85,598 | 3/4 | 101,312 | 3/4 | 117,026 | 3/4 | 132,740 | 3/4 | 148,451 |
| 8   | 8,554  | 8   | 23,215 | 8   | 38,842 | 8   | 54,497 | 8   | 70,211 | 8   | 85,926 | 8   | 101,640 | 8   | 117,354 | 8   | 133,068 | 8   | 148,778 |
| 1/4 | 8,842  | 1/4 | 23,534 | 1/4 | 39,167 | 1/4 | 54,825 | 1/4 | 70,539 | 1/4 | 86,253 | 1/4 | 101,967 | 1/4 | 117,681 | 1/4 | 133,395 | 1/4 | 149,105 |
| 1/2 | 9,129  | 1/2 | 23,853 | 1/2 | 39,491 | 1/2 | 55,152 | 1/2 | 70,866 | 1/2 | 86,580 | 1/2 | 102,294 | 1/2 | 118,009 | 1/2 | 133,722 | 1/2 | 149,433 |
| 3/4 | 9,416  | 3/4 | 24,171 | 3/4 | 39,816 | 3/4 | 55,479 | 3/4 | 71,194 | 3/4 | 86,908 | 3/4 | 102,622 | 3/4 | 118,336 | 3/4 | 134,050 | 3/4 | 149,760 |
| 9   | 9,704  | 9   | 24,490 | 9   | 40,141 | 9   | 55,807 | 9   | 71,521 | 9   | 87,235 | 9   | 102,949 | 9   | 118,663 | 9   | 134,377 | 9   | 150,087 |
| 1/4 | 9,994  | 1/4 | 24,816 | 1/4 | 40,465 | 1/4 | 56,134 | 1/4 | 71,848 | 1/4 | 87,562 | 1/4 | 103,277 | 1/4 | 118,991 | 1/4 | 134,704 | 1/4 | 150,415 |
| 1/2 | 10,285 | 1/2 | 25,142 | 1/2 | 40,790 | 1/2 | 56,462 | 1/2 | 72,176 | 1/2 | 87,890 | 1/2 | 103,604 | 1/2 | 119,318 | 1/2 | 135,031 | 1/2 | 150,742 |
| 3/4 | 10,576 | 3/4 | 25,468 | 3/4 | 41,115 | 3/4 | 56,789 | 3/4 | 72,503 | 3/4 | 88,217 | 3/4 | 103,931 | 3/4 | 119,645 | 3/4 | 135,359 | 3/4 | 151,069 |
| 10  | 10,867 | 10  | 25,795 | 10  | 41,439 | 10  | 57,116 | 10  | 72,830 | 10  | 88,545 | 10  | 104,259 | 10  | 119,973 | 10  | 135,686 | 10  | 151,396 |
| 1/4 | 11,161 | 1/4 | 26,122 | 1/4 | 41,764 | 1/4 | 57,444 | 1/4 | 73,158 | 1/4 | 88,872 | 1/4 | 104,586 | 1/4 | 120,300 | 1/4 | 136,013 | 1/4 | 151,724 |
| 1/2 | 11,455 | 1/2 | 26,449 | 1/2 | 42,089 | 1/2 | 57,771 | 1/2 | 73,485 | 1/2 | 89,199 | 1/2 | 104,913 | 1/2 | 120,628 | 1/2 | 136,341 | 1/2 | 152,051 |
| 3/4 | 11,749 | 3/4 | 26,777 | 3/4 | 42,413 | 3/4 | 58,098 | 3/4 | 73,813 | 3/4 | 89,527 | 3/4 | 105,241 | 3/4 | 120,955 | 3/4 | 136,668 | 3/4 | 152,378 |
| 11  | 12,043 | 11  | 27,104 | 11  | 42,738 | 11  | 58,426 | 11  | 74,140 | 11  | 89,854 | 11  | 105,568 | 11  | 121,282 | 11  | 136,995 | 11  | 152,706 |
| 1/4 | 12,341 | 1/4 | 27,432 | 1/4 | 43,063 | 1/4 | 58,753 | 1/4 | 74,467 | 1/4 | 90,181 | 1/4 | 105,896 | 1/4 | 121,610 | 1/4 | 137,323 | 1/4 | 153,033 |
| 1/2 | 12,638 | 1/2 | 27,759 | 1/2 | 43,387 | 1/2 | 59,081 | 1/2 | 74,795 | 1/2 | 90,509 | 1/2 | 106,223 | 1/2 | 121,937 | 1/2 | 137,650 | 1/2 | 153,360 |
| 3/4 | 12,936 | 3/4 | 28,086 | 3/4 | 43,712 | 3/4 | 59,408 | 3/4 | 75,122 | 3/4 | 90,836 | 3/4 | 106,550 | 3/4 | 122,264 | 3/4 | 137,977 | 3/4 | 153,687 |

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 THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
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# BARGE "CBC 309"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 1/2"

| IN  | 10 FT.  | IN  | 11 FT.  | IN  | 12 FT.  | IN  | 13 FT.  | IN  | 14 FT.  | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 154,015 | 0   | 169,725 | 0   | 185,363 | 0   | 200,986 | 0   | 216,521 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 154,342 | 1/4 | 170,052 | 1/4 | 185,689 | 1/4 | 201,312 | 1/4 | 216,835 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 154,669 | 1/2 | 170,380 | 1/2 | 186,014 | 1/2 | 201,637 | 1/2 | 217,148 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 154,997 | 3/4 | 170,707 | 3/4 | 186,340 | 3/4 | 201,963 | 3/4 | 217,462 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 155,324 | 1   | 171,034 | 1   | 186,665 | 1   | 202,288 | 1   | 217,775 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 155,651 | 1/4 | 171,362 | 1/4 | 186,991 | 1/4 | 202,614 | 1/4 | 218,048 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 155,979 | 1/2 | 171,689 | 1/2 | 187,316 | 1/2 | 202,939 | 1/2 | 218,322 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 156,306 | 3/4 | 172,016 | 3/4 | 187,642 | 3/4 | 203,265 | 3/4 | 218,595 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 156,633 | 2   | 172,344 | 2   | 187,967 | 2   | 203,590 | 2   | 218,868 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 156,960 | 1/4 | 172,669 | 1/4 | 188,293 | 1/4 | 203,915 | 1/4 | 219,088 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 157,288 | 1/2 | 172,995 | 1/2 | 188,618 | 1/2 | 204,241 | 1/2 | 219,307 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 157,615 | 3/4 | 173,321 | 3/4 | 188,944 | 3/4 | 204,566 | 3/4 | 219,527 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 157,942 | 3   | 173,646 | 3   | 189,269 | 3   | 204,892 | 3   | 219,747 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 158,270 | 1/4 | 173,972 | 1/4 | 189,595 | 1/4 | 205,217 | 1/4 | 219,912 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 158,597 | 1/2 | 174,297 | 1/2 | 189,920 | 1/2 | 205,543 | 1/2 | 220,078 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 158,924 | 3/4 | 174,623 | 3/4 | 190,246 | 3/4 | 205,868 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 159,252 | 4   | 174,948 | 4   | 190,571 | 4   | 206,194 | 4   |         | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 159,579 | 1/4 | 175,274 | 1/4 | 190,897 | 1/4 | 206,519 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 159,906 | 1/2 | 175,599 | 1/2 | 191,222 | 1/2 | 206,845 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 160,233 | 3/4 | 175,925 | 3/4 | 191,547 | 3/4 | 207,170 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 160,561 | 5   | 176,250 | 5   | 191,873 | 5   | 207,496 | 5   |         | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 160,888 | 1/4 | 176,576 | 1/4 | 192,198 | 1/4 | 207,821 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 161,215 | 1/2 | 176,901 | 1/2 | 192,524 | 1/2 | 208,147 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 161,543 | 3/4 | 177,227 | 3/4 | 192,849 | 3/4 | 208,472 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 161,870 | 6   | 177,552 | 6   | 193,175 | 6   | 208,798 | 6   |         | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 162,197 | 1/4 | 177,878 | 1/4 | 193,500 | 1/4 | 209,123 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 162,525 | 1/2 | 178,203 | 1/2 | 193,826 | 1/2 | 209,449 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 162,852 | 3/4 | 178,528 | 3/4 | 194,151 | 3/4 | 209,774 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 163,179 | 7   | 178,854 | 7   | 194,477 | 7   | 210,099 | 7   |         | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 163,506 | 1/4 | 179,179 | 1/4 | 194,802 | 1/4 | 210,422 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 163,834 | 1/2 | 179,505 | 1/2 | 195,128 | 1/2 | 210,744 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 164,161 | 3/4 | 179,830 | 3/4 | 195,453 | 3/4 | 211,067 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 164,488 | 8   | 180,156 | 8   | 195,779 | 8   | 211,389 | 8   |         | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 164,816 | 1/4 | 180,481 | 1/4 | 196,104 | 1/4 | 211,711 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 165,143 | 1/2 | 180,807 | 1/2 | 196,430 | 1/2 | 212,033 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 165,470 | 3/4 | 181,132 | 3/4 | 196,755 | 3/4 | 212,354 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 165,798 | 9   | 181,458 | 9   | 197,081 | 9   | 212,676 | 9   |         | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 166,125 | 1/4 | 181,783 | 1/4 | 197,406 | 1/4 | 212,997 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 166,452 | 1/2 | 182,109 | 1/2 | 197,731 | 1/2 | 213,319 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 166,779 | 3/4 | 182,434 | 3/4 | 198,057 | 3/4 | 213,640 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 167,107 | 10  | 182,760 | 10  | 198,382 | 10  | 213,961 | 10  |         | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 167,434 | 1/4 | 183,085 | 1/4 | 198,708 | 1/4 | 214,282 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 167,761 | 1/2 | 183,411 | 1/2 | 199,033 | 1/2 | 214,602 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 168,089 | 3/4 | 183,736 | 3/4 | 199,359 | 3/4 | 214,923 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 168,416 | 11  | 184,062 | 11  | 199,684 | 11  | 215,244 | 11  |         | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 168,743 | 1/4 | 184,387 | 1/4 | 200,010 | 1/4 | 215,563 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 169,071 | 1/2 | 184,713 | 1/2 | 200,335 | 1/2 | 215,882 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 169,398 | 3/4 | 185,038 | 3/4 | 200,661 | 3/4 | 216,202 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/07/2013 CL - SW  
CALCULATED: 01/07/2013 CL  
PRINTED: 01/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2013

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



# BARGE "CBC 309"

1 STBD

## INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 3/4"

| IN  | 0 FT.  | IN  | 1 FT.  | IN  | 2 FT.  | IN  | 3 FT.  | IN  | 4 FT.  | IN  | 5 FT.  | IN  | 6 FT.   | IN  | 7 FT.   | IN  | 8 FT.   | IN  | 9 FT.   |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0   | 585    | 0   | 13,233 | 0   | 28,413 | 0   | 44,088 | 0   | 59,796 | 0   | 75,510 | 0   | 91,225  | 0   | 106,939 | 0   | 122,653 | 0   | 138,365 |
| 1/4 | 719    | 1/4 | 13,534 | 1/4 | 28,741 | 1/4 | 44,415 | 1/4 | 60,124 | 1/4 | 75,838 | 1/4 | 91,552  | 1/4 | 107,266 | 1/4 | 122,980 | 1/4 | 138,693 |
| 1/2 | 854    | 1/2 | 13,835 | 1/2 | 29,068 | 1/2 | 44,742 | 1/2 | 60,451 | 1/2 | 76,165 | 1/2 | 91,879  | 1/2 | 107,593 | 1/2 | 123,308 | 1/2 | 139,020 |
| 3/4 | 989    | 3/4 | 14,136 | 3/4 | 29,395 | 3/4 | 45,068 | 3/4 | 60,778 | 3/4 | 76,493 | 3/4 | 92,207  | 3/4 | 107,921 | 3/4 | 123,635 | 3/4 | 139,347 |
| 1   | 1,124  | 1   | 14,437 | 1   | 29,723 | 1   | 45,395 | 1   | 61,106 | 1   | 76,820 | 1   | 92,534  | 1   | 108,248 | 1   | 123,962 | 1   | 139,675 |
| 1/4 | 1,336  | 1/4 | 14,741 | 1/4 | 30,050 | 1/4 | 45,722 | 1/4 | 61,433 | 1/4 | 77,147 | 1/4 | 92,861  | 1/4 | 108,576 | 1/4 | 124,290 | 1/4 | 140,002 |
| 1/2 | 1,548  | 1/2 | 15,046 | 1/2 | 30,377 | 1/2 | 46,049 | 1/2 | 61,761 | 1/2 | 77,475 | 1/2 | 93,189  | 1/2 | 108,903 | 1/2 | 124,617 | 1/2 | 140,329 |
| 3/4 | 1,761  | 3/4 | 15,350 | 3/4 | 30,704 | 3/4 | 46,376 | 3/4 | 62,088 | 3/4 | 77,802 | 3/4 | 93,516  | 3/4 | 109,230 | 3/4 | 124,944 | 3/4 | 140,656 |
| 2   | 1,973  | 2   | 15,654 | 2   | 31,031 | 2   | 46,703 | 2   | 62,415 | 2   | 78,129 | 2   | 93,844  | 2   | 109,558 | 2   | 125,272 | 2   | 140,984 |
| 1/4 | 2,233  | 1/4 | 15,962 | 1/4 | 31,358 | 1/4 | 47,030 | 1/4 | 62,743 | 1/4 | 78,457 | 1/4 | 94,171  | 1/4 | 109,885 | 1/4 | 125,599 | 1/4 | 141,311 |
| 1/2 | 2,494  | 1/2 | 16,270 | 1/2 | 31,684 | 1/2 | 47,357 | 1/2 | 63,070 | 1/2 | 78,784 | 1/2 | 94,498  | 1/2 | 110,212 | 1/2 | 125,927 | 1/2 | 141,638 |
| 3/4 | 2,754  | 3/4 | 16,578 | 3/4 | 32,011 | 3/4 | 47,684 | 3/4 | 63,397 | 3/4 | 79,112 | 3/4 | 94,826  | 3/4 | 110,540 | 3/4 | 126,254 | 3/4 | 141,966 |
| 3   | 3,015  | 3   | 16,886 | 3   | 32,338 | 3   | 48,011 | 3   | 63,725 | 3   | 79,439 | 3   | 95,153  | 3   | 110,867 | 3   | 126,581 | 3   | 142,293 |
| 1/4 | 3,284  | 1/4 | 17,197 | 1/4 | 32,665 | 1/4 | 48,338 | 1/4 | 64,052 | 1/4 | 79,766 | 1/4 | 95,480  | 1/4 | 111,195 | 1/4 | 126,909 | 1/4 | 142,620 |
| 1/2 | 3,554  | 1/2 | 17,508 | 1/2 | 32,992 | 1/2 | 48,666 | 1/2 | 64,380 | 1/2 | 80,094 | 1/2 | 95,808  | 1/2 | 111,522 | 1/2 | 127,236 | 1/2 | 142,948 |
| 3/4 | 3,824  | 3/4 | 17,819 | 3/4 | 33,319 | 3/4 | 48,993 | 3/4 | 64,707 | 3/4 | 80,421 | 3/4 | 96,135  | 3/4 | 111,849 | 3/4 | 127,563 | 3/4 | 143,275 |
| 4   | 4,093  | 4   | 18,130 | 4   | 33,646 | 4   | 49,320 | 4   | 65,034 | 4   | 80,748 | 4   | 96,463  | 4   | 112,177 | 4   | 127,891 | 4   | 143,602 |
| 1/4 | 4,367  | 1/4 | 18,445 | 1/4 | 33,973 | 1/4 | 49,648 | 1/4 | 65,362 | 1/4 | 81,076 | 1/4 | 96,790  | 1/4 | 112,504 | 1/4 | 128,218 | 1/4 | 143,929 |
| 1/2 | 4,641  | 1/2 | 18,759 | 1/2 | 34,300 | 1/2 | 49,975 | 1/2 | 65,689 | 1/2 | 81,403 | 1/2 | 97,117  | 1/2 | 112,831 | 1/2 | 128,546 | 1/2 | 144,257 |
| 3/4 | 4,914  | 3/4 | 19,074 | 3/4 | 34,627 | 3/4 | 50,302 | 3/4 | 66,016 | 3/4 | 81,731 | 3/4 | 97,445  | 3/4 | 113,159 | 3/4 | 128,873 | 3/4 | 144,584 |
| 5   | 5,188  | 5   | 19,389 | 5   | 34,953 | 5   | 50,630 | 5   | 66,344 | 5   | 82,058 | 5   | 97,772  | 5   | 113,486 | 5   | 129,200 | 5   | 144,911 |
| 1/4 | 5,465  | 1/4 | 19,707 | 1/4 | 35,280 | 1/4 | 50,957 | 1/4 | 66,671 | 1/4 | 82,385 | 1/4 | 98,099  | 1/4 | 113,814 | 1/4 | 129,528 | 1/4 | 145,239 |
| 1/2 | 5,742  | 1/2 | 20,025 | 1/2 | 35,606 | 1/2 | 51,284 | 1/2 | 66,999 | 1/2 | 82,713 | 1/2 | 98,427  | 1/2 | 114,141 | 1/2 | 129,855 | 1/2 | 145,566 |
| 3/4 | 6,019  | 3/4 | 20,343 | 3/4 | 35,932 | 3/4 | 51,612 | 3/4 | 67,326 | 3/4 | 83,040 | 3/4 | 98,754  | 3/4 | 114,468 | 3/4 | 130,182 | 3/4 | 145,893 |
| 6   | 6,296  | 6   | 20,661 | 6   | 36,258 | 6   | 51,939 | 6   | 67,653 | 6   | 83,367 | 6   | 99,082  | 6   | 114,796 | 6   | 130,510 | 6   | 146,221 |
| 1/4 | 6,577  | 1/4 | 20,982 | 1/4 | 36,585 | 1/4 | 52,267 | 1/4 | 67,981 | 1/4 | 83,695 | 1/4 | 99,409  | 1/4 | 115,123 | 1/4 | 130,837 | 1/4 | 146,548 |
| 1/2 | 6,857  | 1/2 | 21,303 | 1/2 | 36,911 | 1/2 | 52,594 | 1/2 | 68,308 | 1/2 | 84,022 | 1/2 | 99,736  | 1/2 | 115,450 | 1/2 | 131,165 | 1/2 | 146,875 |
| 3/4 | 7,138  | 3/4 | 21,625 | 3/4 | 37,237 | 3/4 | 52,921 | 3/4 | 68,635 | 3/4 | 84,350 | 3/4 | 100,064 | 3/4 | 115,778 | 3/4 | 131,492 | 3/4 | 147,202 |
| 7   | 7,418  | 7   | 21,946 | 7   | 37,563 | 7   | 53,249 | 7   | 68,963 | 7   | 84,677 | 7   | 100,391 | 7   | 116,105 | 7   | 131,819 | 7   | 147,530 |
| 1/4 | 7,702  | 1/4 | 22,263 | 1/4 | 37,889 | 1/4 | 53,576 | 1/4 | 69,290 | 1/4 | 85,004 | 1/4 | 100,718 | 1/4 | 116,433 | 1/4 | 132,147 | 1/4 | 147,857 |
| 1/2 | 7,986  | 1/2 | 22,581 | 1/2 | 38,216 | 1/2 | 53,903 | 1/2 | 69,618 | 1/2 | 85,332 | 1/2 | 101,046 | 1/2 | 116,760 | 1/2 | 132,474 | 1/2 | 148,184 |
| 3/4 | 8,270  | 3/4 | 22,898 | 3/4 | 38,542 | 3/4 | 54,231 | 3/4 | 69,945 | 3/4 | 85,659 | 3/4 | 101,373 | 3/4 | 117,087 | 3/4 | 132,801 | 3/4 | 148,512 |
| 8   | 8,554  | 8   | 23,215 | 8   | 38,868 | 8   | 54,558 | 8   | 70,272 | 8   | 85,986 | 8   | 101,701 | 8   | 117,415 | 8   | 133,129 | 8   | 148,839 |
| 1/4 | 8,841  | 1/4 | 23,534 | 1/4 | 39,194 | 1/4 | 54,886 | 1/4 | 70,600 | 1/4 | 86,314 | 1/4 | 102,028 | 1/4 | 117,742 | 1/4 | 133,456 | 1/4 | 149,166 |
| 1/2 | 9,129  | 1/2 | 23,852 | 1/2 | 39,520 | 1/2 | 55,213 | 1/2 | 70,927 | 1/2 | 86,641 | 1/2 | 102,355 | 1/2 | 118,070 | 1/2 | 133,783 | 1/2 | 149,494 |
| 3/4 | 9,416  | 3/4 | 24,171 | 3/4 | 39,846 | 3/4 | 55,540 | 3/4 | 71,255 | 3/4 | 86,969 | 3/4 | 102,683 | 3/4 | 118,397 | 3/4 | 134,110 | 3/4 | 149,821 |
| 9   | 9,703  | 9   | 24,489 | 9   | 40,173 | 9   | 55,868 | 9   | 71,582 | 9   | 87,296 | 9   | 103,010 | 9   | 118,724 | 9   | 134,438 | 9   | 150,148 |
| 1/4 | 9,994  | 1/4 | 24,816 | 1/4 | 40,499 | 1/4 | 56,195 | 1/4 | 71,909 | 1/4 | 87,623 | 1/4 | 103,338 | 1/4 | 119,052 | 1/4 | 134,765 | 1/4 | 150,475 |
| 1/2 | 10,285 | 1/2 | 25,142 | 1/2 | 40,825 | 1/2 | 56,523 | 1/2 | 72,237 | 1/2 | 87,951 | 1/2 | 103,665 | 1/2 | 119,379 | 1/2 | 135,092 | 1/2 | 150,803 |
| 3/4 | 10,576 | 3/4 | 25,468 | 3/4 | 41,151 | 3/4 | 56,850 | 3/4 | 72,564 | 3/4 | 88,278 | 3/4 | 103,992 | 3/4 | 119,706 | 3/4 | 135,420 | 3/4 | 151,130 |
| 10  | 10,866 | 10  | 25,794 | 10  | 41,477 | 10  | 57,177 | 10  | 72,891 | 10  | 88,606 | 10  | 104,320 | 10  | 120,034 | 10  | 135,747 | 10  | 151,457 |
| 1/4 | 11,160 | 1/4 | 26,122 | 1/4 | 41,804 | 1/4 | 57,505 | 1/4 | 73,219 | 1/4 | 88,933 | 1/4 | 104,647 | 1/4 | 120,361 | 1/4 | 136,074 | 1/4 | 151,785 |
| 1/2 | 11,455 | 1/2 | 26,449 | 1/2 | 42,130 | 1/2 | 57,832 | 1/2 | 73,546 | 1/2 | 89,260 | 1/2 | 104,974 | 1/2 | 120,689 | 1/2 | 136,402 | 1/2 | 152,112 |
| 3/4 | 11,749 | 3/4 | 26,777 | 3/4 | 42,456 | 3/4 | 58,159 | 3/4 | 73,874 | 3/4 | 89,588 | 3/4 | 105,302 | 3/4 | 121,016 | 3/4 | 136,729 | 3/4 | 152,439 |
| 11  | 12,043 | 11  | 27,104 | 11  | 42,782 | 11  | 58,487 | 11  | 74,201 | 11  | 89,915 | 11  | 105,629 | 11  | 121,343 | 11  | 137,056 | 11  | 152,767 |
| 1/4 | 12,340 | 1/4 | 27,431 | 1/4 | 43,109 | 1/4 | 58,814 | 1/4 | 74,528 | 1/4 | 90,242 | 1/4 | 105,957 | 1/4 | 121,671 | 1/4 | 137,383 | 1/4 | 153,094 |
| 1/2 | 12,638 | 1/2 | 27,759 | 1/2 | 43,435 | 1/2 | 59,142 | 1/2 | 74,856 | 1/2 | 90,570 | 1/2 | 106,284 | 1/2 | 121,998 | 1/2 | 137,711 | 1/2 | 153,421 |
| 3/4 | 12,936 | 3/4 | 28,086 | 3/4 | 43,762 | 3/4 | 59,469 | 3/4 | 75,183 | 3/4 | 90,897 | 3/4 | 106,611 | 3/4 | 122,325 | 3/4 | 138,038 | 3/4 | 153,748 |

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 THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CBC 309"

**1 STBD**  
**INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 3/4"

| IN  | 10 FT.  | IN  | 11 FT.  | IN  | 12 FT.  | IN  | 13 FT.  | IN  | 14 FT.  | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 154,076 | 0   | 169,786 | 0   | 185,424 | 0   | 201,047 | 0   | 216,582 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 154,403 | 1/4 | 170,113 | 1/4 | 185,750 | 1/4 | 201,373 | 1/4 | 216,896 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 154,730 | 1/2 | 170,441 | 1/2 | 186,075 | 1/2 | 201,698 | 1/2 | 217,209 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 155,058 | 3/4 | 170,768 | 3/4 | 186,401 | 3/4 | 202,024 | 3/4 | 217,523 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 155,385 | 1   | 171,095 | 1   | 186,726 | 1   | 202,349 | 1   | 217,836 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 155,712 | 1/4 | 171,423 | 1/4 | 187,052 | 1/4 | 202,675 | 1/4 | 218,109 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 156,040 | 1/2 | 171,750 | 1/2 | 187,377 | 1/2 | 203,000 | 1/2 | 218,382 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 156,367 | 3/4 | 172,077 | 3/4 | 187,703 | 3/4 | 203,325 | 3/4 | 218,656 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 156,694 | 2   | 172,405 | 2   | 188,028 | 2   | 203,651 | 2   | 218,929 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 157,021 | 1/4 | 172,730 | 1/4 | 188,354 | 1/4 | 203,976 | 1/4 | 219,149 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 157,349 | 1/2 | 173,056 | 1/2 | 188,679 | 1/2 | 204,302 | 1/2 | 219,368 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 157,676 | 3/4 | 173,382 | 3/4 | 189,005 | 3/4 | 204,627 | 3/4 | 219,588 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 158,003 | 3   | 173,707 | 3   | 189,330 | 3   | 204,953 | 3   | 219,808 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 158,331 | 1/4 | 174,033 | 1/4 | 189,656 | 1/4 | 205,278 | 1/4 | 219,973 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 158,658 | 1/2 | 174,358 | 1/2 | 189,981 | 1/2 | 205,604 | 1/2 | 220,138 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 158,985 | 3/4 | 174,684 | 3/4 | 190,307 | 3/4 | 205,929 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 159,313 | 4   | 175,009 | 4   | 190,632 | 4   | 206,255 | 4   |         | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 159,640 | 1/4 | 175,335 | 1/4 | 190,957 | 1/4 | 206,580 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 159,967 | 1/2 | 175,660 | 1/2 | 191,283 | 1/2 | 206,906 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 160,294 | 3/4 | 175,986 | 3/4 | 191,608 | 3/4 | 207,231 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 160,622 | 5   | 176,311 | 5   | 191,934 | 5   | 207,557 | 5   |         | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 160,949 | 1/4 | 176,637 | 1/4 | 192,259 | 1/4 | 207,882 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 161,276 | 1/2 | 176,962 | 1/2 | 192,585 | 1/2 | 208,208 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 161,604 | 3/4 | 177,288 | 3/4 | 192,910 | 3/4 | 208,533 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 161,931 | 6   | 177,613 | 6   | 193,236 | 6   | 208,859 | 6   |         | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 162,258 | 1/4 | 177,939 | 1/4 | 193,561 | 1/4 | 209,184 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 162,586 | 1/2 | 178,264 | 1/2 | 193,887 | 1/2 | 209,509 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 162,913 | 3/4 | 178,589 | 3/4 | 194,212 | 3/4 | 209,835 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 163,240 | 7   | 178,915 | 7   | 194,538 | 7   | 210,160 | 7   |         | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 163,567 | 1/4 | 179,240 | 1/4 | 194,863 | 1/4 | 210,483 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 163,895 | 1/2 | 179,566 | 1/2 | 195,189 | 1/2 | 210,805 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 164,222 | 3/4 | 179,891 | 3/4 | 195,514 | 3/4 | 211,128 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 164,549 | 8   | 180,217 | 8   | 195,840 | 8   | 211,450 | 8   |         | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 164,877 | 1/4 | 180,542 | 1/4 | 196,165 | 1/4 | 211,772 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 165,204 | 1/2 | 180,868 | 1/2 | 196,491 | 1/2 | 212,094 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 165,531 | 3/4 | 181,193 | 3/4 | 196,816 | 3/4 | 212,415 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 165,859 | 9   | 181,519 | 9   | 197,141 | 9   | 212,737 | 9   |         | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 166,186 | 1/4 | 181,844 | 1/4 | 197,467 | 1/4 | 213,058 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 166,513 | 1/2 | 182,170 | 1/2 | 197,792 | 1/2 | 213,380 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 166,840 | 3/4 | 182,495 | 3/4 | 198,118 | 3/4 | 213,701 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 167,168 | 10  | 182,821 | 10  | 198,443 | 10  | 214,022 | 10  |         | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 167,495 | 1/4 | 183,146 | 1/4 | 198,769 | 1/4 | 214,343 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 167,822 | 1/2 | 183,472 | 1/2 | 199,094 | 1/2 | 214,663 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 168,150 | 3/4 | 183,797 | 3/4 | 199,420 | 3/4 | 214,984 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 168,477 | 11  | 184,123 | 11  | 199,745 | 11  | 215,305 | 11  |         | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 168,804 | 1/4 | 184,448 | 1/4 | 200,071 | 1/4 | 215,624 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 169,132 | 1/2 | 184,773 | 1/2 | 200,396 | 1/2 | 215,943 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 169,459 | 3/4 | 185,099 | 3/4 | 200,722 | 3/4 | 216,263 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/07/2013 CL - SW  
CALCULATED: 01/07/2013 CL  
PRINTED: 01/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2013

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



# BARGE "CBC 309"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04"

| 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   | 592    | 0   | 14,998 | 0   | 30,141 | 0   | 45,105 | 0   | 60,170 | 0   | 75,313 | 0   | 90,457  | 0   | 105,601 | 0   | 120,745 | 0   | 135,887 |
| 1/4 | 780    | 1/4 | 15,314 | 1/4 | 30,457 | 1/4 | 45,414 | 1/4 | 60,485 | 1/4 | 75,629 | 1/4 | 90,773  | 1/4 | 105,917 | 1/4 | 121,061 | 1/4 | 136,203 |
| 1/2 | 967    | 1/2 | 15,629 | 1/2 | 30,772 | 1/2 | 45,723 | 1/2 | 60,801 | 1/2 | 75,944 | 1/2 | 91,088  | 1/2 | 106,232 | 1/2 | 121,376 | 1/2 | 136,518 |
| 3/4 | 1,154  | 3/4 | 15,945 | 3/4 | 31,088 | 3/4 | 46,032 | 3/4 | 61,116 | 3/4 | 76,260 | 3/4 | 91,404  | 3/4 | 106,548 | 3/4 | 121,692 | 3/4 | 136,834 |
| 1   | 1,342  | 1   | 16,260 | 1   | 31,403 | 1   | 46,341 | 1   | 61,432 | 1   | 76,575 | 1   | 91,719  | 1   | 106,863 | 1   | 122,007 | 1   | 137,149 |
| 1/4 | 1,608  | 1/4 | 16,576 | 1/4 | 31,719 | 1/4 | 46,650 | 1/4 | 61,747 | 1/4 | 76,891 | 1/4 | 92,035  | 1/4 | 107,179 | 1/4 | 122,323 | 1/4 | 137,464 |
| 1/2 | 1,874  | 1/2 | 16,891 | 1/2 | 32,034 | 1/2 | 46,959 | 1/2 | 62,063 | 1/2 | 77,206 | 1/2 | 92,350  | 1/2 | 107,494 | 1/2 | 122,638 | 1/2 | 137,780 |
| 3/4 | 2,140  | 3/4 | 17,206 | 3/4 | 32,350 | 3/4 | 47,268 | 3/4 | 62,378 | 3/4 | 77,522 | 3/4 | 92,666  | 3/4 | 107,810 | 3/4 | 122,954 | 3/4 | 138,095 |
| 2   | 2,406  | 2   | 17,522 | 2   | 32,665 | 2   | 47,578 | 2   | 62,694 | 2   | 77,837 | 2   | 92,981  | 2   | 108,125 | 2   | 123,269 | 2   | 138,411 |
| 1/4 | 2,716  | 1/4 | 17,837 | 1/4 | 32,981 | 1/4 | 47,887 | 1/4 | 63,009 | 1/4 | 78,153 | 1/4 | 93,297  | 1/4 | 108,441 | 1/4 | 123,585 | 1/4 | 138,726 |
| 1/2 | 3,025  | 1/2 | 18,153 | 1/2 | 33,296 | 1/2 | 48,196 | 1/2 | 63,325 | 1/2 | 78,468 | 1/2 | 93,612  | 1/2 | 108,756 | 1/2 | 123,900 | 1/2 | 139,042 |
| 3/4 | 3,334  | 3/4 | 18,468 | 3/4 | 33,612 | 3/4 | 48,506 | 3/4 | 63,640 | 3/4 | 78,784 | 3/4 | 93,928  | 3/4 | 109,072 | 3/4 | 124,215 | 3/4 | 139,357 |
| 3   | 3,643  | 3   | 18,784 | 3   | 33,927 | 3   | 48,815 | 3   | 63,956 | 3   | 79,099 | 3   | 94,243  | 3   | 109,387 | 3   | 124,531 | 3   | 139,672 |
| 1/4 | 3,958  | 1/4 | 19,099 | 1/4 | 34,243 | 1/4 | 49,130 | 1/4 | 64,271 | 1/4 | 79,415 | 1/4 | 94,559  | 1/4 | 109,703 | 1/4 | 124,846 | 1/4 | 139,988 |
| 1/2 | 4,273  | 1/2 | 19,415 | 1/2 | 34,558 | 1/2 | 49,444 | 1/2 | 64,587 | 1/2 | 79,730 | 1/2 | 94,874  | 1/2 | 110,018 | 1/2 | 125,162 | 1/2 | 140,303 |
| 3/4 | 4,588  | 3/4 | 19,730 | 3/4 | 34,874 | 3/4 | 49,759 | 3/4 | 64,902 | 3/4 | 80,046 | 3/4 | 95,190  | 3/4 | 110,334 | 3/4 | 125,477 | 3/4 | 140,619 |
| 4   | 4,903  | 4   | 20,046 | 4   | 35,189 | 4   | 50,074 | 4   | 65,218 | 4   | 80,361 | 4   | 95,505  | 4   | 110,649 | 4   | 125,793 | 4   | 140,934 |
| 1/4 | 5,218  | 1/4 | 20,361 | 1/4 | 35,505 | 1/4 | 50,389 | 1/4 | 65,533 | 1/4 | 80,677 | 1/4 | 95,821  | 1/4 | 110,965 | 1/4 | 126,108 | 1/4 | 141,249 |
| 1/2 | 5,534  | 1/2 | 20,677 | 1/2 | 35,820 | 1/2 | 50,705 | 1/2 | 65,849 | 1/2 | 80,992 | 1/2 | 96,136  | 1/2 | 111,280 | 1/2 | 126,424 | 1/2 | 141,565 |
| 3/4 | 5,849  | 3/4 | 20,992 | 3/4 | 36,136 | 3/4 | 51,020 | 3/4 | 66,164 | 3/4 | 81,308 | 3/4 | 96,452  | 3/4 | 111,596 | 3/4 | 126,739 | 3/4 | 141,880 |
| 5   | 6,164  | 5   | 21,308 | 5   | 36,451 | 5   | 51,336 | 5   | 66,480 | 5   | 81,623 | 5   | 96,767  | 5   | 111,911 | 5   | 127,055 | 5   | 142,196 |
| 1/4 | 6,480  | 1/4 | 21,623 | 1/4 | 36,761 | 1/4 | 51,651 | 1/4 | 66,795 | 1/4 | 81,939 | 1/4 | 97,083  | 1/4 | 112,227 | 1/4 | 127,370 | 1/4 | 142,511 |
| 1/2 | 6,795  | 1/2 | 21,939 | 1/2 | 37,071 | 1/2 | 51,967 | 1/2 | 67,111 | 1/2 | 82,254 | 1/2 | 97,398  | 1/2 | 112,542 | 1/2 | 127,686 | 1/2 | 142,827 |
| 3/4 | 7,111  | 3/4 | 22,254 | 3/4 | 37,381 | 3/4 | 52,282 | 3/4 | 67,426 | 3/4 | 82,570 | 3/4 | 97,714  | 3/4 | 112,858 | 3/4 | 128,001 | 3/4 | 143,142 |
| 6   | 7,426  | 6   | 22,570 | 6   | 37,690 | 6   | 52,598 | 6   | 67,742 | 6   | 82,885 | 6   | 98,029  | 6   | 113,173 | 6   | 128,317 | 6   | 143,457 |
| 1/4 | 7,742  | 1/4 | 22,885 | 1/4 | 37,999 | 1/4 | 52,913 | 1/4 | 68,057 | 1/4 | 83,201 | 1/4 | 98,345  | 1/4 | 113,489 | 1/4 | 128,632 | 1/4 | 143,773 |
| 1/2 | 8,057  | 1/2 | 23,201 | 1/2 | 38,308 | 1/2 | 53,229 | 1/2 | 68,373 | 1/2 | 83,516 | 1/2 | 98,660  | 1/2 | 113,804 | 1/2 | 128,948 | 1/2 | 144,088 |
| 3/4 | 8,373  | 3/4 | 23,516 | 3/4 | 38,617 | 3/4 | 53,544 | 3/4 | 68,688 | 3/4 | 83,832 | 3/4 | 98,976  | 3/4 | 114,120 | 3/4 | 129,263 | 3/4 | 144,404 |
| 7   | 8,688  | 7   | 23,832 | 7   | 38,926 | 7   | 53,860 | 7   | 69,004 | 7   | 84,147 | 7   | 99,291  | 7   | 114,435 | 7   | 129,579 | 7   | 144,719 |
| 1/4 | 9,004  | 1/4 | 24,147 | 1/4 | 39,235 | 1/4 | 54,175 | 1/4 | 69,319 | 1/4 | 84,463 | 1/4 | 99,607  | 1/4 | 114,751 | 1/4 | 129,894 | 1/4 | 145,035 |
| 1/2 | 9,319  | 1/2 | 24,463 | 1/2 | 39,544 | 1/2 | 54,491 | 1/2 | 69,635 | 1/2 | 84,778 | 1/2 | 99,922  | 1/2 | 115,066 | 1/2 | 130,210 | 1/2 | 145,350 |
| 3/4 | 9,635  | 3/4 | 24,778 | 3/4 | 39,853 | 3/4 | 54,806 | 3/4 | 69,950 | 3/4 | 85,094 | 3/4 | 100,238 | 3/4 | 115,382 | 3/4 | 130,525 | 3/4 | 145,665 |
| 8   | 9,950  | 8   | 25,094 | 8   | 40,162 | 8   | 55,122 | 8   | 70,266 | 8   | 85,409 | 8   | 100,553 | 8   | 115,697 | 8   | 130,841 | 8   | 145,981 |
| 1/4 | 10,266 | 1/4 | 25,409 | 1/4 | 40,471 | 1/4 | 55,437 | 1/4 | 70,581 | 1/4 | 85,725 | 1/4 | 100,869 | 1/4 | 116,013 | 1/4 | 131,156 | 1/4 | 146,296 |
| 1/2 | 10,581 | 1/2 | 25,725 | 1/2 | 40,780 | 1/2 | 55,753 | 1/2 | 70,897 | 1/2 | 86,040 | 1/2 | 101,184 | 1/2 | 116,328 | 1/2 | 131,472 | 1/2 | 146,612 |
| 3/4 | 10,897 | 3/4 | 26,040 | 3/4 | 41,089 | 3/4 | 56,068 | 3/4 | 71,212 | 3/4 | 86,356 | 3/4 | 101,500 | 3/4 | 116,644 | 3/4 | 131,787 | 3/4 | 146,927 |
| 9   | 11,212 | 9   | 26,356 | 9   | 41,398 | 9   | 56,384 | 9   | 71,528 | 9   | 86,671 | 9   | 101,815 | 9   | 116,959 | 9   | 132,102 | 9   | 147,242 |
| 1/4 | 11,528 | 1/4 | 26,671 | 1/4 | 41,707 | 1/4 | 56,699 | 1/4 | 71,843 | 1/4 | 86,987 | 1/4 | 102,131 | 1/4 | 117,275 | 1/4 | 132,418 | 1/4 | 147,558 |
| 1/2 | 11,843 | 1/2 | 26,987 | 1/2 | 42,016 | 1/2 | 57,015 | 1/2 | 72,159 | 1/2 | 87,302 | 1/2 | 102,446 | 1/2 | 117,590 | 1/2 | 132,733 | 1/2 | 147,873 |
| 3/4 | 12,159 | 3/4 | 27,302 | 3/4 | 42,324 | 3/4 | 57,330 | 3/4 | 72,474 | 3/4 | 87,618 | 3/4 | 102,762 | 3/4 | 117,906 | 3/4 | 133,049 | 3/4 | 148,189 |
| 10  | 12,474 | 10  | 27,618 | 10  | 42,633 | 10  | 57,646 | 10  | 72,790 | 10  | 87,933 | 10  | 103,077 | 10  | 118,221 | 10  | 133,364 | 10  | 148,504 |
| 1/4 | 12,790 | 1/4 | 27,933 | 1/4 | 42,942 | 1/4 | 57,961 | 1/4 | 73,105 | 1/4 | 88,249 | 1/4 | 103,393 | 1/4 | 118,537 | 1/4 | 133,679 | 1/4 | 148,820 |
| 1/2 | 13,105 | 1/2 | 28,249 | 1/2 | 43,251 | 1/2 | 58,277 | 1/2 | 73,420 | 1/2 | 88,564 | 1/2 | 103,708 | 1/2 | 118,852 | 1/2 | 133,995 | 1/2 | 149,135 |
| 3/4 | 13,421 | 3/4 | 28,564 | 3/4 | 43,560 | 3/4 | 58,592 | 3/4 | 73,736 | 3/4 | 88,880 | 3/4 | 104,024 | 3/4 | 119,168 | 3/4 | 134,310 | 3/4 | 149,450 |
| 11  | 13,736 | 11  | 28,880 | 11  | 43,869 | 11  | 58,908 | 11  | 74,051 | 11  | 89,195 | 11  | 104,339 | 11  | 119,483 | 11  | 134,626 | 11  | 149,766 |
| 1/4 | 14,052 | 1/4 | 29,195 | 1/4 | 44,178 | 1/4 | 59,223 | 1/4 | 74,367 | 1/4 | 89,511 | 1/4 | 104,655 | 1/4 | 119,799 | 1/4 | 134,941 | 1/4 | 150,081 |
| 1/2 | 14,367 | 1/2 | 29,511 | 1/2 | 44,487 | 1/2 | 59,539 | 1/2 | 74,682 | 1/2 | 89,826 | 1/2 | 104,970 | 1/2 | 120,114 | 1/2 | 135,257 | 1/2 | 150,397 |
| 3/4 | 14,683 | 3/4 | 29,826 | 3/4 | 44,796 | 3/4 | 59,854 | 3/4 | 74,998 | 3/4 | 90,142 | 3/4 | 105,286 | 3/4 | 120,430 | 3/4 | 135,572 | 3/4 | 150,712 |

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 THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CBC 309"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04"

| 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   | 151,027 | 0   | 166,168 | 0   | 181,236 | 0   | 196,288 | 0   | 211,254 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 151,343 | 1/4 | 166,483 | 1/4 | 181,549 | 1/4 | 196,602 | 1/4 | 211,556 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 151,658 | 1/2 | 166,798 | 1/2 | 181,863 | 1/2 | 196,916 | 1/2 | 211,858 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 151,974 | 3/4 | 167,114 | 3/4 | 182,177 | 3/4 | 197,229 | 3/4 | 212,160 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 152,289 | 1   | 167,429 | 1   | 182,490 | 1   | 197,543 | 1   | 212,462 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 152,605 | 1/4 | 167,745 | 1/4 | 182,804 | 1/4 | 197,856 | 1/4 | 212,725 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 152,920 | 1/2 | 168,060 | 1/2 | 183,117 | 1/2 | 198,170 | 1/2 | 212,988 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 153,235 | 3/4 | 168,376 | 3/4 | 183,431 | 3/4 | 198,484 | 3/4 | 213,251 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 153,551 | 2   | 168,691 | 2   | 183,744 | 2   | 198,797 | 2   | 213,514 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 153,866 | 1/4 | 169,005 | 1/4 | 184,058 | 1/4 | 199,111 | 1/4 | 213,726 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 154,182 | 1/2 | 169,319 | 1/2 | 184,372 | 1/2 | 199,424 | 1/2 | 213,937 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 154,497 | 3/4 | 169,632 | 3/4 | 184,685 | 3/4 | 199,738 | 3/4 | 214,149 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 154,813 | 3   | 169,946 | 3   | 184,999 | 3   | 200,051 | 3   | 214,361 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 155,128 | 1/4 | 170,260 | 1/4 | 185,312 | 1/4 | 200,365 | 1/4 | 214,520 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 155,443 | 1/2 | 170,573 | 1/2 | 185,626 | 1/2 | 200,679 | 1/2 | 214,679 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 155,759 | 3/4 | 170,887 | 3/4 | 185,940 | 3/4 | 200,992 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 156,074 | 4   | 171,201 | 4   | 186,253 | 4   | 201,306 | 4   |         | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 156,390 | 1/4 | 171,514 | 1/4 | 186,567 | 1/4 | 201,619 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 156,705 | 1/2 | 171,828 | 1/2 | 186,880 | 1/2 | 201,933 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 157,020 | 3/4 | 172,141 | 3/4 | 187,194 | 3/4 | 202,247 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 157,336 | 5   | 172,455 | 5   | 187,508 | 5   | 202,560 | 5   |         | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 157,651 | 1/4 | 172,769 | 1/4 | 187,821 | 1/4 | 202,874 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 157,967 | 1/2 | 173,082 | 1/2 | 188,135 | 1/2 | 203,187 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 158,282 | 3/4 | 173,396 | 3/4 | 188,448 | 3/4 | 203,501 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 158,598 | 6   | 173,709 | 6   | 188,762 | 6   | 203,815 | 6   |         | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 158,913 | 1/4 | 174,023 | 1/4 | 189,076 | 1/4 | 204,128 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 159,228 | 1/2 | 174,337 | 1/2 | 189,389 | 1/2 | 204,442 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 159,544 | 3/4 | 174,650 | 3/4 | 189,703 | 3/4 | 204,755 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 159,859 | 7   | 174,964 | 7   | 190,016 | 7   | 205,069 | 7   |         | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 160,175 | 1/4 | 175,277 | 1/4 | 190,330 | 1/4 | 205,380 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 160,490 | 1/2 | 175,591 | 1/2 | 190,644 | 1/2 | 205,690 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 160,805 | 3/4 | 175,905 | 3/4 | 190,957 | 3/4 | 206,001 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 161,121 | 8   | 176,218 | 8   | 191,271 | 8   | 206,311 | 8   |         | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 161,436 | 1/4 | 176,532 | 1/4 | 191,584 | 1/4 | 206,621 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 161,752 | 1/2 | 176,845 | 1/2 | 191,898 | 1/2 | 206,931 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 162,067 | 3/4 | 177,159 | 3/4 | 192,212 | 3/4 | 207,241 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 162,383 | 9   | 177,473 | 9   | 192,525 | 9   | 207,551 | 9   |         | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 162,698 | 1/4 | 177,786 | 1/4 | 192,839 | 1/4 | 207,860 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 163,013 | 1/2 | 178,100 | 1/2 | 193,152 | 1/2 | 208,170 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 163,329 | 3/4 | 178,413 | 3/4 | 193,466 | 3/4 | 208,479 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 163,644 | 10  | 178,727 | 10  | 193,780 | 10  | 208,789 | 10  |         | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 163,960 | 1/4 | 179,041 | 1/4 | 194,093 | 1/4 | 209,097 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 164,275 | 1/2 | 179,354 | 1/2 | 194,407 | 1/2 | 209,406 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 164,591 | 3/4 | 179,668 | 3/4 | 194,720 | 3/4 | 209,715 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 164,906 | 11  | 179,981 | 11  | 195,034 | 11  | 210,024 | 11  |         | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 165,221 | 1/4 | 180,295 | 1/4 | 195,348 | 1/4 | 210,331 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 165,537 | 1/2 | 180,609 | 1/2 | 195,661 | 1/2 | 210,639 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 165,852 | 3/4 | 180,922 | 3/4 | 195,975 | 3/4 | 210,946 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/07/2013 CL - SW  
CALCULATED: 01/07/2013 CL  
PRINTED: 01/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2013

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



# BARGE "CBC 309"

2 STBD

## INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 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   | 592    | 0   | 14,996 | 0   | 30,138 | 0   | 44,994 | 0   | 60,084 | 0   | 75,225 | 0   | 90,367  | 0   | 105,509 | 0   | 120,651 | 0   | 135,792 |
| 1/4 | 780    | 1/4 | 15,312 | 1/4 | 30,453 | 1/4 | 45,301 | 1/4 | 60,399 | 1/4 | 75,541 | 1/4 | 90,683  | 1/4 | 105,825 | 1/4 | 120,967 | 1/4 | 136,107 |
| 1/2 | 967    | 1/2 | 15,627 | 1/2 | 30,769 | 1/2 | 45,608 | 1/2 | 60,714 | 1/2 | 75,856 | 1/2 | 90,998  | 1/2 | 106,140 | 1/2 | 121,282 | 1/2 | 136,423 |
| 3/4 | 1,154  | 3/4 | 15,943 | 3/4 | 31,084 | 3/4 | 45,915 | 3/4 | 61,030 | 3/4 | 76,172 | 3/4 | 91,314  | 3/4 | 106,456 | 3/4 | 121,598 | 3/4 | 136,738 |
| 1   | 1,342  | 1   | 16,258 | 1   | 31,400 | 1   | 46,223 | 1   | 61,345 | 1   | 76,487 | 1   | 91,629  | 1   | 106,771 | 1   | 121,913 | 1   | 137,053 |
| 1/4 | 1,608  | 1/4 | 16,573 | 1/4 | 31,715 | 1/4 | 46,535 | 1/4 | 61,661 | 1/4 | 76,803 | 1/4 | 91,945  | 1/4 | 107,087 | 1/4 | 122,229 | 1/4 | 137,369 |
| 1/2 | 1,874  | 1/2 | 16,889 | 1/2 | 32,030 | 1/2 | 46,848 | 1/2 | 61,976 | 1/2 | 77,118 | 1/2 | 92,260  | 1/2 | 107,402 | 1/2 | 122,544 | 1/2 | 137,684 |
| 3/4 | 2,140  | 3/4 | 17,204 | 3/4 | 32,346 | 3/4 | 47,161 | 3/4 | 62,292 | 3/4 | 77,434 | 3/4 | 92,576  | 3/4 | 107,718 | 3/4 | 122,860 | 3/4 | 138,000 |
| 2   | 2,406  | 2   | 17,520 | 2   | 32,661 | 2   | 47,474 | 2   | 62,607 | 2   | 77,749 | 2   | 92,891  | 2   | 108,033 | 2   | 123,175 | 2   | 138,315 |
| 1/4 | 2,715  | 1/4 | 17,835 | 1/4 | 32,977 | 1/4 | 47,787 | 1/4 | 62,923 | 1/4 | 78,065 | 1/4 | 93,207  | 1/4 | 108,349 | 1/4 | 123,491 | 1/4 | 138,630 |
| 1/2 | 3,024  | 1/2 | 18,151 | 1/2 | 33,292 | 1/2 | 48,101 | 1/2 | 63,238 | 1/2 | 78,380 | 1/2 | 93,522  | 1/2 | 108,664 | 1/2 | 123,806 | 1/2 | 138,946 |
| 3/4 | 3,334  | 3/4 | 18,466 | 3/4 | 33,608 | 3/4 | 48,414 | 3/4 | 63,554 | 3/4 | 78,696 | 3/4 | 93,838  | 3/4 | 108,980 | 3/4 | 124,122 | 3/4 | 139,261 |
| 3   | 3,643  | 3   | 18,782 | 3   | 33,923 | 3   | 48,728 | 3   | 63,869 | 3   | 79,011 | 3   | 94,153  | 3   | 109,295 | 3   | 124,437 | 3   | 139,576 |
| 1/4 | 3,958  | 1/4 | 19,097 | 1/4 | 34,232 | 1/4 | 49,043 | 1/4 | 64,184 | 1/4 | 79,326 | 1/4 | 94,468  | 1/4 | 109,610 | 1/4 | 124,752 | 1/4 | 139,892 |
| 1/2 | 4,273  | 1/2 | 19,413 | 1/2 | 34,541 | 1/2 | 49,358 | 1/2 | 64,500 | 1/2 | 79,642 | 1/2 | 94,784  | 1/2 | 109,926 | 1/2 | 125,068 | 1/2 | 140,207 |
| 3/4 | 4,587  | 3/4 | 19,728 | 3/4 | 34,850 | 3/4 | 49,674 | 3/4 | 64,815 | 3/4 | 79,957 | 3/4 | 95,099  | 3/4 | 110,241 | 3/4 | 125,383 | 3/4 | 140,523 |
| 4   | 4,902  | 4   | 20,043 | 4   | 35,159 | 4   | 49,989 | 4   | 65,131 | 4   | 80,273 | 4   | 95,415  | 4   | 110,557 | 4   | 125,699 | 4   | 140,838 |
| 1/4 | 5,218  | 1/4 | 20,359 | 1/4 | 35,467 | 1/4 | 50,304 | 1/4 | 65,446 | 1/4 | 80,588 | 1/4 | 95,730  | 1/4 | 110,872 | 1/4 | 126,014 | 1/4 | 141,153 |
| 1/2 | 5,533  | 1/2 | 20,674 | 1/2 | 35,775 | 1/2 | 50,620 | 1/2 | 65,762 | 1/2 | 80,904 | 1/2 | 96,046  | 1/2 | 111,188 | 1/2 | 126,330 | 1/2 | 141,469 |
| 3/4 | 5,848  | 3/4 | 20,990 | 3/4 | 36,083 | 3/4 | 50,935 | 3/4 | 66,077 | 3/4 | 81,219 | 3/4 | 96,361  | 3/4 | 111,503 | 3/4 | 126,645 | 3/4 | 141,784 |
| 5   | 6,164  | 5   | 21,305 | 5   | 36,391 | 5   | 51,251 | 5   | 66,393 | 5   | 81,535 | 5   | 96,677  | 5   | 111,819 | 5   | 126,961 | 5   | 142,100 |
| 1/4 | 6,479  | 1/4 | 21,621 | 1/4 | 36,698 | 1/4 | 51,566 | 1/4 | 66,708 | 1/4 | 81,850 | 1/4 | 96,992  | 1/4 | 112,134 | 1/4 | 127,276 | 1/4 | 142,415 |
| 1/2 | 6,795  | 1/2 | 21,936 | 1/2 | 37,005 | 1/2 | 51,882 | 1/2 | 67,024 | 1/2 | 82,166 | 1/2 | 97,308  | 1/2 | 112,450 | 1/2 | 127,592 | 1/2 | 142,730 |
| 3/4 | 7,110  | 3/4 | 22,252 | 3/4 | 37,313 | 3/4 | 52,197 | 3/4 | 67,339 | 3/4 | 82,481 | 3/4 | 97,623  | 3/4 | 112,765 | 3/4 | 127,907 | 3/4 | 143,046 |
| 6   | 7,425  | 6   | 22,567 | 6   | 37,620 | 6   | 52,513 | 6   | 67,654 | 6   | 82,796 | 6   | 97,938  | 6   | 113,080 | 6   | 128,222 | 6   | 143,361 |
| 1/4 | 7,741  | 1/4 | 22,882 | 1/4 | 37,927 | 1/4 | 52,828 | 1/4 | 67,970 | 1/4 | 83,112 | 1/4 | 98,254  | 1/4 | 113,396 | 1/4 | 128,538 | 1/4 | 143,676 |
| 1/2 | 8,056  | 1/2 | 23,198 | 1/2 | 38,234 | 1/2 | 53,143 | 1/2 | 68,285 | 1/2 | 83,427 | 1/2 | 98,569  | 1/2 | 113,711 | 1/2 | 128,853 | 1/2 | 143,992 |
| 3/4 | 8,372  | 3/4 | 23,513 | 3/4 | 38,542 | 3/4 | 53,459 | 3/4 | 68,601 | 3/4 | 83,743 | 3/4 | 98,885  | 3/4 | 114,027 | 3/4 | 129,169 | 3/4 | 144,307 |
| 7   | 8,687  | 7   | 23,829 | 7   | 38,849 | 7   | 53,774 | 7   | 68,916 | 7   | 84,058 | 7   | 99,200  | 7   | 114,342 | 7   | 129,484 | 7   | 144,623 |
| 1/4 | 9,003  | 1/4 | 24,144 | 1/4 | 39,156 | 1/4 | 54,090 | 1/4 | 69,232 | 1/4 | 84,374 | 1/4 | 99,516  | 1/4 | 114,658 | 1/4 | 129,800 | 1/4 | 144,938 |
| 1/2 | 9,318  | 1/2 | 24,460 | 1/2 | 39,463 | 1/2 | 54,405 | 1/2 | 69,547 | 1/2 | 84,689 | 1/2 | 99,831  | 1/2 | 114,973 | 1/2 | 130,115 | 1/2 | 145,253 |
| 3/4 | 9,634  | 3/4 | 24,775 | 3/4 | 39,771 | 3/4 | 54,721 | 3/4 | 69,863 | 3/4 | 85,005 | 3/4 | 100,147 | 3/4 | 115,289 | 3/4 | 130,430 | 3/4 | 145,569 |
| 8   | 9,949  | 8   | 25,091 | 8   | 40,078 | 8   | 55,036 | 8   | 70,178 | 8   | 85,320 | 8   | 100,462 | 8   | 115,604 | 8   | 130,746 | 8   | 145,884 |
| 1/4 | 10,264 | 1/4 | 25,406 | 1/4 | 40,385 | 1/4 | 55,352 | 1/4 | 70,494 | 1/4 | 85,636 | 1/4 | 100,778 | 1/4 | 115,920 | 1/4 | 131,061 | 1/4 | 146,199 |
| 1/2 | 10,580 | 1/2 | 25,721 | 1/2 | 40,692 | 1/2 | 55,667 | 1/2 | 70,809 | 1/2 | 85,951 | 1/2 | 101,093 | 1/2 | 116,235 | 1/2 | 131,377 | 1/2 | 146,515 |
| 3/4 | 10,895 | 3/4 | 26,037 | 3/4 | 41,000 | 3/4 | 55,983 | 3/4 | 71,125 | 3/4 | 86,267 | 3/4 | 101,409 | 3/4 | 116,551 | 3/4 | 131,692 | 3/4 | 146,830 |
| 9   | 11,211 | 9   | 26,352 | 9   | 41,307 | 9   | 56,298 | 9   | 71,440 | 9   | 86,582 | 9   | 101,724 | 9   | 116,866 | 9   | 132,007 | 9   | 147,146 |
| 1/4 | 11,526 | 1/4 | 26,668 | 1/4 | 41,614 | 1/4 | 56,613 | 1/4 | 71,755 | 1/4 | 86,897 | 1/4 | 102,039 | 1/4 | 117,181 | 1/4 | 132,323 | 1/4 | 147,461 |
| 1/2 | 11,842 | 1/2 | 26,983 | 1/2 | 41,921 | 1/2 | 56,929 | 1/2 | 72,071 | 1/2 | 87,213 | 1/2 | 102,355 | 1/2 | 117,497 | 1/2 | 132,638 | 1/2 | 147,776 |
| 3/4 | 12,157 | 3/4 | 27,299 | 3/4 | 42,229 | 3/4 | 57,244 | 3/4 | 72,386 | 3/4 | 87,528 | 3/4 | 102,670 | 3/4 | 117,812 | 3/4 | 132,954 | 3/4 | 148,092 |
| 10  | 12,473 | 10  | 27,614 | 10  | 42,536 | 10  | 57,560 | 10  | 72,702 | 10  | 87,844 | 10  | 102,986 | 10  | 118,128 | 10  | 133,269 | 10  | 148,407 |
| 1/4 | 12,788 | 1/4 | 27,930 | 1/4 | 42,843 | 1/4 | 57,875 | 1/4 | 73,017 | 1/4 | 88,159 | 1/4 | 103,301 | 1/4 | 118,443 | 1/4 | 133,584 | 1/4 | 148,723 |
| 1/2 | 13,104 | 1/2 | 28,245 | 1/2 | 43,150 | 1/2 | 58,191 | 1/2 | 73,333 | 1/2 | 88,475 | 1/2 | 103,617 | 1/2 | 118,759 | 1/2 | 133,900 | 1/2 | 149,038 |
| 3/4 | 13,419 | 3/4 | 28,561 | 3/4 | 43,457 | 3/4 | 58,506 | 3/4 | 73,648 | 3/4 | 88,790 | 3/4 | 103,932 | 3/4 | 119,074 | 3/4 | 134,215 | 3/4 | 149,353 |
| 11  | 13,734 | 11  | 28,876 | 11  | 43,765 | 11  | 58,822 | 11  | 73,964 | 11  | 89,106 | 11  | 104,248 | 11  | 119,390 | 11  | 134,530 | 11  | 149,669 |
| 1/4 | 14,050 | 1/4 | 29,191 | 1/4 | 44,072 | 1/4 | 59,137 | 1/4 | 74,279 | 1/4 | 89,421 | 1/4 | 104,563 | 1/4 | 119,705 | 1/4 | 134,846 | 1/4 | 149,984 |
| 1/2 | 14,365 | 1/2 | 29,507 | 1/2 | 44,379 | 1/2 | 59,453 | 1/2 | 74,595 | 1/2 | 89,737 | 1/2 | 104,879 | 1/2 | 120,021 | 1/2 | 135,161 | 1/2 | 150,299 |
| 3/4 | 14,681 | 3/4 | 29,822 | 3/4 | 44,686 | 3/4 | 59,768 | 3/4 | 74,910 | 3/4 | 90,052 | 3/4 | 105,194 | 3/4 | 120,336 | 3/4 | 135,477 | 3/4 | 150,615 |

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 THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

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



# BARGE "CBC 309"

**2 STBD**  
**INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 1/2"

| IN  | 10 FT.  | IN  | 11 FT.  | IN  | 12 FT.  | IN  | 13 FT.  | IN  | 14 FT.  | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 150,930 | 0   | 166,068 | 0   | 181,135 | 0   | 196,185 | 0   | 211,149 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 151,246 | 1/4 | 166,384 | 1/4 | 181,448 | 1/4 | 196,499 | 1/4 | 211,451 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 151,561 | 1/2 | 166,699 | 1/2 | 181,762 | 1/2 | 196,813 | 1/2 | 211,753 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 151,876 | 3/4 | 167,015 | 3/4 | 182,075 | 3/4 | 197,126 | 3/4 | 212,055 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 152,192 | 1   | 167,330 | 1   | 182,389 | 1   | 197,440 | 1   | 212,357 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 152,507 | 1/4 | 167,645 | 1/4 | 182,702 | 1/4 | 197,753 | 1/4 | 212,620 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 152,822 | 1/2 | 167,961 | 1/2 | 183,016 | 1/2 | 198,067 | 1/2 | 212,883 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 153,138 | 3/4 | 168,276 | 3/4 | 183,330 | 3/4 | 198,380 | 3/4 | 213,146 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 153,453 | 2   | 168,591 | 2   | 183,643 | 2   | 198,694 | 2   | 213,409 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 153,769 | 1/4 | 168,905 | 1/4 | 183,957 | 1/4 | 199,008 | 1/4 | 213,621 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 154,084 | 1/2 | 169,219 | 1/2 | 184,270 | 1/2 | 199,321 | 1/2 | 213,832 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 154,399 | 3/4 | 169,533 | 3/4 | 184,584 | 3/4 | 199,635 | 3/4 | 214,044 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 154,715 | 3   | 169,847 | 3   | 184,897 | 3   | 199,948 | 3   | 214,256 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 155,030 | 1/4 | 170,160 | 1/4 | 185,211 | 1/4 | 200,262 | 1/4 | 214,415 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 155,345 | 1/2 | 170,474 | 1/2 | 185,525 | 1/2 | 200,575 | 1/2 | 214,574 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 155,661 | 3/4 | 170,787 | 3/4 | 185,838 | 3/4 | 200,889 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 155,976 | 4   | 171,101 | 4   | 186,152 | 4   | 201,202 | 4   |         | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 156,292 | 1/4 | 171,414 | 1/4 | 186,465 | 1/4 | 201,516 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 156,607 | 1/2 | 171,728 | 1/2 | 186,779 | 1/2 | 201,830 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 156,922 | 3/4 | 172,042 | 3/4 | 187,092 | 3/4 | 202,143 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 157,238 | 5   | 172,355 | 5   | 187,406 | 5   | 202,457 | 5   |         | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 157,553 | 1/4 | 172,669 | 1/4 | 187,719 | 1/4 | 202,770 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 157,869 | 1/2 | 172,982 | 1/2 | 188,033 | 1/2 | 203,084 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 158,184 | 3/4 | 173,296 | 3/4 | 188,347 | 3/4 | 203,397 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 158,499 | 6   | 173,609 | 6   | 188,660 | 6   | 203,711 | 6   |         | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 158,815 | 1/4 | 173,923 | 1/4 | 188,974 | 1/4 | 204,024 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 159,130 | 1/2 | 174,236 | 1/2 | 189,287 | 1/2 | 204,338 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 159,445 | 3/4 | 174,550 | 3/4 | 189,601 | 3/4 | 204,652 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 159,761 | 7   | 174,864 | 7   | 189,914 | 7   | 204,965 | 7   |         | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 160,076 | 1/4 | 175,177 | 1/4 | 190,228 | 1/4 | 205,276 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 160,392 | 1/2 | 175,491 | 1/2 | 190,541 | 1/2 | 205,586 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 160,707 | 3/4 | 175,804 | 3/4 | 190,855 | 3/4 | 205,897 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 161,022 | 8   | 176,118 | 8   | 191,169 | 8   | 206,207 | 8   |         | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 161,338 | 1/4 | 176,431 | 1/4 | 191,482 | 1/4 | 206,517 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 161,653 | 1/2 | 176,745 | 1/2 | 191,796 | 1/2 | 206,827 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 161,968 | 3/4 | 177,058 | 3/4 | 192,109 | 3/4 | 207,137 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 162,284 | 9   | 177,372 | 9   | 192,423 | 9   | 207,446 | 9   |         | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 162,599 | 1/4 | 177,686 | 1/4 | 192,736 | 1/4 | 207,756 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 162,915 | 1/2 | 177,999 | 1/2 | 193,050 | 1/2 | 208,065 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 163,230 | 3/4 | 178,313 | 3/4 | 193,363 | 3/4 | 208,375 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 163,545 | 10  | 178,626 | 10  | 193,677 | 10  | 208,684 | 10  |         | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 163,861 | 1/4 | 178,940 | 1/4 | 193,991 | 1/4 | 208,993 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 164,176 | 1/2 | 179,253 | 1/2 | 194,304 | 1/2 | 209,302 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 164,492 | 3/4 | 179,567 | 3/4 | 194,618 | 3/4 | 209,610 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 164,807 | 11  | 179,880 | 11  | 194,931 | 11  | 209,919 | 11  |         | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 165,122 | 1/4 | 180,194 | 1/4 | 195,245 | 1/4 | 210,227 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 165,438 | 1/2 | 180,508 | 1/2 | 195,558 | 1/2 | 210,534 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 165,753 | 3/4 | 180,821 | 3/4 | 195,872 | 3/4 | 210,842 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/07/2013 CL - SW  
CALCULATED: 01/07/2013 CL  
PRINTED: 01/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2013

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



# BARGE "CBC 309"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 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   | 611    | 0   | 15,474 | 0   | 31,091 | 0   | 46,434 | 0   | 61,852 | 0   | 77,435 | 0   | 93,016  | 0   | 108,547 | 0   | 124,116 | 0   | 139,687 |
| 1/4 | 804    | 1/4 | 15,800 | 1/4 | 31,416 | 1/4 | 46,750 | 1/4 | 62,177 | 1/4 | 77,760 | 1/4 | 93,340  | 1/4 | 108,871 | 1/4 | 124,440 | 1/4 | 140,011 |
| 1/2 | 997    | 1/2 | 16,125 | 1/2 | 31,740 | 1/2 | 47,067 | 1/2 | 62,501 | 1/2 | 78,085 | 1/2 | 93,663  | 1/2 | 109,195 | 1/2 | 124,764 | 1/2 | 140,336 |
| 3/4 | 1,190  | 3/4 | 16,451 | 3/4 | 32,065 | 3/4 | 47,383 | 3/4 | 62,826 | 3/4 | 78,409 | 3/4 | 93,987  | 3/4 | 109,520 | 3/4 | 125,089 | 3/4 | 140,660 |
| 1   | 1,384  | 1   | 16,776 | 1   | 32,389 | 1   | 47,699 | 1   | 63,151 | 1   | 78,734 | 1   | 94,310  | 1   | 109,844 | 1   | 125,413 | 1   | 140,984 |
| 1/4 | 1,658  | 1/4 | 17,102 | 1/4 | 32,714 | 1/4 | 48,015 | 1/4 | 63,475 | 1/4 | 79,059 | 1/4 | 94,634  | 1/4 | 110,168 | 1/4 | 125,738 | 1/4 | 141,309 |
| 1/2 | 1,933  | 1/2 | 17,427 | 1/2 | 33,038 | 1/2 | 48,332 | 1/2 | 63,800 | 1/2 | 79,383 | 1/2 | 94,957  | 1/2 | 110,492 | 1/2 | 126,062 | 1/2 | 141,633 |
| 3/4 | 2,208  | 3/4 | 17,753 | 3/4 | 33,363 | 3/4 | 48,648 | 3/4 | 64,125 | 3/4 | 79,708 | 3/4 | 95,281  | 3/4 | 110,816 | 3/4 | 126,386 | 3/4 | 141,957 |
| 2   | 2,482  | 2   | 18,078 | 2   | 33,687 | 2   | 48,965 | 2   | 64,449 | 2   | 80,033 | 2   | 95,605  | 2   | 111,140 | 2   | 126,711 | 2   | 142,282 |
| 1/4 | 2,801  | 1/4 | 18,404 | 1/4 | 34,012 | 1/4 | 49,281 | 1/4 | 64,774 | 1/4 | 80,357 | 1/4 | 95,928  | 1/4 | 111,464 | 1/4 | 127,035 | 1/4 | 142,606 |
| 1/2 | 3,120  | 1/2 | 18,729 | 1/2 | 34,336 | 1/2 | 49,598 | 1/2 | 65,099 | 1/2 | 80,682 | 1/2 | 96,252  | 1/2 | 111,789 | 1/2 | 127,360 | 1/2 | 142,931 |
| 3/4 | 3,439  | 3/4 | 19,055 | 3/4 | 34,661 | 3/4 | 49,914 | 3/4 | 65,423 | 3/4 | 81,007 | 3/4 | 96,575  | 3/4 | 112,113 | 3/4 | 127,684 | 3/4 | 143,255 |
| 3   | 3,758  | 3   | 19,380 | 3   | 34,985 | 3   | 50,231 | 3   | 65,748 | 3   | 81,331 | 3   | 96,899  | 3   | 112,437 | 3   | 128,009 | 3   | 143,579 |
| 1/4 | 4,083  | 1/4 | 19,706 | 1/4 | 35,310 | 1/4 | 50,547 | 1/4 | 66,073 | 1/4 | 81,656 | 1/4 | 97,222  | 1/4 | 112,761 | 1/4 | 128,333 | 1/4 | 143,904 |
| 1/2 | 4,408  | 1/2 | 20,031 | 1/2 | 35,634 | 1/2 | 50,864 | 1/2 | 66,397 | 1/2 | 81,981 | 1/2 | 97,546  | 1/2 | 113,086 | 1/2 | 128,657 | 1/2 | 144,228 |
| 3/4 | 4,733  | 3/4 | 20,357 | 3/4 | 35,959 | 3/4 | 51,181 | 3/4 | 66,722 | 3/4 | 82,305 | 3/4 | 97,870  | 3/4 | 113,410 | 3/4 | 128,982 | 3/4 | 144,552 |
| 4   | 5,058  | 4   | 20,682 | 4   | 36,283 | 4   | 51,498 | 4   | 67,046 | 4   | 82,630 | 4   | 98,193  | 4   | 113,734 | 4   | 129,306 | 4   | 144,877 |
| 1/4 | 5,384  | 1/4 | 21,008 | 1/4 | 36,608 | 1/4 | 51,814 | 1/4 | 67,371 | 1/4 | 82,955 | 1/4 | 98,517  | 1/4 | 114,059 | 1/4 | 129,631 | 1/4 | 145,201 |
| 1/2 | 5,709  | 1/2 | 21,334 | 1/2 | 36,933 | 1/2 | 52,131 | 1/2 | 67,695 | 1/2 | 83,279 | 1/2 | 98,840  | 1/2 | 114,383 | 1/2 | 129,955 | 1/2 | 145,524 |
| 3/4 | 6,034  | 3/4 | 21,659 | 3/4 | 37,257 | 3/4 | 52,448 | 3/4 | 68,020 | 3/4 | 83,604 | 3/4 | 99,164  | 3/4 | 114,708 | 3/4 | 130,279 | 3/4 | 145,848 |
| 5   | 6,360  | 5   | 21,985 | 5   | 37,582 | 5   | 52,765 | 5   | 68,344 | 5   | 83,929 | 5   | 99,487  | 5   | 115,032 | 5   | 130,604 | 5   | 146,172 |
| 1/4 | 6,685  | 1/4 | 22,310 | 1/4 | 37,898 | 1/4 | 53,088 | 1/4 | 68,669 | 1/4 | 84,254 | 1/4 | 99,811  | 1/4 | 115,356 | 1/4 | 130,928 | 1/4 | 146,495 |
| 1/2 | 7,011  | 1/2 | 22,636 | 1/2 | 38,215 | 1/2 | 53,412 | 1/2 | 68,994 | 1/2 | 84,578 | 1/2 | 100,135 | 1/2 | 115,681 | 1/2 | 131,253 | 1/2 | 146,819 |
| 3/4 | 7,336  | 3/4 | 22,961 | 3/4 | 38,532 | 3/4 | 53,736 | 3/4 | 69,318 | 3/4 | 84,903 | 3/4 | 100,458 | 3/4 | 116,005 | 3/4 | 131,577 | 3/4 | 147,142 |
| 6   | 7,662  | 6   | 23,287 | 6   | 38,849 | 6   | 54,060 | 6   | 69,643 | 6   | 85,228 | 6   | 100,782 | 6   | 116,330 | 6   | 131,901 | 6   | 147,466 |
| 1/4 | 7,987  | 1/4 | 23,612 | 1/4 | 39,165 | 1/4 | 54,384 | 1/4 | 69,968 | 1/4 | 85,552 | 1/4 | 101,105 | 1/4 | 116,654 | 1/4 | 132,226 | 1/4 | 147,789 |
| 1/2 | 8,313  | 1/2 | 23,938 | 1/2 | 39,481 | 1/2 | 54,709 | 1/2 | 70,292 | 1/2 | 85,877 | 1/2 | 101,429 | 1/2 | 116,979 | 1/2 | 132,550 | 1/2 | 148,112 |
| 3/4 | 8,638  | 3/4 | 24,263 | 3/4 | 39,797 | 3/4 | 55,034 | 3/4 | 70,617 | 3/4 | 86,202 | 3/4 | 101,752 | 3/4 | 117,303 | 3/4 | 132,875 | 3/4 | 148,436 |
| 7   | 8,964  | 7   | 24,589 | 7   | 40,113 | 7   | 55,358 | 7   | 70,942 | 7   | 86,526 | 7   | 102,076 | 7   | 117,627 | 7   | 133,199 | 7   | 148,759 |
| 1/4 | 9,289  | 1/4 | 24,914 | 1/4 | 40,429 | 1/4 | 55,683 | 1/4 | 71,266 | 1/4 | 86,851 | 1/4 | 102,400 | 1/4 | 117,952 | 1/4 | 133,523 | 1/4 | 149,082 |
| 1/2 | 9,615  | 1/2 | 25,240 | 1/2 | 40,745 | 1/2 | 56,008 | 1/2 | 71,591 | 1/2 | 87,176 | 1/2 | 102,723 | 1/2 | 118,276 | 1/2 | 133,848 | 1/2 | 149,406 |
| 3/4 | 9,940  | 3/4 | 25,565 | 3/4 | 41,061 | 3/4 | 56,332 | 3/4 | 71,916 | 3/4 | 87,500 | 3/4 | 103,047 | 3/4 | 118,601 | 3/4 | 134,172 | 3/4 | 149,729 |
| 8   | 10,266 | 8   | 25,891 | 8   | 41,377 | 8   | 56,657 | 8   | 72,240 | 8   | 87,825 | 8   | 103,370 | 8   | 118,925 | 8   | 134,497 | 8   | 150,052 |
| 1/4 | 10,591 | 1/4 | 26,216 | 1/4 | 41,693 | 1/4 | 56,982 | 1/4 | 72,565 | 1/4 | 88,150 | 1/4 | 103,694 | 1/4 | 119,249 | 1/4 | 134,821 | 1/4 | 150,375 |
| 1/2 | 10,917 | 1/2 | 26,542 | 1/2 | 42,009 | 1/2 | 57,306 | 1/2 | 72,890 | 1/2 | 88,474 | 1/2 | 104,017 | 1/2 | 119,574 | 1/2 | 135,145 | 1/2 | 150,698 |
| 3/4 | 11,242 | 3/4 | 26,867 | 3/4 | 42,325 | 3/4 | 57,631 | 3/4 | 73,214 | 3/4 | 88,799 | 3/4 | 104,341 | 3/4 | 119,898 | 3/4 | 135,470 | 3/4 | 151,021 |
| 9   | 11,568 | 9   | 27,193 | 9   | 42,641 | 9   | 57,956 | 9   | 73,539 | 9   | 89,124 | 9   | 104,665 | 9   | 120,223 | 9   | 135,794 | 9   | 151,344 |
| 1/4 | 11,894 | 1/4 | 27,518 | 1/4 | 42,957 | 1/4 | 58,280 | 1/4 | 73,864 | 1/4 | 89,448 | 1/4 | 104,988 | 1/4 | 120,547 | 1/4 | 136,119 | 1/4 | 151,666 |
| 1/2 | 12,219 | 1/2 | 27,844 | 1/2 | 43,274 | 1/2 | 58,605 | 1/2 | 74,188 | 1/2 | 89,773 | 1/2 | 105,311 | 1/2 | 120,871 | 1/2 | 136,443 | 1/2 | 151,987 |
| 3/4 | 12,545 | 3/4 | 28,169 | 3/4 | 43,590 | 3/4 | 58,930 | 3/4 | 74,513 | 3/4 | 90,098 | 3/4 | 105,635 | 3/4 | 121,196 | 3/4 | 136,767 | 3/4 | 152,309 |
| 10  | 12,870 | 10  | 28,495 | 10  | 43,906 | 10  | 59,254 | 10  | 74,838 | 10  | 90,422 | 10  | 105,958 | 10  | 121,520 | 10  | 137,092 | 10  | 152,630 |
| 1/4 | 13,196 | 1/4 | 28,820 | 1/4 | 44,222 | 1/4 | 59,579 | 1/4 | 75,163 | 1/4 | 90,747 | 1/4 | 106,281 | 1/4 | 121,845 | 1/4 | 137,416 | 1/4 | 152,943 |
| 1/2 | 13,521 | 1/2 | 29,144 | 1/2 | 44,538 | 1/2 | 59,904 | 1/2 | 75,487 | 1/2 | 91,072 | 1/2 | 106,604 | 1/2 | 122,169 | 1/2 | 137,740 | 1/2 | 153,255 |
| 3/4 | 13,847 | 3/4 | 29,469 | 3/4 | 44,854 | 3/4 | 60,228 | 3/4 | 75,812 | 3/4 | 91,396 | 3/4 | 106,928 | 3/4 | 122,494 | 3/4 | 138,065 | 3/4 | 153,567 |
| 11  | 14,172 | 11  | 29,793 | 11  | 45,170 | 11  | 60,553 | 11  | 76,137 | 11  | 91,721 | 11  | 107,251 | 11  | 122,818 | 11  | 138,389 | 11  | 153,880 |
| 1/4 | 14,498 | 1/4 | 30,118 | 1/4 | 45,486 | 1/4 | 60,878 | 1/4 | 76,461 | 1/4 | 92,045 | 1/4 | 107,575 | 1/4 | 123,142 | 1/4 | 138,714 | 1/4 | 154,180 |
| 1/2 | 14,823 | 1/2 | 30,442 | 1/2 | 45,802 | 1/2 | 61,202 | 1/2 | 76,786 | 1/2 | 92,369 | 1/2 | 107,899 | 1/2 | 123,467 | 1/2 | 139,038 | 1/2 | 154,480 |
| 3/4 | 15,149 | 3/4 | 30,767 | 3/4 | 46,118 | 3/4 | 61,527 | 3/4 | 77,111 | 3/4 | 92,692 | 3/4 | 108,223 | 3/4 | 123,791 | 3/4 | 139,362 | 3/4 | 154,780 |

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 THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CBC 309"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 1/2"

| IN  | 10 FT.  | IN  | 11 FT.  | IN  | 12 FT.  | IN  | 13 FT.  | IN  | 14 FT.  | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 155,080 | 0   | 167,391 | 0   | 179,337 | 0   | 191,272 | 0   | 203,139 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 155,368 | 1/4 | 167,641 | 1/4 | 179,586 | 1/4 | 191,520 | 1/4 | 203,378 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 155,655 | 1/2 | 167,891 | 1/2 | 179,834 | 1/2 | 191,769 | 1/2 | 203,618 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 155,942 | 3/4 | 168,141 | 3/4 | 180,083 | 3/4 | 192,018 | 3/4 | 203,857 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 156,230 | 1   | 168,391 | 1   | 180,332 | 1   | 192,266 | 1   | 204,097 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 156,505 | 1/4 | 168,641 | 1/4 | 180,580 | 1/4 | 192,515 | 1/4 | 204,305 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 156,780 | 1/2 | 168,891 | 1/2 | 180,829 | 1/2 | 192,763 | 1/2 | 204,514 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 157,055 | 3/4 | 169,141 | 3/4 | 181,077 | 3/4 | 193,012 | 3/4 | 204,723 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 157,330 | 2   | 169,391 | 2   | 181,326 | 2   | 193,261 | 2   | 204,931 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 157,592 | 1/4 | 169,640 | 1/4 | 181,575 | 1/4 | 193,509 | 1/4 | 205,099 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 157,854 | 1/2 | 169,888 | 1/2 | 181,823 | 1/2 | 193,758 | 1/2 | 205,267 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 158,116 | 3/4 | 170,137 | 3/4 | 182,072 | 3/4 | 194,007 | 3/4 | 205,435 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 158,379 | 3   | 170,386 | 3   | 182,321 | 3   | 194,255 | 3   | 205,603 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 158,632 | 1/4 | 170,635 | 1/4 | 182,569 | 1/4 | 194,504 | 1/4 | 205,729 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 158,884 | 1/2 | 170,883 | 1/2 | 182,818 | 1/2 | 194,753 | 1/2 | 205,855 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 159,137 | 3/4 | 171,132 | 3/4 | 183,067 | 3/4 | 195,001 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 159,390 | 4   | 171,381 | 4   | 183,315 | 4   | 195,250 | 4   |         | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 159,640 | 1/4 | 171,629 | 1/4 | 183,564 | 1/4 | 195,499 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 159,890 | 1/2 | 171,878 | 1/2 | 183,812 | 1/2 | 195,747 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 160,140 | 3/4 | 172,126 | 3/4 | 184,061 | 3/4 | 195,996 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 160,390 | 5   | 172,375 | 5   | 184,310 | 5   | 196,244 | 5   |         | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 160,641 | 1/4 | 172,624 | 1/4 | 184,558 | 1/4 | 196,493 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 160,891 | 1/2 | 172,872 | 1/2 | 184,807 | 1/2 | 196,742 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 161,141 | 3/4 | 173,121 | 3/4 | 185,056 | 3/4 | 196,990 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 161,391 | 6   | 173,370 | 6   | 185,304 | 6   | 197,239 | 6   |         | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 161,641 | 1/4 | 173,618 | 1/4 | 185,553 | 1/4 | 197,488 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 161,891 | 1/2 | 173,867 | 1/2 | 185,802 | 1/2 | 197,736 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 162,141 | 3/4 | 174,116 | 3/4 | 186,050 | 3/4 | 197,985 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 162,391 | 7   | 174,364 | 7   | 186,299 | 7   | 198,234 | 7   |         | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 162,641 | 1/4 | 174,613 | 1/4 | 186,548 | 1/4 | 198,480 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 162,891 | 1/2 | 174,862 | 1/2 | 186,796 | 1/2 | 198,726 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 163,141 | 3/4 | 175,110 | 3/4 | 187,045 | 3/4 | 198,972 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 163,391 | 8   | 175,359 | 8   | 187,293 | 8   | 199,219 | 8   |         | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 163,641 | 1/4 | 175,607 | 1/4 | 187,542 | 1/4 | 199,464 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 163,891 | 1/2 | 175,856 | 1/2 | 187,791 | 1/2 | 199,710 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 164,141 | 3/4 | 176,105 | 3/4 | 188,039 | 3/4 | 199,956 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 164,391 | 9   | 176,353 | 9   | 188,288 | 9   | 200,202 | 9   |         | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 164,641 | 1/4 | 176,602 | 1/4 | 188,537 | 1/4 | 200,447 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 164,891 | 1/2 | 176,851 | 1/2 | 188,785 | 1/2 | 200,693 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 165,141 | 3/4 | 177,099 | 3/4 | 189,034 | 3/4 | 200,938 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 165,391 | 10  | 177,348 | 10  | 189,283 | 10  | 201,184 | 10  |         | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 165,641 | 1/4 | 177,597 | 1/4 | 189,531 | 1/4 | 201,428 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 165,891 | 1/2 | 177,845 | 1/2 | 189,780 | 1/2 | 201,673 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 166,141 | 3/4 | 178,094 | 3/4 | 190,028 | 3/4 | 201,918 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 166,391 | 11  | 178,342 | 11  | 190,277 | 11  | 202,163 | 11  |         | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 166,641 | 1/4 | 178,591 | 1/4 | 190,526 | 1/4 | 202,407 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 166,891 | 1/2 | 178,840 | 1/2 | 190,774 | 1/2 | 202,651 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 167,141 | 3/4 | 179,088 | 3/4 | 191,023 | 3/4 | 202,895 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/07/2013 CL - SW  
CALCULATED: 01/07/2013 CL  
PRINTED: 01/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2013

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



# BARGE "CBC 309"

3 STBD

## INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 3/4"

| IN  | 0 FT.  | IN  | 1 FT.  | IN  | 2 FT.  | IN  | 3 FT.  | IN  | 4 FT.  | IN  | 5 FT.  | IN  | 6 FT.   | IN  | 7 FT.   | IN  | 8 FT.   | IN  | 9 FT.   |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0   | 611    | 0   | 15,477 | 0   | 31,096 | 0   | 46,248 | 0   | 61,536 | 0   | 77,121 | 0   | 92,705  | 0   | 108,238 | 0   | 123,809 | 0   | 139,383 |
| 1/4 | 804    | 1/4 | 15,802 | 1/4 | 31,421 | 1/4 | 46,558 | 1/4 | 61,860 | 1/4 | 77,446 | 1/4 | 93,028  | 1/4 | 108,562 | 1/4 | 124,133 | 1/4 | 139,707 |
| 1/2 | 997    | 1/2 | 16,128 | 1/2 | 31,745 | 1/2 | 46,867 | 1/2 | 62,185 | 1/2 | 77,771 | 1/2 | 93,352  | 1/2 | 108,887 | 1/2 | 124,458 | 1/2 | 140,031 |
| 3/4 | 1,191  | 3/4 | 16,453 | 3/4 | 32,070 | 3/4 | 47,176 | 3/4 | 62,510 | 3/4 | 78,096 | 3/4 | 93,675  | 3/4 | 109,211 | 3/4 | 124,782 | 3/4 | 140,356 |
| 1   | 1,384  | 1   | 16,779 | 1   | 32,394 | 1   | 47,485 | 1   | 62,834 | 1   | 78,420 | 1   | 93,999  | 1   | 109,535 | 1   | 125,107 | 1   | 140,680 |
| 1/4 | 1,659  | 1/4 | 17,104 | 1/4 | 32,719 | 1/4 | 47,795 | 1/4 | 63,159 | 1/4 | 78,745 | 1/4 | 94,323  | 1/4 | 109,859 | 1/4 | 125,431 | 1/4 | 141,005 |
| 1/2 | 1,933  | 1/2 | 17,430 | 1/2 | 33,044 | 1/2 | 48,104 | 1/2 | 63,484 | 1/2 | 79,070 | 1/2 | 94,646  | 1/2 | 110,183 | 1/2 | 125,756 | 1/2 | 141,329 |
| 3/4 | 2,208  | 3/4 | 17,756 | 3/4 | 33,368 | 3/4 | 48,414 | 3/4 | 63,809 | 3/4 | 79,395 | 3/4 | 94,970  | 3/4 | 110,508 | 3/4 | 126,080 | 3/4 | 141,654 |
| 2   | 2,483  | 2   | 18,081 | 2   | 33,693 | 2   | 48,724 | 2   | 64,133 | 2   | 79,719 | 2   | 95,294  | 2   | 110,832 | 2   | 126,405 | 2   | 141,978 |
| 1/4 | 2,802  | 1/4 | 18,407 | 1/4 | 34,017 | 1/4 | 49,034 | 1/4 | 64,458 | 1/4 | 80,044 | 1/4 | 95,617  | 1/4 | 111,156 | 1/4 | 126,729 | 1/4 | 142,302 |
| 1/2 | 3,121  | 1/2 | 18,732 | 1/2 | 34,342 | 1/2 | 49,344 | 1/2 | 64,783 | 1/2 | 80,369 | 1/2 | 95,941  | 1/2 | 111,480 | 1/2 | 127,054 | 1/2 | 142,627 |
| 3/4 | 3,440  | 3/4 | 19,058 | 3/4 | 34,666 | 3/4 | 49,654 | 3/4 | 65,108 | 3/4 | 80,693 | 3/4 | 96,264  | 3/4 | 111,804 | 3/4 | 127,378 | 3/4 | 142,951 |
| 3   | 3,759  | 3   | 19,383 | 3   | 34,991 | 3   | 49,965 | 3   | 65,432 | 3   | 81,018 | 3   | 96,588  | 3   | 112,129 | 3   | 127,703 | 3   | 143,276 |
| 1/4 | 4,084  | 1/4 | 19,709 | 1/4 | 35,315 | 1/4 | 50,275 | 1/4 | 65,757 | 1/4 | 81,343 | 1/4 | 96,912  | 1/4 | 112,453 | 1/4 | 128,027 | 1/4 | 143,600 |
| 1/2 | 4,409  | 1/2 | 20,035 | 1/2 | 35,640 | 1/2 | 50,586 | 1/2 | 66,082 | 1/2 | 81,668 | 1/2 | 97,235  | 1/2 | 112,777 | 1/2 | 128,351 | 1/2 | 143,925 |
| 3/4 | 4,734  | 3/4 | 20,360 | 3/4 | 35,965 | 3/4 | 50,897 | 3/4 | 66,406 | 3/4 | 81,992 | 3/4 | 97,559  | 3/4 | 113,102 | 3/4 | 128,676 | 3/4 | 144,249 |
| 4   | 5,059  | 4   | 20,686 | 4   | 36,289 | 4   | 51,207 | 4   | 66,731 | 4   | 82,317 | 4   | 97,883  | 4   | 113,426 | 4   | 129,000 | 4   | 144,574 |
| 1/4 | 5,384  | 1/4 | 21,011 | 1/4 | 36,613 | 1/4 | 51,518 | 1/4 | 67,055 | 1/4 | 82,642 | 1/4 | 98,206  | 1/4 | 113,751 | 1/4 | 129,325 | 1/4 | 144,897 |
| 1/2 | 5,710  | 1/2 | 21,337 | 1/2 | 36,937 | 1/2 | 51,829 | 1/2 | 67,380 | 1/2 | 82,967 | 1/2 | 98,530  | 1/2 | 114,075 | 1/2 | 129,649 | 1/2 | 145,221 |
| 3/4 | 6,035  | 3/4 | 21,662 | 3/4 | 37,261 | 3/4 | 52,139 | 3/4 | 67,705 | 3/4 | 83,291 | 3/4 | 98,853  | 3/4 | 114,400 | 3/4 | 129,974 | 3/4 | 145,545 |
| 5   | 6,361  | 5   | 21,988 | 5   | 37,585 | 5   | 52,450 | 5   | 68,029 | 5   | 83,616 | 5   | 99,177  | 5   | 114,724 | 5   | 130,298 | 5   | 145,868 |
| 1/4 | 6,686  | 1/4 | 22,314 | 1/4 | 37,895 | 1/4 | 52,773 | 1/4 | 68,354 | 1/4 | 83,941 | 1/4 | 99,501  | 1/4 | 115,049 | 1/4 | 130,623 | 1/4 | 146,192 |
| 1/2 | 7,012  | 1/2 | 22,639 | 1/2 | 38,206 | 1/2 | 53,096 | 1/2 | 68,679 | 1/2 | 84,265 | 1/2 | 99,824  | 1/2 | 115,373 | 1/2 | 130,947 | 1/2 | 146,516 |
| 3/4 | 7,337  | 3/4 | 22,965 | 3/4 | 38,517 | 3/4 | 53,419 | 3/4 | 69,003 | 3/4 | 84,590 | 3/4 | 100,148 | 3/4 | 115,697 | 3/4 | 131,272 | 3/4 | 146,839 |
| 6   | 7,663  | 6   | 23,290 | 6   | 38,827 | 6   | 53,742 | 6   | 69,328 | 6   | 84,915 | 6   | 100,472 | 6   | 116,022 | 6   | 131,596 | 6   | 147,163 |
| 1/4 | 7,989  | 1/4 | 23,616 | 1/4 | 39,137 | 1/4 | 54,067 | 1/4 | 69,653 | 1/4 | 85,240 | 1/4 | 100,795 | 1/4 | 116,346 | 1/4 | 131,921 | 1/4 | 147,486 |
| 1/2 | 8,314  | 1/2 | 23,941 | 1/2 | 39,446 | 1/2 | 54,392 | 1/2 | 69,977 | 1/2 | 85,564 | 1/2 | 101,119 | 1/2 | 116,671 | 1/2 | 132,245 | 1/2 | 147,810 |
| 3/4 | 8,640  | 3/4 | 24,267 | 3/4 | 39,755 | 3/4 | 54,716 | 3/4 | 70,302 | 3/4 | 85,889 | 3/4 | 101,442 | 3/4 | 116,995 | 3/4 | 132,569 | 3/4 | 148,133 |
| 7   | 8,965  | 7   | 24,593 | 7   | 40,064 | 7   | 55,041 | 7   | 70,627 | 7   | 86,214 | 7   | 101,766 | 7   | 117,320 | 7   | 132,894 | 7   | 148,456 |
| 1/4 | 9,291  | 1/4 | 24,918 | 1/4 | 40,373 | 1/4 | 55,366 | 1/4 | 70,952 | 1/4 | 86,539 | 1/4 | 102,090 | 1/4 | 117,644 | 1/4 | 133,218 | 1/4 | 148,780 |
| 1/2 | 9,616  | 1/2 | 25,244 | 1/2 | 40,682 | 1/2 | 55,690 | 1/2 | 71,276 | 1/2 | 86,863 | 1/2 | 102,413 | 1/2 | 117,969 | 1/2 | 133,543 | 1/2 | 149,103 |
| 3/4 | 9,942  | 3/4 | 25,569 | 3/4 | 40,992 | 3/4 | 56,015 | 3/4 | 71,601 | 3/4 | 87,188 | 3/4 | 102,737 | 3/4 | 118,293 | 3/4 | 133,867 | 3/4 | 149,426 |
| 8   | 10,268 | 8   | 25,895 | 8   | 41,301 | 8   | 56,340 | 8   | 71,926 | 8   | 87,513 | 8   | 103,061 | 8   | 118,618 | 8   | 134,192 | 8   | 149,750 |
| 1/4 | 10,593 | 1/4 | 26,220 | 1/4 | 41,610 | 1/4 | 56,665 | 1/4 | 72,250 | 1/4 | 87,837 | 1/4 | 103,384 | 1/4 | 118,942 | 1/4 | 134,516 | 1/4 | 150,073 |
| 1/2 | 10,919 | 1/2 | 26,546 | 1/2 | 41,919 | 1/2 | 56,989 | 1/2 | 72,575 | 1/2 | 88,162 | 1/2 | 103,708 | 1/2 | 119,267 | 1/2 | 134,841 | 1/2 | 150,396 |
| 3/4 | 11,244 | 3/4 | 26,871 | 3/4 | 42,229 | 3/4 | 57,314 | 3/4 | 72,900 | 3/4 | 88,487 | 3/4 | 104,031 | 3/4 | 119,591 | 3/4 | 135,165 | 3/4 | 150,719 |
| 9   | 11,570 | 9   | 27,197 | 9   | 42,538 | 9   | 57,639 | 9   | 73,225 | 9   | 88,812 | 9   | 104,355 | 9   | 119,915 | 9   | 135,489 | 9   | 151,042 |
| 1/4 | 11,895 | 1/4 | 27,523 | 1/4 | 42,847 | 1/4 | 57,964 | 1/4 | 73,549 | 1/4 | 89,136 | 1/4 | 104,678 | 1/4 | 120,240 | 1/4 | 135,814 | 1/4 | 151,363 |
| 1/2 | 12,221 | 1/2 | 27,848 | 1/2 | 43,156 | 1/2 | 58,288 | 1/2 | 73,874 | 1/2 | 89,461 | 1/2 | 105,002 | 1/2 | 120,564 | 1/2 | 136,138 | 1/2 | 151,685 |
| 3/4 | 12,547 | 3/4 | 28,174 | 3/4 | 43,465 | 3/4 | 58,613 | 3/4 | 74,199 | 3/4 | 89,786 | 3/4 | 105,325 | 3/4 | 120,889 | 3/4 | 136,463 | 3/4 | 152,007 |
| 10  | 12,872 | 10  | 28,499 | 10  | 43,775 | 10  | 58,938 | 10  | 74,524 | 10  | 90,111 | 10  | 105,648 | 10  | 121,213 | 10  | 136,787 | 10  | 152,328 |
| 1/4 | 13,198 | 1/4 | 28,824 | 1/4 | 44,084 | 1/4 | 59,262 | 1/4 | 74,848 | 1/4 | 90,435 | 1/4 | 105,972 | 1/4 | 121,538 | 1/4 | 137,112 | 1/4 | 152,641 |
| 1/2 | 13,523 | 1/2 | 29,149 | 1/2 | 44,393 | 1/2 | 59,587 | 1/2 | 75,173 | 1/2 | 90,760 | 1/2 | 106,295 | 1/2 | 121,862 | 1/2 | 137,436 | 1/2 | 152,953 |
| 3/4 | 13,849 | 3/4 | 29,473 | 3/4 | 44,702 | 3/4 | 59,912 | 3/4 | 75,498 | 3/4 | 91,085 | 3/4 | 106,618 | 3/4 | 122,187 | 3/4 | 137,760 | 3/4 | 153,265 |
| 11  | 14,174 | 11  | 29,798 | 11  | 45,011 | 11  | 60,237 | 11  | 75,823 | 11  | 91,410 | 11  | 106,942 | 11  | 122,511 | 11  | 138,085 | 11  | 153,578 |
| 1/4 | 14,500 | 1/4 | 30,123 | 1/4 | 45,321 | 1/4 | 60,561 | 1/4 | 76,147 | 1/4 | 91,733 | 1/4 | 107,266 | 1/4 | 122,836 | 1/4 | 138,409 | 1/4 | 153,878 |
| 1/2 | 14,825 | 1/2 | 30,447 | 1/2 | 45,630 | 1/2 | 60,886 | 1/2 | 76,472 | 1/2 | 92,057 | 1/2 | 107,590 | 1/2 | 123,160 | 1/2 | 138,734 | 1/2 | 154,178 |
| 3/4 | 15,151 | 3/4 | 30,772 | 3/4 | 45,939 | 3/4 | 61,211 | 3/4 | 76,797 | 3/4 | 92,381 | 3/4 | 107,914 | 3/4 | 123,485 | 3/4 | 139,058 | 3/4 | 154,478 |

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 THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CBC 309"

**3 STBD**  
**INNAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 3/4"

| IN  | 10 FT.  | IN  | 11 FT.  | IN  | 12 FT.  | IN  | 13 FT.  | IN  | 14 FT.  | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 154,778 | 0   | 167,091 | 0   | 179,039 | 0   | 190,976 | 0   | 202,844 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 155,066 | 1/4 | 167,341 | 1/4 | 179,288 | 1/4 | 191,224 | 1/4 | 203,084 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 155,353 | 1/2 | 167,591 | 1/2 | 179,536 | 1/2 | 191,473 | 1/2 | 203,323 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 155,641 | 3/4 | 167,841 | 3/4 | 179,785 | 3/4 | 191,722 | 3/4 | 203,563 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 155,928 | 1   | 168,091 | 1   | 180,034 | 1   | 191,970 | 1   | 203,802 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 156,203 | 1/4 | 168,341 | 1/4 | 180,282 | 1/4 | 192,219 | 1/4 | 204,011 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 156,478 | 1/2 | 168,591 | 1/2 | 180,531 | 1/2 | 192,468 | 1/2 | 204,220 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 156,753 | 3/4 | 168,841 | 3/4 | 180,780 | 3/4 | 192,716 | 3/4 | 204,429 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 157,028 | 2   | 169,091 | 2   | 181,028 | 2   | 192,965 | 2   | 204,637 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 157,290 | 1/4 | 169,340 | 1/4 | 181,277 | 1/4 | 193,214 | 1/4 | 204,805 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 157,553 | 1/2 | 169,589 | 1/2 | 181,526 | 1/2 | 193,462 | 1/2 | 204,973 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 157,815 | 3/4 | 169,838 | 3/4 | 181,774 | 3/4 | 193,711 | 3/4 | 205,141 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 158,078 | 3   | 170,087 | 3   | 182,023 | 3   | 193,960 | 3   | 205,309 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 158,330 | 1/4 | 170,335 | 1/4 | 182,272 | 1/4 | 194,208 | 1/4 | 205,435 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 158,583 | 1/2 | 170,584 | 1/2 | 182,520 | 1/2 | 194,457 | 1/2 | 205,561 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 158,836 | 3/4 | 170,833 | 3/4 | 182,769 | 3/4 | 194,706 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 159,089 | 4   | 171,081 | 4   | 183,018 | 4   | 194,954 | 4   |         | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 159,339 | 1/4 | 171,330 | 1/4 | 183,267 | 1/4 | 195,203 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 159,589 | 1/2 | 171,579 | 1/2 | 183,515 | 1/2 | 195,452 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 159,839 | 3/4 | 171,827 | 3/4 | 183,764 | 3/4 | 195,700 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 160,090 | 5   | 172,076 | 5   | 184,013 | 5   | 195,949 | 5   |         | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 160,340 | 1/4 | 172,325 | 1/4 | 184,261 | 1/4 | 196,198 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 160,590 | 1/2 | 172,573 | 1/2 | 184,510 | 1/2 | 196,446 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 160,840 | 3/4 | 172,822 | 3/4 | 184,759 | 3/4 | 196,695 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 161,090 | 6   | 173,071 | 6   | 185,007 | 6   | 196,944 | 6   |         | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 161,340 | 1/4 | 173,319 | 1/4 | 185,256 | 1/4 | 197,192 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 161,590 | 1/2 | 173,568 | 1/2 | 185,505 | 1/2 | 197,441 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 161,840 | 3/4 | 173,817 | 3/4 | 185,753 | 3/4 | 197,690 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 162,090 | 7   | 174,065 | 7   | 186,002 | 7   | 197,939 | 7   |         | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 162,340 | 1/4 | 174,314 | 1/4 | 186,251 | 1/4 | 198,185 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 162,590 | 1/2 | 174,563 | 1/2 | 186,499 | 1/2 | 198,431 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 162,840 | 3/4 | 174,811 | 3/4 | 186,748 | 3/4 | 198,677 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 163,090 | 8   | 175,060 | 8   | 186,997 | 8   | 198,924 | 8   |         | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 163,340 | 1/4 | 175,309 | 1/4 | 187,245 | 1/4 | 199,170 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 163,590 | 1/2 | 175,558 | 1/2 | 187,494 | 1/2 | 199,415 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 163,840 | 3/4 | 175,806 | 3/4 | 187,743 | 3/4 | 199,661 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 164,090 | 9   | 176,055 | 9   | 187,991 | 9   | 199,907 | 9   |         | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 164,340 | 1/4 | 176,304 | 1/4 | 188,240 | 1/4 | 200,153 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 164,590 | 1/2 | 176,552 | 1/2 | 188,489 | 1/2 | 200,398 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 164,840 | 3/4 | 176,801 | 3/4 | 188,737 | 3/4 | 200,643 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 165,090 | 10  | 177,050 | 10  | 188,986 | 10  | 200,889 | 10  |         | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 165,341 | 1/4 | 177,298 | 1/4 | 189,235 | 1/4 | 201,134 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 165,591 | 1/2 | 177,547 | 1/2 | 189,483 | 1/2 | 201,379 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 165,841 | 3/4 | 177,796 | 3/4 | 189,732 | 3/4 | 201,624 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 166,091 | 11  | 178,044 | 11  | 189,981 | 11  | 201,869 | 11  |         | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 166,341 | 1/4 | 178,293 | 1/4 | 190,230 | 1/4 | 202,112 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 166,591 | 1/2 | 178,542 | 1/2 | 190,478 | 1/2 | 202,356 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 166,841 | 3/4 | 178,790 | 3/4 | 190,727 | 3/4 | 202,600 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/07/2013 CL - SW  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2013

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

## FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-05 1/2"

| IN  | 0 FT. | IN  | 1 FT. | IN  | 2 FT. | IN  | 3 FT. | IN  | 4 FT. | IN  | 5 FT. | IN  | 6 FT. | IN  | 7 FT. | IN  | 8 FT. | IN  | 9 FT. |
|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 0   | 0     | 0   | 100   | 0   | 257   | 0   | 412   | 0   |       | 0   |       | 0   |       | 0   |       | 0   |       | 0   |       |
| 1/4 | 1     | 1/4 | 103   | 1/4 | 260   | 1/4 | 415   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   |
| 1/2 | 1     | 1/2 | 106   | 1/2 | 263   | 1/2 | 417   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   |
| 3/4 | 2     | 3/4 | 109   | 3/4 | 267   | 3/4 | 420   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   |
| 1   | 3     | 1   | 112   | 1   | 270   | 1   | 423   | 1   |       | 1   |       | 1   |       | 1   |       | 1   |       | 1   |       |
| 1/4 | 4     | 1/4 | 115   | 1/4 | 273   | 1/4 | 426   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   |
| 1/2 | 5     | 1/2 | 119   | 1/2 | 277   | 1/2 | 429   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   |
| 3/4 | 6     | 3/4 | 122   | 3/4 | 280   | 3/4 | 431   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   |
| 2   | 7     | 2   | 125   | 2   | 284   | 2   | 434   | 2   |       | 2   |       | 2   |       | 2   |       | 2   |       | 2   |       |
| 1/4 | 9     | 1/4 | 128   | 1/4 | 287   | 1/4 | 437   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   |
| 1/2 | 10    | 1/2 | 131   | 1/2 | 290   | 1/2 | 440   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   |
| 3/4 | 12    | 3/4 | 134   | 3/4 | 294   | 3/4 | 442   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   |
| 3   | 13    | 3   | 137   | 3   | 297   | 3   | 445   | 3   |       | 3   |       | 3   |       | 3   |       | 3   |       | 3   |       |
| 1/4 | 15    | 1/4 | 140   | 1/4 | 300   | 1/4 | 447   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   |
| 1/2 | 17    | 1/2 | 144   | 1/2 | 304   | 1/2 | 450   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   |
| 3/4 | 19    | 3/4 | 147   | 3/4 | 307   | 3/4 | 452   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   |
| 4   | 20    | 4   | 150   | 4   | 311   | 4   | 455   | 4   |       | 4   |       | 4   |       | 4   |       | 4   |       | 4   |       |
| 1/4 | 22    | 1/4 | 153   | 1/4 | 314   | 1/4 | 457   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   |
| 1/2 | 24    | 1/2 | 156   | 1/2 | 317   | 1/2 | 460   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   |
| 3/4 | 26    | 3/4 | 160   | 3/4 | 320   | 3/4 | 462   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   |
| 5   | 28    | 5   | 163   | 5   | 324   | 5   | 465   | 5   |       | 5   |       | 5   |       | 5   |       | 5   |       | 5   |       |
| 1/4 | 31    | 1/4 | 166   | 1/4 | 327   | 1/4 | 467   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   |
| 1/2 | 33    | 1/2 | 169   | 1/2 | 330   | 1/2 | 469   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   |
| 3/4 | 35    | 3/4 | 173   | 3/4 | 334   | 3/4 | 471   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   |
| 6   | 37    | 6   | 176   | 6   | 337   | 6   | 474   | 6   |       | 6   |       | 6   |       | 6   |       | 6   |       | 6   |       |
| 1/4 | 39    | 1/4 | 179   | 1/4 | 340   | 1/4 | 476   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   |
| 1/2 | 42    | 1/2 | 183   | 1/2 | 343   | 1/2 | 478   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   |
| 3/4 | 44    | 3/4 | 186   | 3/4 | 347   | 3/4 | 480   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   |
| 7   | 46    | 7   | 189   | 7   | 350   | 7   | 482   | 7   |       | 7   |       | 7   |       | 7   |       | 7   |       | 7   |       |
| 1/4 | 49    | 1/4 | 192   | 1/4 | 353   | 1/4 | 484   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   |
| 1/2 | 51    | 1/2 | 196   | 1/2 | 356   | 1/2 | 486   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   |
| 3/4 | 54    | 3/4 | 199   | 3/4 | 360   | 3/4 | 488   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   |
| 8   | 56    | 8   | 202   | 8   | 363   | 8   | 489   | 8   |       | 8   |       | 8   |       | 8   |       | 8   |       | 8   |       |
| 1/4 | 59    | 1/4 | 206   | 1/4 | 366   | 1/4 | 491   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   |
| 1/2 | 62    | 1/2 | 209   | 1/2 | 369   | 1/2 | 493   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   |
| 3/4 | 64    | 3/4 | 213   | 3/4 | 372   | 3/4 | 494   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   |
| 9   | 67    | 9   | 216   | 9   | 375   | 9   | 496   | 9   |       | 9   |       | 9   |       | 9   |       | 9   |       | 9   |       |
| 1/4 | 69    | 1/4 | 219   | 1/4 | 379   | 1/4 | 497   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   |
| 1/2 | 72    | 1/2 | 223   | 1/2 | 382   | 1/2 | 499   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   |
| 3/4 | 75    | 3/4 | 226   | 3/4 | 385   | 3/4 | 500   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   |
| 10  | 78    | 10  | 229   | 10  | 388   | 10  | 502   | 10  |       | 10  |       | 10  |       | 10  |       | 10  |       | 10  |       |
| 1/4 | 80    | 1/4 | 233   | 1/4 | 391   | 1/4 | 502   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   |
| 1/2 | 83    | 1/2 | 236   | 1/2 | 394   | 1/2 | 502   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   |
| 3/4 | 86    | 3/4 | 240   | 3/4 | 397   | 3/4 | 502   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   |
| 11  | 89    | 11  | 243   | 11  | 400   | 11  | 502   | 11  |       | 11  |       | 11  |       | 11  |       | 11  |       | 11  |       |
| 1/4 | 92    | 1/4 | 246   | 1/4 | 403   | 1/4 |       | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   |
| 1/2 | 95    | 1/2 | 250   | 1/2 | 406   | 1/2 |       | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   |
| 3/4 | 98    | 3/4 | 253   | 3/4 | 409   | 3/4 |       | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   |

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 8" DIAMETER HATCH.

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CALCULATED: 01/07/2013 CL  
PRINTED: 01/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2013

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

## ULLAGE TRIM TABLE

|        | 1 FT.      |              | 2 FT.      |              | 3 FT.      |              | 4 FT.      |              | 5 FT.      |              | 6 FT.      |              |
|--------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
|        | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> |
| 1 PORT | 00-0/8     | - 00-0/8     | 00-0/8     | - 00-0/8     | 00-0/8     | - 00-0/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     |
| 1 STBD | 00-0/8     | - 00-0/8     | 00-0/8     | - 00-0/8     | 00-0/8     | - 00-0/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     |
| 2 PORT | 00-0/8     | - 00-0/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     | 00-1/4     | - 00-1/4     | 00-1/4     | - 00-1/4     |
| 2 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     | 00-1/4     | - 00-1/4     |
| 3 PORT | 00-0/8     | - 00-0/8     | 00-0/8     | - 00-0/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     |
| 3 STBD | 00-0/8     | - 00-0/8     | 00-0/8     | - 00-0/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     |

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 6'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

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

LENGTH BETWEEN DRAFT MARKS: 238'-03"

January 7, 2013

PRECISION MEASUREMENT  
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# BARGE "CBC 309"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 1/2"

| IN  | 0 FT. | IN  | 1 FT. | IN  | 2 FT.   | IN  | 3 FT.   | IN  | 4 FT.   | IN  | 5 FT.   | IN  | 6 FT.   | IN  | 7 FT.   | IN  | 8 FT.   | IN  | 9 FT.   |
|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0   |       | 0   |       | 0   | 220,078 | 0   | 205,543 | 0   | 189,920 | 0   | 174,297 | 0   | 158,597 | 0   | 142,887 | 0   | 127,175 | 0   | 111,461 |
| 1/4 |       | 1/4 |       | 1/4 | 219,912 | 1/4 | 205,217 | 1/4 | 189,595 | 1/4 | 173,972 | 1/4 | 158,270 | 1/4 | 142,559 | 1/4 | 126,848 | 1/4 | 111,134 |
| 1/2 |       | 1/2 |       | 1/2 | 219,747 | 1/2 | 204,892 | 1/2 | 189,269 | 1/2 | 173,646 | 1/2 | 157,942 | 1/2 | 142,232 | 1/2 | 126,520 | 1/2 | 110,806 |
| 3/4 |       | 3/4 |       | 3/4 | 219,527 | 3/4 | 204,566 | 3/4 | 188,944 | 3/4 | 173,321 | 3/4 | 157,615 | 3/4 | 141,905 | 3/4 | 126,193 | 3/4 | 110,479 |
| 1   |       | 1   |       | 1   | 219,307 | 1   | 204,241 | 1   | 188,618 | 1   | 172,995 | 1   | 157,288 | 1   | 141,577 | 1   | 125,866 | 1   | 110,151 |
| 1/4 |       | 1/4 |       | 1/4 | 219,088 | 1/4 | 203,915 | 1/4 | 188,293 | 1/4 | 172,669 | 1/4 | 156,960 | 1/4 | 141,250 | 1/4 | 125,538 | 1/4 | 109,824 |
| 1/2 |       | 1/2 |       | 1/2 | 218,868 | 1/2 | 203,590 | 1/2 | 187,967 | 1/2 | 172,344 | 1/2 | 156,633 | 1/2 | 140,923 | 1/2 | 125,211 | 1/2 | 109,497 |
| 3/4 |       | 3/4 |       | 3/4 | 218,595 | 3/4 | 203,265 | 3/4 | 187,642 | 3/4 | 172,016 | 3/4 | 156,306 | 3/4 | 140,596 | 3/4 | 124,883 | 3/4 | 109,169 |
| 2   |       | 2   |       | 2   | 218,322 | 2   | 202,939 | 2   | 187,316 | 2   | 171,689 | 2   | 155,979 | 2   | 140,268 | 2   | 124,556 | 2   | 108,842 |
| 1/4 |       | 1/4 |       | 1/4 | 218,048 | 1/4 | 202,614 | 1/4 | 186,991 | 1/4 | 171,362 | 1/4 | 155,651 | 1/4 | 139,941 | 1/4 | 124,229 | 1/4 | 108,515 |
| 1/2 |       | 1/2 |       | 1/2 | 217,775 | 1/2 | 202,288 | 1/2 | 186,665 | 1/2 | 171,034 | 1/2 | 155,324 | 1/2 | 139,614 | 1/2 | 123,901 | 1/2 | 108,187 |
| 3/4 |       | 3/4 |       | 3/4 | 217,462 | 3/4 | 201,963 | 3/4 | 186,340 | 3/4 | 170,707 | 3/4 | 154,997 | 3/4 | 139,286 | 3/4 | 123,574 | 3/4 | 107,860 |
| 3   |       | 3   |       | 3   | 217,148 | 3   | 201,637 | 3   | 186,014 | 3   | 170,380 | 3   | 154,669 | 3   | 138,959 | 3   | 123,247 | 3   | 107,532 |
| 1/4 |       | 1/4 |       | 1/4 | 216,835 | 1/4 | 201,312 | 1/4 | 185,689 | 1/4 | 170,052 | 1/4 | 154,342 | 1/4 | 138,632 | 1/4 | 122,919 | 1/4 | 107,205 |
| 1/2 |       | 1/2 |       | 1/2 | 216,521 | 1/2 | 200,986 | 1/2 | 185,363 | 1/2 | 169,725 | 1/2 | 154,015 | 1/2 | 138,304 | 1/2 | 122,592 | 1/2 | 106,878 |
| 3/4 |       | 3/4 |       | 3/4 | 216,202 | 3/4 | 200,661 | 3/4 | 185,038 | 3/4 | 169,398 | 3/4 | 153,687 | 3/4 | 137,977 | 3/4 | 122,264 | 3/4 | 106,550 |
| 4   |       | 4   |       | 4   | 215,882 | 4   | 200,335 | 4   | 184,713 | 4   | 169,071 | 4   | 153,360 | 4   | 137,650 | 4   | 121,937 | 4   | 106,223 |
| 1/4 |       | 1/4 |       | 1/4 | 215,563 | 1/4 | 200,010 | 1/4 | 184,387 | 1/4 | 168,743 | 1/4 | 153,033 | 1/4 | 137,323 | 1/4 | 121,610 | 1/4 | 105,896 |
| 1/2 |       | 1/2 |       | 1/2 | 215,244 | 1/2 | 199,684 | 1/2 | 184,062 | 1/2 | 168,416 | 1/2 | 152,706 | 1/2 | 136,995 | 1/2 | 121,282 | 1/2 | 105,568 |
| 3/4 |       | 3/4 |       | 3/4 | 214,923 | 3/4 | 199,359 | 3/4 | 183,736 | 3/4 | 168,089 | 3/4 | 152,378 | 3/4 | 136,668 | 3/4 | 120,955 | 3/4 | 105,241 |
| 5   |       | 5   |       | 5   | 214,602 | 5   | 199,033 | 5   | 183,411 | 5   | 167,761 | 5   | 152,051 | 5   | 136,341 | 5   | 120,628 | 5   | 104,913 |
| 1/4 |       | 1/4 |       | 1/4 | 214,282 | 1/4 | 198,708 | 1/4 | 183,085 | 1/4 | 167,434 | 1/4 | 151,724 | 1/4 | 136,013 | 1/4 | 120,300 | 1/4 | 104,586 |
| 1/2 |       | 1/2 |       | 1/2 | 213,961 | 1/2 | 198,382 | 1/2 | 182,760 | 1/2 | 167,107 | 1/2 | 151,396 | 1/2 | 135,686 | 1/2 | 119,973 | 1/2 | 104,259 |
| 3/4 |       | 3/4 |       | 3/4 | 213,640 | 3/4 | 198,057 | 3/4 | 182,434 | 3/4 | 166,779 | 3/4 | 151,069 | 3/4 | 135,359 | 3/4 | 119,645 | 3/4 | 103,931 |
| 6   |       | 6   |       | 6   | 213,319 | 6   | 197,731 | 6   | 182,109 | 6   | 166,452 | 6   | 150,742 | 6   | 135,031 | 6   | 119,318 | 6   | 103,604 |
| 1/4 |       | 1/4 |       | 1/4 | 212,997 | 1/4 | 197,406 | 1/4 | 181,783 | 1/4 | 166,125 | 1/4 | 150,415 | 1/4 | 134,704 | 1/4 | 118,991 | 1/4 | 103,277 |
| 1/2 |       | 1/2 |       | 1/2 | 212,676 | 1/2 | 197,081 | 1/2 | 181,458 | 1/2 | 165,798 | 1/2 | 150,087 | 1/2 | 134,377 | 1/2 | 118,663 | 1/2 | 102,949 |
| 3/4 |       | 3/4 |       | 3/4 | 212,354 | 3/4 | 196,755 | 3/4 | 181,132 | 3/4 | 165,470 | 3/4 | 149,760 | 3/4 | 134,050 | 3/4 | 118,336 | 3/4 | 102,622 |
| 7   |       | 7   |       | 7   | 212,033 | 7   | 196,430 | 7   | 180,807 | 7   | 165,143 | 7   | 149,433 | 7   | 133,722 | 7   | 118,009 | 7   | 102,294 |
| 1/4 |       | 1/4 |       | 1/4 | 211,711 | 1/4 | 196,104 | 1/4 | 180,481 | 1/4 | 164,816 | 1/4 | 149,105 | 1/4 | 133,395 | 1/4 | 117,681 | 1/4 | 101,967 |
| 1/2 |       | 1/2 |       | 1/2 | 211,389 | 1/2 | 195,779 | 1/2 | 180,156 | 1/2 | 164,488 | 1/2 | 148,778 | 1/2 | 133,068 | 1/2 | 117,354 | 1/2 | 101,640 |
| 3/4 |       | 3/4 |       | 3/4 | 211,067 | 3/4 | 195,453 | 3/4 | 179,830 | 3/4 | 164,161 | 3/4 | 148,451 | 3/4 | 132,740 | 3/4 | 117,026 | 3/4 | 101,312 |
| 8   |       | 8   |       | 8   | 210,744 | 8   | 195,128 | 8   | 179,505 | 8   | 163,834 | 8   | 148,123 | 8   | 132,413 | 8   | 116,699 | 8   | 100,985 |
| 1/4 |       | 1/4 |       | 1/4 | 210,422 | 1/4 | 194,802 | 1/4 | 179,179 | 1/4 | 163,506 | 1/4 | 147,796 | 1/4 | 132,086 | 1/4 | 116,372 | 1/4 | 100,658 |
| 1/2 |       | 1/2 |       | 1/2 | 210,099 | 1/2 | 194,477 | 1/2 | 178,854 | 1/2 | 163,179 | 1/2 | 147,469 | 1/2 | 131,758 | 1/2 | 116,044 | 1/2 | 100,330 |
| 3/4 |       | 3/4 |       | 3/4 | 209,774 | 3/4 | 194,151 | 3/4 | 178,528 | 3/4 | 162,852 | 3/4 | 147,142 | 3/4 | 131,431 | 3/4 | 115,717 | 3/4 | 100,003 |
| 9   |       | 9   |       | 9   | 209,449 | 9   | 193,826 | 9   | 178,203 | 9   | 162,525 | 9   | 146,814 | 9   | 131,104 | 9   | 115,389 | 9   | 99,675  |
| 1/4 |       | 1/4 |       | 1/4 | 209,123 | 1/4 | 193,500 | 1/4 | 177,878 | 1/4 | 162,197 | 1/4 | 146,487 | 1/4 | 130,776 | 1/4 | 115,062 | 1/4 | 99,348  |
| 1/2 |       | 1/2 |       | 1/2 | 208,798 | 1/2 | 193,175 | 1/2 | 177,552 | 1/2 | 161,870 | 1/2 | 146,160 | 1/2 | 130,449 | 1/2 | 114,735 | 1/2 | 99,021  |
| 3/4 |       | 3/4 |       | 3/4 | 208,472 | 3/4 | 192,849 | 3/4 | 177,227 | 3/4 | 161,543 | 3/4 | 145,832 | 3/4 | 130,121 | 3/4 | 114,407 | 3/4 | 98,693  |
| 10  |       | 10  |       | 10  | 208,147 | 10  | 192,524 | 10  | 176,901 | 10  | 161,215 | 10  | 145,505 | 10  | 129,794 | 10  | 114,080 | 10  | 98,366  |
| 1/4 |       | 1/4 |       | 1/4 | 207,821 | 1/4 | 192,198 | 1/4 | 176,576 | 1/4 | 160,888 | 1/4 | 145,178 | 1/4 | 129,467 | 1/4 | 113,753 | 1/4 | 98,038  |
| 1/2 |       | 1/2 |       | 1/2 | 207,496 | 1/2 | 191,873 | 1/2 | 176,250 | 1/2 | 160,561 | 1/2 | 144,850 | 1/2 | 129,139 | 1/2 | 113,425 | 1/2 | 97,711  |
| 3/4 |       | 3/4 |       | 3/4 | 207,170 | 3/4 | 191,547 | 3/4 | 175,925 | 3/4 | 160,233 | 3/4 | 144,523 | 3/4 | 128,812 | 3/4 | 113,098 | 3/4 | 97,384  |
| 11  |       | 11  |       | 11  | 206,845 | 11  | 191,222 | 11  | 175,599 | 11  | 159,906 | 11  | 144,196 | 11  | 128,485 | 11  | 112,770 | 11  | 97,056  |
| 1/4 |       | 1/4 |       | 1/4 | 206,519 | 1/4 | 190,897 | 1/4 | 175,274 | 1/4 | 159,579 | 1/4 | 143,869 | 1/4 | 128,157 | 1/4 | 112,443 | 1/4 | 96,729  |
| 1/2 |       | 1/2 |       | 1/2 | 206,194 | 1/2 | 190,571 | 1/2 | 174,948 | 1/2 | 159,252 | 1/2 | 143,541 | 1/2 | 127,830 | 1/2 | 112,116 | 1/2 | 96,402  |
| 3/4 |       | 3/4 |       | 3/4 | 205,868 | 3/4 | 190,246 | 3/4 | 174,623 | 3/4 | 158,924 | 3/4 | 143,214 | 3/4 | 127,502 | 3/4 | 111,788 | 3/4 | 96,074  |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CBC 309"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 1/2"

| IN  | 10 FT. | IN  | 11 FT. | IN  | 12 FT. | IN  | 13 FT. | IN  | 14 FT. | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 95,747 | 0   | 80,033 | 0   | 64,319 | 0   | 48,605 | 0   | 32,993 | 0   | 17,508 | 0   | 3,554  | 0   |        | 0   |        | 0   |        |
| 1/4 | 95,419 | 1/4 | 79,705 | 1/4 | 63,991 | 1/4 | 48,277 | 1/4 | 32,668 | 1/4 | 17,197 | 1/4 | 3,284  | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 95,092 | 1/2 | 79,378 | 1/2 | 63,664 | 1/2 | 47,950 | 1/2 | 32,342 | 1/2 | 16,886 | 1/2 | 3,015  | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 94,765 | 3/4 | 79,051 | 3/4 | 63,336 | 3/4 | 47,623 | 3/4 | 32,015 | 3/4 | 16,578 | 3/4 | 2,754  | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 1   | 94,437 | 1   | 78,723 | 1   | 63,009 | 1   | 47,296 | 1   | 31,687 | 1   | 16,270 | 1   | 2,494  | 1   |        | 1   |        | 1   |        |
| 1/4 | 94,110 | 1/4 | 78,396 | 1/4 | 62,682 | 1/4 | 46,969 | 1/4 | 31,360 | 1/4 | 15,963 | 1/4 | 2,233  | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 93,783 | 1/2 | 78,068 | 1/2 | 62,354 | 1/2 | 46,642 | 1/2 | 31,033 | 1/2 | 15,655 | 1/2 | 1,973  | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 93,455 | 3/4 | 77,741 | 3/4 | 62,027 | 3/4 | 46,315 | 3/4 | 30,705 | 3/4 | 15,350 | 3/4 | 1,761  | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 2   | 93,128 | 2   | 77,414 | 2   | 61,700 | 2   | 45,989 | 2   | 30,378 | 2   | 15,046 | 2   | 1,548  | 2   |        | 2   |        | 2   |        |
| 1/4 | 92,800 | 1/4 | 77,086 | 1/4 | 61,372 | 1/4 | 45,662 | 1/4 | 30,051 | 1/4 | 14,742 | 1/4 | 1,336  | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 92,473 | 1/2 | 76,759 | 1/2 | 61,045 | 1/2 | 45,335 | 1/2 | 29,723 | 1/2 | 14,437 | 1/2 | 1,124  | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 92,146 | 3/4 | 76,432 | 3/4 | 60,717 | 3/4 | 45,010 | 3/4 | 29,396 | 3/4 | 14,136 | 3/4 | 989    | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 3   | 91,818 | 3   | 76,104 | 3   | 60,390 | 3   | 44,686 | 3   | 29,068 | 3   | 13,835 | 3   | 854    | 3   |        | 3   |        | 3   |        |
| 1/4 | 91,491 | 1/4 | 75,777 | 1/4 | 60,063 | 1/4 | 44,361 | 1/4 | 28,741 | 1/4 | 13,534 | 1/4 | 719    | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 91,164 | 1/2 | 75,449 | 1/2 | 59,735 | 1/2 | 44,037 | 1/2 | 28,414 | 1/2 | 13,233 | 1/2 | 585    | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 90,836 | 3/4 | 75,122 | 3/4 | 59,408 | 3/4 | 43,712 | 3/4 | 28,086 | 3/4 | 12,936 | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 4   | 90,509 | 4   | 74,795 | 4   | 59,081 | 4   | 43,387 | 4   | 27,759 | 4   | 12,638 | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 90,181 | 1/4 | 74,467 | 1/4 | 58,753 | 1/4 | 43,063 | 1/4 | 27,432 | 1/4 | 12,341 | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 89,854 | 1/2 | 74,140 | 1/2 | 58,426 | 1/2 | 42,738 | 1/2 | 27,104 | 1/2 | 12,043 | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 89,527 | 3/4 | 73,813 | 3/4 | 58,098 | 3/4 | 42,413 | 3/4 | 26,777 | 3/4 | 11,749 | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 5   | 89,199 | 5   | 73,485 | 5   | 57,771 | 5   | 42,089 | 5   | 26,449 | 5   | 11,455 | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 88,872 | 1/4 | 73,158 | 1/4 | 57,444 | 1/4 | 41,764 | 1/4 | 26,122 | 1/4 | 11,161 | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 88,545 | 1/2 | 72,830 | 1/2 | 57,116 | 1/2 | 41,439 | 1/2 | 25,795 | 1/2 | 10,867 | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 88,217 | 3/4 | 72,503 | 3/4 | 56,789 | 3/4 | 41,115 | 3/4 | 25,468 | 3/4 | 10,576 | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 6   | 87,890 | 6   | 72,176 | 6   | 56,462 | 6   | 40,790 | 6   | 25,142 | 6   | 10,285 | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 87,562 | 1/4 | 71,848 | 1/4 | 56,134 | 1/4 | 40,465 | 1/4 | 24,816 | 1/4 | 9,994  | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 87,235 | 1/2 | 71,521 | 1/2 | 55,807 | 1/2 | 40,141 | 1/2 | 24,490 | 1/2 | 9,704  | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 86,908 | 3/4 | 71,194 | 3/4 | 55,479 | 3/4 | 39,816 | 3/4 | 24,171 | 3/4 | 9,416  | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 7   | 86,580 | 7   | 70,866 | 7   | 55,152 | 7   | 39,491 | 7   | 23,853 | 7   | 9,129  | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 86,253 | 1/4 | 70,539 | 1/4 | 54,825 | 1/4 | 39,167 | 1/4 | 23,534 | 1/4 | 8,842  | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 85,926 | 1/2 | 70,211 | 1/2 | 54,497 | 1/2 | 38,842 | 1/2 | 23,215 | 1/2 | 8,554  | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 85,598 | 3/4 | 69,884 | 3/4 | 54,170 | 3/4 | 38,518 | 3/4 | 22,898 | 3/4 | 8,270  | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 8   | 85,271 | 8   | 69,557 | 8   | 53,843 | 8   | 38,193 | 8   | 22,581 | 8   | 7,986  | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 84,943 | 1/4 | 69,229 | 1/4 | 53,515 | 1/4 | 37,868 | 1/4 | 22,264 | 1/4 | 7,702  | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 84,616 | 1/2 | 68,902 | 1/2 | 53,188 | 1/2 | 37,544 | 1/2 | 21,947 | 1/2 | 7,418  | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 84,289 | 3/4 | 68,575 | 3/4 | 52,860 | 3/4 | 37,219 | 3/4 | 21,625 | 3/4 | 7,138  | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 9   | 83,961 | 9   | 68,247 | 9   | 52,533 | 9   | 36,894 | 9   | 21,304 | 9   | 6,857  | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 83,634 | 1/4 | 67,920 | 1/4 | 52,206 | 1/4 | 36,570 | 1/4 | 20,982 | 1/4 | 6,577  | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 83,306 | 1/2 | 67,592 | 1/2 | 51,878 | 1/2 | 36,245 | 1/2 | 20,661 | 1/2 | 6,296  | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 82,979 | 3/4 | 67,265 | 3/4 | 51,551 | 3/4 | 35,920 | 3/4 | 20,343 | 3/4 | 6,019  | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 10  | 82,652 | 10  | 66,938 | 10  | 51,223 | 10  | 35,596 | 10  | 20,025 | 10  | 5,742  | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 82,324 | 1/4 | 66,610 | 1/4 | 50,896 | 1/4 | 35,271 | 1/4 | 19,707 | 1/4 | 5,465  | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 81,997 | 1/2 | 66,283 | 1/2 | 50,569 | 1/2 | 34,946 | 1/2 | 19,389 | 1/2 | 5,188  | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 81,670 | 3/4 | 65,955 | 3/4 | 50,241 | 3/4 | 34,621 | 3/4 | 19,074 | 3/4 | 4,914  | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 11  | 81,342 | 11  | 65,628 | 11  | 49,914 | 11  | 34,295 | 11  | 18,760 | 11  | 4,641  | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 81,015 | 1/4 | 65,301 | 1/4 | 49,587 | 1/4 | 33,970 | 1/4 | 18,445 | 1/4 | 4,367  | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 80,687 | 1/2 | 64,973 | 1/2 | 49,259 | 1/2 | 33,645 | 1/2 | 18,131 | 1/2 | 4,094  | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 80,360 | 3/4 | 64,646 | 3/4 | 48,932 | 3/4 | 33,319 | 3/4 | 17,819 | 3/4 | 3,824  | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/07/2013 CL - SW  
CALCULATED: 01/07/2013 CL  
PRINTED: 01/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2013

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



# BARGE "CBC 309"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 3/4"

| IN  | 0 FT. | IN  | 1 FT. | IN  | 2 FT. | IN  | 3 FT.   | IN  | 4 FT.   | IN  | 5 FT.   | IN  | 6 FT.   | IN  | 7 FT.   | IN  | 8 FT.   | IN  | 9 FT.   |
|-----|-------|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0   |       | 0   |       | 0   |       | 0   | 205,929 | 0   | 190,307 | 0   | 174,684 | 0   | 158,985 | 0   | 143,275 | 0   | 127,563 | 0   | 111,849 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 220,138 | 1/4 | 205,604 | 1/4 | 189,981 | 1/4 | 174,358 | 1/4 | 158,658 | 1/4 | 142,948 | 1/4 | 111,522 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 219,973 | 1/2 | 205,278 | 1/2 | 189,656 | 1/2 | 174,033 | 1/2 | 158,331 | 1/2 | 142,620 | 1/2 | 111,195 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 219,808 | 3/4 | 204,953 | 3/4 | 189,330 | 3/4 | 173,707 | 3/4 | 158,003 | 3/4 | 142,293 | 3/4 | 110,867 |
| 1   |       | 1   |       | 1   |       | 1   | 219,588 | 1   | 204,627 | 1   | 189,005 | 1   | 173,382 | 1   | 157,676 | 1   | 141,966 | 1   | 110,540 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 219,368 | 1/4 | 204,302 | 1/4 | 188,679 | 1/4 | 173,056 | 1/4 | 157,349 | 1/4 | 141,638 | 1/4 | 110,212 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 219,149 | 1/2 | 203,976 | 1/2 | 188,354 | 1/2 | 172,730 | 1/2 | 157,021 | 1/2 | 141,311 | 1/2 | 109,885 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 218,929 | 3/4 | 203,651 | 3/4 | 188,028 | 3/4 | 172,405 | 3/4 | 156,694 | 3/4 | 140,984 | 3/4 | 109,558 |
| 2   |       | 2   |       | 2   |       | 2   | 218,656 | 2   | 203,325 | 2   | 187,703 | 2   | 172,077 | 2   | 156,367 | 2   | 140,656 | 2   | 109,230 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 218,382 | 1/4 | 203,000 | 1/4 | 187,377 | 1/4 | 171,750 | 1/4 | 156,040 | 1/4 | 140,329 | 1/4 | 108,903 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 218,109 | 1/2 | 202,675 | 1/2 | 187,052 | 1/2 | 171,423 | 1/2 | 155,712 | 1/2 | 140,002 | 1/2 | 108,576 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 217,836 | 3/4 | 202,349 | 3/4 | 186,726 | 3/4 | 171,095 | 3/4 | 155,385 | 3/4 | 139,675 | 3/4 | 108,248 |
| 3   |       | 3   |       | 3   |       | 3   | 217,523 | 3   | 202,024 | 3   | 186,401 | 3   | 170,768 | 3   | 155,058 | 3   | 139,347 | 3   | 107,921 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 217,209 | 1/4 | 201,698 | 1/4 | 186,075 | 1/4 | 170,441 | 1/4 | 154,730 | 1/4 | 139,020 | 1/4 | 107,593 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 216,896 | 1/2 | 201,373 | 1/2 | 185,750 | 1/2 | 170,113 | 1/2 | 154,403 | 1/2 | 138,693 | 1/2 | 107,266 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 216,582 | 3/4 | 201,047 | 3/4 | 185,424 | 3/4 | 169,786 | 3/4 | 154,076 | 3/4 | 138,365 | 3/4 | 106,939 |
| 4   |       | 4   |       | 4   |       | 4   | 216,263 | 4   | 200,722 | 4   | 185,099 | 4   | 169,459 | 4   | 153,748 | 4   | 138,038 | 4   | 106,611 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 215,943 | 1/4 | 200,396 | 1/4 | 184,773 | 1/4 | 169,132 | 1/4 | 153,421 | 1/4 | 137,711 | 1/4 | 106,284 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 215,624 | 1/2 | 200,071 | 1/2 | 184,448 | 1/2 | 168,804 | 1/2 | 153,094 | 1/2 | 137,383 | 1/2 | 105,957 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 215,305 | 3/4 | 199,745 | 3/4 | 184,123 | 3/4 | 168,477 | 3/4 | 152,767 | 3/4 | 137,056 | 3/4 | 105,629 |
| 5   |       | 5   |       | 5   |       | 5   | 214,984 | 5   | 199,420 | 5   | 183,797 | 5   | 168,150 | 5   | 152,439 | 5   | 136,729 | 5   | 105,302 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 214,663 | 1/4 | 199,094 | 1/4 | 183,472 | 1/4 | 167,822 | 1/4 | 152,112 | 1/4 | 136,402 | 1/4 | 104,974 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 214,343 | 1/2 | 198,769 | 1/2 | 183,146 | 1/2 | 167,495 | 1/2 | 151,785 | 1/2 | 136,074 | 1/2 | 104,647 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 214,022 | 3/4 | 198,443 | 3/4 | 182,821 | 3/4 | 167,168 | 3/4 | 151,457 | 3/4 | 135,747 | 3/4 | 104,320 |
| 6   |       | 6   |       | 6   |       | 6   | 213,701 | 6   | 198,118 | 6   | 182,495 | 6   | 166,840 | 6   | 151,130 | 6   | 135,420 | 6   | 103,992 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 213,380 | 1/4 | 197,792 | 1/4 | 182,170 | 1/4 | 166,513 | 1/4 | 150,803 | 1/4 | 135,092 | 1/4 | 103,665 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 213,058 | 1/2 | 197,467 | 1/2 | 181,844 | 1/2 | 166,186 | 1/2 | 150,475 | 1/2 | 134,765 | 1/2 | 103,338 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 212,737 | 3/4 | 197,141 | 3/4 | 181,519 | 3/4 | 165,859 | 3/4 | 150,148 | 3/4 | 134,438 | 3/4 | 103,010 |
| 7   |       | 7   |       | 7   |       | 7   | 212,415 | 7   | 196,816 | 7   | 181,193 | 7   | 165,531 | 7   | 149,821 | 7   | 134,110 | 7   | 102,683 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 212,094 | 1/4 | 196,491 | 1/4 | 180,868 | 1/4 | 165,204 | 1/4 | 149,494 | 1/4 | 133,783 | 1/4 | 102,355 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 211,772 | 1/2 | 196,165 | 1/2 | 180,542 | 1/2 | 164,877 | 1/2 | 149,166 | 1/2 | 133,456 | 1/2 | 102,028 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 211,450 | 3/4 | 195,840 | 3/4 | 180,217 | 3/4 | 164,549 | 3/4 | 148,839 | 3/4 | 133,129 | 3/4 | 101,701 |
| 8   |       | 8   |       | 8   |       | 8   | 211,128 | 8   | 195,514 | 8   | 179,891 | 8   | 164,222 | 8   | 148,512 | 8   | 132,801 | 8   | 101,373 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 210,805 | 1/4 | 195,189 | 1/4 | 179,566 | 1/4 | 163,895 | 1/4 | 148,184 | 1/4 | 132,474 | 1/4 | 101,046 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 210,483 | 1/2 | 194,863 | 1/2 | 179,240 | 1/2 | 163,567 | 1/2 | 147,857 | 1/2 | 132,147 | 1/2 | 100,718 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 210,160 | 3/4 | 194,538 | 3/4 | 178,915 | 3/4 | 163,240 | 3/4 | 147,530 | 3/4 | 131,819 | 3/4 | 100,391 |
| 9   |       | 9   |       | 9   |       | 9   | 209,835 | 9   | 194,212 | 9   | 178,589 | 9   | 162,913 | 9   | 147,202 | 9   | 131,492 | 9   | 100,064 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 209,509 | 1/4 | 193,887 | 1/4 | 178,264 | 1/4 | 162,586 | 1/4 | 146,875 | 1/4 | 131,165 | 1/4 | 99,736  |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 209,184 | 1/2 | 193,561 | 1/2 | 177,939 | 1/2 | 162,258 | 1/2 | 146,548 | 1/2 | 130,837 | 1/2 | 99,409  |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 208,859 | 3/4 | 193,236 | 3/4 | 177,613 | 3/4 | 161,931 | 3/4 | 146,221 | 3/4 | 130,510 | 3/4 | 99,082  |
| 10  |       | 10  |       | 10  |       | 10  | 208,533 | 10  | 192,910 | 10  | 177,288 | 10  | 161,604 | 10  | 145,893 | 10  | 130,182 | 10  | 98,754  |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 208,208 | 1/4 | 192,585 | 1/4 | 176,962 | 1/4 | 161,276 | 1/4 | 145,566 | 1/4 | 129,855 | 1/4 | 98,427  |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 207,882 | 1/2 | 192,259 | 1/2 | 176,637 | 1/2 | 160,949 | 1/2 | 145,239 | 1/2 | 129,528 | 1/2 | 98,099  |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 207,557 | 3/4 | 191,934 | 3/4 | 176,311 | 3/4 | 160,622 | 3/4 | 144,911 | 3/4 | 129,200 | 3/4 | 97,772  |
| 11  |       | 11  |       | 11  |       | 11  | 207,231 | 11  | 191,608 | 11  | 175,986 | 11  | 160,294 | 11  | 144,584 | 11  | 128,873 | 11  | 97,445  |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 206,906 | 1/4 | 191,283 | 1/4 | 175,660 | 1/4 | 159,967 | 1/4 | 144,257 | 1/4 | 128,546 | 1/4 | 97,117  |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 206,580 | 1/2 | 190,957 | 1/2 | 175,335 | 1/2 | 159,640 | 1/2 | 143,929 | 1/2 | 128,218 | 1/2 | 96,790  |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 206,255 | 3/4 | 190,632 | 3/4 | 175,009 | 3/4 | 159,313 | 3/4 | 143,602 | 3/4 | 127,891 | 3/4 | 96,463  |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "CBC 309"

**1 STBD**  
**ULLAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 3/4"

| IN  | 10 FT. | IN  | 11 FT. | IN  | 12 FT. | IN  | 13 FT. | IN  | 14 FT. | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 96,135 | 0   | 80,421 | 0   | 64,707 | 0   | 48,993 | 0   | 33,319 | 0   | 17,819 | 0   | 3,824  | 0   |        | 0   |        | 0   |        |
| 1/4 | 95,808 | 1/4 | 80,094 | 1/4 | 64,380 | 1/4 | 48,666 | 1/4 | 32,992 | 1/4 | 17,508 | 1/4 | 3,554  | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 95,480 | 1/2 | 79,766 | 1/2 | 64,052 | 1/2 | 48,338 | 1/2 | 32,665 | 1/2 | 17,197 | 1/2 | 3,284  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 95,153 | 3/4 | 79,439 | 3/4 | 63,725 | 3/4 | 48,011 | 3/4 | 32,338 | 3/4 | 16,886 | 3/4 | 3,015  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 1   | 94,826 | 1   | 79,112 | 1   | 63,397 | 1   | 47,684 | 1   | 32,011 | 1   | 16,578 | 1   | 2,754  | 1   |        | 1   |        | 1   |        |
| 1/4 | 94,498 | 1/4 | 78,784 | 1/4 | 63,070 | 1/4 | 47,357 | 1/4 | 31,684 | 1/4 | 16,270 | 1/4 | 2,494  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 94,171 | 1/2 | 78,457 | 1/2 | 62,743 | 1/2 | 47,030 | 1/2 | 31,358 | 1/2 | 15,962 | 1/2 | 2,233  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 93,844 | 3/4 | 78,129 | 3/4 | 62,415 | 3/4 | 46,703 | 3/4 | 31,031 | 3/4 | 15,654 | 3/4 | 1,973  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 2   | 93,516 | 2   | 77,802 | 2   | 62,088 | 2   | 46,376 | 2   | 30,704 | 2   | 15,350 | 2   | 1,761  | 2   |        | 2   |        | 2   |        |
| 1/4 | 93,189 | 1/4 | 77,475 | 1/4 | 61,761 | 1/4 | 46,049 | 1/4 | 30,377 | 1/4 | 15,046 | 1/4 | 1,548  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 92,861 | 1/2 | 77,147 | 1/2 | 61,433 | 1/2 | 45,722 | 1/2 | 30,050 | 1/2 | 14,741 | 1/2 | 1,336  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 92,534 | 3/4 | 76,820 | 3/4 | 61,106 | 3/4 | 45,395 | 3/4 | 29,723 | 3/4 | 14,437 | 3/4 | 1,124  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 3   | 92,207 | 3   | 76,493 | 3   | 60,778 | 3   | 45,068 | 3   | 29,395 | 3   | 14,136 | 3   | 989    | 3   |        | 3   |        | 3   |        |
| 1/4 | 91,879 | 1/4 | 76,165 | 1/4 | 60,451 | 1/4 | 44,742 | 1/4 | 29,068 | 1/4 | 13,835 | 1/4 | 854    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 91,552 | 1/2 | 75,838 | 1/2 | 60,124 | 1/2 | 44,415 | 1/2 | 28,741 | 1/2 | 13,534 | 1/2 | 719    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 91,225 | 3/4 | 75,510 | 3/4 | 59,796 | 3/4 | 44,088 | 3/4 | 28,413 | 3/4 | 13,233 | 3/4 | 585    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 4   | 90,897 | 4   | 75,183 | 4   | 59,469 | 4   | 43,762 | 4   | 28,086 | 4   | 12,936 | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 90,570 | 1/4 | 74,856 | 1/4 | 59,142 | 1/4 | 43,435 | 1/4 | 27,759 | 1/4 | 12,638 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 90,242 | 1/2 | 74,528 | 1/2 | 58,814 | 1/2 | 43,109 | 1/2 | 27,431 | 1/2 | 12,340 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 89,915 | 3/4 | 74,201 | 3/4 | 58,487 | 3/4 | 42,782 | 3/4 | 27,104 | 3/4 | 12,043 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 5   | 89,588 | 5   | 73,874 | 5   | 58,159 | 5   | 42,456 | 5   | 26,777 | 5   | 11,749 | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 89,260 | 1/4 | 73,546 | 1/4 | 57,832 | 1/4 | 42,130 | 1/4 | 26,449 | 1/4 | 11,455 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 88,933 | 1/2 | 73,219 | 1/2 | 57,505 | 1/2 | 41,804 | 1/2 | 26,122 | 1/2 | 11,160 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 88,606 | 3/4 | 72,891 | 3/4 | 57,177 | 3/4 | 41,477 | 3/4 | 25,794 | 3/4 | 10,866 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 6   | 88,278 | 6   | 72,564 | 6   | 56,850 | 6   | 41,151 | 6   | 25,468 | 6   | 10,576 | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 87,951 | 1/4 | 72,237 | 1/4 | 56,523 | 1/4 | 40,825 | 1/4 | 25,142 | 1/4 | 10,285 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 87,623 | 1/2 | 71,909 | 1/2 | 56,195 | 1/2 | 40,499 | 1/2 | 24,816 | 1/2 | 9,994  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 87,296 | 3/4 | 71,582 | 3/4 | 55,868 | 3/4 | 40,173 | 3/4 | 24,489 | 3/4 | 9,703  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 7   | 86,969 | 7   | 71,255 | 7   | 55,540 | 7   | 39,846 | 7   | 24,171 | 7   | 9,416  | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 86,641 | 1/4 | 70,927 | 1/4 | 55,213 | 1/4 | 39,520 | 1/4 | 23,852 | 1/4 | 9,129  | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 86,314 | 1/2 | 70,600 | 1/2 | 54,886 | 1/2 | 39,194 | 1/2 | 23,534 | 1/2 | 8,841  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 85,986 | 3/4 | 70,272 | 3/4 | 54,558 | 3/4 | 38,868 | 3/4 | 23,215 | 3/4 | 8,554  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 8   | 85,659 | 8   | 69,945 | 8   | 54,231 | 8   | 38,542 | 8   | 22,898 | 8   | 8,270  | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 85,332 | 1/4 | 69,618 | 1/4 | 53,903 | 1/4 | 38,216 | 1/4 | 22,581 | 1/4 | 7,986  | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 85,004 | 1/2 | 69,290 | 1/2 | 53,576 | 1/2 | 37,889 | 1/2 | 22,263 | 1/2 | 7,702  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 84,677 | 3/4 | 68,963 | 3/4 | 53,249 | 3/4 | 37,563 | 3/4 | 21,946 | 3/4 | 7,418  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 9   | 84,350 | 9   | 68,635 | 9   | 52,921 | 9   | 37,237 | 9   | 21,625 | 9   | 7,138  | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 84,022 | 1/4 | 68,308 | 1/4 | 52,594 | 1/4 | 36,911 | 1/4 | 21,303 | 1/4 | 6,857  | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 83,695 | 1/2 | 67,981 | 1/2 | 52,267 | 1/2 | 36,585 | 1/2 | 20,982 | 1/2 | 6,577  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 83,367 | 3/4 | 67,653 | 3/4 | 51,939 | 3/4 | 36,258 | 3/4 | 20,661 | 3/4 | 6,296  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 10  | 83,040 | 10  | 67,326 | 10  | 51,612 | 10  | 35,932 | 10  | 20,343 | 10  | 6,019  | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 82,713 | 1/4 | 66,999 | 1/4 | 51,284 | 1/4 | 35,606 | 1/4 | 20,025 | 1/4 | 5,742  | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 82,385 | 1/2 | 66,671 | 1/2 | 50,957 | 1/2 | 35,280 | 1/2 | 19,707 | 1/2 | 5,465  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 82,058 | 3/4 | 66,344 | 3/4 | 50,630 | 3/4 | 34,953 | 3/4 | 19,389 | 3/4 | 5,188  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 11  | 81,731 | 11  | 66,016 | 11  | 50,302 | 11  | 34,627 | 11  | 19,074 | 11  | 4,914  | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 81,403 | 1/4 | 65,689 | 1/4 | 49,975 | 1/4 | 34,300 | 1/4 | 18,759 | 1/4 | 4,641  | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 81,076 | 1/2 | 65,362 | 1/2 | 49,648 | 1/2 | 33,973 | 1/2 | 18,445 | 1/2 | 4,367  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 80,748 | 3/4 | 65,034 | 3/4 | 49,320 | 3/4 | 33,646 | 3/4 | 18,130 | 3/4 | 4,093  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/07/2013 CL - SW  
CALCULATED: 01/07/2013 CL  
PRINTED: 01/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2013

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



# BARGE "CBC 309"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04"

| IN  | 0 FT. | IN  | 1 FT. | IN  | 2 FT. | IN  | 3 FT.   | IN  | 4 FT.   | IN  | 5 FT.   | IN  | 6 FT.   | IN  | 7 FT.   | IN  | 8 FT.   | IN  | 9 FT.   |
|-----|-------|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0   |       | 0   |       | 0   |       | 0   | 201,306 | 0   | 186,253 | 0   | 171,201 | 0   | 156,074 | 0   | 140,934 | 0   | 125,793 | 0   | 110,649 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 200,992 | 1/4 | 185,940 | 1/4 | 170,887 | 1/4 | 155,759 | 1/4 | 140,619 | 1/4 | 125,477 | 1/4 | 110,334 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 214,679 | 1/2 | 185,626 | 1/2 | 170,573 | 1/2 | 155,443 | 1/2 | 140,303 | 1/2 | 125,162 | 1/2 | 110,018 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 214,520 | 3/4 | 185,312 | 3/4 | 170,260 | 3/4 | 155,128 | 3/4 | 139,988 | 3/4 | 124,846 | 3/4 | 109,703 |
| 1   |       | 1   |       | 1   |       | 1   | 214,361 | 1   | 184,999 | 1   | 169,946 | 1   | 154,813 | 1   | 139,672 | 1   | 124,531 | 1   | 109,387 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 214,149 | 1/4 | 199,738 | 1/4 | 184,685 | 1/4 | 169,632 | 1/4 | 154,497 | 1/4 | 139,357 | 1/4 | 124,215 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 213,937 | 1/2 | 199,424 | 1/2 | 184,372 | 1/2 | 169,319 | 1/2 | 154,182 | 1/2 | 139,042 | 1/2 | 123,900 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 213,726 | 3/4 | 199,111 | 3/4 | 184,058 | 3/4 | 169,005 | 3/4 | 153,866 | 3/4 | 138,726 | 3/4 | 123,585 |
| 2   |       | 2   |       | 2   |       | 2   | 213,514 | 2   | 198,797 | 2   | 183,744 | 2   | 168,691 | 2   | 153,551 | 2   | 138,411 | 2   | 123,269 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 213,251 | 1/4 | 198,484 | 1/4 | 183,431 | 1/4 | 168,376 | 1/4 | 153,235 | 1/4 | 138,095 | 1/4 | 122,954 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 212,988 | 1/2 | 198,170 | 1/2 | 183,117 | 1/2 | 168,060 | 1/2 | 152,920 | 1/2 | 137,780 | 1/2 | 122,638 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 212,725 | 3/4 | 197,856 | 3/4 | 182,804 | 3/4 | 167,745 | 3/4 | 152,605 | 3/4 | 137,464 | 3/4 | 122,323 |
| 3   |       | 3   |       | 3   |       | 3   | 212,462 | 3   | 197,543 | 3   | 182,490 | 3   | 167,429 | 3   | 152,289 | 3   | 137,149 | 3   | 122,007 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 212,160 | 1/4 | 197,229 | 1/4 | 182,177 | 1/4 | 167,114 | 1/4 | 151,974 | 1/4 | 136,834 | 1/4 | 121,692 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 211,858 | 1/2 | 196,916 | 1/2 | 181,863 | 1/2 | 166,798 | 1/2 | 151,658 | 1/2 | 136,518 | 1/2 | 121,376 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 211,556 | 3/4 | 196,602 | 3/4 | 181,549 | 3/4 | 166,483 | 3/4 | 151,343 | 3/4 | 136,203 | 3/4 | 121,061 |
| 4   |       | 4   |       | 4   |       | 4   | 211,254 | 4   | 196,288 | 4   | 181,236 | 4   | 166,168 | 4   | 151,027 | 4   | 135,887 | 4   | 120,745 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 210,946 | 1/4 | 195,975 | 1/4 | 180,922 | 1/4 | 165,852 | 1/4 | 150,712 | 1/4 | 135,572 | 1/4 | 120,430 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 210,639 | 1/2 | 195,661 | 1/2 | 180,609 | 1/2 | 165,537 | 1/2 | 150,397 | 1/2 | 135,257 | 1/2 | 120,114 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 210,331 | 3/4 | 195,348 | 3/4 | 180,295 | 3/4 | 165,221 | 3/4 | 150,081 | 3/4 | 134,941 | 3/4 | 119,799 |
| 5   |       | 5   |       | 5   |       | 5   | 210,024 | 5   | 195,034 | 5   | 179,981 | 5   | 164,906 | 5   | 149,766 | 5   | 134,626 | 5   | 119,483 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 209,715 | 1/4 | 194,720 | 1/4 | 179,668 | 1/4 | 164,591 | 1/4 | 149,450 | 1/4 | 134,310 | 1/4 | 119,168 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 209,406 | 1/2 | 194,407 | 1/2 | 179,354 | 1/2 | 164,275 | 1/2 | 149,135 | 1/2 | 133,995 | 1/2 | 118,852 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 209,097 | 3/4 | 194,093 | 3/4 | 179,041 | 3/4 | 163,960 | 3/4 | 148,820 | 3/4 | 133,679 | 3/4 | 118,537 |
| 6   |       | 6   |       | 6   |       | 6   | 208,789 | 6   | 193,780 | 6   | 178,727 | 6   | 163,644 | 6   | 148,504 | 6   | 133,364 | 6   | 118,221 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 208,479 | 1/4 | 193,466 | 1/4 | 178,413 | 1/4 | 163,329 | 1/4 | 148,189 | 1/4 | 133,049 | 1/4 | 117,906 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 208,170 | 1/2 | 193,152 | 1/2 | 178,100 | 1/2 | 163,013 | 1/2 | 147,873 | 1/2 | 132,733 | 1/2 | 117,590 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 207,860 | 3/4 | 192,839 | 3/4 | 177,786 | 3/4 | 162,698 | 3/4 | 147,558 | 3/4 | 132,418 | 3/4 | 117,275 |
| 7   |       | 7   |       | 7   |       | 7   | 207,551 | 7   | 192,525 | 7   | 177,473 | 7   | 162,383 | 7   | 147,242 | 7   | 132,102 | 7   | 116,959 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 207,241 | 1/4 | 192,212 | 1/4 | 177,159 | 1/4 | 162,067 | 1/4 | 146,927 | 1/4 | 131,787 | 1/4 | 116,644 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 206,931 | 1/2 | 191,898 | 1/2 | 176,845 | 1/2 | 161,752 | 1/2 | 146,612 | 1/2 | 131,472 | 1/2 | 116,328 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 206,621 | 3/4 | 191,584 | 3/4 | 176,532 | 3/4 | 161,436 | 3/4 | 146,296 | 3/4 | 131,156 | 3/4 | 116,013 |
| 8   |       | 8   |       | 8   |       | 8   | 206,311 | 8   | 191,271 | 8   | 176,218 | 8   | 161,121 | 8   | 145,981 | 8   | 130,841 | 8   | 115,697 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 206,001 | 1/4 | 190,957 | 1/4 | 175,905 | 1/4 | 160,805 | 1/4 | 145,665 | 1/4 | 130,525 | 1/4 | 115,382 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 205,690 | 1/2 | 190,644 | 1/2 | 175,591 | 1/2 | 160,490 | 1/2 | 145,350 | 1/2 | 130,210 | 1/2 | 115,066 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 205,380 | 3/4 | 190,330 | 3/4 | 175,277 | 3/4 | 160,175 | 3/4 | 145,035 | 3/4 | 129,894 | 3/4 | 114,751 |
| 9   |       | 9   |       | 9   |       | 9   | 205,069 | 9   | 190,016 | 9   | 174,964 | 9   | 159,859 | 9   | 144,719 | 9   | 129,579 | 9   | 114,435 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 204,755 | 1/4 | 189,703 | 1/4 | 174,650 | 1/4 | 159,544 | 1/4 | 144,404 | 1/4 | 129,263 | 1/4 | 114,120 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 204,442 | 1/2 | 189,389 | 1/2 | 174,337 | 1/2 | 159,228 | 1/2 | 144,088 | 1/2 | 128,948 | 1/2 | 113,804 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 204,128 | 3/4 | 189,076 | 3/4 | 174,023 | 3/4 | 158,913 | 3/4 | 143,773 | 3/4 | 128,632 | 3/4 | 113,489 |
| 10  |       | 10  |       | 10  |       | 10  | 203,815 | 10  | 188,762 | 10  | 173,709 | 10  | 158,598 | 10  | 143,457 | 10  | 128,317 | 10  | 113,173 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 203,501 | 1/4 | 188,448 | 1/4 | 173,396 | 1/4 | 158,282 | 1/4 | 143,142 | 1/4 | 128,001 | 1/4 | 112,858 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 203,187 | 1/2 | 188,135 | 1/2 | 173,082 | 1/2 | 157,967 | 1/2 | 142,827 | 1/2 | 127,686 | 1/2 | 112,542 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 202,874 | 3/4 | 187,821 | 3/4 | 172,769 | 3/4 | 157,651 | 3/4 | 142,511 | 3/4 | 127,370 | 3/4 | 112,227 |
| 11  |       | 11  |       | 11  |       | 11  | 202,560 | 11  | 187,508 | 11  | 172,455 | 11  | 157,336 | 11  | 142,196 | 11  | 127,055 | 11  | 111,911 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 202,247 | 1/4 | 187,194 | 1/4 | 172,141 | 1/4 | 157,020 | 1/4 | 141,880 | 1/4 | 126,739 | 1/4 | 111,596 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 201,933 | 1/2 | 186,880 | 1/2 | 171,828 | 1/2 | 156,705 | 1/2 | 141,565 | 1/2 | 126,424 | 1/2 | 111,280 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 201,619 | 3/4 | 186,567 | 3/4 | 171,514 | 3/4 | 156,390 | 3/4 | 141,249 | 3/4 | 126,108 | 3/4 | 110,965 |

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.  
GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 43'-03" 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 "CBC 309"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-04"

| 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   | 95,505 | 0   | 80,361 | 0   | 65,218 | 0   | 50,074 | 0   | 35,189 | 0   | 20,046 | 0   | 4,903  | 0   |        | 0  |        | 0   |        |
| 1/4 | 95,190 | 1/4 | 80,046 | 1/4 | 64,902 | 1/4 | 49,759 | 1/4 | 34,874 | 1/4 | 19,730 | 1/4 | 4,588  | 1/4 | 1/4    |    |        | 1/4 |        |
| 1/2 | 94,874 | 1/2 | 79,730 | 1/2 | 64,587 | 1/2 | 49,444 | 1/2 | 34,558 | 1/2 | 19,415 | 1/2 | 4,273  | 1/2 | 1/2    |    |        | 1/2 |        |
| 3/4 | 94,559 | 3/4 | 79,415 | 3/4 | 64,271 | 3/4 | 49,130 | 3/4 | 34,243 | 3/4 | 19,099 | 3/4 | 3,958  | 3/4 | 3/4    |    |        | 3/4 |        |
| 1   | 94,243 | 1   | 79,099 | 1   | 63,956 | 1   | 48,815 | 1   | 33,927 | 1   | 18,784 | 1   | 3,643  | 1   |        | 1  |        | 1   |        |
| 1/4 | 93,928 | 1/4 | 78,784 | 1/4 | 63,640 | 1/4 | 48,506 | 1/4 | 33,612 | 1/4 | 18,468 | 1/4 | 3,334  | 1/4 | 1/4    |    |        | 1/4 |        |
| 1/2 | 93,612 | 1/2 | 78,468 | 1/2 | 63,325 | 1/2 | 48,196 | 1/2 | 33,296 | 1/2 | 18,153 | 1/2 | 3,025  | 1/2 | 1/2    |    |        | 1/2 |        |
| 3/4 | 93,297 | 3/4 | 78,153 | 3/4 | 63,009 | 3/4 | 47,887 | 3/4 | 32,981 | 3/4 | 17,837 | 3/4 | 2,716  | 3/4 | 3/4    |    |        | 3/4 |        |
| 2   | 92,981 | 2   | 77,837 | 2   | 62,694 | 2   | 47,578 | 2   | 32,665 | 2   | 17,522 | 2   | 2,406  | 2   |        | 2  |        | 2   |        |
| 1/4 | 92,666 | 1/4 | 77,522 | 1/4 | 62,378 | 1/4 | 47,268 | 1/4 | 32,350 | 1/4 | 17,206 | 1/4 | 2,140  | 1/4 | 1/4    |    |        | 1/4 |        |
| 1/2 | 92,350 | 1/2 | 77,206 | 1/2 | 62,063 | 1/2 | 46,959 | 1/2 | 32,034 | 1/2 | 16,891 | 1/2 | 1,874  | 1/2 | 1/2    |    |        | 1/2 |        |
| 3/4 | 92,035 | 3/4 | 76,891 | 3/4 | 61,747 | 3/4 | 46,650 | 3/4 | 31,719 | 3/4 | 16,576 | 3/4 | 1,608  | 3/4 | 3/4    |    |        | 3/4 |        |
| 3   | 91,719 | 3   | 76,575 | 3   | 61,432 | 3   | 46,341 | 3   | 31,403 | 3   | 16,260 | 3   | 1,342  | 3   |        | 3  |        | 3   |        |
| 1/4 | 91,404 | 1/4 | 76,260 | 1/4 | 61,116 | 1/4 | 46,032 | 1/4 | 31,088 | 1/4 | 15,945 | 1/4 | 1,154  | 1/4 | 1/4    |    |        | 1/4 |        |
| 1/2 | 91,088 | 1/2 | 75,944 | 1/2 | 60,801 | 1/2 | 45,723 | 1/2 | 30,772 | 1/2 | 15,629 | 1/2 | 967    | 1/2 | 1/2    |    |        | 1/2 |        |
| 3/4 | 90,773 | 3/4 | 75,629 | 3/4 | 60,485 | 3/4 | 45,414 | 3/4 | 30,457 | 3/4 | 15,314 | 3/4 | 780    | 3/4 | 3/4    |    |        | 3/4 |        |
| 4   | 90,457 | 4   | 75,313 | 4   | 60,170 | 4   | 45,105 | 4   | 30,141 | 4   | 14,998 | 4   | 592    | 4   |        | 4  |        | 4   |        |
| 1/4 | 90,142 | 1/4 | 74,998 | 1/4 | 59,854 | 1/4 | 44,796 | 1/4 | 29,826 | 1/4 | 14,683 | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 |        |
| 1/2 | 89,826 | 1/2 | 74,682 | 1/2 | 59,539 | 1/2 | 44,487 | 1/2 | 29,511 | 1/2 | 14,367 | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 |        |
| 3/4 | 89,511 | 3/4 | 74,367 | 3/4 | 59,223 | 3/4 | 44,178 | 3/4 | 29,195 | 3/4 | 14,052 | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 |        |
| 5   | 89,195 | 5   | 74,051 | 5   | 58,908 | 5   | 43,869 | 5   | 28,880 | 5   | 13,736 | 5   |        | 5   |        | 5  |        | 5   |        |
| 1/4 | 88,880 | 1/4 | 73,736 | 1/4 | 58,592 | 1/4 | 43,560 | 1/4 | 28,564 | 1/4 | 13,421 | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 |        |
| 1/2 | 88,564 | 1/2 | 73,420 | 1/2 | 58,277 | 1/2 | 43,251 | 1/2 | 28,249 | 1/2 | 13,105 | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 |        |
| 3/4 | 88,249 | 3/4 | 73,105 | 3/4 | 57,961 | 3/4 | 42,942 | 3/4 | 27,933 | 3/4 | 12,790 | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 |        |
| 6   | 87,933 | 6   | 72,790 | 6   | 57,646 | 6   | 42,633 | 6   | 27,618 | 6   | 12,474 | 6   |        | 6   |        | 6  |        | 6   |        |
| 1/4 | 87,618 | 1/4 | 72,474 | 1/4 | 57,330 | 1/4 | 42,324 | 1/4 | 27,302 | 1/4 | 12,159 | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 |        |
| 1/2 | 87,302 | 1/2 | 72,159 | 1/2 | 57,015 | 1/2 | 42,016 | 1/2 | 26,987 | 1/2 | 11,843 | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 |        |
| 3/4 | 86,987 | 3/4 | 71,843 | 3/4 | 56,699 | 3/4 | 41,707 | 3/4 | 26,671 | 3/4 | 11,528 | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 |        |
| 7   | 86,671 | 7   | 71,528 | 7   | 56,384 | 7   | 41,398 | 7   | 26,356 | 7   | 11,212 | 7   |        | 7   |        | 7  |        | 7   |        |
| 1/4 | 86,356 | 1/4 | 71,212 | 1/4 | 56,068 | 1/4 | 41,089 | 1/4 | 26,040 | 1/4 | 10,897 | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 |        |
| 1/2 | 86,040 | 1/2 | 70,897 | 1/2 | 55,753 | 1/2 | 40,780 | 1/2 | 25,725 | 1/2 | 10,581 | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 |        |
| 3/4 | 85,725 | 3/4 | 70,581 | 3/4 | 55,437 | 3/4 | 40,471 | 3/4 | 25,409 | 3/4 | 10,266 | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 |        |
| 8   | 85,409 | 8   | 70,266 | 8   | 55,122 | 8   | 40,162 | 8   | 25,094 | 8   | 9,950  | 8   |        | 8   |        | 8  |        | 8   |        |
| 1/4 | 85,094 | 1/4 | 69,950 | 1/4 | 54,806 | 1/4 | 39,853 | 1/4 | 24,778 | 1/4 | 9,635  | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 |        |
| 1/2 | 84,778 | 1/2 | 69,635 | 1/2 | 54,491 | 1/2 | 39,544 | 1/2 | 24,463 | 1/2 | 9,319  | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 |        |
| 3/4 | 84,463 | 3/4 | 69,319 | 3/4 | 54,175 | 3/4 | 39,235 | 3/4 | 24,147 | 3/4 | 9,004  | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 |        |
| 9   | 84,147 | 9   | 69,004 | 9   | 53,860 | 9   | 38,926 | 9   | 23,832 | 9   | 8,688  | 9   |        | 9   |        | 9  |        | 9   |        |
| 1/4 | 83,832 | 1/4 | 68,688 | 1/4 | 53,544 | 1/4 | 38,617 | 1/4 | 23,516 | 1/4 | 8,373  | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 |        |
| 1/2 | 83,516 | 1/2 | 68,373 | 1/2 | 53,229 | 1/2 | 38,308 | 1/2 | 23,201 | 1/2 | 8,057  | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 |        |
| 3/4 | 83,201 | 3/4 | 68,057 | 3/4 | 52,913 | 3/4 | 37,999 | 3/4 | 22,885 | 3/4 | 7,742  | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 |        |
| 10  | 82,885 | 10  | 67,742 | 10  | 52,598 | 10  | 37,690 | 10  | 22,570 | 10  | 7,426  | 10  |        | 10  |        | 10 |        | 10  |        |
| 1/4 | 82,570 | 1/4 | 67,426 | 1/4 | 52,282 | 1/4 | 37,381 | 1/4 | 22,254 | 1/4 | 7,111  | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 |        |
| 1/2 | 82,254 | 1/2 | 67,111 | 1/2 | 51,967 | 1/2 | 37,071 | 1/2 | 21,939 | 1/2 | 6,795  | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 |        |
| 3/4 | 81,939 | 3/4 | 66,795 | 3/4 | 51,651 | 3/4 | 36,761 | 3/4 | 21,623 | 3/4 | 6,480  | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 |        |
| 11  | 81,623 | 11  | 66,480 | 11  | 51,336 | 11  | 36,451 | 11  | 21,308 | 11  | 6,164  | 11  |        | 11  |        | 11 |        | 11  |        |
| 1/4 | 81,308 | 1/4 | 66,164 | 1/4 | 51,020 | 1/4 | 36,136 | 1/4 | 20,992 | 1/4 | 5,849  | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 |        |
| 1/2 | 80,992 | 1/2 | 65,849 | 1/2 | 50,705 | 1/2 | 35,820 | 1/2 | 20,677 | 1/2 | 5,534  | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 |        |
| 3/4 | 80,677 | 3/4 | 65,533 | 3/4 | 50,389 | 3/4 | 35,505 | 3/4 | 20,361 | 3/4 | 5,218  | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/07/2013 CL - SW  
CALCULATED: 01/07/2013 CL  
PRINTED: 01/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2013

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



# BARGE "CBC 309"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 1/2"

| IN  | 0 FT. | IN  | 1 FT. | IN  | 2 FT.   | IN  | 3 FT.   | IN  | 4 FT.   | IN  | 5 FT.   | IN  | 6 FT.   | IN  | 7 FT.   | IN  | 8 FT.   | IN  | 9 FT.   |
|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0   |       | 0   |       | 0   | 214,574 | 0   | 200,575 | 0   | 185,525 | 0   | 170,474 | 0   | 155,345 | 0   | 140,207 | 0   | 125,068 | 0   | 109,926 |
| 1/4 |       | 1/4 |       | 1/4 | 214,415 | 1/4 | 200,262 | 1/4 | 185,211 | 1/4 | 170,160 | 1/4 | 155,030 | 1/4 | 139,892 | 1/4 | 124,752 | 1/4 | 109,610 |
| 1/2 |       | 1/2 |       | 1/2 | 214,256 | 1/2 | 199,948 | 1/2 | 184,897 | 1/2 | 169,847 | 1/2 | 154,715 | 1/2 | 139,576 | 1/2 | 124,437 | 1/2 | 109,295 |
| 3/4 |       | 3/4 |       | 3/4 | 214,044 | 3/4 | 199,635 | 3/4 | 184,584 | 3/4 | 169,533 | 3/4 | 154,399 | 3/4 | 139,261 | 3/4 | 124,122 | 3/4 | 108,980 |
| 1   |       | 1   |       | 1   | 213,832 | 1   | 199,321 | 1   | 184,270 | 1   | 169,219 | 1   | 154,084 | 1   | 138,946 | 1   | 123,806 | 1   | 108,664 |
| 1/4 |       | 1/4 |       | 1/4 | 213,621 | 1/4 | 199,008 | 1/4 | 183,957 | 1/4 | 168,905 | 1/4 | 153,769 | 1/4 | 138,630 | 1/4 | 123,491 | 1/4 | 108,349 |
| 1/2 |       | 1/2 |       | 1/2 | 213,409 | 1/2 | 198,694 | 1/2 | 183,643 | 1/2 | 168,591 | 1/2 | 153,453 | 1/2 | 138,315 | 1/2 | 123,175 | 1/2 | 108,033 |
| 3/4 |       | 3/4 |       | 3/4 | 213,146 | 3/4 | 198,380 | 3/4 | 183,330 | 3/4 | 168,276 | 3/4 | 153,138 | 3/4 | 138,000 | 3/4 | 122,860 | 3/4 | 107,718 |
| 2   |       | 2   |       | 2   | 212,883 | 2   | 198,067 | 2   | 183,016 | 2   | 167,961 | 2   | 152,822 | 2   | 137,684 | 2   | 122,544 | 2   | 107,402 |
| 1/4 |       | 1/4 |       | 1/4 | 212,620 | 1/4 | 197,753 | 1/4 | 182,702 | 1/4 | 167,645 | 1/4 | 152,507 | 1/4 | 137,369 | 1/4 | 122,229 | 1/4 | 107,087 |
| 1/2 |       | 1/2 |       | 1/2 | 212,357 | 1/2 | 197,440 | 1/2 | 182,389 | 1/2 | 167,330 | 1/2 | 152,192 | 1/2 | 137,053 | 1/2 | 121,913 | 1/2 | 106,771 |
| 3/4 |       | 3/4 |       | 3/4 | 212,055 | 3/4 | 197,126 | 3/4 | 182,075 | 3/4 | 167,015 | 3/4 | 151,876 | 3/4 | 136,738 | 3/4 | 121,598 | 3/4 | 106,456 |
| 3   |       | 3   |       | 3   | 211,753 | 3   | 196,813 | 3   | 181,762 | 3   | 166,699 | 3   | 151,561 | 3   | 136,423 | 3   | 121,282 | 3   | 106,140 |
| 1/4 |       | 1/4 |       | 1/4 | 211,451 | 1/4 | 196,499 | 1/4 | 181,448 | 1/4 | 166,384 | 1/4 | 151,246 | 1/4 | 136,107 | 1/4 | 120,967 | 1/4 | 105,825 |
| 1/2 |       | 1/2 |       | 1/2 | 211,149 | 1/2 | 196,185 | 1/2 | 181,135 | 1/2 | 166,068 | 1/2 | 150,930 | 1/2 | 135,792 | 1/2 | 120,651 | 1/2 | 105,509 |
| 3/4 |       | 3/4 |       | 3/4 | 210,842 | 3/4 | 195,872 | 3/4 | 180,821 | 3/4 | 165,753 | 3/4 | 150,615 | 3/4 | 135,477 | 3/4 | 120,336 | 3/4 | 105,194 |
| 4   |       | 4   |       | 4   | 210,534 | 4   | 195,558 | 4   | 180,508 | 4   | 165,438 | 4   | 150,299 | 4   | 135,161 | 4   | 120,021 | 4   | 104,879 |
| 1/4 |       | 1/4 |       | 1/4 | 210,227 | 1/4 | 195,245 | 1/4 | 180,194 | 1/4 | 165,122 | 1/4 | 149,984 | 1/4 | 134,846 | 1/4 | 119,705 | 1/4 | 104,563 |
| 1/2 |       | 1/2 |       | 1/2 | 209,919 | 1/2 | 194,931 | 1/2 | 179,880 | 1/2 | 164,807 | 1/2 | 149,669 | 1/2 | 134,530 | 1/2 | 119,390 | 1/2 | 104,248 |
| 3/4 |       | 3/4 |       | 3/4 | 209,610 | 3/4 | 194,618 | 3/4 | 179,567 | 3/4 | 164,492 | 3/4 | 149,353 | 3/4 | 134,215 | 3/4 | 119,074 | 3/4 | 103,932 |
| 5   |       | 5   |       | 5   | 209,302 | 5   | 194,304 | 5   | 179,253 | 5   | 164,176 | 5   | 149,038 | 5   | 133,900 | 5   | 118,759 | 5   | 103,617 |
| 1/4 |       | 1/4 |       | 1/4 | 208,993 | 1/4 | 193,991 | 1/4 | 178,940 | 1/4 | 163,861 | 1/4 | 148,723 | 1/4 | 133,584 | 1/4 | 118,443 | 1/4 | 103,301 |
| 1/2 |       | 1/2 |       | 1/2 | 208,684 | 1/2 | 193,677 | 1/2 | 178,626 | 1/2 | 163,545 | 1/2 | 148,407 | 1/2 | 133,269 | 1/2 | 118,128 | 1/2 | 102,986 |
| 3/4 |       | 3/4 |       | 3/4 | 208,375 | 3/4 | 193,363 | 3/4 | 178,313 | 3/4 | 163,230 | 3/4 | 148,092 | 3/4 | 132,954 | 3/4 | 117,812 | 3/4 | 102,670 |
| 6   |       | 6   |       | 6   | 208,065 | 6   | 193,050 | 6   | 177,999 | 6   | 162,915 | 6   | 147,776 | 6   | 132,638 | 6   | 117,497 | 6   | 102,355 |
| 1/4 |       | 1/4 |       | 1/4 | 207,756 | 1/4 | 192,736 | 1/4 | 177,686 | 1/4 | 162,599 | 1/4 | 147,461 | 1/4 | 132,323 | 1/4 | 117,181 | 1/4 | 102,039 |
| 1/2 |       | 1/2 |       | 1/2 | 207,446 | 1/2 | 192,423 | 1/2 | 177,372 | 1/2 | 162,284 | 1/2 | 147,146 | 1/2 | 132,007 | 1/2 | 116,866 | 1/2 | 101,724 |
| 3/4 |       | 3/4 |       | 3/4 | 207,137 | 3/4 | 192,109 | 3/4 | 177,058 | 3/4 | 161,968 | 3/4 | 146,830 | 3/4 | 131,692 | 3/4 | 116,551 | 3/4 | 101,409 |
| 7   |       | 7   |       | 7   | 206,827 | 7   | 191,796 | 7   | 176,745 | 7   | 161,653 | 7   | 146,515 | 7   | 131,377 | 7   | 116,235 | 7   | 101,093 |
| 1/4 |       | 1/4 |       | 1/4 | 206,517 | 1/4 | 191,482 | 1/4 | 176,431 | 1/4 | 161,338 | 1/4 | 146,199 | 1/4 | 131,061 | 1/4 | 115,920 | 1/4 | 100,778 |
| 1/2 |       | 1/2 |       | 1/2 | 206,207 | 1/2 | 191,169 | 1/2 | 176,118 | 1/2 | 161,022 | 1/2 | 145,884 | 1/2 | 130,746 | 1/2 | 115,604 | 1/2 | 100,462 |
| 3/4 |       | 3/4 |       | 3/4 | 205,897 | 3/4 | 190,855 | 3/4 | 175,804 | 3/4 | 160,707 | 3/4 | 145,569 | 3/4 | 130,430 | 3/4 | 115,289 | 3/4 | 100,147 |
| 8   |       | 8   |       | 8   | 205,586 | 8   | 190,541 | 8   | 175,491 | 8   | 160,392 | 8   | 145,253 | 8   | 130,115 | 8   | 114,973 | 8   | 99,831  |
| 1/4 |       | 1/4 |       | 1/4 | 205,276 | 1/4 | 190,228 | 1/4 | 175,177 | 1/4 | 160,076 | 1/4 | 144,938 | 1/4 | 129,800 | 1/4 | 114,658 | 1/4 | 99,516  |
| 1/2 |       | 1/2 |       | 1/2 | 204,965 | 1/2 | 189,914 | 1/2 | 174,864 | 1/2 | 159,761 | 1/2 | 144,623 | 1/2 | 129,484 | 1/2 | 114,342 | 1/2 | 99,200  |
| 3/4 |       | 3/4 |       | 3/4 | 204,652 | 3/4 | 189,601 | 3/4 | 174,550 | 3/4 | 159,445 | 3/4 | 144,307 | 3/4 | 129,169 | 3/4 | 114,027 | 3/4 | 98,885  |
| 9   |       | 9   |       | 9   | 204,338 | 9   | 189,287 | 9   | 174,236 | 9   | 159,130 | 9   | 143,992 | 9   | 128,853 | 9   | 113,711 | 9   | 98,569  |
| 1/4 |       | 1/4 |       | 1/4 | 204,024 | 1/4 | 188,974 | 1/4 | 173,923 | 1/4 | 158,815 | 1/4 | 143,676 | 1/4 | 128,538 | 1/4 | 113,396 | 1/4 | 98,254  |
| 1/2 |       | 1/2 |       | 1/2 | 203,711 | 1/2 | 188,660 | 1/2 | 173,609 | 1/2 | 158,499 | 1/2 | 143,361 | 1/2 | 128,222 | 1/2 | 113,080 | 1/2 | 97,938  |
| 3/4 |       | 3/4 |       | 3/4 | 203,397 | 3/4 | 188,347 | 3/4 | 173,296 | 3/4 | 158,184 | 3/4 | 143,046 | 3/4 | 127,907 | 3/4 | 112,765 | 3/4 | 97,623  |
| 10  |       | 10  |       | 10  | 203,084 | 10  | 188,033 | 10  | 172,982 | 10  | 157,869 | 10  | 142,730 | 10  | 127,592 | 10  | 112,450 | 10  | 97,308  |
| 1/4 |       | 1/4 |       | 1/4 | 202,770 | 1/4 | 187,719 | 1/4 | 172,669 | 1/4 | 157,553 | 1/4 | 142,415 | 1/4 | 127,276 | 1/4 | 112,134 | 1/4 | 96,992  |
| 1/2 |       | 1/2 |       | 1/2 | 202,457 | 1/2 | 187,406 | 1/2 | 172,355 | 1/2 | 157,238 | 1/2 | 142,100 | 1/2 | 126,961 | 1/2 | 111,819 | 1/2 | 96,677  |
| 3/4 |       | 3/4 |       | 3/4 | 202,143 | 3/4 | 187,092 | 3/4 | 172,042 | 3/4 | 156,922 | 3/4 | 141,784 | 3/4 | 126,645 | 3/4 | 111,503 | 3/4 | 96,361  |
| 11  |       | 11  |       | 11  | 201,830 | 11  | 186,779 | 11  | 171,728 | 11  | 156,607 | 11  | 141,469 | 11  | 126,330 | 11  | 111,188 | 11  | 96,046  |
| 1/4 |       | 1/4 |       | 1/4 | 201,516 | 1/4 | 186,465 | 1/4 | 171,414 | 1/4 | 156,292 | 1/4 | 141,153 | 1/4 | 126,014 | 1/4 | 110,872 | 1/4 | 95,730  |
| 1/2 |       | 1/2 |       | 1/2 | 201,202 | 1/2 | 186,152 | 1/2 | 171,101 | 1/2 | 155,976 | 1/2 | 140,838 | 1/2 | 125,699 | 1/2 | 110,557 | 1/2 | 95,415  |
| 3/4 |       | 3/4 |       | 3/4 | 200,889 | 3/4 | 185,838 | 3/4 | 170,787 | 3/4 | 155,661 | 3/4 | 140,523 | 3/4 | 125,383 | 3/4 | 110,241 | 3/4 | 95,099  |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 43'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "CBC 309"

**2 STBD**  
**ULLAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 1/2"

| IN  | 10 FT. | IN  | 11 FT. | IN  | 12 FT. | IN  | 13 FT. | IN  | 14 FT. | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 94,784 | 0   | 79,642 | 0   | 64,500 | 0   | 49,358 | 0   | 34,541 | 0   | 19,413 | 0   | 4,273  | 0   |        | 0   |        | 0   |        |
| 1/4 | 94,468 | 1/4 | 79,326 | 1/4 | 64,184 | 1/4 | 49,043 | 1/4 | 34,232 | 1/4 | 19,097 | 1/4 | 3,958  | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 94,153 | 1/2 | 79,011 | 1/2 | 63,869 | 1/2 | 48,728 | 1/2 | 33,923 | 1/2 | 18,782 | 1/2 | 3,643  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 |        |
| 3/4 | 93,838 | 3/4 | 78,696 | 3/4 | 63,554 | 3/4 | 48,414 | 3/4 | 33,608 | 3/4 | 18,466 | 3/4 | 3,334  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 |        |
| 1   | 93,522 | 1   | 78,380 | 1   | 63,238 | 1   | 48,101 | 1   | 33,292 | 1   | 18,151 | 1   | 3,024  | 1   | 1      | 1   |        | 1   |        |
| 1/4 | 93,207 | 1/4 | 78,065 | 1/4 | 62,923 | 1/4 | 47,787 | 1/4 | 32,977 | 1/4 | 17,835 | 1/4 | 2,715  | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 92,891 | 1/2 | 77,749 | 1/2 | 62,607 | 1/2 | 47,474 | 1/2 | 32,661 | 1/2 | 17,520 | 1/2 | 2,406  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 |        |
| 3/4 | 92,576 | 3/4 | 77,434 | 3/4 | 62,292 | 3/4 | 47,161 | 3/4 | 32,346 | 3/4 | 17,204 | 3/4 | 2,140  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 |        |
| 2   | 92,260 | 2   | 77,118 | 2   | 61,976 | 2   | 46,848 | 2   | 32,030 | 2   | 16,889 | 2   | 1,874  | 2   | 2      | 2   |        | 2   |        |
| 1/4 | 91,945 | 1/4 | 76,803 | 1/4 | 61,661 | 1/4 | 46,535 | 1/4 | 31,715 | 1/4 | 16,573 | 1/4 | 1,608  | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 91,629 | 1/2 | 76,487 | 1/2 | 61,345 | 1/2 | 46,223 | 1/2 | 31,400 | 1/2 | 16,258 | 1/2 | 1,342  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 |        |
| 3/4 | 91,314 | 3/4 | 76,172 | 3/4 | 61,030 | 3/4 | 45,915 | 3/4 | 31,084 | 3/4 | 15,943 | 3/4 | 1,154  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 |        |
| 3   | 90,998 | 3   | 75,856 | 3   | 60,714 | 3   | 45,608 | 3   | 30,769 | 3   | 15,627 | 3   | 967    | 3   | 3      | 3   |        | 3   |        |
| 1/4 | 90,683 | 1/4 | 75,541 | 1/4 | 60,399 | 1/4 | 45,301 | 1/4 | 30,453 | 1/4 | 15,312 | 1/4 | 780    | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 90,367 | 1/2 | 75,225 | 1/2 | 60,084 | 1/2 | 44,994 | 1/2 | 30,138 | 1/2 | 14,996 | 1/2 | 592    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 |        |
| 3/4 | 90,052 | 3/4 | 74,910 | 3/4 | 59,768 | 3/4 | 44,686 | 3/4 | 29,822 | 3/4 | 14,681 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 |        |
| 4   | 89,737 | 4   | 74,595 | 4   | 59,453 | 4   | 44,379 | 4   | 29,507 | 4   | 14,365 | 4   |        | 4   | 4      | 4   |        | 4   |        |
| 1/4 | 89,421 | 1/4 | 74,279 | 1/4 | 59,137 | 1/4 | 44,072 | 1/4 | 29,191 | 1/4 | 14,050 | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 89,106 | 1/2 | 73,964 | 1/2 | 58,822 | 1/2 | 43,765 | 1/2 | 28,876 | 1/2 | 13,734 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 |        |
| 3/4 | 88,790 | 3/4 | 73,648 | 3/4 | 58,506 | 3/4 | 43,457 | 3/4 | 28,561 | 3/4 | 13,419 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 |        |
| 5   | 88,475 | 5   | 73,333 | 5   | 58,191 | 5   | 43,150 | 5   | 28,245 | 5   | 13,104 | 5   |        | 5   | 5      | 5   |        | 5   |        |
| 1/4 | 88,159 | 1/4 | 73,017 | 1/4 | 57,875 | 1/4 | 42,843 | 1/4 | 27,930 | 1/4 | 12,788 | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 87,844 | 1/2 | 72,702 | 1/2 | 57,560 | 1/2 | 42,536 | 1/2 | 27,614 | 1/2 | 12,473 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 |        |
| 3/4 | 87,528 | 3/4 | 72,386 | 3/4 | 57,244 | 3/4 | 42,229 | 3/4 | 27,299 | 3/4 | 12,157 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 |        |
| 6   | 87,213 | 6   | 72,071 | 6   | 56,929 | 6   | 41,921 | 6   | 26,983 | 6   | 11,842 | 6   |        | 6   | 6      | 6   |        | 6   |        |
| 1/4 | 86,897 | 1/4 | 71,755 | 1/4 | 56,613 | 1/4 | 41,614 | 1/4 | 26,668 | 1/4 | 11,526 | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 86,582 | 1/2 | 71,440 | 1/2 | 56,298 | 1/2 | 41,307 | 1/2 | 26,352 | 1/2 | 11,211 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 |        |
| 3/4 | 86,267 | 3/4 | 71,125 | 3/4 | 55,983 | 3/4 | 41,000 | 3/4 | 26,037 | 3/4 | 10,895 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 |        |
| 7   | 85,951 | 7   | 70,809 | 7   | 55,667 | 7   | 40,692 | 7   | 25,721 | 7   | 10,580 | 7   |        | 7   | 7      | 7   |        | 7   |        |
| 1/4 | 85,636 | 1/4 | 70,494 | 1/4 | 55,352 | 1/4 | 40,385 | 1/4 | 25,406 | 1/4 | 10,264 | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 85,320 | 1/2 | 70,178 | 1/2 | 55,036 | 1/2 | 40,078 | 1/2 | 25,091 | 1/2 | 9,949  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 |        |
| 3/4 | 85,005 | 3/4 | 69,863 | 3/4 | 54,721 | 3/4 | 39,771 | 3/4 | 24,775 | 3/4 | 9,634  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 |        |
| 8   | 84,689 | 8   | 69,547 | 8   | 54,405 | 8   | 39,463 | 8   | 24,460 | 8   | 9,318  | 8   |        | 8   | 8      | 8   |        | 8   |        |
| 1/4 | 84,374 | 1/4 | 69,232 | 1/4 | 54,090 | 1/4 | 39,156 | 1/4 | 24,144 | 1/4 | 9,003  | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 84,058 | 1/2 | 68,916 | 1/2 | 53,774 | 1/2 | 38,849 | 1/2 | 23,829 | 1/2 | 8,687  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 |        |
| 3/4 | 83,743 | 3/4 | 68,601 | 3/4 | 53,459 | 3/4 | 38,542 | 3/4 | 23,513 | 3/4 | 8,372  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 |        |
| 9   | 83,427 | 9   | 68,285 | 9   | 53,143 | 9   | 38,234 | 9   | 23,198 | 9   | 8,056  | 9   |        | 9   | 9      | 9   |        | 9   |        |
| 1/4 | 83,112 | 1/4 | 67,970 | 1/4 | 52,828 | 1/4 | 37,927 | 1/4 | 22,882 | 1/4 | 7,741  | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 82,796 | 1/2 | 67,654 | 1/2 | 52,513 | 1/2 | 37,620 | 1/2 | 22,567 | 1/2 | 7,425  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 |        |
| 3/4 | 82,481 | 3/4 | 67,339 | 3/4 | 52,197 | 3/4 | 37,313 | 3/4 | 22,252 | 3/4 | 7,110  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 |        |
| 10  | 82,166 | 10  | 67,024 | 10  | 51,882 | 10  | 37,005 | 10  | 21,936 | 10  | 6,795  | 10  |        | 10  | 10     | 10  |        | 10  |        |
| 1/4 | 81,850 | 1/4 | 66,708 | 1/4 | 51,566 | 1/4 | 36,698 | 1/4 | 21,621 | 1/4 | 6,479  | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 81,535 | 1/2 | 66,393 | 1/2 | 51,251 | 1/2 | 36,391 | 1/2 | 21,305 | 1/2 | 6,164  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 |        |
| 3/4 | 81,219 | 3/4 | 66,077 | 3/4 | 50,935 | 3/4 | 36,083 | 3/4 | 20,990 | 3/4 | 5,848  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 |        |
| 11  | 80,904 | 11  | 65,762 | 11  | 50,620 | 11  | 35,775 | 11  | 20,674 | 11  | 5,533  | 11  |        | 11  | 11     | 11  |        | 11  |        |
| 1/4 | 80,588 | 1/4 | 65,446 | 1/4 | 50,304 | 1/4 | 35,467 | 1/4 | 20,359 | 1/4 | 5,218  | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 80,273 | 1/2 | 65,131 | 1/2 | 49,989 | 1/2 | 35,159 | 1/2 | 20,043 | 1/2 | 4,902  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 |        |
| 3/4 | 79,957 | 3/4 | 64,815 | 3/4 | 49,674 | 3/4 | 34,850 | 3/4 | 19,728 | 3/4 | 4,587  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/07/2013 CL - SW  
CALCULATED: 01/07/2013 CL  
PRINTED: 01/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2013

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



# BARGE "CBC 309"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 1/2"

| IN  | 0 FT. | IN  | 1 FT. | IN  | 2 FT.   | IN  | 3 FT.   | IN  | 4 FT.   | IN  | 5 FT.   | IN  | 6 FT.   | IN  | 7 FT.   | IN  | 8 FT.   | IN  | 9 FT.   |
|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0   |       | 0   |       | 0   | 205,855 | 0   | 194,753 | 0   | 182,818 | 0   | 170,883 | 0   | 158,884 | 0   | 144,228 | 0   | 128,657 | 0   | 113,086 |
| 1/4 |       | 1/4 |       | 1/4 | 205,729 | 1/4 | 194,504 | 1/4 | 182,569 | 1/4 | 170,635 | 1/4 | 158,632 | 1/4 | 143,904 | 1/4 | 128,333 | 1/4 | 112,761 |
| 1/2 |       | 1/2 |       | 1/2 | 205,603 | 1/2 | 194,255 | 1/2 | 182,321 | 1/2 | 170,386 | 1/2 | 158,379 | 1/2 | 143,579 | 1/2 | 128,009 | 1/2 | 112,437 |
| 3/4 |       | 3/4 |       | 3/4 | 205,435 | 3/4 | 194,007 | 3/4 | 182,072 | 3/4 | 170,137 | 3/4 | 158,116 | 3/4 | 143,255 | 3/4 | 127,684 | 3/4 | 112,113 |
| 1   |       | 1   |       | 1   | 205,267 | 1   | 193,758 | 1   | 181,823 | 1   | 169,888 | 1   | 157,854 | 1   | 142,931 | 1   | 127,360 | 1   | 111,789 |
| 1/4 |       | 1/4 |       | 1/4 | 205,099 | 1/4 | 193,509 | 1/4 | 181,575 | 1/4 | 169,640 | 1/4 | 157,592 | 1/4 | 142,606 | 1/4 | 127,035 | 1/4 | 111,464 |
| 1/2 |       | 1/2 |       | 1/2 | 204,931 | 1/2 | 193,261 | 1/2 | 181,326 | 1/2 | 169,391 | 1/2 | 157,330 | 1/2 | 142,282 | 1/2 | 126,711 | 1/2 | 111,140 |
| 3/4 |       | 3/4 |       | 3/4 | 204,723 | 3/4 | 193,012 | 3/4 | 181,077 | 3/4 | 169,141 | 3/4 | 157,055 | 3/4 | 141,957 | 3/4 | 126,386 | 3/4 | 110,816 |
| 2   |       | 2   |       | 2   | 204,514 | 2   | 192,763 | 2   | 180,829 | 2   | 168,891 | 2   | 156,780 | 2   | 141,633 | 2   | 126,062 | 2   | 110,492 |
| 1/4 |       | 1/4 |       | 1/4 | 204,305 | 1/4 | 192,515 | 1/4 | 180,580 | 1/4 | 168,641 | 1/4 | 156,505 | 1/4 | 141,309 | 1/4 | 125,738 | 1/4 | 110,168 |
| 1/2 |       | 1/2 |       | 1/2 | 204,097 | 1/2 | 192,266 | 1/2 | 180,332 | 1/2 | 168,391 | 1/2 | 156,230 | 1/2 | 140,984 | 1/2 | 125,413 | 1/2 | 109,844 |
| 3/4 |       | 3/4 |       | 3/4 | 203,857 | 3/4 | 192,018 | 3/4 | 180,083 | 3/4 | 168,141 | 3/4 | 155,942 | 3/4 | 140,660 | 3/4 | 125,089 | 3/4 | 109,520 |
| 3   |       | 3   |       | 3   | 203,618 | 3   | 191,769 | 3   | 179,834 | 3   | 167,891 | 3   | 155,655 | 3   | 140,336 | 3   | 124,764 | 3   | 109,195 |
| 1/4 |       | 1/4 |       | 1/4 | 203,378 | 1/4 | 191,520 | 1/4 | 179,586 | 1/4 | 167,641 | 1/4 | 155,368 | 1/4 | 140,011 | 1/4 | 124,440 | 1/4 | 108,871 |
| 1/2 |       | 1/2 |       | 1/2 | 203,139 | 1/2 | 191,272 | 1/2 | 179,337 | 1/2 | 167,391 | 1/2 | 155,080 | 1/2 | 139,687 | 1/2 | 124,116 | 1/2 | 108,547 |
| 3/4 |       | 3/4 |       | 3/4 | 202,895 | 3/4 | 191,023 | 3/4 | 179,088 | 3/4 | 167,141 | 3/4 | 154,780 | 3/4 | 139,362 | 3/4 | 123,791 | 3/4 | 108,223 |
| 4   |       | 4   |       | 4   | 202,651 | 4   | 190,774 | 4   | 178,840 | 4   | 166,891 | 4   | 154,480 | 4   | 139,038 | 4   | 123,467 | 4   | 107,899 |
| 1/4 |       | 1/4 |       | 1/4 | 202,407 | 1/4 | 190,526 | 1/4 | 178,591 | 1/4 | 166,641 | 1/4 | 154,180 | 1/4 | 138,714 | 1/4 | 123,142 | 1/4 | 107,575 |
| 1/2 |       | 1/2 |       | 1/2 | 202,163 | 1/2 | 190,277 | 1/2 | 178,342 | 1/2 | 166,391 | 1/2 | 153,880 | 1/2 | 138,389 | 1/2 | 122,818 | 1/2 | 107,251 |
| 3/4 |       | 3/4 |       | 3/4 | 201,918 | 3/4 | 190,028 | 3/4 | 178,094 | 3/4 | 166,141 | 3/4 | 153,567 | 3/4 | 138,065 | 3/4 | 122,494 | 3/4 | 106,928 |
| 5   |       | 5   |       | 5   | 201,673 | 5   | 189,780 | 5   | 177,845 | 5   | 165,891 | 5   | 153,255 | 5   | 137,740 | 5   | 122,169 | 5   | 106,604 |
| 1/4 |       | 1/4 |       | 1/4 | 201,428 | 1/4 | 189,531 | 1/4 | 177,597 | 1/4 | 165,641 | 1/4 | 152,943 | 1/4 | 137,416 | 1/4 | 121,845 | 1/4 | 106,281 |
| 1/2 |       | 1/2 |       | 1/2 | 201,184 | 1/2 | 189,283 | 1/2 | 177,348 | 1/2 | 165,391 | 1/2 | 152,630 | 1/2 | 137,092 | 1/2 | 121,520 | 1/2 | 105,958 |
| 3/4 |       | 3/4 |       | 3/4 | 200,938 | 3/4 | 189,034 | 3/4 | 177,099 | 3/4 | 165,141 | 3/4 | 152,309 | 3/4 | 136,767 | 3/4 | 121,196 | 3/4 | 105,635 |
| 6   |       | 6   |       | 6   | 200,693 | 6   | 188,785 | 6   | 176,851 | 6   | 164,891 | 6   | 151,987 | 6   | 136,443 | 6   | 120,871 | 6   | 105,311 |
| 1/4 |       | 1/4 |       | 1/4 | 200,447 | 1/4 | 188,537 | 1/4 | 176,602 | 1/4 | 164,641 | 1/4 | 151,666 | 1/4 | 136,119 | 1/4 | 120,547 | 1/4 | 104,988 |
| 1/2 |       | 1/2 |       | 1/2 | 200,202 | 1/2 | 188,288 | 1/2 | 176,353 | 1/2 | 164,391 | 1/2 | 151,344 | 1/2 | 135,794 | 1/2 | 120,223 | 1/2 | 104,665 |
| 3/4 |       | 3/4 |       | 3/4 | 199,956 | 3/4 | 188,039 | 3/4 | 176,105 | 3/4 | 164,141 | 3/4 | 151,021 | 3/4 | 135,470 | 3/4 | 119,898 | 3/4 | 104,341 |
| 7   |       | 7   |       | 7   | 199,710 | 7   | 187,791 | 7   | 175,856 | 7   | 163,891 | 7   | 150,698 | 7   | 135,145 | 7   | 119,574 | 7   | 104,017 |
| 1/4 |       | 1/4 |       | 1/4 | 199,464 | 1/4 | 187,542 | 1/4 | 175,607 | 1/4 | 163,641 | 1/4 | 150,375 | 1/4 | 134,821 | 1/4 | 119,249 | 1/4 | 103,694 |
| 1/2 |       | 1/2 |       | 1/2 | 199,219 | 1/2 | 187,293 | 1/2 | 175,359 | 1/2 | 163,391 | 1/2 | 150,052 | 1/2 | 134,497 | 1/2 | 118,925 | 1/2 | 103,370 |
| 3/4 |       | 3/4 |       | 3/4 | 198,972 | 3/4 | 187,045 | 3/4 | 175,110 | 3/4 | 163,141 | 3/4 | 149,729 | 3/4 | 134,172 | 3/4 | 118,601 | 3/4 | 103,047 |
| 8   |       | 8   |       | 8   | 198,726 | 8   | 186,796 | 8   | 174,862 | 8   | 162,891 | 8   | 149,406 | 8   | 133,848 | 8   | 118,276 | 8   | 102,723 |
| 1/4 |       | 1/4 |       | 1/4 | 198,480 | 1/4 | 186,548 | 1/4 | 174,613 | 1/4 | 162,641 | 1/4 | 149,082 | 1/4 | 133,523 | 1/4 | 117,952 | 1/4 | 102,400 |
| 1/2 |       | 1/2 |       | 1/2 | 198,234 | 1/2 | 186,299 | 1/2 | 174,364 | 1/2 | 162,391 | 1/2 | 148,759 | 1/2 | 133,199 | 1/2 | 117,627 | 1/2 | 102,076 |
| 3/4 |       | 3/4 |       | 3/4 | 197,985 | 3/4 | 186,050 | 3/4 | 174,116 | 3/4 | 162,141 | 3/4 | 148,436 | 3/4 | 132,875 | 3/4 | 117,303 | 3/4 | 101,752 |
| 9   |       | 9   |       | 9   | 197,736 | 9   | 185,802 | 9   | 173,867 | 9   | 161,891 | 9   | 148,112 | 9   | 132,550 | 9   | 116,979 | 9   | 101,429 |
| 1/4 |       | 1/4 |       | 1/4 | 197,488 | 1/4 | 185,553 | 1/4 | 173,618 | 1/4 | 161,641 | 1/4 | 147,789 | 1/4 | 132,226 | 1/4 | 116,654 | 1/4 | 101,105 |
| 1/2 |       | 1/2 |       | 1/2 | 197,239 | 1/2 | 185,304 | 1/2 | 173,370 | 1/2 | 161,391 | 1/2 | 147,466 | 1/2 | 131,901 | 1/2 | 116,330 | 1/2 | 100,782 |
| 3/4 |       | 3/4 |       | 3/4 | 196,990 | 3/4 | 185,056 | 3/4 | 173,121 | 3/4 | 161,141 | 3/4 | 147,142 | 3/4 | 131,577 | 3/4 | 116,005 | 3/4 | 100,458 |
| 10  |       | 10  |       | 10  | 196,742 | 10  | 184,807 | 10  | 172,872 | 10  | 160,891 | 10  | 146,819 | 10  | 131,253 | 10  | 115,681 | 10  | 100,135 |
| 1/4 |       | 1/4 |       | 1/4 | 196,493 | 1/4 | 184,558 | 1/4 | 172,624 | 1/4 | 160,641 | 1/4 | 146,495 | 1/4 | 130,928 | 1/4 | 115,356 | 1/4 | 99,811  |
| 1/2 |       | 1/2 |       | 1/2 | 196,244 | 1/2 | 184,310 | 1/2 | 172,375 | 1/2 | 160,390 | 1/2 | 146,172 | 1/2 | 130,604 | 1/2 | 115,032 | 1/2 | 99,487  |
| 3/4 |       | 3/4 |       | 3/4 | 195,996 | 3/4 | 184,061 | 3/4 | 172,126 | 3/4 | 160,140 | 3/4 | 145,848 | 3/4 | 130,279 | 3/4 | 114,708 | 3/4 | 99,164  |
| 11  |       | 11  |       | 11  | 195,747 | 11  | 183,812 | 11  | 171,878 | 11  | 159,890 | 11  | 145,524 | 11  | 129,955 | 11  | 114,383 | 11  | 98,840  |
| 1/4 |       | 1/4 |       | 1/4 | 195,499 | 1/4 | 183,564 | 1/4 | 171,629 | 1/4 | 159,640 | 1/4 | 145,201 | 1/4 | 129,631 | 1/4 | 114,059 | 1/4 | 98,517  |
| 1/2 |       | 1/2 |       | 1/2 | 195,250 | 1/2 | 183,315 | 1/2 | 171,381 | 1/2 | 159,390 | 1/2 | 144,877 | 1/2 | 129,306 | 1/2 | 113,734 | 1/2 | 98,193  |
| 3/4 |       | 3/4 |       | 3/4 | 195,001 | 3/4 | 183,067 | 3/4 | 171,132 | 3/4 | 159,137 | 3/4 | 144,552 | 3/4 | 128,982 | 3/4 | 113,410 | 3/4 | 97,870  |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "CBC 309"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 1/2"

| IN  | 10 FT. | IN  | 11 FT. | IN  | 12 FT. | IN  | 13 FT. | IN  | 14 FT. | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN | 18 FT. | IN  | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|----|--------|-----|--------|
| 0   | 97,546 | 0   | 81,981 | 0   | 66,397 | 0   | 50,864 | 0   | 35,634 | 0   | 20,031 | 0   | 4,408  | 0   |        | 0  |        | 0   |        |
| 1/4 | 97,222 | 1/4 | 81,656 | 1/4 | 66,073 | 1/4 | 50,547 | 1/4 | 35,310 | 1/4 | 19,706 | 1/4 | 4,083  | 1/4 | 1/4    |    | 1/4    | 1/4 |        |
| 1/2 | 96,899 | 1/2 | 81,331 | 1/2 | 65,748 | 1/2 | 50,231 | 1/2 | 34,985 | 1/2 | 19,380 | 1/2 | 3,758  | 1/2 | 1/2    |    | 1/2    | 1/2 |        |
| 3/4 | 96,575 | 3/4 | 81,007 | 3/4 | 65,423 | 3/4 | 49,914 | 3/4 | 34,661 | 3/4 | 19,055 | 3/4 | 3,439  | 3/4 | 3/4    |    | 3/4    | 3/4 |        |
| 1   | 96,252 | 1   | 80,682 | 1   | 65,099 | 1   | 49,598 | 1   | 34,336 | 1   | 18,729 | 1   | 3,120  | 1   | 1      |    | 1      | 1   |        |
| 1/4 | 95,928 | 1/4 | 80,357 | 1/4 | 64,774 | 1/4 | 49,281 | 1/4 | 34,012 | 1/4 | 18,404 | 1/4 | 2,801  | 1/4 | 1/4    |    | 1/4    | 1/4 |        |
| 1/2 | 95,605 | 1/2 | 80,033 | 1/2 | 64,449 | 1/2 | 48,965 | 1/2 | 33,687 | 1/2 | 18,078 | 1/2 | 2,482  | 1/2 | 1/2    |    | 1/2    | 1/2 |        |
| 3/4 | 95,281 | 3/4 | 79,708 | 3/4 | 64,125 | 3/4 | 48,648 | 3/4 | 33,363 | 3/4 | 17,753 | 3/4 | 2,208  | 3/4 | 3/4    |    | 3/4    | 3/4 |        |
| 2   | 94,957 | 2   | 79,383 | 2   | 63,800 | 2   | 48,332 | 2   | 33,038 | 2   | 17,427 | 2   | 1,933  | 2   | 2      |    | 2      | 2   |        |
| 1/4 | 94,634 | 1/4 | 79,059 | 1/4 | 63,475 | 1/4 | 48,015 | 1/4 | 32,714 | 1/4 | 17,102 | 1/4 | 1,658  | 1/4 | 1/4    |    | 1/4    | 1/4 |        |
| 1/2 | 94,310 | 1/2 | 78,734 | 1/2 | 63,151 | 1/2 | 47,699 | 1/2 | 32,389 | 1/2 | 16,776 | 1/2 | 1,384  | 1/2 | 1/2    |    | 1/2    | 1/2 |        |
| 3/4 | 93,987 | 3/4 | 78,409 | 3/4 | 62,826 | 3/4 | 47,383 | 3/4 | 32,065 | 3/4 | 16,451 | 3/4 | 1,190  | 3/4 | 3/4    |    | 3/4    | 3/4 |        |
| 3   | 93,663 | 3   | 78,085 | 3   | 62,501 | 3   | 47,067 | 3   | 31,740 | 3   | 16,125 | 3   | 997    | 3   | 3      |    | 3      | 3   |        |
| 1/4 | 93,340 | 1/4 | 77,760 | 1/4 | 62,177 | 1/4 | 46,750 | 1/4 | 31,416 | 1/4 | 15,800 | 1/4 | 804    | 1/4 | 1/4    |    | 1/4    | 1/4 |        |
| 1/2 | 93,016 | 1/2 | 77,435 | 1/2 | 61,852 | 1/2 | 46,434 | 1/2 | 31,091 | 1/2 | 15,474 | 1/2 | 611    | 1/2 | 1/2    |    | 1/2    | 1/2 |        |
| 3/4 | 92,692 | 3/4 | 77,111 | 3/4 | 61,527 | 3/4 | 46,118 | 3/4 | 30,767 | 3/4 | 15,149 | 3/4 |        | 3/4 | 3/4    |    | 3/4    | 3/4 |        |
| 4   | 92,369 | 4   | 76,786 | 4   | 61,202 | 4   | 45,802 | 4   | 30,442 | 4   | 14,823 | 4   |        | 4   | 4      |    | 4      | 4   |        |
| 1/4 | 92,045 | 1/4 | 76,461 | 1/4 | 60,878 | 1/4 | 45,486 | 1/4 | 30,118 | 1/4 | 14,498 | 1/4 |        | 1/4 | 1/4    |    | 1/4    | 1/4 |        |
| 1/2 | 91,721 | 1/2 | 76,137 | 1/2 | 60,553 | 1/2 | 45,170 | 1/2 | 29,793 | 1/2 | 14,172 | 1/2 |        | 1/2 | 1/2    |    | 1/2    | 1/2 |        |
| 3/4 | 91,396 | 3/4 | 75,812 | 3/4 | 60,228 | 3/4 | 44,854 | 3/4 | 29,469 | 3/4 | 13,847 | 3/4 |        | 3/4 | 3/4    |    | 3/4    | 3/4 |        |
| 5   | 91,072 | 5   | 75,487 | 5   | 59,904 | 5   | 44,538 | 5   | 29,144 | 5   | 13,521 | 5   |        | 5   | 5      |    | 5      | 5   |        |
| 1/4 | 90,747 | 1/4 | 75,163 | 1/4 | 59,579 | 1/4 | 44,222 | 1/4 | 28,820 | 1/4 | 13,196 | 1/4 |        | 1/4 | 1/4    |    | 1/4    | 1/4 |        |
| 1/2 | 90,422 | 1/2 | 74,838 | 1/2 | 59,254 | 1/2 | 43,906 | 1/2 | 28,495 | 1/2 | 12,870 | 1/2 |        | 1/2 | 1/2    |    | 1/2    | 1/2 |        |
| 3/4 | 90,098 | 3/4 | 74,513 | 3/4 | 58,930 | 3/4 | 43,590 | 3/4 | 28,169 | 3/4 | 12,545 | 3/4 |        | 3/4 | 3/4    |    | 3/4    | 3/4 |        |
| 6   | 89,773 | 6   | 74,188 | 6   | 58,605 | 6   | 43,274 | 6   | 27,844 | 6   | 12,219 | 6   |        | 6   | 6      |    | 6      | 6   |        |
| 1/4 | 89,448 | 1/4 | 73,864 | 1/4 | 58,280 | 1/4 | 42,957 | 1/4 | 27,518 | 1/4 | 11,894 | 1/4 |        | 1/4 | 1/4    |    | 1/4    | 1/4 |        |
| 1/2 | 89,124 | 1/2 | 73,539 | 1/2 | 57,956 | 1/2 | 42,641 | 1/2 | 27,193 | 1/2 | 11,568 | 1/2 |        | 1/2 | 1/2    |    | 1/2    | 1/2 |        |
| 3/4 | 88,799 | 3/4 | 73,214 | 3/4 | 57,631 | 3/4 | 42,325 | 3/4 | 26,867 | 3/4 | 11,242 | 3/4 |        | 3/4 | 3/4    |    | 3/4    | 3/4 |        |
| 7   | 88,474 | 7   | 72,890 | 7   | 57,306 | 7   | 42,009 | 7   | 26,542 | 7   | 10,917 | 7   |        | 7   | 7      |    | 7      | 7   |        |
| 1/4 | 88,150 | 1/4 | 72,565 | 1/4 | 56,982 | 1/4 | 41,693 | 1/4 | 26,216 | 1/4 | 10,591 | 1/4 |        | 1/4 | 1/4    |    | 1/4    | 1/4 |        |
| 1/2 | 87,825 | 1/2 | 72,240 | 1/2 | 56,657 | 1/2 | 41,377 | 1/2 | 25,891 | 1/2 | 10,266 | 1/2 |        | 1/2 | 1/2    |    | 1/2    | 1/2 |        |
| 3/4 | 87,500 | 3/4 | 71,916 | 3/4 | 56,332 | 3/4 | 41,061 | 3/4 | 25,565 | 3/4 | 9,940  | 3/4 |        | 3/4 | 3/4    |    | 3/4    | 3/4 |        |
| 8   | 87,176 | 8   | 71,591 | 8   | 56,008 | 8   | 40,745 | 8   | 25,240 | 8   | 9,615  | 8   |        | 8   | 8      |    | 8      | 8   |        |
| 1/4 | 86,851 | 1/4 | 71,266 | 1/4 | 55,683 | 1/4 | 40,429 | 1/4 | 24,914 | 1/4 | 9,289  | 1/4 |        | 1/4 | 1/4    |    | 1/4    | 1/4 |        |
| 1/2 | 86,526 | 1/2 | 70,942 | 1/2 | 55,358 | 1/2 | 40,113 | 1/2 | 24,589 | 1/2 | 8,964  | 1/2 |        | 1/2 | 1/2    |    | 1/2    | 1/2 |        |
| 3/4 | 86,202 | 3/4 | 70,617 | 3/4 | 55,034 | 3/4 | 39,797 | 3/4 | 24,263 | 3/4 | 8,638  | 3/4 |        | 3/4 | 3/4    |    | 3/4    | 3/4 |        |
| 9   | 85,877 | 9   | 70,292 | 9   | 54,709 | 9   | 39,481 | 9   | 23,938 | 9   | 8,313  | 9   |        | 9   | 9      |    | 9      | 9   |        |
| 1/4 | 85,552 | 1/4 | 69,968 | 1/4 | 54,384 | 1/4 | 39,165 | 1/4 | 23,612 | 1/4 | 7,987  | 1/4 |        | 1/4 | 1/4    |    | 1/4    | 1/4 |        |
| 1/2 | 85,228 | 1/2 | 69,643 | 1/2 | 54,060 | 1/2 | 38,849 | 1/2 | 23,287 | 1/2 | 7,662  | 1/2 |        | 1/2 | 1/2    |    | 1/2    | 1/2 |        |
| 3/4 | 84,903 | 3/4 | 69,318 | 3/4 | 53,736 | 3/4 | 38,532 | 3/4 | 22,961 | 3/4 | 7,336  | 3/4 |        | 3/4 | 3/4    |    | 3/4    | 3/4 |        |
| 10  | 84,578 | 10  | 68,994 | 10  | 53,412 | 10  | 38,215 | 10  | 22,636 | 10  | 7,011  | 10  |        | 10  | 10     |    | 10     | 10  |        |
| 1/4 | 84,254 | 1/4 | 68,669 | 1/4 | 53,088 | 1/4 | 37,898 | 1/4 | 22,310 | 1/4 | 6,685  | 1/4 |        | 1/4 | 1/4    |    | 1/4    | 1/4 |        |
| 1/2 | 83,929 | 1/2 | 68,344 | 1/2 | 52,765 | 1/2 | 37,582 | 1/2 | 21,985 | 1/2 | 6,360  | 1/2 |        | 1/2 | 1/2    |    | 1/2    | 1/2 |        |
| 3/4 | 83,604 | 3/4 | 68,020 | 3/4 | 52,448 | 3/4 | 37,257 | 3/4 | 21,659 | 3/4 | 6,034  | 3/4 |        | 3/4 | 3/4    |    | 3/4    | 3/4 |        |
| 11  | 83,279 | 11  | 67,695 | 11  | 52,131 | 11  | 36,933 | 11  | 21,334 | 11  | 5,709  | 11  |        | 11  | 11     |    | 11     | 11  |        |
| 1/4 | 82,955 | 1/4 | 67,371 | 1/4 | 51,814 | 1/4 | 36,608 | 1/4 | 21,008 | 1/4 | 5,384  | 1/4 |        | 1/4 | 1/4    |    | 1/4    | 1/4 |        |
| 1/2 | 82,630 | 1/2 | 67,046 | 1/2 | 51,498 | 1/2 | 36,283 | 1/2 | 20,682 | 1/2 | 5,058  | 1/2 |        | 1/2 | 1/2    |    | 1/2    | 1/2 |        |
| 3/4 | 82,305 | 3/4 | 66,722 | 3/4 | 51,181 | 3/4 | 35,959 | 3/4 | 20,357 | 3/4 | 4,733  | 3/4 |        | 3/4 | 3/4    |    | 3/4    | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/07/2013 CL - SW  
CALCULATED: 01/07/2013 CL  
PRINTED: 01/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2013

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



# BARGE "CBC 309"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 3/4"

| IN  | 0 FT. | IN  | 1 FT. | IN  | 2 FT. | IN  | 3 FT.   | IN  | 4 FT.   | IN  | 5 FT.   | IN  | 6 FT.   | IN  | 7 FT.   | IN  | 8 FT.   | IN  | 9 FT.   |
|-----|-------|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0   |       | 0   |       | 0   |       | 0   | 194,706 | 0   | 182,769 | 0   | 170,833 | 0   | 158,836 | 0   | 144,249 | 0   | 128,676 | 0   | 113,102 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 205,561 | 1/4 | 194,457 | 1/4 | 182,520 | 1/4 | 158,583 | 1/4 | 143,925 | 1/4 | 128,351 | 1/4 | 112,777 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 205,435 | 1/2 | 194,208 | 1/2 | 182,272 | 1/2 | 158,330 | 1/2 | 143,600 | 1/2 | 128,027 | 1/2 | 112,453 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 205,309 | 3/4 | 193,960 | 3/4 | 182,023 | 3/4 | 158,078 | 3/4 | 143,276 | 3/4 | 127,703 | 3/4 | 112,129 |
| 1   |       | 1   |       | 1   |       | 1   | 205,141 | 1   | 193,711 | 1   | 181,774 | 1   | 169,838 | 1   | 157,815 | 1   | 142,951 | 1   | 127,378 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 204,973 | 1/4 | 193,462 | 1/4 | 181,526 | 1/4 | 169,589 | 1/4 | 157,553 | 1/4 | 142,627 | 1/4 | 127,054 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 204,805 | 1/2 | 193,214 | 1/2 | 181,277 | 1/2 | 169,340 | 1/2 | 157,290 | 1/2 | 142,302 | 1/2 | 126,729 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 204,637 | 3/4 | 192,965 | 3/4 | 181,028 | 3/4 | 169,091 | 3/4 | 157,028 | 3/4 | 141,978 | 3/4 | 126,405 |
| 2   |       | 2   |       | 2   |       | 2   | 204,429 | 2   | 192,716 | 2   | 180,780 | 2   | 168,841 | 2   | 156,753 | 2   | 141,654 | 2   | 126,080 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 204,220 | 1/4 | 192,468 | 1/4 | 180,531 | 1/4 | 168,591 | 1/4 | 156,478 | 1/4 | 141,329 | 1/4 | 125,756 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 204,011 | 1/2 | 192,219 | 1/2 | 180,282 | 1/2 | 168,341 | 1/2 | 156,203 | 1/2 | 141,005 | 1/2 | 125,431 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 203,802 | 3/4 | 191,970 | 3/4 | 180,034 | 3/4 | 168,091 | 3/4 | 155,928 | 3/4 | 140,680 | 3/4 | 125,107 |
| 3   |       | 3   |       | 3   |       | 3   | 203,563 | 3   | 191,722 | 3   | 179,785 | 3   | 167,841 | 3   | 155,641 | 3   | 140,356 | 3   | 124,782 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 203,323 | 1/4 | 191,473 | 1/4 | 179,536 | 1/4 | 167,591 | 1/4 | 155,353 | 1/4 | 140,031 | 1/4 | 124,458 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 203,084 | 1/2 | 191,224 | 1/2 | 179,288 | 1/2 | 167,341 | 1/2 | 155,066 | 1/2 | 139,707 | 1/2 | 124,133 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 202,844 | 3/4 | 190,976 | 3/4 | 179,039 | 3/4 | 167,091 | 3/4 | 154,778 | 3/4 | 139,383 | 3/4 | 123,809 |
| 4   |       | 4   |       | 4   |       | 4   | 202,600 | 4   | 190,727 | 4   | 178,790 | 4   | 166,841 | 4   | 154,478 | 4   | 139,058 | 4   | 123,485 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 202,356 | 1/4 | 190,478 | 1/4 | 178,542 | 1/4 | 166,591 | 1/4 | 154,178 | 1/4 | 138,734 | 1/4 | 123,160 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 202,112 | 1/2 | 190,230 | 1/2 | 178,293 | 1/2 | 166,341 | 1/2 | 153,878 | 1/2 | 138,409 | 1/2 | 122,836 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 201,869 | 3/4 | 189,981 | 3/4 | 178,044 | 3/4 | 166,091 | 3/4 | 153,578 | 3/4 | 138,085 | 3/4 | 122,511 |
| 5   |       | 5   |       | 5   |       | 5   | 201,624 | 5   | 189,732 | 5   | 177,796 | 5   | 165,841 | 5   | 153,265 | 5   | 137,760 | 5   | 122,187 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 201,379 | 1/4 | 189,483 | 1/4 | 177,547 | 1/4 | 165,591 | 1/4 | 152,953 | 1/4 | 137,436 | 1/4 | 121,862 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 201,134 | 1/2 | 189,235 | 1/2 | 177,298 | 1/2 | 165,341 | 1/2 | 152,641 | 1/2 | 137,112 | 1/2 | 121,538 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 200,889 | 3/4 | 188,986 | 3/4 | 177,050 | 3/4 | 165,090 | 3/4 | 152,328 | 3/4 | 136,787 | 3/4 | 121,213 |
| 6   |       | 6   |       | 6   |       | 6   | 200,643 | 6   | 188,737 | 6   | 176,801 | 6   | 164,840 | 6   | 152,007 | 6   | 136,463 | 6   | 120,889 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 200,398 | 1/4 | 188,489 | 1/4 | 176,552 | 1/4 | 164,590 | 1/4 | 151,685 | 1/4 | 136,138 | 1/4 | 120,564 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 200,153 | 1/2 | 188,240 | 1/2 | 176,304 | 1/2 | 164,340 | 1/2 | 151,363 | 1/2 | 135,814 | 1/2 | 120,240 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 199,907 | 3/4 | 187,991 | 3/4 | 176,055 | 3/4 | 164,090 | 3/4 | 151,042 | 3/4 | 135,489 | 3/4 | 119,915 |
| 7   |       | 7   |       | 7   |       | 7   | 199,661 | 7   | 187,743 | 7   | 175,806 | 7   | 163,840 | 7   | 150,719 | 7   | 135,165 | 7   | 119,591 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 199,415 | 1/4 | 187,494 | 1/4 | 175,558 | 1/4 | 163,590 | 1/4 | 150,396 | 1/4 | 134,841 | 1/4 | 119,267 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 199,170 | 1/2 | 187,245 | 1/2 | 175,309 | 1/2 | 163,340 | 1/2 | 150,073 | 1/2 | 134,516 | 1/2 | 118,942 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 198,924 | 3/4 | 186,997 | 3/4 | 175,060 | 3/4 | 163,090 | 3/4 | 149,750 | 3/4 | 134,192 | 3/4 | 118,618 |
| 8   |       | 8   |       | 8   |       | 8   | 198,677 | 8   | 186,748 | 8   | 174,811 | 8   | 162,840 | 8   | 149,426 | 8   | 133,867 | 8   | 118,293 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 198,431 | 1/4 | 186,499 | 1/4 | 174,563 | 1/4 | 162,590 | 1/4 | 149,103 | 1/4 | 133,543 | 1/4 | 117,969 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 198,185 | 1/2 | 186,251 | 1/2 | 174,314 | 1/2 | 162,340 | 1/2 | 148,780 | 1/2 | 133,218 | 1/2 | 117,644 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 197,939 | 3/4 | 186,002 | 3/4 | 174,065 | 3/4 | 162,090 | 3/4 | 148,456 | 3/4 | 132,894 | 3/4 | 117,320 |
| 9   |       | 9   |       | 9   |       | 9   | 197,690 | 9   | 185,753 | 9   | 173,817 | 9   | 161,840 | 9   | 148,133 | 9   | 132,569 | 9   | 116,995 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 197,441 | 1/4 | 185,505 | 1/4 | 173,568 | 1/4 | 161,590 | 1/4 | 147,810 | 1/4 | 132,245 | 1/4 | 116,671 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 197,192 | 1/2 | 185,256 | 1/2 | 173,319 | 1/2 | 161,340 | 1/2 | 147,486 | 1/2 | 131,921 | 1/2 | 116,346 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 196,944 | 3/4 | 185,007 | 3/4 | 173,071 | 3/4 | 161,090 | 3/4 | 147,163 | 3/4 | 131,596 | 3/4 | 116,022 |
| 10  |       | 10  |       | 10  |       | 10  | 196,695 | 10  | 184,759 | 10  | 172,822 | 10  | 160,840 | 10  | 146,839 | 10  | 131,272 | 10  | 115,697 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 196,446 | 1/4 | 184,510 | 1/4 | 172,573 | 1/4 | 160,590 | 1/4 | 146,516 | 1/4 | 130,947 | 1/4 | 115,373 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 196,198 | 1/2 | 184,261 | 1/2 | 172,325 | 1/2 | 160,340 | 1/2 | 146,192 | 1/2 | 130,623 | 1/2 | 115,049 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 195,949 | 3/4 | 184,013 | 3/4 | 172,076 | 3/4 | 160,090 | 3/4 | 145,868 | 3/4 | 130,298 | 3/4 | 114,724 |
| 11  |       | 11  |       | 11  |       | 11  | 195,700 | 11  | 183,764 | 11  | 171,827 | 11  | 159,839 | 11  | 145,545 | 11  | 129,974 | 11  | 114,400 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 195,452 | 1/4 | 183,515 | 1/4 | 171,579 | 1/4 | 159,589 | 1/4 | 145,221 | 1/4 | 129,649 | 1/4 | 114,075 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 195,203 | 1/2 | 183,267 | 1/2 | 171,330 | 1/2 | 159,339 | 1/2 | 144,897 | 1/2 | 129,325 | 1/2 | 113,751 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 194,954 | 3/4 | 183,018 | 3/4 | 171,081 | 3/4 | 159,089 | 3/4 | 144,574 | 3/4 | 129,000 | 3/4 | 113,426 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE.

GAUGE POINT: (MMC) LOCATED 11'-00" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CBC 309"

**3 STBD**  
**ULLAGE TABLE**

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-03 3/4"

| IN  | 10 FT. | IN  | 11 FT. | IN  | 12 FT. | IN  | 13 FT. | IN  | 14 FT. | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 97,559 | 0   | 81,992 | 0   | 66,406 | 0   | 50,897 | 0   | 35,965 | 0   | 20,360 | 0   | 4,734  | 0   |        | 0   |        | 0   |        |
| 1/4 | 97,235 | 1/4 | 81,668 | 1/4 | 66,082 | 1/4 | 50,586 | 1/4 | 35,640 | 1/4 | 20,035 | 1/4 | 4,409  | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 96,912 | 1/2 | 81,343 | 1/2 | 65,757 | 1/2 | 50,275 | 1/2 | 35,315 | 1/2 | 19,709 | 1/2 | 4,084  | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 96,588 | 3/4 | 81,018 | 3/4 | 65,432 | 3/4 | 49,965 | 3/4 | 34,991 | 3/4 | 19,383 | 3/4 | 3,759  | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 1   | 96,264 | 1   | 80,693 | 1   | 65,108 | 1   | 49,654 | 1   | 34,666 | 1   | 19,058 | 1   | 3,440  | 1   |        | 1   |        | 1   |        |
| 1/4 | 95,941 | 1/4 | 80,369 | 1/4 | 64,783 | 1/4 | 49,344 | 1/4 | 34,342 | 1/4 | 18,732 | 1/4 | 3,121  | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 95,617 | 1/2 | 80,044 | 1/2 | 64,458 | 1/2 | 49,034 | 1/2 | 34,017 | 1/2 | 18,407 | 1/2 | 2,802  | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 95,294 | 3/4 | 79,719 | 3/4 | 64,133 | 3/4 | 48,724 | 3/4 | 33,693 | 3/4 | 18,081 | 3/4 | 2,483  | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 2   | 94,970 | 2   | 79,395 | 2   | 63,809 | 2   | 48,414 | 2   | 33,368 | 2   | 17,756 | 2   | 2,208  | 2   |        | 2   |        | 2   |        |
| 1/4 | 94,646 | 1/4 | 79,070 | 1/4 | 63,484 | 1/4 | 48,104 | 1/4 | 33,044 | 1/4 | 17,430 | 1/4 | 1,933  | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 94,323 | 1/2 | 78,745 | 1/2 | 63,159 | 1/2 | 47,795 | 1/2 | 32,719 | 1/2 | 17,104 | 1/2 | 1,659  | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 93,999 | 3/4 | 78,420 | 3/4 | 62,834 | 3/4 | 47,485 | 3/4 | 32,394 | 3/4 | 16,779 | 3/4 | 1,384  | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 3   | 93,675 | 3   | 78,096 | 3   | 62,510 | 3   | 47,176 | 3   | 32,070 | 3   | 16,453 | 3   | 1,191  | 3   |        | 3   |        | 3   |        |
| 1/4 | 93,352 | 1/4 | 77,771 | 1/4 | 62,185 | 1/4 | 46,867 | 1/4 | 31,745 | 1/4 | 16,128 | 1/4 | 997    | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 93,028 | 1/2 | 77,446 | 1/2 | 61,860 | 1/2 | 46,558 | 1/2 | 31,421 | 1/2 | 15,802 | 1/2 | 804    | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 92,705 | 3/4 | 77,121 | 3/4 | 61,536 | 3/4 | 46,248 | 3/4 | 31,096 | 3/4 | 15,477 | 3/4 | 611    | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 4   | 92,381 | 4   | 76,797 | 4   | 61,211 | 4   | 45,939 | 4   | 30,772 | 4   | 15,151 | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 92,057 | 1/4 | 76,472 | 1/4 | 60,886 | 1/4 | 45,630 | 1/4 | 30,447 | 1/4 | 14,825 | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 91,733 | 1/2 | 76,147 | 1/2 | 60,561 | 1/2 | 45,321 | 1/2 | 30,123 | 1/2 | 14,500 | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 91,410 | 3/4 | 75,823 | 3/4 | 60,237 | 3/4 | 45,011 | 3/4 | 29,798 | 3/4 | 14,174 | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 5   | 91,085 | 5   | 75,498 | 5   | 59,912 | 5   | 44,702 | 5   | 29,473 | 5   | 13,849 | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 90,760 | 1/4 | 75,173 | 1/4 | 59,587 | 1/4 | 44,393 | 1/4 | 29,149 | 1/4 | 13,523 | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 90,435 | 1/2 | 74,848 | 1/2 | 59,262 | 1/2 | 44,084 | 1/2 | 28,824 | 1/2 | 13,198 | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 90,111 | 3/4 | 74,524 | 3/4 | 58,938 | 3/4 | 43,775 | 3/4 | 28,499 | 3/4 | 12,872 | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 6   | 89,786 | 6   | 74,199 | 6   | 58,613 | 6   | 43,465 | 6   | 28,174 | 6   | 12,547 | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 89,461 | 1/4 | 73,874 | 1/4 | 58,288 | 1/4 | 43,156 | 1/4 | 27,848 | 1/4 | 12,221 | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 89,136 | 1/2 | 73,549 | 1/2 | 57,964 | 1/2 | 42,847 | 1/2 | 27,523 | 1/2 | 11,895 | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 88,812 | 3/4 | 73,225 | 3/4 | 57,639 | 3/4 | 42,538 | 3/4 | 27,197 | 3/4 | 11,570 | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 7   | 88,487 | 7   | 72,900 | 7   | 57,314 | 7   | 42,229 | 7   | 26,871 | 7   | 11,244 | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 88,162 | 1/4 | 72,575 | 1/4 | 56,989 | 1/4 | 41,919 | 1/4 | 26,546 | 1/4 | 10,919 | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 87,837 | 1/2 | 72,250 | 1/2 | 56,665 | 1/2 | 41,610 | 1/2 | 26,220 | 1/2 | 10,593 | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 87,513 | 3/4 | 71,926 | 3/4 | 56,340 | 3/4 | 41,301 | 3/4 | 25,895 | 3/4 | 10,268 | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 8   | 87,188 | 8   | 71,601 | 8   | 56,015 | 8   | 40,992 | 8   | 25,569 | 8   | 9,942  | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 86,863 | 1/4 | 71,276 | 1/4 | 55,690 | 1/4 | 40,682 | 1/4 | 25,244 | 1/4 | 9,616  | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 86,539 | 1/2 | 70,952 | 1/2 | 55,366 | 1/2 | 40,373 | 1/2 | 24,918 | 1/2 | 9,291  | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 86,214 | 3/4 | 70,627 | 3/4 | 55,041 | 3/4 | 40,064 | 3/4 | 24,593 | 3/4 | 8,965  | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 9   | 85,889 | 9   | 70,302 | 9   | 54,716 | 9   | 39,755 | 9   | 24,267 | 9   | 8,640  | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 85,564 | 1/4 | 69,977 | 1/4 | 54,392 | 1/4 | 39,446 | 1/4 | 23,941 | 1/4 | 8,314  | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 85,240 | 1/2 | 69,653 | 1/2 | 54,067 | 1/2 | 39,137 | 1/2 | 23,616 | 1/2 | 7,989  | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 84,915 | 3/4 | 69,328 | 3/4 | 53,742 | 3/4 | 38,827 | 3/4 | 23,290 | 3/4 | 7,663  | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 10  | 84,590 | 10  | 69,003 | 10  | 53,419 | 10  | 38,517 | 10  | 22,965 | 10  | 7,337  | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 84,265 | 1/4 | 68,679 | 1/4 | 53,096 | 1/4 | 38,206 | 1/4 | 22,639 | 1/4 | 7,012  | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 83,941 | 1/2 | 68,354 | 1/2 | 52,773 | 1/2 | 37,895 | 1/2 | 22,314 | 1/2 | 6,686  | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 83,616 | 3/4 | 68,029 | 3/4 | 52,450 | 3/4 | 37,585 | 3/4 | 21,988 | 3/4 | 6,361  | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 |        |
| 11  | 83,291 | 11  | 67,705 | 11  | 52,139 | 11  | 37,261 | 11  | 21,662 | 11  | 6,035  | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 82,967 | 1/4 | 67,380 | 1/4 | 51,829 | 1/4 | 36,937 | 1/4 | 21,337 | 1/4 | 5,710  | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 |        |
| 1/2 | 82,642 | 1/2 | 67,055 | 1/2 | 51,518 | 1/2 | 36,613 | 1/2 | 21,011 | 1/2 | 5,384  | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 |        |
| 3/4 | 82,317 | 3/4 | 66,731 | 3/4 | 51,207 | 3/4 | 36,289 | 3/4 | 20,686 | 3/4 | 5,059  | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/07/2013 CL - SW  
CALCULATED: 01/07/2013 CL  
PRINTED: 01/07/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2013

PRECISION MEASUREMENT  
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