



# BARGE "CBC 1400"

## INNAGE TRIM TABLE

|                 | 1 FT.      |              | 2 FT.      |              | 3 FT.      |              | 4 FT.      |              | 5 FT.      |              | 6 FT.      |              |
|-----------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
|                 | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> |
| <b>1 CENTER</b> | 00-1/4     | - 00-1/4     | 00-1/2     | - 00-1/2     | 00-7/8     | - 00-7/8     | 01-1/8     | - 01-1/8     | 01-3/8     | - 01-3/8     | 01-5/8     | - 01-5/8     |
| <b>2 CENTER</b> | - 00-1/4   | 00-1/4       | - 00-5/8   | 00-5/8       | - 00-7/8   | 00-7/8       | - 01-1/4   | 01-1/4       | - 01-1/2   | 01-1/2       | - 01-3/4   | 01-3/4       |
| <b>3 CENTER</b> | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       | - 00-1/4   | 00-1/4       | - 00-1/4   | 00-1/4       | - 00-3/8   | 00-3/8       | - 00-1/2   | 00-1/2       |

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 178'-06"

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# BARGE "CBC 1400"

# 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

| 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   | 39    | 0   | 8,707  | 0   | 20,321 | 0   | 31,752 | 0   | 43,223 | 0   | 54,809 | 0   | 66,396 | 0   | 77,958 | 0   | 89,523  | 0   | 101,114 |
| 1/4 | 60    | 1/4 | 8,949  | 1/4 | 20,563 | 1/4 | 31,986 | 1/4 | 43,465 | 1/4 | 55,051 | 1/4 | 66,637 | 1/4 | 78,198 | 1/4 | 89,765  | 1/4 | 101,355 |
| 1/2 | 80    | 1/2 | 9,191  | 1/2 | 20,805 | 1/2 | 32,221 | 1/2 | 43,706 | 1/2 | 55,292 | 1/2 | 66,878 | 1/2 | 78,438 | 1/2 | 90,006  | 1/2 | 101,597 |
| 3/4 | 100   | 3/4 | 9,433  | 3/4 | 21,047 | 3/4 | 32,455 | 3/4 | 43,948 | 3/4 | 55,534 | 3/4 | 67,120 | 3/4 | 78,678 | 3/4 | 90,247  | 3/4 | 101,838 |
| 1   | 120   | 1   | 9,675  | 1   | 21,289 | 1   | 32,689 | 1   | 44,189 | 1   | 55,775 | 1   | 67,361 | 1   | 78,918 | 1   | 90,489  | 1   | 102,079 |
| 1/4 | 181   | 1/4 | 9,917  | 1/4 | 21,531 | 1/4 | 32,923 | 1/4 | 44,430 | 1/4 | 56,016 | 1/4 | 67,602 | 1/4 | 79,158 | 1/4 | 90,730  | 1/4 | 102,321 |
| 1/2 | 241   | 1/2 | 10,159 | 1/2 | 21,773 | 1/2 | 33,157 | 1/2 | 44,672 | 1/2 | 56,258 | 1/2 | 67,844 | 1/2 | 79,398 | 1/2 | 90,972  | 1/2 | 102,562 |
| 3/4 | 301   | 3/4 | 10,401 | 3/4 | 22,015 | 3/4 | 33,392 | 3/4 | 44,913 | 3/4 | 56,499 | 3/4 | 68,085 | 3/4 | 79,639 | 3/4 | 91,213  | 3/4 | 102,804 |
| 2   | 362   | 2   | 10,643 | 2   | 22,257 | 2   | 33,626 | 2   | 45,154 | 2   | 56,740 | 2   | 68,327 | 2   | 79,879 | 2   | 91,455  | 2   | 103,045 |
| 1/4 | 463   | 1/4 | 10,885 | 1/4 | 22,499 | 1/4 | 33,860 | 1/4 | 45,396 | 1/4 | 56,982 | 1/4 | 68,568 | 1/4 | 80,119 | 1/4 | 91,696  | 1/4 | 103,287 |
| 1/2 | 564   | 1/2 | 11,127 | 1/2 | 22,741 | 1/2 | 34,094 | 1/2 | 45,637 | 1/2 | 57,223 | 1/2 | 68,809 | 1/2 | 80,359 | 1/2 | 91,938  | 1/2 | 103,528 |
| 3/4 | 664   | 3/4 | 11,369 | 3/4 | 22,983 | 3/4 | 34,328 | 3/4 | 45,879 | 3/4 | 57,465 | 3/4 | 69,051 | 3/4 | 80,599 | 3/4 | 92,179  | 3/4 | 103,770 |
| 3   | 765   | 3   | 11,611 | 3   | 23,225 | 3   | 34,563 | 3   | 46,120 | 3   | 57,706 | 3   | 69,292 | 3   | 80,839 | 3   | 92,421  | 3   | 104,011 |
| 1/4 | 906   | 1/4 | 11,853 | 1/4 | 23,467 | 1/4 | 34,797 | 1/4 | 46,361 | 1/4 | 57,947 | 1/4 | 69,533 | 1/4 | 81,079 | 1/4 | 92,662  | 1/4 | 104,253 |
| 1/2 | 1,047 | 1/2 | 12,095 | 1/2 | 23,709 | 1/2 | 35,031 | 1/2 | 46,603 | 1/2 | 58,189 | 1/2 | 69,775 | 1/2 | 81,319 | 1/2 | 92,904  | 1/2 | 104,494 |
| 3/4 | 1,189 | 3/4 | 12,337 | 3/4 | 23,951 | 3/4 | 35,265 | 3/4 | 46,844 | 3/4 | 58,430 | 3/4 | 70,016 | 3/4 | 81,559 | 3/4 | 93,145  | 3/4 | 104,736 |
| 4   | 1,330 | 4   | 12,579 | 4   | 24,193 | 4   | 35,499 | 4   | 47,085 | 4   | 58,671 | 4   | 70,258 | 4   | 81,799 | 4   | 93,387  | 4   | 104,977 |
| 1/4 | 1,511 | 1/4 | 12,820 | 1/4 | 24,434 | 1/4 | 35,741 | 1/4 | 47,327 | 1/4 | 58,913 | 1/4 | 70,499 | 1/4 | 82,039 | 1/4 | 93,628  | 1/4 | 105,219 |
| 1/2 | 1,693 | 1/2 | 13,062 | 1/2 | 24,676 | 1/2 | 35,982 | 1/2 | 47,568 | 1/2 | 59,154 | 1/2 | 70,740 | 1/2 | 82,280 | 1/2 | 93,869  | 1/2 | 105,460 |
| 3/4 | 1,874 | 3/4 | 13,304 | 3/4 | 24,918 | 3/4 | 36,224 | 3/4 | 47,810 | 3/4 | 59,396 | 3/4 | 70,982 | 3/4 | 82,521 | 3/4 | 94,111  | 3/4 | 105,701 |
| 5   | 2,055 | 5   | 13,546 | 5   | 25,160 | 5   | 36,465 | 5   | 48,051 | 5   | 59,637 | 5   | 71,223 | 5   | 82,762 | 5   | 94,352  | 5   | 105,943 |
| 1/4 | 2,276 | 1/4 | 13,788 | 1/4 | 25,402 | 1/4 | 36,706 | 1/4 | 48,292 | 1/4 | 59,878 | 1/4 | 71,464 | 1/4 | 83,003 | 1/4 | 94,594  | 1/4 | 106,184 |
| 1/2 | 2,498 | 1/2 | 14,030 | 1/2 | 25,644 | 1/2 | 36,948 | 1/2 | 48,534 | 1/2 | 60,120 | 1/2 | 71,706 | 1/2 | 83,245 | 1/2 | 94,835  | 1/2 | 106,426 |
| 3/4 | 2,719 | 3/4 | 14,272 | 3/4 | 25,886 | 3/4 | 37,189 | 3/4 | 48,775 | 3/4 | 60,361 | 3/4 | 71,947 | 3/4 | 83,486 | 3/4 | 95,077  | 3/4 | 106,667 |
| 6   | 2,940 | 6   | 14,514 | 6   | 26,128 | 6   | 37,430 | 6   | 49,016 | 6   | 60,602 | 6   | 72,189 | 6   | 83,728 | 6   | 95,318  | 6   | 106,909 |
| 1/4 | 3,177 | 1/4 | 14,756 | 1/4 | 26,363 | 1/4 | 37,672 | 1/4 | 49,258 | 1/4 | 60,844 | 1/4 | 72,429 | 1/4 | 83,969 | 1/4 | 95,560  | 1/4 | 107,150 |
| 1/2 | 3,414 | 1/2 | 14,998 | 1/2 | 26,597 | 1/2 | 37,913 | 1/2 | 49,499 | 1/2 | 61,085 | 1/2 | 72,670 | 1/2 | 84,211 | 1/2 | 95,801  | 1/2 | 107,392 |
| 3/4 | 3,651 | 3/4 | 15,240 | 3/4 | 26,832 | 3/4 | 38,155 | 3/4 | 49,741 | 3/4 | 61,327 | 3/4 | 72,911 | 3/4 | 84,452 | 3/4 | 96,043  | 3/4 | 107,633 |
| 7   | 3,888 | 7   | 15,482 | 7   | 27,067 | 7   | 38,396 | 7   | 49,982 | 7   | 61,568 | 7   | 73,152 | 7   | 84,693 | 7   | 96,284  | 7   | 107,875 |
| 1/4 | 4,128 | 1/4 | 15,724 | 1/4 | 27,301 | 1/4 | 38,637 | 1/4 | 50,223 | 1/4 | 61,809 | 1/4 | 73,392 | 1/4 | 84,935 | 1/4 | 96,526  | 1/4 | 108,116 |
| 1/2 | 4,367 | 1/2 | 15,966 | 1/2 | 27,536 | 1/2 | 38,879 | 1/2 | 50,465 | 1/2 | 62,051 | 1/2 | 73,633 | 1/2 | 85,176 | 1/2 | 96,767  | 1/2 | 108,358 |
| 3/4 | 4,606 | 3/4 | 16,208 | 3/4 | 27,770 | 3/4 | 39,120 | 3/4 | 50,706 | 3/4 | 62,292 | 3/4 | 73,874 | 3/4 | 85,418 | 3/4 | 97,009  | 3/4 | 108,599 |
| 8   | 4,845 | 8   | 16,450 | 8   | 28,005 | 8   | 39,361 | 8   | 50,947 | 8   | 62,534 | 8   | 74,115 | 8   | 85,659 | 8   | 97,250  | 8   | 108,841 |
| 1/4 | 5,086 | 1/4 | 16,692 | 1/4 | 28,239 | 1/4 | 39,603 | 1/4 | 51,189 | 1/4 | 62,775 | 1/4 | 74,356 | 1/4 | 85,901 | 1/4 | 97,492  | 1/4 | 109,082 |
| 1/2 | 5,326 | 1/2 | 16,934 | 1/2 | 28,473 | 1/2 | 39,844 | 1/2 | 51,430 | 1/2 | 63,016 | 1/2 | 74,596 | 1/2 | 86,142 | 1/2 | 97,733  | 1/2 | 109,324 |
| 3/4 | 5,567 | 3/4 | 17,176 | 3/4 | 28,708 | 3/4 | 40,086 | 3/4 | 51,672 | 3/4 | 63,258 | 3/4 | 74,837 | 3/4 | 86,384 | 3/4 | 97,974  | 3/4 | 109,565 |
| 9   | 5,807 | 9   | 17,418 | 9   | 28,942 | 9   | 40,327 | 9   | 51,913 | 9   | 63,499 | 9   | 75,078 | 9   | 86,625 | 9   | 98,216  | 9   | 109,806 |
| 1/4 | 6,049 | 1/4 | 17,660 | 1/4 | 29,176 | 1/4 | 40,568 | 1/4 | 52,154 | 1/4 | 63,740 | 1/4 | 75,318 | 1/4 | 86,867 | 1/4 | 98,457  | 1/4 | 110,048 |
| 1/2 | 6,290 | 1/2 | 17,902 | 1/2 | 29,410 | 1/2 | 40,810 | 1/2 | 52,396 | 1/2 | 63,982 | 1/2 | 75,558 | 1/2 | 87,108 | 1/2 | 98,699  | 1/2 | 110,289 |
| 3/4 | 6,531 | 3/4 | 18,144 | 3/4 | 29,644 | 3/4 | 41,051 | 3/4 | 52,637 | 3/4 | 64,223 | 3/4 | 75,798 | 3/4 | 87,350 | 3/4 | 98,940  | 3/4 | 110,531 |
| 10  | 6,772 | 10  | 18,386 | 10  | 29,879 | 10  | 41,292 | 10  | 52,878 | 10  | 64,465 | 10  | 76,038 | 10  | 87,591 | 10  | 99,182  | 10  | 110,772 |
| 1/4 | 7,014 | 1/4 | 18,627 | 1/4 | 30,113 | 1/4 | 41,534 | 1/4 | 53,120 | 1/4 | 64,706 | 1/4 | 76,278 | 1/4 | 87,833 | 1/4 | 99,423  | 1/4 | 111,014 |
| 1/2 | 7,256 | 1/2 | 18,869 | 1/2 | 30,347 | 1/2 | 41,775 | 1/2 | 53,361 | 1/2 | 64,947 | 1/2 | 76,518 | 1/2 | 88,074 | 1/2 | 99,665  | 1/2 | 111,255 |
| 3/4 | 7,498 | 3/4 | 19,111 | 3/4 | 30,581 | 3/4 | 42,017 | 3/4 | 53,603 | 3/4 | 65,189 | 3/4 | 76,758 | 3/4 | 88,316 | 3/4 | 99,906  | 3/4 | 111,497 |
| 11  | 7,739 | 11  | 19,353 | 11  | 30,815 | 11  | 42,258 | 11  | 53,844 | 11  | 65,430 | 11  | 76,998 | 11  | 88,557 | 11  | 100,148 | 11  | 111,738 |
| 1/4 | 7,981 | 1/4 | 19,595 | 1/4 | 31,050 | 1/4 | 42,499 | 1/4 | 54,085 | 1/4 | 65,671 | 1/4 | 77,238 | 1/4 | 88,799 | 1/4 | 100,389 | 1/4 | 111,980 |
| 1/2 | 8,223 | 1/2 | 19,837 | 1/2 | 31,284 | 1/2 | 42,741 | 1/2 | 54,327 | 1/2 | 65,913 | 1/2 | 77,478 | 1/2 | 89,040 | 1/2 | 100,631 | 1/2 | 112,221 |
| 3/4 | 8,465 | 3/4 | 20,079 | 3/4 | 31,518 | 3/4 | 42,982 | 3/4 | 54,568 | 3/4 | 66,154 | 3/4 | 77,718 | 3/4 | 89,282 | 3/4 | 100,872 | 3/4 | 112,463 |

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 INNAGE GAUGES TAKEN TO THREADS ON "MMC" VALVE  
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 24'-09" FORWARD OF AFT BULKHEAD

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# BARGE "CBC 1400"

## 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

| 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   | 112,704 | 0   | 122,243 | 0   | 130,366 | 0   | 138,489 | 0   | 146,612 | 0   |        | 0  |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 112,945 | 1/4 | 122,412 | 1/4 | 130,535 | 1/4 | 138,659 | 1/4 | 146,782 | 1/4 |        |    |        |     | 1/4    |     | 1/4    |     | 1/4    |
| 1/2 | 113,186 | 1/2 | 122,581 | 1/2 | 130,705 | 1/2 | 138,828 | 1/2 | 146,951 | 1/2 |        |    |        |     | 1/2    |     | 1/2    |     | 1/2    |
| 3/4 | 113,427 | 3/4 | 122,751 | 3/4 | 130,874 | 3/4 | 138,997 | 3/4 | 147,120 | 3/4 |        |    |        |     | 3/4    |     | 3/4    |     | 3/4    |
| 1   | 113,668 | 1   | 122,920 | 1   | 131,043 | 1   | 139,166 | 1   | 147,289 | 1   |        |    |        |     | 1      |     | 1      |     | 1      |
| 1/4 | 113,909 | 1/4 | 123,089 | 1/4 | 131,212 | 1/4 | 139,335 | 1/4 | 147,459 | 1/4 |        |    |        |     | 1/4    |     | 1/4    |     | 1/4    |
| 1/2 | 114,150 | 1/2 | 123,258 | 1/2 | 131,382 | 1/2 | 139,505 | 1/2 | 147,628 | 1/2 |        |    |        |     | 1/2    |     | 1/2    |     | 1/2    |
| 3/4 | 114,390 | 3/4 | 123,428 | 3/4 | 131,551 | 3/4 | 139,674 | 3/4 | 147,797 | 3/4 |        |    |        |     | 3/4    |     | 3/4    |     | 3/4    |
| 2   | 114,631 | 2   | 123,597 | 2   | 131,720 | 2   | 139,843 | 2   | 147,966 | 2   |        |    |        |     | 2      |     | 2      |     | 2      |
| 1/4 | 114,872 | 1/4 | 123,766 | 1/4 | 131,889 | 1/4 | 140,012 | 1/4 | 148,136 | 1/4 |        |    |        |     | 1/4    |     | 1/4    |     | 1/4    |
| 1/2 | 115,113 | 1/2 | 123,935 | 1/2 | 132,058 | 1/2 | 140,182 | 1/2 | 148,305 | 1/2 |        |    |        |     | 1/2    |     | 1/2    |     | 1/2    |
| 3/4 | 115,354 | 3/4 | 124,105 | 3/4 | 132,228 | 3/4 | 140,351 | 3/4 | 148,474 | 3/4 |        |    |        |     | 3/4    |     | 3/4    |     | 3/4    |
| 3   | 115,595 | 3   | 124,274 | 3   | 132,397 | 3   | 140,520 | 3   | 148,643 | 3   |        |    |        |     | 3      |     | 3      |     | 3      |
| 1/4 | 115,836 | 1/4 | 124,443 | 1/4 | 132,566 | 1/4 | 140,689 | 1/4 | 148,865 | 1/4 |        |    |        |     | 1/4    |     | 1/4    |     | 1/4    |
| 1/2 | 116,077 | 1/2 | 124,612 | 1/2 | 132,735 | 1/2 | 140,859 | 1/2 | 149,087 | 1/2 |        |    |        |     | 1/2    |     | 1/2    |     | 1/2    |
| 3/4 | 116,318 | 3/4 | 124,781 | 3/4 | 132,905 | 3/4 | 141,028 | 3/4 | 149,309 | 3/4 |        |    |        |     | 3/4    |     | 3/4    |     | 3/4    |
| 4   | 116,559 | 4   | 124,951 | 4   | 133,074 | 4   | 141,197 | 4   | 149,530 | 4   |        |    |        |     | 4      |     | 4      |     | 4      |
| 1/4 | 116,800 | 1/4 | 125,120 | 1/4 | 133,243 | 1/4 | 141,366 | 1/4 | 149,712 | 1/4 |        |    |        |     | 1/4    |     | 1/4    |     | 1/4    |
| 1/2 | 117,040 | 1/2 | 125,289 | 1/2 | 133,412 | 1/2 | 141,535 | 1/2 | 149,893 | 1/2 |        |    |        |     | 1/2    |     | 1/2    |     | 1/2    |
| 3/4 | 117,281 | 3/4 | 125,458 | 3/4 | 133,582 | 3/4 | 141,705 | 3/4 | 150,075 | 3/4 |        |    |        |     | 3/4    |     | 3/4    |     | 3/4    |
| 5   | 117,522 | 5   | 125,628 | 5   | 133,751 | 5   | 141,874 | 5   | 150,256 | 5   |        |    |        |     | 5      |     | 5      |     | 5      |
| 1/4 | 117,690 | 1/4 | 125,797 | 1/4 | 133,920 | 1/4 | 142,043 | 1/4 | 150,397 | 1/4 |        |    |        |     | 1/4    |     | 1/4    |     | 1/4    |
| 1/2 | 117,859 | 1/2 | 125,966 | 1/2 | 134,089 | 1/2 | 142,212 | 1/2 | 150,539 | 1/2 |        |    |        |     | 1/2    |     | 1/2    |     | 1/2    |
| 3/4 | 118,027 | 3/4 | 126,135 | 3/4 | 134,258 | 3/4 | 142,382 | 3/4 | 150,680 | 3/4 |        |    |        |     | 3/4    |     | 3/4    |     | 3/4    |
| 6   | 118,195 | 6   | 126,305 | 6   | 134,428 | 6   | 142,551 | 6   | 150,821 | 6   |        |    |        |     | 6      |     | 6      |     | 6      |
| 1/4 | 118,364 | 1/4 | 126,474 | 1/4 | 134,597 | 1/4 | 142,720 | 1/4 | 150,922 | 1/4 |        |    |        |     | 1/4    |     | 1/4    |     | 1/4    |
| 1/2 | 118,532 | 1/2 | 126,643 | 1/2 | 134,766 | 1/2 | 142,889 | 1/2 | 151,023 | 1/2 |        |    |        |     | 1/2    |     | 1/2    |     | 1/2    |
| 3/4 | 118,701 | 3/4 | 126,812 | 3/4 | 134,935 | 3/4 | 143,059 | 3/4 | 151,123 | 3/4 |        |    |        |     | 3/4    |     | 3/4    |     | 3/4    |
| 7   | 118,870 | 7   | 126,981 | 7   | 135,105 | 7   | 143,228 | 7   | 151,224 | 7   |        |    |        |     | 7      |     | 7      |     | 7      |
| 1/4 | 119,038 | 1/4 | 127,151 | 1/4 | 135,274 | 1/4 | 143,397 | 1/4 | 151,285 | 1/4 |        |    |        |     | 1/4    |     | 1/4    |     | 1/4    |
| 1/2 | 119,207 | 1/2 | 127,320 | 1/2 | 135,443 | 1/2 | 143,566 | 1/2 | 151,345 | 1/2 |        |    |        |     | 1/2    |     | 1/2    |     | 1/2    |
| 3/4 | 119,376 | 3/4 | 127,489 | 3/4 | 135,612 | 3/4 | 143,735 | 3/4 | 151,406 | 3/4 |        |    |        |     | 3/4    |     | 3/4    |     | 3/4    |
| 8   | 119,544 | 8   | 127,658 | 8   | 135,782 | 8   | 143,905 | 8   | 151,466 | 8   |        |    |        |     | 8      |     | 8      |     | 8      |
| 1/4 | 119,713 | 1/4 | 127,828 | 1/4 | 135,951 | 1/4 | 144,074 | 1/4 | 151,486 | 1/4 |        |    |        |     | 1/4    |     | 1/4    |     | 1/4    |
| 1/2 | 119,882 | 1/2 | 127,997 | 1/2 | 136,120 | 1/2 | 144,243 | 1/2 | 151,506 | 1/2 |        |    |        |     | 1/2    |     | 1/2    |     | 1/2    |
| 3/4 | 120,050 | 3/4 | 128,166 | 3/4 | 136,289 | 3/4 | 144,412 | 3/4 |         | 3/4 |        |    |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 120,219 | 9   | 128,335 | 9   | 136,458 | 9   | 144,582 | 9   |         | 9   |        |    |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 120,388 | 1/4 | 128,505 | 1/4 | 136,628 | 1/4 | 144,751 | 1/4 |         | 1/4 |        |    |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 120,556 | 1/2 | 128,674 | 1/2 | 136,797 | 1/2 | 144,920 | 1/2 |         | 1/2 |        |    |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 120,725 | 3/4 | 128,843 | 3/4 | 136,966 | 3/4 | 145,089 | 3/4 |         | 3/4 |        |    |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 120,894 | 10  | 129,012 | 10  | 137,135 | 10  | 145,259 | 10  |         | 10  |        |    |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 121,062 | 1/4 | 129,182 | 1/4 | 137,305 | 1/4 | 145,428 | 1/4 |         | 1/4 |        |    |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 121,231 | 1/2 | 129,351 | 1/2 | 137,474 | 1/2 | 145,597 | 1/2 |         | 1/2 |        |    |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 121,400 | 3/4 | 129,520 | 3/4 | 137,643 | 3/4 | 145,766 | 3/4 |         | 3/4 |        |    |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 121,568 | 11  | 129,689 | 11  | 137,812 | 11  | 145,936 | 11  |         | 11  |        |    |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 121,737 | 1/4 | 129,858 | 1/4 | 137,982 | 1/4 | 146,105 | 1/4 |         | 1/4 |        |    |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 121,906 | 1/2 | 130,028 | 1/2 | 138,151 | 1/2 | 146,274 | 1/2 |         | 1/2 |        |    |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 122,074 | 3/4 | 130,197 | 3/4 | 138,320 | 3/4 | 146,443 | 3/4 |         | 3/4 |        |    |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/20/2018 CL  
CALCULATED: 02/20/2018 CL  
PRINTED: 02/20/2018 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2018

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



# BARGE "CBC 1400"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 3/4"

| IN  | 0 FT. | IN  | 1 FT.  | IN  | 2 FT.  | IN  | 3 FT.  | IN  | 4 FT.  | IN  | 5 FT.  | IN  | 6 FT.  | IN  | 7 FT.   | IN  | 8 FT.   | IN  | 9 FT.   |
|-----|-------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|---------|-----|---------|-----|---------|
| 0   | 39    | 0   | 10,058 | 0   | 23,482 | 0   | 36,743 | 0   | 50,005 | 0   | 63,429 | 0   | 76,853 | 0   | 90,277  | 0   | 103,701 | 0   | 117,126 |
| 1/4 | 63    | 1/4 | 10,338 | 1/4 | 23,762 | 1/4 | 37,015 | 1/4 | 50,284 | 1/4 | 63,708 | 1/4 | 77,133 | 1/4 | 90,557  | 1/4 | 103,981 | 1/4 | 117,405 |
| 1/2 | 86    | 1/2 | 10,618 | 1/2 | 24,041 | 1/2 | 37,286 | 1/2 | 50,564 | 1/2 | 63,988 | 1/2 | 77,412 | 1/2 | 90,836  | 1/2 | 104,261 | 1/2 | 117,685 |
| 3/4 | 109   | 3/4 | 10,897 | 3/4 | 24,321 | 3/4 | 37,557 | 3/4 | 50,844 | 3/4 | 64,268 | 3/4 | 77,692 | 3/4 | 91,116  | 3/4 | 104,540 | 3/4 | 117,965 |
| 1   | 133   | 1   | 11,177 | 1   | 24,601 | 1   | 37,829 | 1   | 51,123 | 1   | 64,547 | 1   | 77,972 | 1   | 91,396  | 1   | 104,820 | 1   | 118,244 |
| 1/4 | 202   | 1/4 | 11,457 | 1/4 | 24,880 | 1/4 | 38,100 | 1/4 | 51,403 | 1/4 | 64,827 | 1/4 | 78,251 | 1/4 | 91,675  | 1/4 | 105,100 | 1/4 | 118,524 |
| 1/2 | 272   | 1/2 | 11,736 | 1/2 | 25,160 | 1/2 | 38,372 | 1/2 | 51,683 | 1/2 | 65,107 | 1/2 | 78,531 | 1/2 | 91,955  | 1/2 | 105,379 | 1/2 | 118,804 |
| 3/4 | 342   | 3/4 | 12,016 | 3/4 | 25,440 | 3/4 | 38,643 | 3/4 | 51,962 | 3/4 | 65,386 | 3/4 | 78,811 | 3/4 | 92,235  | 3/4 | 105,659 | 3/4 | 119,083 |
| 2   | 412   | 2   | 12,296 | 2   | 25,719 | 2   | 38,915 | 2   | 52,242 | 2   | 65,666 | 2   | 79,090 | 2   | 92,515  | 2   | 105,939 | 2   | 119,363 |
| 1/4 | 529   | 1/4 | 12,575 | 1/4 | 25,999 | 1/4 | 39,186 | 1/4 | 52,522 | 1/4 | 65,946 | 1/4 | 79,370 | 1/4 | 92,794  | 1/4 | 106,218 | 1/4 | 119,643 |
| 1/2 | 645   | 1/2 | 12,855 | 1/2 | 26,279 | 1/2 | 39,458 | 1/2 | 52,801 | 1/2 | 66,225 | 1/2 | 79,650 | 1/2 | 93,074  | 1/2 | 106,498 | 1/2 | 119,922 |
| 3/4 | 762   | 3/4 | 13,135 | 3/4 | 26,558 | 3/4 | 39,729 | 3/4 | 53,081 | 3/4 | 66,505 | 3/4 | 79,929 | 3/4 | 93,354  | 3/4 | 106,778 | 3/4 | 120,202 |
| 3   | 878   | 3   | 13,414 | 3   | 26,838 | 3   | 40,001 | 3   | 53,361 | 3   | 66,785 | 3   | 80,209 | 3   | 93,633  | 3   | 107,057 | 3   | 120,482 |
| 1/4 | 1,041 | 1/4 | 13,694 | 1/4 | 27,118 | 1/4 | 40,272 | 1/4 | 53,640 | 1/4 | 67,064 | 1/4 | 80,489 | 1/4 | 93,913  | 1/4 | 107,337 | 1/4 | 120,761 |
| 1/2 | 1,205 | 1/2 | 13,974 | 1/2 | 27,397 | 1/2 | 40,544 | 1/2 | 53,920 | 1/2 | 67,344 | 1/2 | 80,768 | 1/2 | 94,193  | 1/2 | 107,617 | 1/2 | 121,041 |
| 3/4 | 1,368 | 3/4 | 14,253 | 3/4 | 27,677 | 3/4 | 40,815 | 3/4 | 54,200 | 3/4 | 67,624 | 3/4 | 81,048 | 3/4 | 94,472  | 3/4 | 107,896 | 3/4 | 121,321 |
| 4   | 1,531 | 4   | 14,533 | 4   | 27,957 | 4   | 41,086 | 4   | 54,479 | 4   | 67,903 | 4   | 81,328 | 4   | 94,752  | 4   | 108,176 | 4   | 121,600 |
| 1/4 | 1,741 | 1/4 | 14,812 | 1/4 | 28,236 | 1/4 | 41,358 | 1/4 | 54,759 | 1/4 | 68,183 | 1/4 | 81,607 | 1/4 | 95,032  | 1/4 | 108,456 | 1/4 | 121,880 |
| 1/2 | 1,950 | 1/2 | 15,092 | 1/2 | 28,516 | 1/2 | 41,630 | 1/2 | 55,039 | 1/2 | 68,463 | 1/2 | 81,887 | 1/2 | 95,311  | 1/2 | 108,735 | 1/2 | 122,160 |
| 3/4 | 2,160 | 3/4 | 15,372 | 3/4 | 28,796 | 3/4 | 41,902 | 3/4 | 55,318 | 3/4 | 68,742 | 3/4 | 82,167 | 3/4 | 95,591  | 3/4 | 109,015 | 3/4 | 122,439 |
| 5   | 2,370 | 5   | 15,651 | 5   | 29,075 | 5   | 42,174 | 5   | 55,598 | 5   | 69,022 | 5   | 82,446 | 5   | 95,871  | 5   | 109,295 | 5   | 122,719 |
| 1/4 | 2,625 | 1/4 | 15,931 | 1/4 | 29,355 | 1/4 | 42,453 | 1/4 | 55,878 | 1/4 | 69,302 | 1/4 | 82,726 | 1/4 | 96,150  | 1/4 | 109,574 | 1/4 | 122,999 |
| 1/2 | 2,881 | 1/2 | 16,211 | 1/2 | 29,635 | 1/2 | 42,733 | 1/2 | 56,157 | 1/2 | 69,581 | 1/2 | 83,006 | 1/2 | 96,430  | 1/2 | 109,854 | 1/2 | 123,278 |
| 3/4 | 3,137 | 3/4 | 16,490 | 3/4 | 29,914 | 3/4 | 43,013 | 3/4 | 56,437 | 3/4 | 69,861 | 3/4 | 83,285 | 3/4 | 96,710  | 3/4 | 110,134 | 3/4 | 123,558 |
| 6   | 3,392 | 6   | 16,770 | 6   | 30,194 | 6   | 43,292 | 6   | 56,717 | 6   | 70,141 | 6   | 83,565 | 6   | 96,989  | 6   | 110,413 | 6   | 123,838 |
| 1/4 | 3,666 | 1/4 | 17,050 | 1/4 | 30,474 | 1/4 | 43,572 | 1/4 | 56,996 | 1/4 | 70,421 | 1/4 | 83,845 | 1/4 | 97,269  | 1/4 | 110,693 | 1/4 | 124,117 |
| 1/2 | 3,940 | 1/2 | 17,329 | 1/2 | 30,753 | 1/2 | 43,852 | 1/2 | 57,276 | 1/2 | 70,700 | 1/2 | 84,124 | 1/2 | 97,549  | 1/2 | 110,973 | 1/2 | 124,397 |
| 3/4 | 4,215 | 3/4 | 17,609 | 3/4 | 31,033 | 3/4 | 44,131 | 3/4 | 57,556 | 3/4 | 70,980 | 3/4 | 84,404 | 3/4 | 97,828  | 3/4 | 111,252 | 3/4 | 124,677 |
| 7   | 4,489 | 7   | 17,889 | 7   | 31,313 | 7   | 44,411 | 7   | 57,835 | 7   | 71,260 | 7   | 84,684 | 7   | 98,108  | 7   | 111,532 | 7   | 124,956 |
| 1/4 | 4,765 | 1/4 | 18,168 | 1/4 | 31,584 | 1/4 | 44,691 | 1/4 | 58,115 | 1/4 | 71,539 | 1/4 | 84,963 | 1/4 | 98,388  | 1/4 | 111,812 | 1/4 | 125,236 |
| 1/2 | 5,042 | 1/2 | 18,448 | 1/2 | 31,856 | 1/2 | 44,970 | 1/2 | 58,395 | 1/2 | 71,819 | 1/2 | 85,243 | 1/2 | 98,667  | 1/2 | 112,091 | 1/2 | 125,516 |
| 3/4 | 5,318 | 3/4 | 18,728 | 3/4 | 32,128 | 3/4 | 45,250 | 3/4 | 58,674 | 3/4 | 72,099 | 3/4 | 85,523 | 3/4 | 98,947  | 3/4 | 112,371 | 3/4 | 125,795 |
| 8   | 5,595 | 8   | 19,007 | 8   | 32,400 | 8   | 45,530 | 8   | 58,954 | 8   | 72,378 | 8   | 85,802 | 8   | 99,227  | 8   | 112,651 | 8   | 126,075 |
| 1/4 | 5,873 | 1/4 | 19,287 | 1/4 | 32,671 | 1/4 | 45,809 | 1/4 | 59,234 | 1/4 | 72,658 | 1/4 | 86,082 | 1/4 | 99,506  | 1/4 | 112,930 | 1/4 | 126,355 |
| 1/2 | 6,151 | 1/2 | 19,567 | 1/2 | 32,943 | 1/2 | 46,089 | 1/2 | 59,513 | 1/2 | 72,938 | 1/2 | 86,362 | 1/2 | 99,786  | 1/2 | 113,210 | 1/2 | 126,634 |
| 3/4 | 6,429 | 3/4 | 19,846 | 3/4 | 33,214 | 3/4 | 46,369 | 3/4 | 59,793 | 3/4 | 73,217 | 3/4 | 86,641 | 3/4 | 100,066 | 3/4 | 113,490 | 3/4 | 126,914 |
| 9   | 6,707 | 9   | 20,126 | 9   | 33,486 | 9   | 46,648 | 9   | 60,073 | 9   | 73,497 | 9   | 86,921 | 9   | 100,345 | 9   | 113,770 | 9   | 127,194 |
| 1/4 | 6,985 | 1/4 | 20,406 | 1/4 | 33,757 | 1/4 | 46,928 | 1/4 | 60,352 | 1/4 | 73,777 | 1/4 | 87,201 | 1/4 | 100,625 | 1/4 | 114,049 | 1/4 | 127,473 |
| 1/2 | 7,264 | 1/2 | 20,685 | 1/2 | 34,029 | 1/2 | 47,208 | 1/2 | 60,632 | 1/2 | 74,056 | 1/2 | 87,480 | 1/2 | 100,905 | 1/2 | 114,329 | 1/2 | 127,753 |
| 3/4 | 7,543 | 3/4 | 20,965 | 3/4 | 34,300 | 3/4 | 47,487 | 3/4 | 60,912 | 3/4 | 74,336 | 3/4 | 87,760 | 3/4 | 101,184 | 3/4 | 114,609 | 3/4 | 128,033 |
| 10  | 7,822 | 10  | 21,245 | 10  | 34,571 | 10  | 47,767 | 10  | 61,191 | 10  | 74,616 | 10  | 88,040 | 10  | 101,464 | 10  | 114,888 | 10  | 128,312 |
| 1/4 | 8,101 | 1/4 | 21,524 | 1/4 | 34,843 | 1/4 | 48,047 | 1/4 | 61,471 | 1/4 | 74,895 | 1/4 | 88,319 | 1/4 | 101,744 | 1/4 | 115,168 | 1/4 | 128,592 |
| 1/2 | 8,381 | 1/2 | 21,804 | 1/2 | 35,114 | 1/2 | 48,326 | 1/2 | 61,751 | 1/2 | 75,175 | 1/2 | 88,599 | 1/2 | 102,023 | 1/2 | 115,448 | 1/2 | 128,872 |
| 3/4 | 8,660 | 3/4 | 22,084 | 3/4 | 35,386 | 3/4 | 48,606 | 3/4 | 62,030 | 3/4 | 75,455 | 3/4 | 88,879 | 3/4 | 102,303 | 3/4 | 115,727 | 3/4 | 129,151 |
| 11  | 8,940 | 11  | 22,363 | 11  | 35,657 | 11  | 48,886 | 11  | 62,310 | 11  | 75,734 | 11  | 89,158 | 11  | 102,583 | 11  | 116,007 | 11  | 129,431 |
| 1/4 | 9,219 | 1/4 | 22,643 | 1/4 | 35,929 | 1/4 | 49,166 | 1/4 | 62,590 | 1/4 | 76,014 | 1/4 | 89,438 | 1/4 | 102,862 | 1/4 | 116,287 | 1/4 | 129,711 |
| 1/2 | 9,499 | 1/2 | 22,923 | 1/2 | 36,200 | 1/2 | 49,445 | 1/2 | 62,869 | 1/2 | 76,294 | 1/2 | 89,718 | 1/2 | 103,142 | 1/2 | 116,566 | 1/2 | 129,990 |
| 3/4 | 9,779 | 3/4 | 23,202 | 3/4 | 36,472 | 3/4 | 49,725 | 3/4 | 63,149 | 3/4 | 76,573 | 3/4 | 89,997 | 3/4 | 103,422 | 3/4 | 116,846 | 3/4 | 130,270 |

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 ON CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD

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



# BARGE "CBC 1400"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 3/4"

| IN  | 10 FT.  | IN  | 11 FT.  | IN  | 12 FT.  | IN  | 13 FT.  | IN  | 14 FT.  | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 130,550 | 0   | 143,974 | 0   | 157,398 | 0   | 170,822 | 0   | 184,247 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 130,829 | 1/4 | 144,254 | 1/4 | 157,678 | 1/4 | 171,102 | 1/4 | 184,526 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 131,109 | 1/2 | 144,533 | 1/2 | 157,958 | 1/2 | 171,382 | 1/2 | 184,806 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 131,389 | 3/4 | 144,813 | 3/4 | 158,237 | 3/4 | 171,661 | 3/4 | 185,086 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 131,668 | 1   | 145,093 | 1   | 158,517 | 1   | 171,941 | 1   | 185,365 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 131,948 | 1/4 | 145,372 | 1/4 | 158,797 | 1/4 | 172,221 | 1/4 | 185,645 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 132,228 | 1/2 | 145,652 | 1/2 | 159,076 | 1/2 | 172,500 | 1/2 | 185,925 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 132,507 | 3/4 | 145,932 | 3/4 | 159,356 | 3/4 | 172,780 | 3/4 | 186,204 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 132,787 | 2   | 146,211 | 2   | 159,636 | 2   | 173,060 | 2   | 186,484 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 133,067 | 1/4 | 146,491 | 1/4 | 159,915 | 1/4 | 173,339 | 1/4 | 186,764 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 133,346 | 1/2 | 146,771 | 1/2 | 160,195 | 1/2 | 173,619 | 1/2 | 187,043 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 133,626 | 3/4 | 147,050 | 3/4 | 160,475 | 3/4 | 173,899 | 3/4 | 187,323 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 133,906 | 3   | 147,330 | 3   | 160,754 | 3   | 174,178 | 3   | 187,603 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 134,185 | 1/4 | 147,610 | 1/4 | 161,034 | 1/4 | 174,458 | 1/4 | 187,859 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 134,465 | 1/2 | 147,889 | 1/2 | 161,314 | 1/2 | 174,738 | 1/2 | 188,115 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 134,745 | 3/4 | 148,169 | 3/4 | 161,593 | 3/4 | 175,017 | 3/4 | 188,372 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 135,025 | 4   | 148,449 | 4   | 161,873 | 4   | 175,297 | 4   | 188,628 | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 135,304 | 1/4 | 148,728 | 1/4 | 162,153 | 1/4 | 175,577 | 1/4 | 188,838 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 135,584 | 1/2 | 149,008 | 1/2 | 162,432 | 1/2 | 175,856 | 1/2 | 189,048 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 135,864 | 3/4 | 149,288 | 3/4 | 162,712 | 3/4 | 176,136 | 3/4 | 189,257 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 136,143 | 5   | 149,567 | 5   | 162,992 | 5   | 176,416 | 5   | 189,467 | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 136,423 | 1/4 | 149,847 | 1/4 | 163,271 | 1/4 | 176,695 | 1/4 | 189,630 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 136,703 | 1/2 | 150,127 | 1/2 | 163,551 | 1/2 | 176,975 | 1/2 | 189,793 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 136,982 | 3/4 | 150,406 | 3/4 | 163,831 | 3/4 | 177,255 | 3/4 | 189,957 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 137,262 | 6   | 150,686 | 6   | 164,110 | 6   | 177,534 | 6   | 190,120 | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 137,542 | 1/4 | 150,966 | 1/4 | 164,390 | 1/4 | 177,814 | 1/4 | 190,236 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 137,821 | 1/2 | 151,245 | 1/2 | 164,670 | 1/2 | 178,094 | 1/2 | 190,353 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 138,101 | 3/4 | 151,525 | 3/4 | 164,949 | 3/4 | 178,374 | 3/4 | 190,469 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 138,381 | 7   | 151,805 | 7   | 165,229 | 7   | 178,653 | 7   | 190,586 | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 138,660 | 1/4 | 152,084 | 1/4 | 165,509 | 1/4 | 178,933 | 1/4 | 190,656 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 138,940 | 1/2 | 152,364 | 1/2 | 165,788 | 1/2 | 179,213 | 1/2 | 190,726 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 139,220 | 3/4 | 152,644 | 3/4 | 166,068 | 3/4 | 179,492 | 3/4 | 190,796 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 139,499 | 8   | 152,923 | 8   | 166,348 | 8   | 179,772 | 8   | 190,865 | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 139,779 | 1/4 | 153,203 | 1/4 | 166,627 | 1/4 | 180,052 | 1/4 | 190,889 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 140,059 | 1/2 | 153,483 | 1/2 | 166,907 | 1/2 | 180,331 | 1/2 | 190,912 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 140,338 | 3/4 | 153,762 | 3/4 | 167,187 | 3/4 | 180,611 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 140,618 | 9   | 154,042 | 9   | 167,466 | 9   | 180,891 | 9   |         | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 140,898 | 1/4 | 154,322 | 1/4 | 167,746 | 1/4 | 181,170 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 141,177 | 1/2 | 154,601 | 1/2 | 168,026 | 1/2 | 181,450 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 141,457 | 3/4 | 154,881 | 3/4 | 168,305 | 3/4 | 181,730 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 141,737 | 10  | 155,161 | 10  | 168,585 | 10  | 182,009 | 10  |         | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 142,016 | 1/4 | 155,440 | 1/4 | 168,865 | 1/4 | 182,289 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 142,296 | 1/2 | 155,720 | 1/2 | 169,144 | 1/2 | 182,569 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 142,576 | 3/4 | 156,000 | 3/4 | 169,424 | 3/4 | 182,848 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 142,855 | 11  | 156,279 | 11  | 169,704 | 11  | 183,128 | 11  |         | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 143,135 | 1/4 | 156,559 | 1/4 | 169,983 | 1/4 | 183,408 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 143,415 | 1/2 | 156,839 | 1/2 | 170,263 | 1/2 | 183,687 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 143,694 | 3/4 | 157,119 | 3/4 | 170,543 | 3/4 | 183,967 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/20/2018 CL  
CALCULATED: 02/20/2018 CL  
PRINTED: 02/20/2018 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2018

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



# BARGE "CBC 1400"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

| 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   | 39    | 0   | 8,963  | 0   | 20,919 | 0   | 32,861 | 0   | 44,805 | 0   | 56,762 | 0   | 68,718 | 0   | 80,675 | 0   | 92,631  | 0   | 104,588 |
| 1/4 | 60    | 1/4 | 9,212  | 1/4 | 21,168 | 1/4 | 33,109 | 1/4 | 45,055 | 1/4 | 57,011 | 1/4 | 68,967 | 1/4 | 80,924 | 1/4 | 92,880  | 1/4 | 104,837 |
| 1/2 | 81    | 1/2 | 9,461  | 1/2 | 21,417 | 1/2 | 33,357 | 1/2 | 45,304 | 1/2 | 57,260 | 1/2 | 69,216 | 1/2 | 81,173 | 1/2 | 93,129  | 1/2 | 105,086 |
| 3/4 | 102   | 3/4 | 9,710  | 3/4 | 21,666 | 3/4 | 33,606 | 3/4 | 45,553 | 3/4 | 57,509 | 3/4 | 69,466 | 3/4 | 81,422 | 3/4 | 93,378  | 3/4 | 105,335 |
| 1   | 122   | 1   | 9,959  | 1   | 21,915 | 1   | 33,854 | 1   | 45,802 | 1   | 57,758 | 1   | 69,715 | 1   | 81,671 | 1   | 93,628  | 1   | 105,584 |
| 1/4 | 185   | 1/4 | 10,208 | 1/4 | 22,164 | 1/4 | 34,102 | 1/4 | 46,051 | 1/4 | 58,007 | 1/4 | 69,964 | 1/4 | 81,920 | 1/4 | 93,877  | 1/4 | 105,833 |
| 1/2 | 247   | 1/2 | 10,457 | 1/2 | 22,413 | 1/2 | 34,351 | 1/2 | 46,300 | 1/2 | 58,256 | 1/2 | 70,213 | 1/2 | 82,169 | 1/2 | 94,126  | 1/2 | 106,082 |
| 3/4 | 309   | 3/4 | 10,706 | 3/4 | 22,662 | 3/4 | 34,599 | 3/4 | 46,549 | 3/4 | 58,506 | 3/4 | 70,462 | 3/4 | 82,418 | 3/4 | 94,375  | 3/4 | 106,331 |
| 2   | 371   | 2   | 10,955 | 2   | 22,911 | 2   | 34,848 | 2   | 46,798 | 2   | 58,755 | 2   | 70,711 | 2   | 82,667 | 2   | 94,624  | 2   | 106,580 |
| 1/4 | 475   | 1/4 | 11,204 | 1/4 | 23,160 | 1/4 | 35,096 | 1/4 | 47,047 | 1/4 | 59,004 | 1/4 | 70,960 | 1/4 | 82,917 | 1/4 | 94,873  | 1/4 | 106,829 |
| 1/2 | 579   | 1/2 | 11,454 | 1/2 | 23,410 | 1/2 | 35,344 | 1/2 | 47,296 | 1/2 | 59,253 | 1/2 | 71,209 | 1/2 | 83,166 | 1/2 | 95,122  | 1/2 | 107,078 |
| 3/4 | 683   | 3/4 | 11,703 | 3/4 | 23,659 | 3/4 | 35,593 | 3/4 | 47,545 | 3/4 | 59,502 | 3/4 | 71,458 | 3/4 | 83,415 | 3/4 | 95,371  | 3/4 | 107,328 |
| 3   | 787   | 3   | 11,952 | 3   | 23,908 | 3   | 35,841 | 3   | 47,795 | 3   | 59,751 | 3   | 71,707 | 3   | 83,664 | 3   | 95,620  | 3   | 107,577 |
| 1/4 | 932   | 1/4 | 12,201 | 1/4 | 24,157 | 1/4 | 36,089 | 1/4 | 48,044 | 1/4 | 60,000 | 1/4 | 71,956 | 1/4 | 83,913 | 1/4 | 95,869  | 1/4 | 107,826 |
| 1/2 | 1,077 | 1/2 | 12,450 | 1/2 | 24,406 | 1/2 | 36,338 | 1/2 | 48,293 | 1/2 | 60,249 | 1/2 | 72,206 | 1/2 | 84,162 | 1/2 | 96,118  | 1/2 | 108,075 |
| 3/4 | 1,222 | 3/4 | 12,699 | 3/4 | 24,655 | 3/4 | 36,586 | 3/4 | 48,542 | 3/4 | 60,498 | 3/4 | 72,455 | 3/4 | 84,411 | 3/4 | 96,368  | 3/4 | 108,324 |
| 4   | 1,368 | 4   | 12,948 | 4   | 24,904 | 4   | 36,835 | 4   | 48,791 | 4   | 60,747 | 4   | 72,704 | 4   | 84,660 | 4   | 96,617  | 4   | 108,573 |
| 1/4 | 1,555 | 1/4 | 13,197 | 1/4 | 25,153 | 1/4 | 37,084 | 1/4 | 49,040 | 1/4 | 60,996 | 1/4 | 72,953 | 1/4 | 84,909 | 1/4 | 96,866  | 1/4 | 108,822 |
| 1/2 | 1,741 | 1/2 | 13,446 | 1/2 | 25,402 | 1/2 | 37,333 | 1/2 | 49,289 | 1/2 | 61,246 | 1/2 | 73,202 | 1/2 | 85,158 | 1/2 | 97,115  | 1/2 | 109,071 |
| 3/4 | 1,928 | 3/4 | 13,695 | 3/4 | 25,651 | 3/4 | 37,582 | 3/4 | 49,538 | 3/4 | 61,495 | 3/4 | 73,451 | 3/4 | 85,407 | 3/4 | 97,364  | 3/4 | 109,320 |
| 5   | 2,115 | 5   | 13,944 | 5   | 25,900 | 5   | 37,831 | 5   | 49,787 | 5   | 61,744 | 5   | 73,700 | 5   | 85,657 | 5   | 97,613  | 5   | 109,569 |
| 1/4 | 2,343 | 1/4 | 14,193 | 1/4 | 26,149 | 1/4 | 38,080 | 1/4 | 50,036 | 1/4 | 61,993 | 1/4 | 73,949 | 1/4 | 85,906 | 1/4 | 97,862  | 1/4 | 109,818 |
| 1/2 | 2,570 | 1/2 | 14,443 | 1/2 | 26,399 | 1/2 | 38,329 | 1/2 | 50,285 | 1/2 | 62,242 | 1/2 | 74,198 | 1/2 | 86,155 | 1/2 | 98,111  | 1/2 | 110,068 |
| 3/4 | 2,798 | 3/4 | 14,692 | 3/4 | 26,648 | 3/4 | 38,578 | 3/4 | 50,535 | 3/4 | 62,491 | 3/4 | 74,447 | 3/4 | 86,404 | 3/4 | 98,360  | 3/4 | 110,317 |
| 6   | 3,026 | 6   | 14,941 | 6   | 26,897 | 6   | 38,827 | 6   | 50,784 | 6   | 62,740 | 6   | 74,697 | 6   | 86,653 | 6   | 98,609  | 6   | 110,566 |
| 1/4 | 3,270 | 1/4 | 15,190 | 1/4 | 27,145 | 1/4 | 39,076 | 1/4 | 51,033 | 1/4 | 62,989 | 1/4 | 74,946 | 1/4 | 86,902 | 1/4 | 98,858  | 1/4 | 110,815 |
| 1/2 | 3,514 | 1/2 | 15,439 | 1/2 | 27,394 | 1/2 | 39,325 | 1/2 | 51,282 | 1/2 | 63,238 | 1/2 | 75,195 | 1/2 | 87,151 | 1/2 | 99,108  | 1/2 | 111,064 |
| 3/4 | 3,758 | 3/4 | 15,688 | 3/4 | 27,643 | 3/4 | 39,575 | 3/4 | 51,531 | 3/4 | 63,487 | 3/4 | 75,444 | 3/4 | 87,400 | 3/4 | 99,357  | 3/4 | 111,313 |
| 7   | 4,002 | 7   | 15,937 | 7   | 27,892 | 7   | 39,824 | 7   | 51,780 | 7   | 63,736 | 7   | 75,693 | 7   | 87,649 | 7   | 99,606  | 7   | 111,562 |
| 1/4 | 4,248 | 1/4 | 16,186 | 1/4 | 28,140 | 1/4 | 40,073 | 1/4 | 52,029 | 1/4 | 63,986 | 1/4 | 75,942 | 1/4 | 87,898 | 1/4 | 99,855  | 1/4 | 111,811 |
| 1/2 | 4,495 | 1/2 | 16,435 | 1/2 | 28,389 | 1/2 | 40,322 | 1/2 | 52,278 | 1/2 | 64,235 | 1/2 | 76,191 | 1/2 | 88,147 | 1/2 | 100,104 | 1/2 | 112,060 |
| 3/4 | 4,741 | 3/4 | 16,684 | 3/4 | 28,638 | 3/4 | 40,571 | 3/4 | 52,527 | 3/4 | 64,484 | 3/4 | 76,440 | 3/4 | 88,397 | 3/4 | 100,353 | 3/4 | 112,309 |
| 8   | 4,987 | 8   | 16,933 | 8   | 28,887 | 8   | 40,820 | 8   | 52,776 | 8   | 64,733 | 8   | 76,689 | 8   | 88,646 | 8   | 100,602 | 8   | 112,559 |
| 1/4 | 5,235 | 1/4 | 17,182 | 1/4 | 29,135 | 1/4 | 41,069 | 1/4 | 53,025 | 1/4 | 64,982 | 1/4 | 76,938 | 1/4 | 88,895 | 1/4 | 100,851 | 1/4 | 112,808 |
| 1/2 | 5,482 | 1/2 | 17,432 | 1/2 | 29,383 | 1/2 | 41,318 | 1/2 | 53,275 | 1/2 | 65,231 | 1/2 | 77,187 | 1/2 | 89,144 | 1/2 | 101,100 | 1/2 | 113,057 |
| 3/4 | 5,730 | 3/4 | 17,681 | 3/4 | 29,632 | 3/4 | 41,567 | 3/4 | 53,524 | 3/4 | 65,480 | 3/4 | 77,437 | 3/4 | 89,393 | 3/4 | 101,349 | 3/4 | 113,306 |
| 9   | 5,978 | 9   | 17,930 | 9   | 29,880 | 9   | 41,816 | 9   | 53,773 | 9   | 65,729 | 9   | 77,686 | 9   | 89,642 | 9   | 101,598 | 9   | 113,555 |
| 1/4 | 6,226 | 1/4 | 18,179 | 1/4 | 30,128 | 1/4 | 42,065 | 1/4 | 54,022 | 1/4 | 65,978 | 1/4 | 77,935 | 1/4 | 89,891 | 1/4 | 101,848 | 1/4 | 113,804 |
| 1/2 | 6,474 | 1/2 | 18,428 | 1/2 | 30,377 | 1/2 | 42,315 | 1/2 | 54,271 | 1/2 | 66,227 | 1/2 | 78,184 | 1/2 | 90,140 | 1/2 | 102,097 | 1/2 | 114,053 |
| 3/4 | 6,723 | 3/4 | 18,677 | 3/4 | 30,625 | 3/4 | 42,564 | 3/4 | 54,520 | 3/4 | 66,476 | 3/4 | 78,433 | 3/4 | 90,389 | 3/4 | 102,346 | 3/4 | 114,302 |
| 10  | 6,971 | 10  | 18,926 | 10  | 30,874 | 10  | 42,813 | 10  | 54,769 | 10  | 66,726 | 10  | 78,682 | 10  | 90,638 | 10  | 102,595 | 10  | 114,551 |
| 1/4 | 7,220 | 1/4 | 19,175 | 1/4 | 31,122 | 1/4 | 43,062 | 1/4 | 55,018 | 1/4 | 66,975 | 1/4 | 78,931 | 1/4 | 90,887 | 1/4 | 102,844 | 1/4 | 114,800 |
| 1/2 | 7,469 | 1/2 | 19,424 | 1/2 | 31,370 | 1/2 | 43,311 | 1/2 | 55,267 | 1/2 | 67,224 | 1/2 | 79,180 | 1/2 | 91,137 | 1/2 | 103,093 | 1/2 | 115,049 |
| 3/4 | 7,718 | 3/4 | 19,673 | 3/4 | 31,619 | 3/4 | 43,560 | 3/4 | 55,516 | 3/4 | 67,473 | 3/4 | 79,429 | 3/4 | 91,386 | 3/4 | 103,342 | 3/4 | 115,299 |
| 11  | 7,966 | 11  | 19,922 | 11  | 31,867 | 11  | 43,809 | 11  | 55,766 | 11  | 67,722 | 11  | 79,678 | 11  | 91,635 | 11  | 103,591 | 11  | 115,548 |
| 1/4 | 8,216 | 1/4 | 20,171 | 1/4 | 32,115 | 1/4 | 44,058 | 1/4 | 56,015 | 1/4 | 67,971 | 1/4 | 79,927 | 1/4 | 91,884 | 1/4 | 103,840 | 1/4 | 115,797 |
| 1/2 | 8,465 | 1/2 | 20,421 | 1/2 | 32,364 | 1/2 | 44,307 | 1/2 | 56,264 | 1/2 | 68,220 | 1/2 | 80,177 | 1/2 | 92,133 | 1/2 | 104,089 | 1/2 | 116,046 |
| 3/4 | 8,714 | 3/4 | 20,670 | 3/4 | 32,612 | 3/4 | 44,556 | 3/4 | 56,513 | 3/4 | 68,469 | 3/4 | 80,426 | 3/4 | 92,382 | 3/4 | 104,338 | 3/4 | 116,295 |

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 ON CENTERLINE AND 30'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "CBC 1400"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

| 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   | 116,544 | 0   | 128,500 | 0   | 140,457 | 0   | 152,413 | 0   | 164,370 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 116,793 | 1/4 | 128,749 | 1/4 | 140,706 | 1/4 | 152,662 | 1/4 | 164,619 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 117,042 | 1/2 | 128,999 | 1/2 | 140,955 | 1/2 | 152,911 | 1/2 | 164,868 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 117,291 | 3/4 | 129,248 | 3/4 | 141,204 | 3/4 | 153,161 | 3/4 | 165,117 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 117,540 | 1   | 129,497 | 1   | 141,453 | 1   | 153,410 | 1   | 165,366 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 117,789 | 1/4 | 129,746 | 1/4 | 141,702 | 1/4 | 153,659 | 1/4 | 165,615 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 118,039 | 1/2 | 129,995 | 1/2 | 141,951 | 1/2 | 153,908 | 1/2 | 165,864 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 118,288 | 3/4 | 130,244 | 3/4 | 142,200 | 3/4 | 154,157 | 3/4 | 166,113 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 118,537 | 2   | 130,493 | 2   | 142,450 | 2   | 154,406 | 2   | 166,362 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 118,786 | 1/4 | 130,742 | 1/4 | 142,699 | 1/4 | 154,655 | 1/4 | 166,611 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 119,035 | 1/2 | 130,991 | 1/2 | 142,948 | 1/2 | 154,904 | 1/2 | 166,861 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 119,284 | 3/4 | 131,240 | 3/4 | 143,197 | 3/4 | 155,153 | 3/4 | 167,110 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 119,533 | 3   | 131,489 | 3   | 143,446 | 3   | 155,402 | 3   | 167,359 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 119,782 | 1/4 | 131,739 | 1/4 | 143,695 | 1/4 | 155,651 | 1/4 | 167,587 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 120,031 | 1/2 | 131,988 | 1/2 | 143,944 | 1/2 | 155,901 | 1/2 | 167,815 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 120,280 | 3/4 | 132,237 | 3/4 | 144,193 | 3/4 | 156,150 | 3/4 | 168,044 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 120,529 | 4   | 132,486 | 4   | 144,442 | 4   | 156,399 | 4   | 168,272 | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 120,779 | 1/4 | 132,735 | 1/4 | 144,691 | 1/4 | 156,648 | 1/4 | 168,459 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 121,028 | 1/2 | 132,984 | 1/2 | 144,940 | 1/2 | 156,897 | 1/2 | 168,646 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 121,277 | 3/4 | 133,233 | 3/4 | 145,190 | 3/4 | 157,146 | 3/4 | 168,833 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 121,526 | 5   | 133,482 | 5   | 145,439 | 5   | 157,395 | 5   | 169,019 | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 121,775 | 1/4 | 133,731 | 1/4 | 145,688 | 1/4 | 157,644 | 1/4 | 169,165 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 122,024 | 1/2 | 133,980 | 1/2 | 145,937 | 1/2 | 157,893 | 1/2 | 169,310 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 122,273 | 3/4 | 134,230 | 3/4 | 146,186 | 3/4 | 158,142 | 3/4 | 169,455 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 122,522 | 6   | 134,479 | 6   | 146,435 | 6   | 158,391 | 6   | 169,601 | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 122,771 | 1/4 | 134,728 | 1/4 | 146,684 | 1/4 | 158,641 | 1/4 | 169,704 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 123,020 | 1/2 | 134,977 | 1/2 | 146,933 | 1/2 | 158,890 | 1/2 | 169,808 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 123,269 | 3/4 | 135,226 | 3/4 | 147,182 | 3/4 | 159,139 | 3/4 | 169,912 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 123,519 | 7   | 135,475 | 7   | 147,431 | 7   | 159,388 | 7   | 170,016 | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 123,768 | 1/4 | 135,724 | 1/4 | 147,680 | 1/4 | 159,637 | 1/4 | 170,078 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 124,017 | 1/2 | 135,973 | 1/2 | 147,930 | 1/2 | 159,886 | 1/2 | 170,140 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 124,266 | 3/4 | 136,222 | 3/4 | 148,179 | 3/4 | 160,135 | 3/4 | 170,203 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 124,515 | 8   | 136,471 | 8   | 148,428 | 8   | 160,384 | 8   | 170,265 | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 124,764 | 1/4 | 136,720 | 1/4 | 148,677 | 1/4 | 160,633 | 1/4 | 170,286 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 125,013 | 1/2 | 136,970 | 1/2 | 148,926 | 1/2 | 160,882 | 1/2 | 170,306 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 125,262 | 3/4 | 137,219 | 3/4 | 149,175 | 3/4 | 161,131 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 125,511 | 9   | 137,468 | 9   | 149,424 | 9   | 161,381 | 9   |         | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 125,760 | 1/4 | 137,717 | 1/4 | 149,673 | 1/4 | 161,630 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 126,009 | 1/2 | 137,966 | 1/2 | 149,922 | 1/2 | 161,879 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 126,259 | 3/4 | 138,215 | 3/4 | 150,171 | 3/4 | 162,128 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 126,508 | 10  | 138,464 | 10  | 150,420 | 10  | 162,377 | 10  |         | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 126,757 | 1/4 | 138,713 | 1/4 | 150,670 | 1/4 | 162,626 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 127,006 | 1/2 | 138,962 | 1/2 | 150,919 | 1/2 | 162,875 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 127,255 | 3/4 | 139,211 | 3/4 | 151,168 | 3/4 | 163,124 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 127,504 | 11  | 139,460 | 11  | 151,417 | 11  | 163,373 | 11  |         | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 127,753 | 1/4 | 139,710 | 1/4 | 151,666 | 1/4 | 163,622 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 128,002 | 1/2 | 139,959 | 1/2 | 151,915 | 1/2 | 163,871 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 128,251 | 3/4 | 140,208 | 3/4 | 152,164 | 3/4 | 164,121 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/20/2018 CL  
CALCULATED: 02/20/2018 CL  
PRINTED: 02/20/2018 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2018

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



# BARGE "CBC 1400"

## ULLAGE TRIM TABLE

|          | 1 FT.      |              | 2 FT.      |              | 3 FT.      |              | 4 FT.      |              | 5 FT.      |              | 6 FT.      |              |
|----------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
|          | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> |
| 1 CENTER | - 00-1/4   | 00-1/4       | - 00-1/2   | 00-1/2       | - 00-7/8   | 00-7/8       | - 01-1/8   | 01-1/8       | - 01-3/8   | 01-3/8       | - 01-5/8   | 01-5/8       |
| 2 CENTER | 00-1/4     | - 00-1/4     | 00-5/8     | - 00-5/8     | 00-7/8     | - 00-7/8     | 01-1/4     | - 01-1/4     | 01-1/2     | - 01-1/2     | 01-3/4     | - 01-3/4     |
| 3 CENTER | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     | 00-1/4     | - 00-1/4     | 00-1/4     | - 00-1/4     | 00-3/8     | - 00-3/8     | 00-1/2     | - 00-1/2     |

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 CENTER IS 00-1/2"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 1/2"

LENGTH BETWEEN DRAFT MARKS: 178'-06"

February 20, 2018

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588

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# BARGE "CBC 1400"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

| IN  | 0 FT. | IN  | 1 FT. | IN      | 2 FT.   | IN  | 3 FT.   | IN  | 4 FT.   | IN  | 5 FT.   | IN  | 6 FT.   | IN  | 7 FT.  | IN  | 8 FT.  | IN  | 9 FT.  |
|-----|-------|-----|-------|---------|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|-----|--------|
| 0   | 0     | 0   | 0     | 0       | 144,582 | 0   | 136,458 | 0   | 128,335 | 0   | 120,219 | 0   | 109,806 | 0   | 98,216 | 0   | 86,625 | 0   | 86,625 |
| 1/4 | 1/4   | 1/4 | 1/4   | 1/4     | 144,412 | 1/4 | 136,289 | 1/4 | 128,166 | 1/4 | 120,050 | 1/4 | 109,565 | 1/4 | 97,974 | 1/4 | 86,384 | 1/4 | 86,384 |
| 1/2 | 1/2   | 1/2 | 1/2   | 151,506 | 144,243 | 1/2 | 136,120 | 1/2 | 127,997 | 1/2 | 119,882 | 1/2 | 109,324 | 1/2 | 97,733 | 1/2 | 86,142 | 1/2 | 86,142 |
| 3/4 | 3/4   | 3/4 | 3/4   | 151,486 | 144,074 | 3/4 | 135,951 | 3/4 | 127,828 | 3/4 | 119,713 | 3/4 | 109,082 | 3/4 | 97,492 | 3/4 | 85,901 | 3/4 | 85,901 |
| 1   | 1     | 1   | 1     | 151,466 | 143,905 | 1   | 135,782 | 1   | 127,658 | 1   | 119,544 | 1   | 108,841 | 1   | 97,250 | 1   | 85,659 | 1   | 85,659 |
| 1/4 | 1/4   | 1/4 | 1/4   | 151,406 | 143,735 | 1/4 | 135,612 | 1/4 | 127,489 | 1/4 | 119,376 | 1/4 | 108,599 | 1/4 | 97,009 | 1/4 | 85,418 | 1/4 | 85,418 |
| 1/2 | 1/2   | 1/2 | 1/2   | 151,345 | 143,566 | 1/2 | 135,443 | 1/2 | 127,320 | 1/2 | 119,207 | 1/2 | 108,358 | 1/2 | 96,767 | 1/2 | 85,176 | 1/2 | 85,176 |
| 3/4 | 3/4   | 3/4 | 3/4   | 151,285 | 143,397 | 3/4 | 135,274 | 3/4 | 127,151 | 3/4 | 119,038 | 3/4 | 108,116 | 3/4 | 96,526 | 3/4 | 84,935 | 3/4 | 84,935 |
| 2   | 2     | 2   | 2     | 151,224 | 143,228 | 2   | 135,105 | 2   | 126,981 | 2   | 118,870 | 2   | 107,875 | 2   | 96,284 | 2   | 84,693 | 2   | 84,693 |
| 1/4 | 1/4   | 1/4 | 1/4   | 151,123 | 143,059 | 1/4 | 134,935 | 1/4 | 126,812 | 1/4 | 118,701 | 1/4 | 107,633 | 1/4 | 96,043 | 1/4 | 84,452 | 1/4 | 84,452 |
| 1/2 | 1/2   | 1/2 | 1/2   | 151,023 | 142,889 | 1/2 | 134,766 | 1/2 | 126,643 | 1/2 | 118,532 | 1/2 | 107,392 | 1/2 | 95,801 | 1/2 | 84,211 | 1/2 | 84,211 |
| 3/4 | 3/4   | 3/4 | 3/4   | 150,922 | 142,720 | 3/4 | 134,597 | 3/4 | 126,474 | 3/4 | 118,364 | 3/4 | 107,150 | 3/4 | 95,560 | 3/4 | 83,969 | 3/4 | 83,969 |
| 3   | 3     | 3   | 3     | 150,821 | 142,551 | 3   | 134,428 | 3   | 126,305 | 3   | 118,195 | 3   | 106,909 | 3   | 95,318 | 3   | 83,728 | 3   | 83,728 |
| 1/4 | 1/4   | 1/4 | 1/4   | 150,680 | 142,382 | 1/4 | 134,258 | 1/4 | 126,135 | 1/4 | 118,027 | 1/4 | 106,667 | 1/4 | 95,077 | 1/4 | 83,486 | 1/4 | 83,486 |
| 1/2 | 1/2   | 1/2 | 1/2   | 150,539 | 142,212 | 1/2 | 134,089 | 1/2 | 125,966 | 1/2 | 117,859 | 1/2 | 106,426 | 1/2 | 94,835 | 1/2 | 83,245 | 1/2 | 83,245 |
| 3/4 | 3/4   | 3/4 | 3/4   | 150,397 | 142,043 | 3/4 | 133,920 | 3/4 | 125,797 | 3/4 | 117,690 | 3/4 | 106,184 | 3/4 | 94,594 | 3/4 | 83,003 | 3/4 | 83,003 |
| 4   | 4     | 4   | 4     | 150,256 | 141,874 | 4   | 133,751 | 4   | 125,628 | 4   | 117,522 | 4   | 105,943 | 4   | 94,352 | 4   | 82,762 | 4   | 82,762 |
| 1/4 | 1/4   | 1/4 | 1/4   | 150,075 | 141,705 | 1/4 | 133,582 | 1/4 | 125,458 | 1/4 | 117,281 | 1/4 | 105,701 | 1/4 | 94,111 | 1/4 | 82,521 | 1/4 | 82,521 |
| 1/2 | 1/2   | 1/2 | 1/2   | 149,893 | 141,535 | 1/2 | 133,412 | 1/2 | 125,289 | 1/2 | 117,040 | 1/2 | 105,460 | 1/2 | 93,869 | 1/2 | 82,280 | 1/2 | 82,280 |
| 3/4 | 3/4   | 3/4 | 3/4   | 149,712 | 141,366 | 3/4 | 133,243 | 3/4 | 125,120 | 3/4 | 116,800 | 3/4 | 105,219 | 3/4 | 93,628 | 3/4 | 82,039 | 3/4 | 82,039 |
| 5   | 5     | 5   | 5     | 149,530 | 141,197 | 5   | 133,074 | 5   | 124,951 | 5   | 116,559 | 5   | 104,977 | 5   | 93,387 | 5   | 81,799 | 5   | 81,799 |
| 1/4 | 1/4   | 1/4 | 1/4   | 149,309 | 141,028 | 1/4 | 132,905 | 1/4 | 124,781 | 1/4 | 116,318 | 1/4 | 104,736 | 1/4 | 93,145 | 1/4 | 81,559 | 1/4 | 81,559 |
| 1/2 | 1/2   | 1/2 | 1/2   | 149,087 | 140,859 | 1/2 | 132,735 | 1/2 | 124,612 | 1/2 | 116,077 | 1/2 | 104,494 | 1/2 | 92,904 | 1/2 | 81,319 | 1/2 | 81,319 |
| 3/4 | 3/4   | 3/4 | 3/4   | 148,865 | 140,689 | 3/4 | 132,566 | 3/4 | 124,443 | 3/4 | 115,836 | 3/4 | 104,253 | 3/4 | 92,662 | 3/4 | 81,079 | 3/4 | 81,079 |
| 6   | 6     | 6   | 6     | 148,643 | 140,520 | 6   | 132,397 | 6   | 124,274 | 6   | 115,595 | 6   | 104,011 | 6   | 92,421 | 6   | 80,839 | 6   | 80,839 |
| 1/4 | 1/4   | 1/4 | 1/4   | 148,474 | 140,351 | 1/4 | 132,228 | 1/4 | 124,105 | 1/4 | 115,354 | 1/4 | 103,770 | 1/4 | 92,179 | 1/4 | 80,599 | 1/4 | 80,599 |
| 1/2 | 1/2   | 1/2 | 1/2   | 148,305 | 140,182 | 1/2 | 132,058 | 1/2 | 123,935 | 1/2 | 115,113 | 1/2 | 103,528 | 1/2 | 91,938 | 1/2 | 80,359 | 1/2 | 80,359 |
| 3/4 | 3/4   | 3/4 | 3/4   | 148,136 | 140,012 | 3/4 | 131,889 | 3/4 | 123,766 | 3/4 | 114,872 | 3/4 | 103,287 | 3/4 | 91,696 | 3/4 | 80,119 | 3/4 | 80,119 |
| 7   | 7     | 7   | 7     | 147,966 | 139,843 | 7   | 131,720 | 7   | 123,597 | 7   | 114,631 | 7   | 103,045 | 7   | 91,455 | 7   | 79,879 | 7   | 79,879 |
| 1/4 | 1/4   | 1/4 | 1/4   | 147,797 | 139,674 | 1/4 | 131,551 | 1/4 | 123,428 | 1/4 | 114,390 | 1/4 | 102,804 | 1/4 | 91,213 | 1/4 | 79,639 | 1/4 | 79,639 |
| 1/2 | 1/2   | 1/2 | 1/2   | 147,628 | 139,505 | 1/2 | 131,382 | 1/2 | 123,258 | 1/2 | 114,150 | 1/2 | 102,562 | 1/2 | 90,972 | 1/2 | 79,398 | 1/2 | 79,398 |
| 3/4 | 3/4   | 3/4 | 3/4   | 147,459 | 139,335 | 3/4 | 131,212 | 3/4 | 123,089 | 3/4 | 113,909 | 3/4 | 102,321 | 3/4 | 90,730 | 3/4 | 79,158 | 3/4 | 79,158 |
| 8   | 8     | 8   | 8     | 147,289 | 139,166 | 8   | 131,043 | 8   | 122,920 | 8   | 113,668 | 8   | 102,079 | 8   | 90,489 | 8   | 78,918 | 8   | 78,918 |
| 1/4 | 1/4   | 1/4 | 1/4   | 147,120 | 138,997 | 1/4 | 130,874 | 1/4 | 122,751 | 1/4 | 113,427 | 1/4 | 101,838 | 1/4 | 90,247 | 1/4 | 78,678 | 1/4 | 78,678 |
| 1/2 | 1/2   | 1/2 | 1/2   | 146,951 | 138,828 | 1/2 | 130,705 | 1/2 | 122,581 | 1/2 | 113,186 | 1/2 | 101,597 | 1/2 | 90,006 | 1/2 | 78,438 | 1/2 | 78,438 |
| 3/4 | 3/4   | 3/4 | 3/4   | 146,782 | 138,659 | 3/4 | 130,535 | 3/4 | 122,412 | 3/4 | 112,945 | 3/4 | 101,355 | 3/4 | 89,765 | 3/4 | 78,198 | 3/4 | 78,198 |
| 9   | 9     | 9   | 9     | 146,612 | 138,489 | 9   | 130,366 | 9   | 122,243 | 9   | 112,704 | 9   | 101,114 | 9   | 89,523 | 9   | 77,958 | 9   | 77,958 |
| 1/4 | 1/4   | 1/4 | 1/4   | 146,443 | 138,320 | 1/4 | 130,197 | 1/4 | 122,074 | 1/4 | 112,463 | 1/4 | 100,872 | 1/4 | 89,282 | 1/4 | 77,718 | 1/4 | 77,718 |
| 1/2 | 1/2   | 1/2 | 1/2   | 146,274 | 138,151 | 1/2 | 130,028 | 1/2 | 121,906 | 1/2 | 112,221 | 1/2 | 100,631 | 1/2 | 89,040 | 1/2 | 77,478 | 1/2 | 77,478 |
| 3/4 | 3/4   | 3/4 | 3/4   | 146,105 | 137,982 | 3/4 | 129,858 | 3/4 | 121,737 | 3/4 | 111,980 | 3/4 | 100,389 | 3/4 | 88,799 | 3/4 | 77,238 | 3/4 | 77,238 |
| 10  | 10    | 10  | 10    | 145,936 | 137,812 | 10  | 129,689 | 10  | 121,568 | 10  | 111,738 | 10  | 100,148 | 10  | 88,557 | 10  | 76,998 | 10  | 76,998 |
| 1/4 | 1/4   | 1/4 | 1/4   | 145,766 | 137,643 | 1/4 | 129,520 | 1/4 | 121,400 | 1/4 | 111,497 | 1/4 | 99,906  | 1/4 | 88,316 | 1/4 | 76,758 | 1/4 | 76,758 |
| 1/2 | 1/2   | 1/2 | 1/2   | 145,597 | 137,474 | 1/2 | 129,351 | 1/2 | 121,231 | 1/2 | 111,255 | 1/2 | 99,665  | 1/2 | 88,074 | 1/2 | 76,518 | 1/2 | 76,518 |
| 3/4 | 3/4   | 3/4 | 3/4   | 145,428 | 137,305 | 3/4 | 129,182 | 3/4 | 121,062 | 3/4 | 111,014 | 3/4 | 99,423  | 3/4 | 87,833 | 3/4 | 76,278 | 3/4 | 76,278 |
| 11  | 11    | 11  | 11    | 145,259 | 137,135 | 11  | 129,012 | 11  | 120,894 | 11  | 110,772 | 11  | 99,182  | 11  | 87,591 | 11  | 76,038 | 11  | 76,038 |
| 1/4 | 1/4   | 1/4 | 1/4   | 145,089 | 136,966 | 1/4 | 128,843 | 1/4 | 120,725 | 1/4 | 110,531 | 1/4 | 98,940  | 1/4 | 87,350 | 1/4 | 75,798 | 1/4 | 75,798 |
| 1/2 | 1/2   | 1/2 | 1/2   | 144,920 | 136,797 | 1/2 | 128,674 | 1/2 | 120,556 | 1/2 | 110,289 | 1/2 | 98,699  | 1/2 | 87,108 | 1/2 | 75,558 | 1/2 | 75,558 |
| 3/4 | 3/4   | 3/4 | 3/4   | 144,751 | 136,628 | 3/4 | 128,505 | 3/4 | 120,388 | 3/4 | 110,048 | 3/4 | 98,457  | 3/4 | 86,867 | 3/4 | 75,318 | 3/4 | 75,318 |

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 ON CENTERLINE AND 24'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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# BARGE "CBC 1400"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

| 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   | 75,078 | 0   | 63,499 | 0   | 51,913 | 0   | 40,327 | 0   | 28,942 | 0   | 17,418 | 0   | 5,807  | 0   |        | 0  |        |    | 0      |
| 1/4 | 74,837 | 1/4 | 63,258 | 1/4 | 51,672 | 1/4 | 40,086 | 1/4 | 28,708 | 1/4 | 17,176 | 1/4 | 5,567  | 1/4 |        | 0  |        |    | 1/4    |
| 1/2 | 74,596 | 1/2 | 63,016 | 1/2 | 51,430 | 1/2 | 39,844 | 1/2 | 28,473 | 1/2 | 16,934 | 1/2 | 5,326  | 1/2 |        | 0  |        |    | 1/2    |
| 3/4 | 74,356 | 3/4 | 62,775 | 3/4 | 51,189 | 3/4 | 39,603 | 3/4 | 28,239 | 3/4 | 16,692 | 3/4 | 5,086  | 3/4 |        | 0  |        |    | 3/4    |
| 1   | 74,115 | 1   | 62,534 | 1   | 50,947 | 1   | 39,361 | 1   | 28,005 | 1   | 16,450 | 1   | 4,845  | 1   |        | 1  |        |    | 1      |
| 1/4 | 73,874 | 1/4 | 62,292 | 1/4 | 50,706 | 1/4 | 39,120 | 1/4 | 27,770 | 1/4 | 16,208 | 1/4 | 4,606  | 1/4 |        | 1  |        |    | 1/4    |
| 1/2 | 73,633 | 1/2 | 62,051 | 1/2 | 50,465 | 1/2 | 38,879 | 1/2 | 27,536 | 1/2 | 15,966 | 1/2 | 4,367  | 1/2 |        | 1  |        |    | 1/2    |
| 3/4 | 73,392 | 3/4 | 61,809 | 3/4 | 50,223 | 3/4 | 38,637 | 3/4 | 27,301 | 3/4 | 15,724 | 3/4 | 4,128  | 3/4 |        | 1  |        |    | 3/4    |
| 2   | 73,152 | 2   | 61,568 | 2   | 49,982 | 2   | 38,396 | 2   | 27,067 | 2   | 15,482 | 2   | 3,888  | 2   |        | 2  |        |    | 2      |
| 1/4 | 72,911 | 1/4 | 61,327 | 1/4 | 49,741 | 1/4 | 38,155 | 1/4 | 26,832 | 1/4 | 15,240 | 1/4 | 3,651  | 1/4 |        | 2  |        |    | 1/4    |
| 1/2 | 72,670 | 1/2 | 61,085 | 1/2 | 49,499 | 1/2 | 37,913 | 1/2 | 26,597 | 1/2 | 14,998 | 1/2 | 3,414  | 1/2 |        | 2  |        |    | 1/2    |
| 3/4 | 72,429 | 3/4 | 60,844 | 3/4 | 49,258 | 3/4 | 37,672 | 3/4 | 26,363 | 3/4 | 14,756 | 3/4 | 3,177  | 3/4 |        | 2  |        |    | 3/4    |
| 3   | 72,189 | 3   | 60,602 | 3   | 49,016 | 3   | 37,430 | 3   | 26,128 | 3   | 14,514 | 3   | 2,940  | 3   |        | 3  |        |    | 3      |
| 1/4 | 71,947 | 1/4 | 60,361 | 1/4 | 48,775 | 1/4 | 37,189 | 1/4 | 25,886 | 1/4 | 14,272 | 1/4 | 2,719  | 1/4 |        | 3  |        |    | 1/4    |
| 1/2 | 71,706 | 1/2 | 60,120 | 1/2 | 48,534 | 1/2 | 36,948 | 1/2 | 25,644 | 1/2 | 14,030 | 1/2 | 2,498  | 1/2 |        | 3  |        |    | 1/2    |
| 3/4 | 71,464 | 3/4 | 59,878 | 3/4 | 48,292 | 3/4 | 36,706 | 3/4 | 25,402 | 3/4 | 13,788 | 3/4 | 2,276  | 3/4 |        | 3  |        |    | 3/4    |
| 4   | 71,223 | 4   | 59,637 | 4   | 48,051 | 4   | 36,465 | 4   | 25,160 | 4   | 13,546 | 4   | 2,055  | 4   |        | 4  |        |    | 4      |
| 1/4 | 70,982 | 1/4 | 59,396 | 1/4 | 47,810 | 1/4 | 36,224 | 1/4 | 24,918 | 1/4 | 13,304 | 1/4 | 1,874  | 1/4 |        | 4  |        |    | 1/4    |
| 1/2 | 70,740 | 1/2 | 59,154 | 1/2 | 47,568 | 1/2 | 35,982 | 1/2 | 24,676 | 1/2 | 13,062 | 1/2 | 1,693  | 1/2 |        | 4  |        |    | 1/2    |
| 3/4 | 70,499 | 3/4 | 58,913 | 3/4 | 47,327 | 3/4 | 35,741 | 3/4 | 24,434 | 3/4 | 12,820 | 3/4 | 1,511  | 3/4 |        | 4  |        |    | 3/4    |
| 5   | 70,258 | 5   | 58,671 | 5   | 47,085 | 5   | 35,499 | 5   | 24,193 | 5   | 12,579 | 5   | 1,330  | 5   |        | 5  |        |    | 5      |
| 1/4 | 70,016 | 1/4 | 58,430 | 1/4 | 46,844 | 1/4 | 35,265 | 1/4 | 23,951 | 1/4 | 12,337 | 1/4 | 1,189  | 1/4 |        | 5  |        |    | 1/4    |
| 1/2 | 69,775 | 1/2 | 58,189 | 1/2 | 46,603 | 1/2 | 35,031 | 1/2 | 23,709 | 1/2 | 12,095 | 1/2 | 1,047  | 1/2 |        | 5  |        |    | 1/2    |
| 3/4 | 69,533 | 3/4 | 57,947 | 3/4 | 46,361 | 3/4 | 34,797 | 3/4 | 23,467 | 3/4 | 11,853 | 3/4 | 906    | 3/4 |        | 5  |        |    | 3/4    |
| 6   | 69,292 | 6   | 57,706 | 6   | 46,120 | 6   | 34,563 | 6   | 23,225 | 6   | 11,611 | 6   | 765    | 6   |        | 6  |        |    | 6      |
| 1/4 | 69,051 | 1/4 | 57,465 | 1/4 | 45,879 | 1/4 | 34,328 | 1/4 | 22,983 | 1/4 | 11,369 | 1/4 | 664    | 1/4 |        | 6  |        |    | 1/4    |
| 1/2 | 68,809 | 1/2 | 57,223 | 1/2 | 45,637 | 1/2 | 34,094 | 1/2 | 22,741 | 1/2 | 11,127 | 1/2 | 564    | 1/2 |        | 6  |        |    | 1/2    |
| 3/4 | 68,568 | 3/4 | 56,982 | 3/4 | 45,396 | 3/4 | 33,860 | 3/4 | 22,499 | 3/4 | 10,885 | 3/4 | 463    | 3/4 |        | 6  |        |    | 3/4    |
| 7   | 68,327 | 7   | 56,740 | 7   | 45,154 | 7   | 33,626 | 7   | 22,257 | 7   | 10,643 | 7   | 362    | 7   |        | 7  |        |    | 7      |
| 1/4 | 68,085 | 1/4 | 56,499 | 1/4 | 44,913 | 1/4 | 33,392 | 1/4 | 22,015 | 1/4 | 10,401 | 1/4 | 301    | 1/4 |        | 7  |        |    | 1/4    |
| 1/2 | 67,844 | 1/2 | 56,258 | 1/2 | 44,672 | 1/2 | 33,157 | 1/2 | 21,773 | 1/2 | 10,159 | 1/2 | 241    | 1/2 |        | 7  |        |    | 1/2    |
| 3/4 | 67,602 | 3/4 | 56,016 | 3/4 | 44,430 | 3/4 | 32,923 | 3/4 | 21,531 | 3/4 | 9,917  | 3/4 | 181    | 3/4 |        | 7  |        |    | 3/4    |
| 8   | 67,361 | 8   | 55,775 | 8   | 44,189 | 8   | 32,689 | 8   | 21,289 | 8   | 9,675  | 8   | 120    | 8   |        | 8  |        |    | 8      |
| 1/4 | 67,120 | 1/4 | 55,534 | 1/4 | 43,948 | 1/4 | 32,455 | 1/4 | 21,047 | 1/4 | 9,433  | 1/4 | 100    | 1/4 |        | 8  |        |    | 1/4    |
| 1/2 | 66,878 | 1/2 | 55,292 | 1/2 | 43,706 | 1/2 | 32,221 | 1/2 | 20,805 | 1/2 | 9,191  | 1/2 | 80     | 1/2 |        | 8  |        |    | 1/2    |
| 3/4 | 66,637 | 3/4 | 55,051 | 3/4 | 43,465 | 3/4 | 31,986 | 3/4 | 20,563 | 3/4 | 8,949  | 3/4 | 60     | 3/4 |        | 8  |        |    | 3/4    |
| 9   | 66,396 | 9   | 54,809 | 9   | 43,223 | 9   | 31,752 | 9   | 20,321 | 9   | 8,707  | 9   | 39     | 9   |        | 9  |        |    | 9      |
| 1/4 | 66,154 | 1/4 | 54,568 | 1/4 | 42,982 | 1/4 | 31,518 | 1/4 | 20,079 | 1/4 | 8,465  | 1/4 |        | 1/4 |        | 9  |        |    | 1/4    |
| 1/2 | 65,913 | 1/2 | 54,327 | 1/2 | 42,741 | 1/2 | 31,284 | 1/2 | 19,837 | 1/2 | 8,223  | 1/2 |        | 1/2 |        | 9  |        |    | 1/2    |
| 3/4 | 65,671 | 3/4 | 54,085 | 3/4 | 42,499 | 3/4 | 31,050 | 3/4 | 19,595 | 3/4 | 7,981  | 3/4 |        | 3/4 |        | 9  |        |    | 3/4    |
| 10  | 65,430 | 10  | 53,844 | 10  | 42,258 | 10  | 30,815 | 10  | 19,353 | 10  | 7,739  | 10  |        | 10  |        | 10 |        |    | 10     |
| 1/4 | 65,189 | 1/4 | 53,603 | 1/4 | 42,017 | 1/4 | 30,581 | 1/4 | 19,111 | 1/4 | 7,498  | 1/4 |        | 1/4 |        | 10 |        |    | 1/4    |
| 1/2 | 64,947 | 1/2 | 53,361 | 1/2 | 41,775 | 1/2 | 30,347 | 1/2 | 18,869 | 1/2 | 7,256  | 1/2 |        | 1/2 |        | 10 |        |    | 1/2    |
| 3/4 | 64,706 | 3/4 | 53,120 | 3/4 | 41,534 | 3/4 | 30,113 | 3/4 | 18,627 | 3/4 | 7,014  | 3/4 |        | 3/4 |        | 10 |        |    | 3/4    |
| 11  | 64,465 | 11  | 52,878 | 11  | 41,292 | 11  | 29,879 | 11  | 18,386 | 11  | 6,772  | 11  |        | 11  |        | 11 |        |    | 11     |
| 1/4 | 64,223 | 1/4 | 52,637 | 1/4 | 41,051 | 1/4 | 29,644 | 1/4 | 18,144 | 1/4 | 6,531  | 1/4 |        | 1/4 |        | 11 |        |    | 1/4    |
| 1/2 | 63,982 | 1/2 | 52,396 | 1/2 | 40,810 | 1/2 | 29,410 | 1/2 | 17,902 | 1/2 | 6,290  | 1/2 |        | 1/2 |        | 11 |        |    | 1/2    |
| 3/4 | 63,740 | 3/4 | 52,154 | 3/4 | 40,568 | 3/4 | 29,176 | 3/4 | 17,660 | 3/4 | 6,049  | 3/4 |        | 3/4 |        | 11 |        |    | 3/4    |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/20/2018 CL  
CALCULATED: 02/20/2018 CL  
PRINTED: 02/20/2018 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2018

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



# BARGE "CBC 1400"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 3/4"

| IN  | 0 FT. | IN  | 1 FT. | IN  | 2 FT.   | IN  | 3 FT.   | IN  | 4 FT.   | IN  | 5 FT.   | IN  | 6 FT.   | IN  | 7 FT.   | IN  | 8 FT.   | IN  | 9 FT.   |
|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0   | 0     | 0   | 0     | 0   | 0       | 0   | 180,611 | 0   | 167,187 | 0   | 153,762 | 0   | 140,338 | 0   | 126,914 | 0   | 113,490 | 0   | 100,066 |
| 1/4 |       | 1/4 |       | 1/4 | 190,912 | 1/4 | 180,331 | 1/4 | 166,907 | 1/4 | 153,483 | 1/4 | 140,059 | 1/4 | 126,634 | 1/4 | 113,210 | 1/4 | 99,786  |
| 1/2 |       | 1/2 |       | 1/2 | 190,889 | 1/2 | 180,052 | 1/2 | 166,627 | 1/2 | 153,203 | 1/2 | 139,779 | 1/2 | 126,355 | 1/2 | 112,930 | 1/2 | 99,506  |
| 3/4 |       | 3/4 |       | 3/4 | 190,865 | 3/4 | 179,772 | 3/4 | 166,348 | 3/4 | 152,923 | 3/4 | 139,499 | 3/4 | 126,075 | 3/4 | 112,651 | 3/4 | 99,227  |
| 1   | 1     | 1   | 1     | 1   | 190,796 | 1   | 179,492 | 1   | 166,068 | 1   | 152,644 | 1   | 139,220 | 1   | 125,795 | 1   | 112,371 | 1   | 98,947  |
| 1/4 |       | 1/4 |       | 1/4 | 190,726 | 1/4 | 179,213 | 1/4 | 165,788 | 1/4 | 152,364 | 1/4 | 138,940 | 1/4 | 125,516 | 1/4 | 112,091 | 1/4 | 98,667  |
| 1/2 |       | 1/2 |       | 1/2 | 190,656 | 1/2 | 178,933 | 1/2 | 165,509 | 1/2 | 152,084 | 1/2 | 138,660 | 1/2 | 125,236 | 1/2 | 111,812 | 1/2 | 98,388  |
| 3/4 |       | 3/4 |       | 3/4 | 190,586 | 3/4 | 178,653 | 3/4 | 165,229 | 3/4 | 151,805 | 3/4 | 138,381 | 3/4 | 124,956 | 3/4 | 111,532 | 3/4 | 98,108  |
| 2   | 2     | 2   | 2     | 2   | 190,469 | 2   | 178,374 | 2   | 164,949 | 2   | 151,525 | 2   | 138,101 | 2   | 124,677 | 2   | 111,252 | 2   | 97,828  |
| 1/4 |       | 1/4 |       | 1/4 | 190,353 | 1/4 | 178,094 | 1/4 | 164,670 | 1/4 | 151,245 | 1/4 | 137,821 | 1/4 | 124,397 | 1/4 | 110,973 | 1/4 | 97,549  |
| 1/2 |       | 1/2 |       | 1/2 | 190,236 | 1/2 | 177,814 | 1/2 | 164,390 | 1/2 | 150,966 | 1/2 | 137,542 | 1/2 | 124,117 | 1/2 | 110,693 | 1/2 | 97,269  |
| 3/4 |       | 3/4 |       | 3/4 | 190,120 | 3/4 | 177,534 | 3/4 | 164,110 | 3/4 | 150,686 | 3/4 | 137,262 | 3/4 | 123,838 | 3/4 | 110,413 | 3/4 | 96,989  |
| 3   | 3     | 3   | 3     | 3   | 189,957 | 3   | 177,255 | 3   | 163,831 | 3   | 150,406 | 3   | 136,982 | 3   | 123,558 | 3   | 110,134 | 3   | 96,710  |
| 1/4 |       | 1/4 |       | 1/4 | 189,793 | 1/4 | 176,975 | 1/4 | 163,551 | 1/4 | 150,127 | 1/4 | 136,703 | 1/4 | 123,278 | 1/4 | 109,854 | 1/4 | 96,430  |
| 1/2 |       | 1/2 |       | 1/2 | 189,630 | 1/2 | 176,695 | 1/2 | 163,271 | 1/2 | 149,847 | 1/2 | 136,423 | 1/2 | 122,999 | 1/2 | 109,574 | 1/2 | 96,150  |
| 3/4 |       | 3/4 |       | 3/4 | 189,467 | 3/4 | 176,416 | 3/4 | 162,992 | 3/4 | 149,567 | 3/4 | 136,143 | 3/4 | 122,719 | 3/4 | 109,295 | 3/4 | 95,871  |
| 4   | 4     | 4   | 4     | 4   | 189,257 | 4   | 176,136 | 4   | 162,712 | 4   | 149,288 | 4   | 135,864 | 4   | 122,439 | 4   | 109,015 | 4   | 95,591  |
| 1/4 |       | 1/4 |       | 1/4 | 189,048 | 1/4 | 175,856 | 1/4 | 162,432 | 1/4 | 149,008 | 1/4 | 135,584 | 1/4 | 122,160 | 1/4 | 108,735 | 1/4 | 95,311  |
| 1/2 |       | 1/2 |       | 1/2 | 188,838 | 1/2 | 175,577 | 1/2 | 162,153 | 1/2 | 148,728 | 1/2 | 135,304 | 1/2 | 121,880 | 1/2 | 108,456 | 1/2 | 95,032  |
| 3/4 |       | 3/4 |       | 3/4 | 188,628 | 3/4 | 175,297 | 3/4 | 161,873 | 3/4 | 148,449 | 3/4 | 135,025 | 3/4 | 121,600 | 3/4 | 108,176 | 3/4 | 94,752  |
| 5   | 5     | 5   | 5     | 5   | 188,372 | 5   | 175,017 | 5   | 161,593 | 5   | 148,169 | 5   | 134,745 | 5   | 121,321 | 5   | 107,896 | 5   | 94,472  |
| 1/4 |       | 1/4 |       | 1/4 | 188,115 | 1/4 | 174,738 | 1/4 | 161,314 | 1/4 | 147,889 | 1/4 | 134,465 | 1/4 | 121,041 | 1/4 | 107,617 | 1/4 | 94,193  |
| 1/2 |       | 1/2 |       | 1/2 | 187,859 | 1/2 | 174,458 | 1/2 | 161,034 | 1/2 | 147,610 | 1/2 | 134,185 | 1/2 | 120,761 | 1/2 | 107,337 | 1/2 | 93,913  |
| 3/4 |       | 3/4 |       | 3/4 | 187,603 | 3/4 | 174,178 | 3/4 | 160,754 | 3/4 | 147,330 | 3/4 | 133,906 | 3/4 | 120,482 | 3/4 | 107,057 | 3/4 | 93,633  |
| 6   | 6     | 6   | 6     | 6   | 187,323 | 6   | 173,899 | 6   | 160,475 | 6   | 147,050 | 6   | 133,626 | 6   | 120,202 | 6   | 106,778 | 6   | 93,354  |
| 1/4 |       | 1/4 |       | 1/4 | 187,043 | 1/4 | 173,619 | 1/4 | 160,195 | 1/4 | 146,771 | 1/4 | 133,346 | 1/4 | 119,922 | 1/4 | 106,498 | 1/4 | 93,074  |
| 1/2 |       | 1/2 |       | 1/2 | 186,764 | 1/2 | 173,339 | 1/2 | 159,915 | 1/2 | 146,491 | 1/2 | 133,067 | 1/2 | 119,643 | 1/2 | 106,218 | 1/2 | 92,794  |
| 3/4 |       | 3/4 |       | 3/4 | 186,484 | 3/4 | 173,060 | 3/4 | 159,636 | 3/4 | 146,211 | 3/4 | 132,787 | 3/4 | 119,363 | 3/4 | 105,939 | 3/4 | 92,515  |
| 7   | 7     | 7   | 7     | 7   | 186,204 | 7   | 172,780 | 7   | 159,356 | 7   | 145,932 | 7   | 132,507 | 7   | 119,083 | 7   | 105,659 | 7   | 92,235  |
| 1/4 |       | 1/4 |       | 1/4 | 185,925 | 1/4 | 172,500 | 1/4 | 159,076 | 1/4 | 145,652 | 1/4 | 132,228 | 1/4 | 118,804 | 1/4 | 105,379 | 1/4 | 91,955  |
| 1/2 |       | 1/2 |       | 1/2 | 185,645 | 1/2 | 172,221 | 1/2 | 158,797 | 1/2 | 145,372 | 1/2 | 131,948 | 1/2 | 118,524 | 1/2 | 105,100 | 1/2 | 91,675  |
| 3/4 |       | 3/4 |       | 3/4 | 185,365 | 3/4 | 171,941 | 3/4 | 158,517 | 3/4 | 145,093 | 3/4 | 131,668 | 3/4 | 118,244 | 3/4 | 104,820 | 3/4 | 91,396  |
| 8   | 8     | 8   | 8     | 8   | 185,086 | 8   | 171,661 | 8   | 158,237 | 8   | 144,813 | 8   | 131,389 | 8   | 117,965 | 8   | 104,540 | 8   | 91,116  |
| 1/4 |       | 1/4 |       | 1/4 | 184,806 | 1/4 | 171,382 | 1/4 | 157,958 | 1/4 | 144,533 | 1/4 | 131,109 | 1/4 | 117,685 | 1/4 | 104,261 | 1/4 | 90,836  |
| 1/2 |       | 1/2 |       | 1/2 | 184,526 | 1/2 | 171,102 | 1/2 | 157,678 | 1/2 | 144,254 | 1/2 | 130,829 | 1/2 | 117,405 | 1/2 | 103,981 | 1/2 | 90,557  |
| 3/4 |       | 3/4 |       | 3/4 | 184,247 | 3/4 | 170,822 | 3/4 | 157,398 | 3/4 | 143,974 | 3/4 | 130,550 | 3/4 | 117,126 | 3/4 | 103,701 | 3/4 | 90,277  |
| 9   | 9     | 9   | 9     | 9   | 183,967 | 9   | 170,543 | 9   | 157,119 | 9   | 143,694 | 9   | 130,270 | 9   | 116,846 | 9   | 103,422 | 9   | 89,997  |
| 1/4 |       | 1/4 |       | 1/4 | 183,687 | 1/4 | 170,263 | 1/4 | 156,839 | 1/4 | 143,415 | 1/4 | 129,990 | 1/4 | 116,566 | 1/4 | 103,142 | 1/4 | 89,718  |
| 1/2 |       | 1/2 |       | 1/2 | 183,408 | 1/2 | 169,983 | 1/2 | 156,559 | 1/2 | 143,135 | 1/2 | 129,711 | 1/2 | 116,287 | 1/2 | 102,862 | 1/2 | 89,438  |
| 3/4 |       | 3/4 |       | 3/4 | 183,128 | 3/4 | 169,704 | 3/4 | 156,279 | 3/4 | 142,855 | 3/4 | 129,431 | 3/4 | 116,007 | 3/4 | 102,583 | 3/4 | 89,158  |
| 10  | 10    | 10  | 10    | 10  | 182,848 | 10  | 169,424 | 10  | 156,000 | 10  | 142,576 | 10  | 129,151 | 10  | 115,727 | 10  | 102,303 | 10  | 88,879  |
| 1/4 |       | 1/4 |       | 1/4 | 182,569 | 1/4 | 169,144 | 1/4 | 155,720 | 1/4 | 142,296 | 1/4 | 128,872 | 1/4 | 115,448 | 1/4 | 102,023 | 1/4 | 88,599  |
| 1/2 |       | 1/2 |       | 1/2 | 182,289 | 1/2 | 168,865 | 1/2 | 155,440 | 1/2 | 142,016 | 1/2 | 128,592 | 1/2 | 115,168 | 1/2 | 101,744 | 1/2 | 88,319  |
| 3/4 |       | 3/4 |       | 3/4 | 182,009 | 3/4 | 168,585 | 3/4 | 155,161 | 3/4 | 141,737 | 3/4 | 128,312 | 3/4 | 114,888 | 3/4 | 101,464 | 3/4 | 88,040  |
| 11  | 11    | 11  | 11    | 11  | 181,730 | 11  | 168,305 | 11  | 154,881 | 11  | 141,457 | 11  | 128,033 | 11  | 114,609 | 11  | 101,184 | 11  | 87,760  |
| 1/4 |       | 1/4 |       | 1/4 | 181,450 | 1/4 | 168,026 | 1/4 | 154,601 | 1/4 | 141,177 | 1/4 | 127,753 | 1/4 | 114,329 | 1/4 | 100,905 | 1/4 | 87,480  |
| 1/2 |       | 1/2 |       | 1/2 | 181,170 | 1/2 | 167,746 | 1/2 | 154,322 | 1/2 | 140,898 | 1/2 | 127,473 | 1/2 | 114,049 | 1/2 | 100,625 | 1/2 | 87,201  |
| 3/4 |       | 3/4 |       | 3/4 | 180,891 | 3/4 | 167,466 | 3/4 | 154,042 | 3/4 | 140,618 | 3/4 | 127,194 | 3/4 | 113,770 | 3/4 | 100,345 | 3/4 | 86,921  |

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 ON CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD

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



# BARGE "CBC 1400"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 3/4"

| IN  | 10 FT. | IN  | 11 FT. | IN  | 12 FT. | IN  | 13 FT. | IN  | 14 FT. | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 86,641 | 0   | 73,217 | 0   | 59,793 | 0   | 46,369 | 0   | 33,214 | 0   | 19,846 | 0   | 6,429  | 0   |        | 0   |        | 0   |        |
| 1/4 | 86,362 | 1/4 | 72,938 | 1/4 | 59,513 | 1/4 | 46,089 | 1/4 | 32,943 | 1/4 | 19,567 | 1/4 | 6,151  | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 86,082 | 1/2 | 72,658 | 1/2 | 59,234 | 1/2 | 45,809 | 1/2 | 32,671 | 1/2 | 19,287 | 1/2 | 5,873  | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 85,802 | 3/4 | 72,378 | 3/4 | 58,954 | 3/4 | 45,530 | 3/4 | 32,400 | 3/4 | 19,007 | 3/4 | 5,595  | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 85,523 | 1   | 72,099 | 1   | 58,674 | 1   | 45,250 | 1   | 32,128 | 1   | 18,728 | 1   | 5,318  | 1   |        | 1   |        | 1   |        |
| 1/4 | 85,243 | 1/4 | 71,819 | 1/4 | 58,395 | 1/4 | 44,970 | 1/4 | 31,856 | 1/4 | 18,448 | 1/4 | 5,042  | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 84,963 | 1/2 | 71,539 | 1/2 | 58,115 | 1/2 | 44,691 | 1/2 | 31,584 | 1/2 | 18,168 | 1/2 | 4,765  | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 84,684 | 3/4 | 71,260 | 3/4 | 57,835 | 3/4 | 44,411 | 3/4 | 31,313 | 3/4 | 17,889 | 3/4 | 4,489  | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 84,404 | 2   | 70,980 | 2   | 57,556 | 2   | 44,131 | 2   | 31,033 | 2   | 17,609 | 2   | 4,215  | 2   |        | 2   |        | 2   |        |
| 1/4 | 84,124 | 1/4 | 70,700 | 1/4 | 57,276 | 1/4 | 43,852 | 1/4 | 30,753 | 1/4 | 17,329 | 1/4 | 3,940  | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 83,845 | 1/2 | 70,421 | 1/2 | 56,996 | 1/2 | 43,572 | 1/2 | 30,474 | 1/2 | 17,050 | 1/2 | 3,666  | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 83,565 | 3/4 | 70,141 | 3/4 | 56,717 | 3/4 | 43,292 | 3/4 | 30,194 | 3/4 | 16,770 | 3/4 | 3,392  | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 83,285 | 3   | 69,861 | 3   | 56,437 | 3   | 43,013 | 3   | 29,914 | 3   | 16,490 | 3   | 3,137  | 3   |        | 3   |        | 3   |        |
| 1/4 | 83,006 | 1/4 | 69,581 | 1/4 | 56,157 | 1/4 | 42,733 | 1/4 | 29,635 | 1/4 | 16,211 | 1/4 | 2,881  | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 82,726 | 1/2 | 69,302 | 1/2 | 55,878 | 1/2 | 42,453 | 1/2 | 29,355 | 1/2 | 15,931 | 1/2 | 2,625  | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 82,446 | 3/4 | 69,022 | 3/4 | 55,598 | 3/4 | 42,174 | 3/4 | 29,075 | 3/4 | 15,651 | 3/4 | 2,370  | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 82,167 | 4   | 68,742 | 4   | 55,318 | 4   | 41,902 | 4   | 28,796 | 4   | 15,372 | 4   | 2,160  | 4   |        | 4   |        | 4   |        |
| 1/4 | 81,887 | 1/4 | 68,463 | 1/4 | 55,039 | 1/4 | 41,630 | 1/4 | 28,516 | 1/4 | 15,092 | 1/4 | 1,950  | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 81,607 | 1/2 | 68,183 | 1/2 | 54,759 | 1/2 | 41,358 | 1/2 | 28,236 | 1/2 | 14,812 | 1/2 | 1,741  | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 81,328 | 3/4 | 67,903 | 3/4 | 54,479 | 3/4 | 41,086 | 3/4 | 27,957 | 3/4 | 14,533 | 3/4 | 1,531  | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 81,048 | 5   | 67,624 | 5   | 54,200 | 5   | 40,815 | 5   | 27,677 | 5   | 14,253 | 5   | 1,368  | 5   |        | 5   |        | 5   |        |
| 1/4 | 80,768 | 1/4 | 67,344 | 1/4 | 53,920 | 1/4 | 40,544 | 1/4 | 27,397 | 1/4 | 13,974 | 1/4 | 1,205  | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 80,489 | 1/2 | 67,064 | 1/2 | 53,640 | 1/2 | 40,272 | 1/2 | 27,118 | 1/2 | 13,694 | 1/2 | 1,041  | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 80,209 | 3/4 | 66,785 | 3/4 | 53,361 | 3/4 | 40,001 | 3/4 | 26,838 | 3/4 | 13,414 | 3/4 | 878    | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 79,929 | 6   | 66,505 | 6   | 53,081 | 6   | 39,729 | 6   | 26,558 | 6   | 13,135 | 6   | 762    | 6   |        | 6   |        | 6   |        |
| 1/4 | 79,650 | 1/4 | 66,225 | 1/4 | 52,801 | 1/4 | 39,458 | 1/4 | 26,279 | 1/4 | 12,855 | 1/4 | 645    | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 79,370 | 1/2 | 65,946 | 1/2 | 52,522 | 1/2 | 39,186 | 1/2 | 25,999 | 1/2 | 12,575 | 1/2 | 529    | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 79,090 | 3/4 | 65,666 | 3/4 | 52,242 | 3/4 | 38,915 | 3/4 | 25,719 | 3/4 | 12,296 | 3/4 | 412    | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 78,811 | 7   | 65,386 | 7   | 51,962 | 7   | 38,643 | 7   | 25,440 | 7   | 12,016 | 7   | 342    | 7   |        | 7   |        | 7   |        |
| 1/4 | 78,531 | 1/4 | 65,107 | 1/4 | 51,683 | 1/4 | 38,372 | 1/4 | 25,160 | 1/4 | 11,736 | 1/4 | 272    | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 78,251 | 1/2 | 64,827 | 1/2 | 51,403 | 1/2 | 38,100 | 1/2 | 24,880 | 1/2 | 11,457 | 1/2 | 202    | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 77,972 | 3/4 | 64,547 | 3/4 | 51,123 | 3/4 | 37,829 | 3/4 | 24,601 | 3/4 | 11,177 | 3/4 | 133    | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 77,692 | 8   | 64,268 | 8   | 50,844 | 8   | 37,557 | 8   | 24,321 | 8   | 10,897 | 8   | 109    | 8   |        | 8   |        | 8   |        |
| 1/4 | 77,412 | 1/4 | 63,988 | 1/4 | 50,564 | 1/4 | 37,286 | 1/4 | 24,041 | 1/4 | 10,618 | 1/4 | 86     | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 77,133 | 1/2 | 63,708 | 1/2 | 50,284 | 1/2 | 37,015 | 1/2 | 23,762 | 1/2 | 10,338 | 1/2 | 63     | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 76,853 | 3/4 | 63,429 | 3/4 | 50,005 | 3/4 | 36,743 | 3/4 | 23,482 | 3/4 | 10,058 | 3/4 | 39     | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 76,573 | 9   | 63,149 | 9   | 49,725 | 9   | 36,472 | 9   | 23,202 | 9   | 9,779  | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 76,294 | 1/4 | 62,869 | 1/4 | 49,445 | 1/4 | 36,200 | 1/4 | 22,923 | 1/4 | 9,499  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 76,014 | 1/2 | 62,590 | 1/2 | 49,166 | 1/2 | 35,929 | 1/2 | 22,643 | 1/2 | 9,219  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 75,734 | 3/4 | 62,310 | 3/4 | 48,886 | 3/4 | 35,657 | 3/4 | 22,363 | 3/4 | 8,940  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 75,455 | 10  | 62,030 | 10  | 48,606 | 10  | 35,386 | 10  | 22,084 | 10  | 8,660  | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 75,175 | 1/4 | 61,751 | 1/4 | 48,326 | 1/4 | 35,114 | 1/4 | 21,804 | 1/4 | 8,381  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 74,895 | 1/2 | 61,471 | 1/2 | 48,047 | 1/2 | 34,843 | 1/2 | 21,524 | 1/2 | 8,101  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 74,616 | 3/4 | 61,191 | 3/4 | 47,767 | 3/4 | 34,571 | 3/4 | 21,245 | 3/4 | 7,822  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 74,336 | 11  | 60,912 | 11  | 47,487 | 11  | 34,300 | 11  | 20,965 | 11  | 7,543  | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 74,056 | 1/4 | 60,632 | 1/4 | 47,208 | 1/4 | 34,029 | 1/4 | 20,685 | 1/4 | 7,264  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 73,777 | 1/2 | 60,352 | 1/2 | 46,928 | 1/2 | 33,757 | 1/2 | 20,406 | 1/2 | 6,985  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 73,497 | 3/4 | 60,073 | 3/4 | 46,648 | 3/4 | 33,486 | 3/4 | 20,126 | 3/4 | 6,707  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/20/2018 CL  
CALCULATED: 02/20/2018 CL  
PRINTED: 02/20/2018 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2018

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



# BARGE "CBC 1400"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

| IN  | 0 FT. | IN  | 1 FT. | IN  | 2 FT.   | IN  | 3 FT.   | IN  | 4 FT.   | IN  | 5 FT.   | IN  | 6 FT.   | IN  | 7 FT.   | IN  | 8 FT.   | IN  | 9 FT.  |
|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|
| 0   | 0     | 0   | 0     | 0   | 0       | 0   | 161,381 | 0   | 149,424 | 0   | 137,468 | 0   | 125,511 | 0   | 113,555 | 0   | 101,598 | 0   | 89,642 |
| 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 1/4 | 161,131 | 1/4 | 149,175 | 1/4 | 137,219 | 1/4 | 125,262 | 1/4 | 113,306 | 1/4 | 101,349 | 1/4 | 89,393 |
| 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 170,306 | 1/2 | 160,882 | 1/2 | 148,926 | 1/2 | 136,970 | 1/2 | 125,013 | 1/2 | 113,057 | 1/2 | 101,100 | 1/2 | 89,144 |
| 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 170,286 | 3/4 | 160,633 | 3/4 | 148,677 | 3/4 | 136,720 | 3/4 | 124,764 | 3/4 | 112,808 | 3/4 | 100,851 | 3/4 | 88,895 |
| 1   | 1     | 1   | 1     | 1   | 170,265 | 1   | 160,384 | 1   | 148,428 | 1   | 136,471 | 1   | 124,515 | 1   | 112,559 | 1   | 100,602 | 1   | 88,646 |
| 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 170,203 | 1/4 | 160,135 | 1/4 | 148,179 | 1/4 | 136,222 | 1/4 | 124,266 | 1/4 | 112,309 | 1/4 | 100,353 | 1/4 | 88,397 |
| 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 170,140 | 1/2 | 159,886 | 1/2 | 147,930 | 1/2 | 135,973 | 1/2 | 124,017 | 1/2 | 112,060 | 1/2 | 100,104 | 1/2 | 88,147 |
| 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 170,078 | 3/4 | 159,637 | 3/4 | 147,680 | 3/4 | 135,724 | 3/4 | 123,768 | 3/4 | 111,811 | 3/4 | 99,855  | 3/4 | 87,898 |
| 2   | 2     | 2   | 2     | 2   | 170,016 | 2   | 159,388 | 2   | 147,431 | 2   | 135,475 | 2   | 123,519 | 2   | 111,562 | 2   | 99,606  | 2   | 87,649 |
| 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 169,912 | 1/4 | 159,139 | 1/4 | 147,182 | 1/4 | 135,226 | 1/4 | 123,269 | 1/4 | 111,313 | 1/4 | 99,357  | 1/4 | 87,400 |
| 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 169,808 | 1/2 | 158,890 | 1/2 | 146,933 | 1/2 | 134,977 | 1/2 | 123,020 | 1/2 | 111,064 | 1/2 | 99,108  | 1/2 | 87,151 |
| 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 169,704 | 3/4 | 158,641 | 3/4 | 146,684 | 3/4 | 134,728 | 3/4 | 122,771 | 3/4 | 110,815 | 3/4 | 98,858  | 3/4 | 86,902 |
| 3   | 3     | 3   | 3     | 3   | 169,601 | 3   | 158,391 | 3   | 146,435 | 3   | 134,479 | 3   | 122,522 | 3   | 110,566 | 3   | 98,609  | 3   | 86,653 |
| 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 169,455 | 1/4 | 158,142 | 1/4 | 146,186 | 1/4 | 134,230 | 1/4 | 122,273 | 1/4 | 110,317 | 1/4 | 98,360  | 1/4 | 86,404 |
| 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 169,310 | 1/2 | 157,893 | 1/2 | 145,937 | 1/2 | 133,980 | 1/2 | 122,024 | 1/2 | 110,068 | 1/2 | 98,111  | 1/2 | 86,155 |
| 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 169,165 | 3/4 | 157,644 | 3/4 | 145,688 | 3/4 | 133,731 | 3/4 | 121,775 | 3/4 | 109,818 | 3/4 | 97,862  | 3/4 | 85,906 |
| 4   | 4     | 4   | 4     | 4   | 169,019 | 4   | 157,395 | 4   | 145,439 | 4   | 133,482 | 4   | 121,526 | 4   | 109,569 | 4   | 97,613  | 4   | 85,657 |
| 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 168,833 | 1/4 | 157,146 | 1/4 | 145,190 | 1/4 | 133,233 | 1/4 | 121,277 | 1/4 | 109,320 | 1/4 | 97,364  | 1/4 | 85,407 |
| 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 168,646 | 1/2 | 156,897 | 1/2 | 144,940 | 1/2 | 132,984 | 1/2 | 121,028 | 1/2 | 109,071 | 1/2 | 97,115  | 1/2 | 85,158 |
| 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 168,459 | 3/4 | 156,648 | 3/4 | 144,691 | 3/4 | 132,735 | 3/4 | 120,779 | 3/4 | 108,822 | 3/4 | 96,866  | 3/4 | 84,909 |
| 5   | 5     | 5   | 5     | 5   | 168,272 | 5   | 156,399 | 5   | 144,442 | 5   | 132,486 | 5   | 120,529 | 5   | 108,573 | 5   | 96,617  | 5   | 84,660 |
| 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 168,044 | 1/4 | 156,150 | 1/4 | 144,193 | 1/4 | 132,237 | 1/4 | 120,280 | 1/4 | 108,324 | 1/4 | 96,368  | 1/4 | 84,411 |
| 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 167,815 | 1/2 | 155,901 | 1/2 | 143,944 | 1/2 | 131,988 | 1/2 | 120,031 | 1/2 | 108,075 | 1/2 | 96,118  | 1/2 | 84,162 |
| 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 167,587 | 3/4 | 155,651 | 3/4 | 143,695 | 3/4 | 131,739 | 3/4 | 119,782 | 3/4 | 107,826 | 3/4 | 95,869  | 3/4 | 83,913 |
| 6   | 6     | 6   | 6     | 6   | 167,359 | 6   | 155,402 | 6   | 143,446 | 6   | 131,489 | 6   | 119,533 | 6   | 107,577 | 6   | 95,620  | 6   | 83,664 |
| 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 167,110 | 1/4 | 155,153 | 1/4 | 143,197 | 1/4 | 131,240 | 1/4 | 119,284 | 1/4 | 107,328 | 1/4 | 95,371  | 1/4 | 83,415 |
| 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 166,861 | 1/2 | 154,904 | 1/2 | 142,948 | 1/2 | 130,991 | 1/2 | 119,035 | 1/2 | 107,078 | 1/2 | 95,122  | 1/2 | 83,166 |
| 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 166,611 | 3/4 | 154,655 | 3/4 | 142,699 | 3/4 | 130,742 | 3/4 | 118,786 | 3/4 | 106,829 | 3/4 | 94,873  | 3/4 | 82,917 |
| 7   | 7     | 7   | 7     | 7   | 166,362 | 7   | 154,406 | 7   | 142,450 | 7   | 130,493 | 7   | 118,537 | 7   | 106,580 | 7   | 94,624  | 7   | 82,667 |
| 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 166,113 | 1/4 | 154,157 | 1/4 | 142,200 | 1/4 | 130,244 | 1/4 | 118,288 | 1/4 | 106,331 | 1/4 | 94,375  | 1/4 | 82,418 |
| 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 165,864 | 1/2 | 153,908 | 1/2 | 141,951 | 1/2 | 129,995 | 1/2 | 118,039 | 1/2 | 106,082 | 1/2 | 94,126  | 1/2 | 82,169 |
| 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 165,615 | 3/4 | 153,659 | 3/4 | 141,702 | 3/4 | 129,746 | 3/4 | 117,789 | 3/4 | 105,833 | 3/4 | 93,877  | 3/4 | 81,920 |
| 8   | 8     | 8   | 8     | 8   | 165,366 | 8   | 153,410 | 8   | 141,453 | 8   | 129,497 | 8   | 117,540 | 8   | 105,584 | 8   | 93,628  | 8   | 81,671 |
| 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 165,117 | 1/4 | 153,161 | 1/4 | 141,204 | 1/4 | 129,248 | 1/4 | 117,291 | 1/4 | 105,335 | 1/4 | 93,378  | 1/4 | 81,422 |
| 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 164,868 | 1/2 | 152,911 | 1/2 | 140,955 | 1/2 | 128,999 | 1/2 | 117,042 | 1/2 | 105,086 | 1/2 | 93,129  | 1/2 | 81,173 |
| 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 164,619 | 3/4 | 152,662 | 3/4 | 140,706 | 3/4 | 128,749 | 3/4 | 116,793 | 3/4 | 104,837 | 3/4 | 92,880  | 3/4 | 80,924 |
| 9   | 9     | 9   | 9     | 9   | 164,370 | 9   | 152,413 | 9   | 140,457 | 9   | 128,500 | 9   | 116,544 | 9   | 104,588 | 9   | 92,631  | 9   | 80,675 |
| 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 164,121 | 1/4 | 152,164 | 1/4 | 140,208 | 1/4 | 128,251 | 1/4 | 116,295 | 1/4 | 104,338 | 1/4 | 92,382  | 1/4 | 80,426 |
| 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 163,871 | 1/2 | 151,915 | 1/2 | 139,959 | 1/2 | 128,002 | 1/2 | 116,046 | 1/2 | 104,089 | 1/2 | 92,133  | 1/2 | 80,177 |
| 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 163,622 | 3/4 | 151,666 | 3/4 | 139,710 | 3/4 | 127,753 | 3/4 | 115,797 | 3/4 | 103,840 | 3/4 | 91,884  | 3/4 | 79,927 |
| 10  | 10    | 10  | 10    | 10  | 163,373 | 10  | 151,417 | 10  | 139,460 | 10  | 127,504 | 10  | 115,548 | 10  | 103,591 | 10  | 91,635  | 10  | 79,678 |
| 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 163,124 | 1/4 | 151,168 | 1/4 | 139,211 | 1/4 | 127,255 | 1/4 | 115,299 | 1/4 | 103,342 | 1/4 | 91,386  | 1/4 | 79,429 |
| 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 162,875 | 1/2 | 150,919 | 1/2 | 138,962 | 1/2 | 127,006 | 1/2 | 115,049 | 1/2 | 103,093 | 1/2 | 91,137  | 1/2 | 79,180 |
| 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 162,626 | 3/4 | 150,670 | 3/4 | 138,713 | 3/4 | 126,757 | 3/4 | 114,800 | 3/4 | 102,844 | 3/4 | 90,887  | 3/4 | 78,931 |
| 11  | 11    | 11  | 11    | 11  | 162,377 | 11  | 150,420 | 11  | 138,464 | 11  | 126,508 | 11  | 114,551 | 11  | 102,595 | 11  | 90,638  | 11  | 78,682 |
| 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 162,128 | 1/4 | 150,171 | 1/4 | 138,215 | 1/4 | 126,259 | 1/4 | 114,302 | 1/4 | 102,346 | 1/4 | 90,389  | 1/4 | 78,433 |
| 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 161,879 | 1/2 | 149,922 | 1/2 | 137,966 | 1/2 | 126,009 | 1/2 | 114,053 | 1/2 | 102,097 | 1/2 | 90,140  | 1/2 | 78,184 |
| 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 161,630 | 3/4 | 149,673 | 3/4 | 137,717 | 3/4 | 125,760 | 3/4 | 113,804 | 3/4 | 101,848 | 3/4 | 89,891  | 3/4 | 77,935 |

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 ON CENTERLINE AND 30'-09" FORWARD OF AFT BULKHEAD

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



# BARGE "CBC 1400"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-09"

| 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   | 77,686 | 0   | 65,729 | 0   | 53,773 | 0   | 41,816 | 0   | 29,880 | 0   | 17,930 | 0   | 5,978  | 0   |        | 0   |        |    | 0      |
| 1/4 | 77,437 | 1/4 | 65,480 | 1/4 | 53,524 | 1/4 | 41,567 | 1/4 | 29,632 | 1/4 | 17,681 | 1/4 | 5,730  | 1/4 |        | 1/4 |        |    | 1/4    |
| 1/2 | 77,187 | 1/2 | 65,231 | 1/2 | 53,275 | 1/2 | 41,318 | 1/2 | 29,383 | 1/2 | 17,432 | 1/2 | 5,482  | 1/2 |        | 1/2 |        |    | 1/2    |
| 3/4 | 76,938 | 3/4 | 64,982 | 3/4 | 53,025 | 3/4 | 41,069 | 3/4 | 29,135 | 3/4 | 17,182 | 3/4 | 5,235  | 3/4 |        | 3/4 |        |    | 3/4    |
| 1   | 76,689 | 1   | 64,733 | 1   | 52,776 | 1   | 40,820 | 1   | 28,887 | 1   | 16,933 | 1   | 4,987  | 1   |        | 1   |        |    | 1      |
| 1/4 | 76,440 | 1/4 | 64,484 | 1/4 | 52,527 | 1/4 | 40,571 | 1/4 | 28,638 | 1/4 | 16,684 | 1/4 | 4,741  | 1/4 |        | 1/4 |        |    | 1/4    |
| 1/2 | 76,191 | 1/2 | 64,235 | 1/2 | 52,278 | 1/2 | 40,322 | 1/2 | 28,389 | 1/2 | 16,435 | 1/2 | 4,495  | 1/2 |        | 1/2 |        |    | 1/2    |
| 3/4 | 75,942 | 3/4 | 63,986 | 3/4 | 52,029 | 3/4 | 40,073 | 3/4 | 28,140 | 3/4 | 16,186 | 3/4 | 4,248  | 3/4 |        | 3/4 |        |    | 3/4    |
| 2   | 75,693 | 2   | 63,736 | 2   | 51,780 | 2   | 39,824 | 2   | 27,892 | 2   | 15,937 | 2   | 4,002  | 2   |        | 2   |        |    | 2      |
| 1/4 | 75,444 | 1/4 | 63,487 | 1/4 | 51,531 | 1/4 | 39,575 | 1/4 | 27,643 | 1/4 | 15,688 | 1/4 | 3,758  | 1/4 |        | 1/4 |        |    | 1/4    |
| 1/2 | 75,195 | 1/2 | 63,238 | 1/2 | 51,282 | 1/2 | 39,325 | 1/2 | 27,394 | 1/2 | 15,439 | 1/2 | 3,514  | 1/2 |        | 1/2 |        |    | 1/2    |
| 3/4 | 74,946 | 3/4 | 62,989 | 3/4 | 51,033 | 3/4 | 39,076 | 3/4 | 27,145 | 3/4 | 15,190 | 3/4 | 3,270  | 3/4 |        | 3/4 |        |    | 3/4    |
| 3   | 74,697 | 3   | 62,740 | 3   | 50,784 | 3   | 38,827 | 3   | 26,897 | 3   | 14,941 | 3   | 3,026  | 3   |        | 3   |        |    | 3      |
| 1/4 | 74,447 | 1/4 | 62,491 | 1/4 | 50,535 | 1/4 | 38,578 | 1/4 | 26,648 | 1/4 | 14,692 | 1/4 | 2,798  | 1/4 |        | 1/4 |        |    | 1/4    |
| 1/2 | 74,198 | 1/2 | 62,242 | 1/2 | 50,285 | 1/2 | 38,329 | 1/2 | 26,399 | 1/2 | 14,443 | 1/2 | 2,570  | 1/2 |        | 1/2 |        |    | 1/2    |
| 3/4 | 73,949 | 3/4 | 61,993 | 3/4 | 50,036 | 3/4 | 38,080 | 3/4 | 26,149 | 3/4 | 14,193 | 3/4 | 2,343  | 3/4 |        | 3/4 |        |    | 3/4    |
| 4   | 73,700 | 4   | 61,744 | 4   | 49,787 | 4   | 37,831 | 4   | 25,900 | 4   | 13,944 | 4   | 2,115  | 4   |        | 4   |        |    | 4      |
| 1/4 | 73,451 | 1/4 | 61,495 | 1/4 | 49,538 | 1/4 | 37,582 | 1/4 | 25,651 | 1/4 | 13,695 | 1/4 | 1,928  | 1/4 |        | 1/4 |        |    | 1/4    |
| 1/2 | 73,202 | 1/2 | 61,246 | 1/2 | 49,289 | 1/2 | 37,333 | 1/2 | 25,402 | 1/2 | 13,446 | 1/2 | 1,741  | 1/2 |        | 1/2 |        |    | 1/2    |
| 3/4 | 72,953 | 3/4 | 60,996 | 3/4 | 49,040 | 3/4 | 37,084 | 3/4 | 25,153 | 3/4 | 13,197 | 3/4 | 1,555  | 3/4 |        | 3/4 |        |    | 3/4    |
| 5   | 72,704 | 5   | 60,747 | 5   | 48,791 | 5   | 36,835 | 5   | 24,904 | 5   | 12,948 | 5   | 1,368  | 5   |        | 5   |        |    | 5      |
| 1/4 | 72,455 | 1/4 | 60,498 | 1/4 | 48,542 | 1/4 | 36,586 | 1/4 | 24,655 | 1/4 | 12,699 | 1/4 | 1,222  | 1/4 |        | 1/4 |        |    | 1/4    |
| 1/2 | 72,206 | 1/2 | 60,249 | 1/2 | 48,293 | 1/2 | 36,338 | 1/2 | 24,406 | 1/2 | 12,450 | 1/2 | 1,077  | 1/2 |        | 1/2 |        |    | 1/2    |
| 3/4 | 71,956 | 3/4 | 60,000 | 3/4 | 48,044 | 3/4 | 36,089 | 3/4 | 24,157 | 3/4 | 12,201 | 3/4 | 932    | 3/4 |        | 3/4 |        |    | 3/4    |
| 6   | 71,707 | 6   | 59,751 | 6   | 47,795 | 6   | 35,841 | 6   | 23,908 | 6   | 11,952 | 6   | 787    | 6   |        | 6   |        |    | 6      |
| 1/4 | 71,458 | 1/4 | 59,502 | 1/4 | 47,545 | 1/4 | 35,593 | 1/4 | 23,659 | 1/4 | 11,703 | 1/4 | 683    | 1/4 |        | 1/4 |        |    | 1/4    |
| 1/2 | 71,209 | 1/2 | 59,253 | 1/2 | 47,296 | 1/2 | 35,344 | 1/2 | 23,410 | 1/2 | 11,454 | 1/2 | 579    | 1/2 |        | 1/2 |        |    | 1/2    |
| 3/4 | 70,960 | 3/4 | 59,004 | 3/4 | 47,047 | 3/4 | 35,096 | 3/4 | 23,160 | 3/4 | 11,204 | 3/4 | 475    | 3/4 |        | 3/4 |        |    | 3/4    |
| 7   | 70,711 | 7   | 58,755 | 7   | 46,798 | 7   | 34,848 | 7   | 22,911 | 7   | 10,955 | 7   | 371    | 7   |        | 7   |        |    | 7      |
| 1/4 | 70,462 | 1/4 | 58,506 | 1/4 | 46,549 | 1/4 | 34,599 | 1/4 | 22,662 | 1/4 | 10,706 | 1/4 | 309    | 1/4 |        | 1/4 |        |    | 1/4    |
| 1/2 | 70,213 | 1/2 | 58,256 | 1/2 | 46,300 | 1/2 | 34,351 | 1/2 | 22,413 | 1/2 | 10,457 | 1/2 | 247    | 1/2 |        | 1/2 |        |    | 1/2    |
| 3/4 | 69,964 | 3/4 | 58,007 | 3/4 | 46,051 | 3/4 | 34,102 | 3/4 | 22,164 | 3/4 | 10,208 | 3/4 | 185    | 3/4 |        | 3/4 |        |    | 3/4    |
| 8   | 69,715 | 8   | 57,758 | 8   | 45,802 | 8   | 33,854 | 8   | 21,915 | 8   | 9,959  | 8   | 122    | 8   |        | 8   |        |    | 8      |
| 1/4 | 69,466 | 1/4 | 57,509 | 1/4 | 45,553 | 1/4 | 33,606 | 1/4 | 21,666 | 1/4 | 9,710  | 1/4 | 102    | 1/4 |        | 1/4 |        |    | 1/4    |
| 1/2 | 69,216 | 1/2 | 57,260 | 1/2 | 45,304 | 1/2 | 33,357 | 1/2 | 21,417 | 1/2 | 9,461  | 1/2 | 81     | 1/2 |        | 1/2 |        |    | 1/2    |
| 3/4 | 68,967 | 3/4 | 57,011 | 3/4 | 45,055 | 3/4 | 33,109 | 3/4 | 21,168 | 3/4 | 9,212  | 3/4 | 60     | 3/4 |        | 3/4 |        |    | 3/4    |
| 9   | 68,718 | 9   | 56,762 | 9   | 44,805 | 9   | 32,861 | 9   | 20,919 | 9   | 8,963  | 9   | 39     | 9   |        | 9   |        |    | 9      |
| 1/4 | 68,469 | 1/4 | 56,513 | 1/4 | 44,556 | 1/4 | 32,612 | 1/4 | 20,670 | 1/4 | 8,714  | 1/4 |        | 1/4 |        | 1/4 |        |    | 1/4    |
| 1/2 | 68,220 | 1/2 | 56,264 | 1/2 | 44,307 | 1/2 | 32,364 | 1/2 | 20,421 | 1/2 | 8,465  | 1/2 |        | 1/2 |        | 1/2 |        |    | 1/2    |
| 3/4 | 67,971 | 3/4 | 56,015 | 3/4 | 44,058 | 3/4 | 32,115 | 3/4 | 20,171 | 3/4 | 8,216  | 3/4 |        | 3/4 |        | 3/4 |        |    | 3/4    |
| 10  | 67,722 | 10  | 55,766 | 10  | 43,809 | 10  | 31,867 | 10  | 19,922 | 10  | 7,966  | 10  |        | 10  |        | 10  |        |    | 10     |
| 1/4 | 67,473 | 1/4 | 55,516 | 1/4 | 43,560 | 1/4 | 31,619 | 1/4 | 19,673 | 1/4 | 7,718  | 1/4 |        | 1/4 |        | 1/4 |        |    | 1/4    |
| 1/2 | 67,224 | 1/2 | 55,267 | 1/2 | 43,311 | 1/2 | 31,370 | 1/2 | 19,424 | 1/2 | 7,469  | 1/2 |        | 1/2 |        | 1/2 |        |    | 1/2    |
| 3/4 | 66,975 | 3/4 | 55,018 | 3/4 | 43,062 | 3/4 | 31,122 | 3/4 | 19,175 | 3/4 | 7,220  | 3/4 |        | 3/4 |        | 3/4 |        |    | 3/4    |
| 11  | 66,726 | 11  | 54,769 | 11  | 42,813 | 11  | 30,874 | 11  | 18,926 | 11  | 6,971  | 11  |        | 11  |        | 11  |        |    | 11     |
| 1/4 | 66,476 | 1/4 | 54,520 | 1/4 | 42,564 | 1/4 | 30,625 | 1/4 | 18,677 | 1/4 | 6,723  | 1/4 |        | 1/4 |        | 1/4 |        |    | 1/4    |
| 1/2 | 66,227 | 1/2 | 54,271 | 1/2 | 42,315 | 1/2 | 30,377 | 1/2 | 18,428 | 1/2 | 6,474  | 1/2 |        | 1/2 |        | 1/2 |        |    | 1/2    |
| 3/4 | 65,978 | 3/4 | 54,022 | 3/4 | 42,065 | 3/4 | 30,128 | 3/4 | 18,179 | 3/4 | 6,226  | 3/4 |        | 3/4 |        | 3/4 |        |    | 3/4    |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/20/2018 CL  
CALCULATED: 02/20/2018 CL  
PRINTED: 02/20/2018 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2018

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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