



# BARGE "CBC 1370"

## INNAGE TRIM TABLE

|          | 1 FT.      |              | 2 FT.      |              | 3 FT.      |              | 4 FT.      |              | 5 FT.      |              | 6 FT.      |              |
|----------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
|          | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> |
| 1 CENTER | 00-0/8     | - 00-0/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     | 00-1/4     | - 00-1/4     | 00-1/4     | - 00-1/4     |
| 2 CENTER | - 00-0/8   | 00-0/8       | - 00-0/8   | 00-0/8       | - 00-0/8   | 00-0/8       | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       |
| 3 CENTER | 00-1/4     | - 00-1/4     | 00-1/2     | - 00-1/2     | 00-3/4     | - 00-3/4     | 01-0/8     | - 01-0/8     | 01-1/4     | - 01-1/4     | 01-4/8     | - 01-4/8     |

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 161'-09"

December 5, 2013

**PRECISION MEASUREMENT  
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# BARGE "CBC 1370"

# 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/2"

| IN  | 0 FT. | IN  | 1 FT.  | IN  | 2 FT.  | IN  | 3 FT.  | IN  | 4 FT.  | IN  | 5 FT.  | IN  | 6 FT.  | IN  | 7 FT.  | IN  | 8 FT.  | IN  | 9 FT.   |
|-----|-------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|---------|
| 0   | 39    | 0   | 8,091  | 0   | 18,880 | 0   | 29,518 | 0   | 40,185 | 0   | 50,946 | 0   | 61,706 | 0   | 72,444 | 0   | 83,183 | 0   | 93,947  |
| 1/4 | 58    | 1/4 | 8,316  | 1/4 | 19,104 | 1/4 | 29,736 | 1/4 | 40,409 | 1/4 | 51,170 | 1/4 | 61,931 | 1/4 | 72,667 | 1/4 | 83,407 | 1/4 | 94,171  |
| 1/2 | 77    | 1/2 | 8,541  | 1/2 | 19,329 | 1/2 | 29,954 | 1/2 | 40,634 | 1/2 | 51,394 | 1/2 | 62,155 | 1/2 | 72,889 | 1/2 | 83,632 | 1/2 | 94,395  |
| 3/4 | 96    | 3/4 | 8,765  | 3/4 | 19,554 | 3/4 | 30,173 | 3/4 | 40,858 | 3/4 | 51,618 | 3/4 | 62,379 | 3/4 | 73,112 | 3/4 | 83,856 | 3/4 | 94,620  |
| 1   | 114   | 1   | 8,990  | 1   | 19,779 | 1   | 30,391 | 1   | 41,082 | 1   | 51,843 | 1   | 62,603 | 1   | 73,335 | 1   | 84,080 | 1   | 94,844  |
| 1/4 | 170   | 1/4 | 9,215  | 1/4 | 20,003 | 1/4 | 30,609 | 1/4 | 41,306 | 1/4 | 52,067 | 1/4 | 62,827 | 1/4 | 73,558 | 1/4 | 84,304 | 1/4 | 95,068  |
| 1/2 | 227   | 1/2 | 9,440  | 1/2 | 20,228 | 1/2 | 30,828 | 1/2 | 41,530 | 1/2 | 52,291 | 1/2 | 63,051 | 1/2 | 73,781 | 1/2 | 84,529 | 1/2 | 95,292  |
| 3/4 | 283   | 3/4 | 9,664  | 3/4 | 20,453 | 3/4 | 31,046 | 3/4 | 41,754 | 3/4 | 52,515 | 3/4 | 63,276 | 3/4 | 74,004 | 3/4 | 84,753 | 3/4 | 95,517  |
| 2   | 339   | 2   | 9,889  | 2   | 20,678 | 2   | 31,265 | 2   | 41,979 | 2   | 52,739 | 2   | 63,500 | 2   | 74,226 | 2   | 84,977 | 2   | 95,741  |
| 1/4 | 433   | 1/4 | 10,114 | 1/4 | 20,902 | 1/4 | 31,483 | 1/4 | 42,203 | 1/4 | 52,963 | 1/4 | 63,724 | 1/4 | 74,449 | 1/4 | 85,201 | 1/4 | 95,965  |
| 1/2 | 526   | 1/2 | 10,339 | 1/2 | 21,127 | 1/2 | 31,701 | 1/2 | 42,427 | 1/2 | 53,188 | 1/2 | 63,948 | 1/2 | 74,672 | 1/2 | 85,425 | 1/2 | 96,189  |
| 3/4 | 620   | 3/4 | 10,563 | 3/4 | 21,352 | 3/4 | 31,920 | 3/4 | 42,651 | 3/4 | 53,412 | 3/4 | 64,172 | 3/4 | 74,895 | 3/4 | 85,650 | 3/4 | 96,414  |
| 3   | 714   | 3   | 10,788 | 3   | 21,577 | 3   | 32,138 | 3   | 42,875 | 3   | 53,636 | 3   | 64,397 | 3   | 75,118 | 3   | 85,874 | 3   | 96,638  |
| 1/4 | 845   | 1/4 | 11,013 | 1/4 | 21,801 | 1/4 | 32,356 | 1/4 | 43,100 | 1/4 | 53,860 | 1/4 | 64,621 | 1/4 | 75,341 | 1/4 | 86,098 | 1/4 | 96,862  |
| 1/2 | 976   | 1/2 | 11,238 | 1/2 | 22,026 | 1/2 | 32,575 | 1/2 | 43,324 | 1/2 | 54,084 | 1/2 | 64,845 | 1/2 | 75,563 | 1/2 | 86,322 | 1/2 | 97,086  |
| 3/4 | 1,107 | 3/4 | 11,462 | 3/4 | 22,251 | 3/4 | 32,793 | 3/4 | 43,548 | 3/4 | 54,309 | 3/4 | 65,069 | 3/4 | 75,786 | 3/4 | 86,547 | 3/4 | 97,311  |
| 4   | 1,238 | 4   | 11,687 | 4   | 22,476 | 4   | 33,012 | 4   | 43,772 | 4   | 54,533 | 4   | 65,293 | 4   | 76,009 | 4   | 86,771 | 4   | 97,535  |
| 1/4 | 1,406 | 1/4 | 11,912 | 1/4 | 22,700 | 1/4 | 33,236 | 1/4 | 43,996 | 1/4 | 54,757 | 1/4 | 65,517 | 1/4 | 76,233 | 1/4 | 86,995 | 1/4 | 97,759  |
| 1/2 | 1,575 | 1/2 | 12,137 | 1/2 | 22,925 | 1/2 | 33,460 | 1/2 | 44,220 | 1/2 | 54,981 | 1/2 | 65,742 | 1/2 | 76,456 | 1/2 | 87,219 | 1/2 | 97,983  |
| 3/4 | 1,743 | 3/4 | 12,361 | 3/4 | 23,150 | 3/4 | 33,684 | 3/4 | 44,445 | 3/4 | 55,205 | 3/4 | 65,966 | 3/4 | 76,680 | 3/4 | 87,444 | 3/4 | 98,208  |
| 5   | 1,912 | 5   | 12,586 | 5   | 23,375 | 5   | 33,908 | 5   | 44,669 | 5   | 55,429 | 5   | 66,190 | 5   | 76,903 | 5   | 87,668 | 5   | 98,432  |
| 1/4 | 2,117 | 1/4 | 12,811 | 1/4 | 23,599 | 1/4 | 34,132 | 1/4 | 44,893 | 1/4 | 55,654 | 1/4 | 66,414 | 1/4 | 77,127 | 1/4 | 87,892 | 1/4 | 98,656  |
| 1/2 | 2,323 | 1/2 | 13,036 | 1/2 | 23,824 | 1/2 | 34,357 | 1/2 | 45,117 | 1/2 | 55,878 | 1/2 | 66,638 | 1/2 | 77,352 | 1/2 | 88,116 | 1/2 | 98,880  |
| 3/4 | 2,528 | 3/4 | 13,261 | 3/4 | 24,049 | 3/4 | 34,581 | 3/4 | 45,341 | 3/4 | 56,102 | 3/4 | 66,863 | 3/4 | 77,576 | 3/4 | 88,341 | 3/4 | 99,105  |
| 6   | 2,734 | 6   | 13,485 | 6   | 24,274 | 6   | 34,805 | 6   | 45,566 | 6   | 56,326 | 6   | 67,087 | 6   | 77,800 | 6   | 88,565 | 6   | 99,329  |
| 1/4 | 2,954 | 1/4 | 13,710 | 1/4 | 24,493 | 1/4 | 35,029 | 1/4 | 45,790 | 1/4 | 56,550 | 1/4 | 67,310 | 1/4 | 78,025 | 1/4 | 88,789 | 1/4 | 99,553  |
| 1/2 | 3,174 | 1/2 | 13,935 | 1/2 | 24,711 | 1/2 | 35,253 | 1/2 | 46,014 | 1/2 | 56,774 | 1/2 | 67,534 | 1/2 | 78,249 | 1/2 | 89,013 | 1/2 | 99,777  |
| 3/4 | 3,395 | 3/4 | 14,160 | 3/4 | 24,930 | 3/4 | 35,477 | 3/4 | 46,238 | 3/4 | 56,999 | 3/4 | 67,757 | 3/4 | 78,473 | 3/4 | 89,238 | 3/4 | 100,002 |
| 7   | 3,615 | 7   | 14,384 | 7   | 25,149 | 7   | 35,702 | 7   | 46,462 | 7   | 57,223 | 7   | 67,981 | 7   | 78,697 | 7   | 89,462 | 7   | 100,226 |
| 1/4 | 3,837 | 1/4 | 14,609 | 1/4 | 25,368 | 1/4 | 35,926 | 1/4 | 46,686 | 1/4 | 57,447 | 1/4 | 68,205 | 1/4 | 78,922 | 1/4 | 89,686 | 1/4 | 100,450 |
| 1/2 | 4,059 | 1/2 | 14,834 | 1/2 | 25,586 | 1/2 | 36,150 | 1/2 | 46,911 | 1/2 | 57,671 | 1/2 | 68,428 | 1/2 | 79,146 | 1/2 | 89,910 | 1/2 | 100,674 |
| 3/4 | 4,282 | 3/4 | 15,059 | 3/4 | 25,805 | 3/4 | 36,374 | 3/4 | 47,135 | 3/4 | 57,895 | 3/4 | 68,652 | 3/4 | 79,370 | 3/4 | 90,135 | 3/4 | 100,899 |
| 8   | 4,504 | 8   | 15,283 | 8   | 26,024 | 8   | 36,598 | 8   | 47,359 | 8   | 58,120 | 8   | 68,875 | 8   | 79,595 | 8   | 90,359 | 8   | 101,123 |
| 1/4 | 4,727 | 1/4 | 15,508 | 1/4 | 26,242 | 1/4 | 36,823 | 1/4 | 47,583 | 1/4 | 58,344 | 1/4 | 69,099 | 1/4 | 79,819 | 1/4 | 90,583 | 1/4 | 101,347 |
| 1/2 | 4,951 | 1/2 | 15,733 | 1/2 | 26,461 | 1/2 | 37,047 | 1/2 | 47,807 | 1/2 | 58,568 | 1/2 | 69,323 | 1/2 | 80,043 | 1/2 | 90,807 | 1/2 | 101,571 |
| 3/4 | 5,174 | 3/4 | 15,958 | 3/4 | 26,679 | 3/4 | 37,271 | 3/4 | 48,032 | 3/4 | 58,792 | 3/4 | 69,546 | 3/4 | 80,267 | 3/4 | 91,032 | 3/4 | 101,796 |
| 9   | 5,397 | 9   | 16,182 | 9   | 26,897 | 9   | 37,495 | 9   | 48,256 | 9   | 59,016 | 9   | 69,770 | 9   | 80,492 | 9   | 91,256 | 9   | 102,020 |
| 1/4 | 5,621 | 1/4 | 16,407 | 1/4 | 27,116 | 1/4 | 37,719 | 1/4 | 48,480 | 1/4 | 59,240 | 1/4 | 69,993 | 1/4 | 80,716 | 1/4 | 91,480 | 1/4 | 102,244 |
| 1/2 | 5,846 | 1/2 | 16,632 | 1/2 | 27,334 | 1/2 | 37,943 | 1/2 | 48,704 | 1/2 | 59,465 | 1/2 | 70,215 | 1/2 | 80,940 | 1/2 | 91,704 | 1/2 | 102,468 |
| 3/4 | 6,070 | 3/4 | 16,857 | 3/4 | 27,552 | 3/4 | 38,168 | 3/4 | 48,928 | 3/4 | 59,689 | 3/4 | 70,438 | 3/4 | 81,164 | 3/4 | 91,929 | 3/4 | 102,693 |
| 10  | 6,294 | 10  | 17,081 | 10  | 27,771 | 10  | 38,392 | 10  | 49,152 | 10  | 59,913 | 10  | 70,661 | 10  | 81,389 | 10  | 92,153 | 10  | 102,917 |
| 1/4 | 6,518 | 1/4 | 17,306 | 1/4 | 27,989 | 1/4 | 38,616 | 1/4 | 49,377 | 1/4 | 60,137 | 1/4 | 70,884 | 1/4 | 81,613 | 1/4 | 92,377 | 1/4 | 103,141 |
| 1/2 | 6,743 | 1/2 | 17,531 | 1/2 | 28,207 | 1/2 | 38,840 | 1/2 | 49,601 | 1/2 | 60,361 | 1/2 | 71,107 | 1/2 | 81,837 | 1/2 | 92,601 | 1/2 | 103,365 |
| 3/4 | 6,968 | 3/4 | 17,756 | 3/4 | 28,426 | 3/4 | 39,064 | 3/4 | 49,825 | 3/4 | 60,586 | 3/4 | 71,330 | 3/4 | 82,062 | 3/4 | 92,826 | 3/4 | 103,590 |
| 11  | 7,192 | 11  | 17,980 | 11  | 28,644 | 11  | 39,289 | 11  | 50,049 | 11  | 60,810 | 11  | 71,552 | 11  | 82,286 | 11  | 93,050 | 11  | 103,814 |
| 1/4 | 7,417 | 1/4 | 18,205 | 1/4 | 28,863 | 1/4 | 39,513 | 1/4 | 50,273 | 1/4 | 61,034 | 1/4 | 71,775 | 1/4 | 82,510 | 1/4 | 93,274 | 1/4 | 104,038 |
| 1/2 | 7,642 | 1/2 | 18,430 | 1/2 | 29,081 | 1/2 | 39,737 | 1/2 | 50,497 | 1/2 | 61,258 | 1/2 | 71,998 | 1/2 | 82,734 | 1/2 | 93,498 | 1/2 | 104,262 |
| 3/4 | 7,866 | 3/4 | 18,655 | 3/4 | 29,299 | 3/4 | 39,961 | 3/4 | 50,722 | 3/4 | 61,482 | 3/4 | 72,221 | 3/4 | 82,959 | 3/4 | 93,723 | 3/4 | 104,487 |

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 26'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
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# BARGE "CBC 1370"

## 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/2"

| IN  | 10 FT.  | IN  | 11 FT.  | IN  | 12 FT.  | IN  | 13 FT.  | IN  | 14 FT.  | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 104,711 | 0   | 114,811 | 0   | 124,271 | 0   | 133,688 | 0   | 143,089 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 104,935 | 1/4 | 115,008 | 1/4 | 124,467 | 1/4 | 133,885 | 1/4 | 143,284 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 105,159 | 1/2 | 115,206 | 1/2 | 124,664 | 1/2 | 134,081 | 1/2 | 143,478 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 105,383 | 3/4 | 115,403 | 3/4 | 124,860 | 3/4 | 134,278 | 3/4 | 143,673 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 105,607 | 1   | 115,600 | 1   | 125,057 | 1   | 134,475 | 1   | 143,867 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 105,831 | 1/4 | 115,797 | 1/4 | 125,254 | 1/4 | 134,671 | 1/4 | 144,062 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 106,055 | 1/2 | 115,994 | 1/2 | 125,450 | 1/2 | 134,868 | 1/2 | 144,256 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 106,279 | 3/4 | 116,191 | 3/4 | 125,647 | 3/4 | 135,064 | 3/4 | 144,451 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 106,503 | 2   | 116,388 | 2   | 125,843 | 2   | 135,261 | 2   | 144,645 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 106,727 | 1/4 | 116,585 | 1/4 | 126,040 | 1/4 | 135,457 | 1/4 | 144,849 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 106,951 | 1/2 | 116,782 | 1/2 | 126,236 | 1/2 | 135,654 | 1/2 | 145,052 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 107,175 | 3/4 | 116,979 | 3/4 | 126,433 | 3/4 | 135,850 | 3/4 | 145,255 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 107,399 | 3   | 117,176 | 3   | 126,629 | 3   | 136,047 | 3   | 145,459 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 107,623 | 1/4 | 117,373 | 1/4 | 126,826 | 1/4 | 136,243 | 1/4 | 145,625 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 107,847 | 1/2 | 117,570 | 1/2 | 127,023 | 1/2 | 136,440 | 1/2 | 145,791 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 108,071 | 3/4 | 117,767 | 3/4 | 127,219 | 3/4 | 136,637 | 3/4 | 145,957 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 108,295 | 4   | 117,965 | 4   | 127,416 | 4   | 136,833 | 4   | 146,122 | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 108,519 | 1/4 | 118,162 | 1/4 | 127,612 | 1/4 | 137,030 | 1/4 | 146,251 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 108,743 | 1/2 | 118,359 | 1/2 | 127,809 | 1/2 | 137,226 | 1/2 | 146,379 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 108,967 | 3/4 | 118,556 | 3/4 | 128,005 | 3/4 | 137,423 | 3/4 | 146,508 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 109,191 | 5   | 118,753 | 5   | 128,202 | 5   | 137,619 | 5   | 146,636 | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 109,415 | 1/4 | 118,950 | 1/4 | 128,398 | 1/4 | 137,816 | 1/4 | 146,727 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 109,639 | 1/2 | 119,147 | 1/2 | 128,595 | 1/2 | 138,012 | 1/2 | 146,818 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 109,863 | 3/4 | 119,344 | 3/4 | 128,791 | 3/4 | 138,209 | 3/4 | 146,909 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 110,087 | 6   | 119,541 | 6   | 128,988 | 6   | 138,405 | 6   | 147,000 | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 110,284 | 1/4 | 119,738 | 1/4 | 129,184 | 1/4 | 138,602 | 1/4 | 147,054 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 110,481 | 1/2 | 119,935 | 1/2 | 129,380 | 1/2 | 138,799 | 1/2 | 147,107 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 110,677 | 3/4 | 120,132 | 3/4 | 129,576 | 3/4 | 138,995 | 3/4 | 147,161 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 110,874 | 7   | 120,329 | 7   | 129,771 | 7   | 139,192 | 7   | 147,214 | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 111,071 | 1/4 | 120,526 | 1/4 | 129,967 | 1/4 | 139,388 | 1/4 | 147,230 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 111,268 | 1/2 | 120,724 | 1/2 | 130,163 | 1/2 | 139,585 | 1/2 | 147,247 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 111,465 | 3/4 | 120,921 | 3/4 | 130,359 | 3/4 | 139,781 | 3/4 | 147,263 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 111,662 | 8   | 121,118 | 8   | 130,555 | 8   | 139,978 | 8   | 147,279 | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 111,859 | 1/4 | 121,315 | 1/4 | 130,751 | 1/4 | 140,172 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 112,055 | 1/2 | 121,512 | 1/2 | 130,946 | 1/2 | 140,367 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 112,252 | 3/4 | 121,709 | 3/4 | 131,142 | 3/4 | 140,561 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 112,449 | 9   | 121,906 | 9   | 131,338 | 9   | 140,756 | 9   |         | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 112,646 | 1/4 | 122,103 | 1/4 | 131,534 | 1/4 | 140,950 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 112,843 | 1/2 | 122,300 | 1/2 | 131,730 | 1/2 | 141,145 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 113,040 | 3/4 | 122,497 | 3/4 | 131,926 | 3/4 | 141,339 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 113,237 | 10  | 122,694 | 10  | 132,122 | 10  | 141,534 | 10  |         | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 113,433 | 1/4 | 122,891 | 1/4 | 132,317 | 1/4 | 141,728 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 113,630 | 1/2 | 123,088 | 1/2 | 132,513 | 1/2 | 141,923 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 113,827 | 3/4 | 123,285 | 3/4 | 132,709 | 3/4 | 142,117 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 114,024 | 11  | 123,483 | 11  | 132,905 | 11  | 142,312 | 11  |         | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 114,221 | 1/4 | 123,680 | 1/4 | 133,101 | 1/4 | 142,506 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 114,418 | 1/2 | 123,877 | 1/2 | 133,297 | 1/2 | 142,701 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 114,615 | 3/4 | 124,074 | 3/4 | 133,492 | 3/4 | 142,895 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/05/2013 SW  
CALCULATED: 12/06/2013 CL  
PRINTED: 12/07/2013 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2013

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



# BARGE "CBC 1370"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/4"

| IN  | 0 FT. | IN  | 1 FT.  | IN  | 2 FT.  | IN  | 3 FT.  | IN  | 4 FT.  | IN  | 5 FT.  | IN  | 6 FT.  | IN  | 7 FT.  | IN  | 8 FT.   | IN  | 9 FT.   |
|-----|-------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|---------|-----|---------|
| 0   | 39    | 0   | 9,061  | 0   | 21,149 | 0   | 33,090 | 0   | 45,031 | 0   | 57,119 | 0   | 69,207 | 0   | 81,296 | 0   | 93,384  | 0   | 105,470 |
| 1/4 | 60    | 1/4 | 9,313  | 1/4 | 21,401 | 1/4 | 33,334 | 1/4 | 45,283 | 1/4 | 57,371 | 1/4 | 69,459 | 1/4 | 81,548 | 1/4 | 93,636  | 1/4 | 105,722 |
| 1/2 | 81    | 1/2 | 9,565  | 1/2 | 21,653 | 1/2 | 33,579 | 1/2 | 45,535 | 1/2 | 57,623 | 1/2 | 69,711 | 1/2 | 81,799 | 1/2 | 93,888  | 1/2 | 105,974 |
| 3/4 | 102   | 3/4 | 9,817  | 3/4 | 21,904 | 3/4 | 33,823 | 3/4 | 45,787 | 3/4 | 57,875 | 3/4 | 69,963 | 3/4 | 82,051 | 3/4 | 94,139  | 3/4 | 106,225 |
| 1   | 123   | 1   | 10,068 | 1   | 22,156 | 1   | 34,067 | 1   | 46,038 | 1   | 58,127 | 1   | 70,215 | 1   | 82,303 | 1   | 94,391  | 1   | 106,477 |
| 1/4 | 186   | 1/4 | 10,320 | 1/4 | 22,408 | 1/4 | 34,312 | 1/4 | 46,290 | 1/4 | 58,378 | 1/4 | 70,467 | 1/4 | 82,555 | 1/4 | 94,643  | 1/4 | 106,729 |
| 1/2 | 249   | 1/2 | 10,572 | 1/2 | 22,660 | 1/2 | 34,556 | 1/2 | 46,542 | 1/2 | 58,630 | 1/2 | 70,718 | 1/2 | 82,807 | 1/2 | 94,895  | 1/2 | 106,981 |
| 3/4 | 312   | 3/4 | 10,824 | 3/4 | 22,912 | 3/4 | 34,801 | 3/4 | 46,794 | 3/4 | 58,882 | 3/4 | 70,970 | 3/4 | 83,059 | 3/4 | 95,146  | 3/4 | 107,233 |
| 2   | 375   | 2   | 11,076 | 2   | 23,164 | 2   | 35,045 | 2   | 47,046 | 2   | 59,134 | 2   | 71,222 | 2   | 83,310 | 2   | 95,398  | 2   | 107,484 |
| 1/4 | 480   | 1/4 | 11,328 | 1/4 | 23,415 | 1/4 | 35,290 | 1/4 | 47,298 | 1/4 | 59,386 | 1/4 | 71,474 | 1/4 | 83,562 | 1/4 | 95,650  | 1/4 | 107,736 |
| 1/2 | 585   | 1/2 | 11,579 | 1/2 | 23,667 | 1/2 | 35,534 | 1/2 | 47,549 | 1/2 | 59,638 | 1/2 | 71,726 | 1/2 | 83,814 | 1/2 | 95,902  | 1/2 | 107,988 |
| 3/4 | 690   | 3/4 | 11,831 | 3/4 | 23,919 | 3/4 | 35,778 | 3/4 | 47,801 | 3/4 | 59,889 | 3/4 | 71,978 | 3/4 | 84,066 | 3/4 | 96,154  | 3/4 | 108,240 |
| 3   | 795   | 3   | 12,083 | 3   | 24,171 | 3   | 36,023 | 3   | 48,053 | 3   | 60,141 | 3   | 72,230 | 3   | 84,318 | 3   | 96,405  | 3   | 108,492 |
| 1/4 | 942   | 1/4 | 12,335 | 1/4 | 24,423 | 1/4 | 36,267 | 1/4 | 48,305 | 1/4 | 60,393 | 1/4 | 72,481 | 1/4 | 84,570 | 1/4 | 96,657  | 1/4 | 108,743 |
| 1/2 | 1,089 | 1/2 | 12,587 | 1/2 | 24,675 | 1/2 | 36,512 | 1/2 | 48,557 | 1/2 | 60,645 | 1/2 | 72,733 | 1/2 | 84,821 | 1/2 | 96,909  | 1/2 | 108,995 |
| 3/4 | 1,235 | 3/4 | 12,839 | 3/4 | 24,926 | 3/4 | 36,756 | 3/4 | 48,809 | 3/4 | 60,897 | 3/4 | 72,985 | 3/4 | 85,073 | 3/4 | 97,161  | 3/4 | 109,247 |
| 4   | 1,382 | 4   | 13,090 | 4   | 25,178 | 4   | 37,000 | 4   | 49,060 | 4   | 61,149 | 4   | 73,237 | 4   | 85,325 | 4   | 97,413  | 4   | 109,499 |
| 1/4 | 1,571 | 1/4 | 13,342 | 1/4 | 25,430 | 1/4 | 37,245 | 1/4 | 49,312 | 1/4 | 61,400 | 1/4 | 73,489 | 1/4 | 85,577 | 1/4 | 97,664  | 1/4 | 109,751 |
| 1/2 | 1,760 | 1/2 | 13,594 | 1/2 | 25,682 | 1/2 | 37,490 | 1/2 | 49,564 | 1/2 | 61,652 | 1/2 | 73,741 | 1/2 | 85,829 | 1/2 | 97,916  | 1/2 | 110,002 |
| 3/4 | 1,949 | 3/4 | 13,846 | 3/4 | 25,934 | 3/4 | 37,735 | 3/4 | 49,816 | 3/4 | 61,904 | 3/4 | 73,992 | 3/4 | 86,081 | 3/4 | 98,168  | 3/4 | 110,254 |
| 5   | 2,138 | 5   | 14,098 | 5   | 26,185 | 5   | 37,980 | 5   | 50,068 | 5   | 62,156 | 5   | 74,244 | 5   | 86,332 | 5   | 98,420  | 5   | 110,506 |
| 1/4 | 2,368 | 1/4 | 14,350 | 1/4 | 26,437 | 1/4 | 38,231 | 1/4 | 50,320 | 1/4 | 62,408 | 1/4 | 74,496 | 1/4 | 86,584 | 1/4 | 98,672  | 1/4 | 110,758 |
| 1/2 | 2,598 | 1/2 | 14,601 | 1/2 | 26,689 | 1/2 | 38,483 | 1/2 | 50,571 | 1/2 | 62,660 | 1/2 | 74,748 | 1/2 | 86,836 | 1/2 | 98,923  | 1/2 | 111,010 |
| 3/4 | 2,828 | 3/4 | 14,853 | 3/4 | 26,941 | 3/4 | 38,735 | 3/4 | 50,823 | 3/4 | 62,911 | 3/4 | 75,000 | 3/4 | 87,088 | 3/4 | 99,175  | 3/4 | 111,261 |
| 6   | 3,059 | 6   | 15,105 | 6   | 27,193 | 6   | 38,987 | 6   | 51,075 | 6   | 63,163 | 6   | 75,252 | 6   | 87,340 | 6   | 99,427  | 6   | 111,513 |
| 1/4 | 3,305 | 1/4 | 15,357 | 1/4 | 27,445 | 1/4 | 39,239 | 1/4 | 51,327 | 1/4 | 63,415 | 1/4 | 75,503 | 1/4 | 87,592 | 1/4 | 99,679  | 1/4 | 111,765 |
| 1/2 | 3,552 | 1/2 | 15,609 | 1/2 | 27,696 | 1/2 | 39,491 | 1/2 | 51,579 | 1/2 | 63,667 | 1/2 | 75,755 | 1/2 | 87,843 | 1/2 | 99,931  | 1/2 | 112,017 |
| 3/4 | 3,799 | 3/4 | 15,861 | 3/4 | 27,948 | 3/4 | 39,742 | 3/4 | 51,831 | 3/4 | 63,919 | 3/4 | 76,007 | 3/4 | 88,095 | 3/4 | 100,182 | 3/4 | 112,269 |
| 7   | 4,046 | 7   | 16,112 | 7   | 28,200 | 7   | 39,994 | 7   | 52,082 | 7   | 64,171 | 7   | 76,259 | 7   | 88,347 | 7   | 100,434 | 7   | 112,520 |
| 1/4 | 4,295 | 1/4 | 16,364 | 1/4 | 28,445 | 1/4 | 40,246 | 1/4 | 52,334 | 1/4 | 64,423 | 1/4 | 76,511 | 1/4 | 88,599 | 1/4 | 100,686 | 1/4 | 112,772 |
| 1/2 | 4,544 | 1/2 | 16,616 | 1/2 | 28,690 | 1/2 | 40,498 | 1/2 | 52,586 | 1/2 | 64,674 | 1/2 | 76,763 | 1/2 | 88,851 | 1/2 | 100,938 | 1/2 | 113,024 |
| 3/4 | 4,793 | 3/4 | 16,868 | 3/4 | 28,934 | 3/4 | 40,750 | 3/4 | 52,838 | 3/4 | 64,926 | 3/4 | 77,014 | 3/4 | 89,103 | 3/4 | 101,190 | 3/4 | 113,276 |
| 8   | 5,042 | 8   | 17,120 | 8   | 29,179 | 8   | 41,002 | 8   | 53,090 | 8   | 65,178 | 8   | 77,266 | 8   | 89,355 | 8   | 101,441 | 8   | 113,528 |
| 1/4 | 5,292 | 1/4 | 17,371 | 1/4 | 29,424 | 1/4 | 41,253 | 1/4 | 53,342 | 1/4 | 65,430 | 1/4 | 77,518 | 1/4 | 89,606 | 1/4 | 101,693 | 1/4 | 113,779 |
| 1/2 | 5,542 | 1/2 | 17,623 | 1/2 | 29,668 | 1/2 | 41,505 | 1/2 | 53,593 | 1/2 | 65,682 | 1/2 | 77,770 | 1/2 | 89,858 | 1/2 | 101,945 | 1/2 | 114,031 |
| 3/4 | 5,793 | 3/4 | 17,875 | 3/4 | 29,912 | 3/4 | 41,757 | 3/4 | 53,845 | 3/4 | 65,934 | 3/4 | 78,022 | 3/4 | 90,110 | 3/4 | 102,197 | 3/4 | 114,283 |
| 9   | 6,043 | 9   | 18,127 | 9   | 30,157 | 9   | 42,009 | 9   | 54,097 | 9   | 66,185 | 9   | 78,274 | 9   | 90,362 | 9   | 102,449 | 9   | 114,535 |
| 1/4 | 6,294 | 1/4 | 18,379 | 1/4 | 30,401 | 1/4 | 42,261 | 1/4 | 54,349 | 1/4 | 66,437 | 1/4 | 78,525 | 1/4 | 90,614 | 1/4 | 102,700 | 1/4 | 114,786 |
| 1/2 | 6,545 | 1/2 | 18,631 | 1/2 | 30,646 | 1/2 | 42,513 | 1/2 | 54,601 | 1/2 | 66,689 | 1/2 | 78,777 | 1/2 | 90,866 | 1/2 | 102,952 | 1/2 | 115,038 |
| 3/4 | 6,796 | 3/4 | 18,882 | 3/4 | 30,890 | 3/4 | 42,764 | 3/4 | 54,853 | 3/4 | 66,941 | 3/4 | 79,029 | 3/4 | 91,117 | 3/4 | 103,204 | 3/4 | 115,290 |
| 10  | 7,047 | 10  | 19,134 | 10  | 31,135 | 10  | 43,016 | 10  | 55,105 | 10  | 67,193 | 10  | 79,281 | 10  | 91,369 | 10  | 103,456 | 10  | 115,542 |
| 1/4 | 7,299 | 1/4 | 19,386 | 1/4 | 31,379 | 1/4 | 43,268 | 1/4 | 55,356 | 1/4 | 67,445 | 1/4 | 79,533 | 1/4 | 91,621 | 1/4 | 103,708 | 1/4 | 115,794 |
| 1/2 | 7,551 | 1/2 | 19,638 | 1/2 | 31,623 | 1/2 | 43,520 | 1/2 | 55,608 | 1/2 | 67,696 | 1/2 | 79,785 | 1/2 | 91,873 | 1/2 | 103,959 | 1/2 | 116,045 |
| 3/4 | 7,802 | 3/4 | 19,890 | 3/4 | 31,868 | 3/4 | 43,772 | 3/4 | 55,860 | 3/4 | 67,948 | 3/4 | 80,036 | 3/4 | 92,125 | 3/4 | 104,211 | 3/4 | 116,297 |
| 11  | 8,054 | 11  | 20,142 | 11  | 32,112 | 11  | 44,024 | 11  | 56,112 | 11  | 68,200 | 11  | 80,288 | 11  | 92,377 | 11  | 104,463 | 11  | 116,549 |
| 1/4 | 8,306 | 1/4 | 20,393 | 1/4 | 32,357 | 1/4 | 44,275 | 1/4 | 56,364 | 1/4 | 68,452 | 1/4 | 80,540 | 1/4 | 92,628 | 1/4 | 104,715 | 1/4 | 116,801 |
| 1/2 | 8,558 | 1/2 | 20,645 | 1/2 | 32,601 | 1/2 | 44,527 | 1/2 | 56,616 | 1/2 | 68,704 | 1/2 | 80,792 | 1/2 | 92,880 | 1/2 | 104,966 | 1/2 | 117,053 |
| 3/4 | 8,809 | 3/4 | 20,897 | 3/4 | 32,845 | 3/4 | 44,779 | 3/4 | 56,867 | 3/4 | 68,956 | 3/4 | 81,044 | 3/4 | 93,132 | 3/4 | 105,218 | 3/4 | 117,304 |

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'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "CBC 1370"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/4"

| IN  | 10 FT.  | IN  | 11 FT.  | IN  | 12 FT.  | IN  | 13 FT.  | IN  | 14 FT.  | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 117,556 | 0   | 129,642 | 0   | 141,729 | 0   | 153,747 | 0   | 165,729 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 117,808 | 1/4 | 129,894 | 1/4 | 141,979 | 1/4 | 153,998 | 1/4 | 165,977 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 118,060 | 1/2 | 130,146 | 1/2 | 142,229 | 1/2 | 154,248 | 1/2 | 166,226 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 118,312 | 3/4 | 130,398 | 3/4 | 142,480 | 3/4 | 154,499 | 3/4 | 166,474 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 1   | 118,563 | 1   | 130,650 | 1   | 142,730 | 1   | 154,749 | 1   | 166,722 | 1   | 1      | 1   | 1      | 1   | 1      | 1   | 1      | 1   | 1      |
| 1/4 | 118,815 | 1/4 | 130,901 | 1/4 | 142,980 | 1/4 | 154,999 | 1/4 | 166,970 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 119,067 | 1/2 | 131,153 | 1/2 | 143,231 | 1/2 | 155,250 | 1/2 | 167,218 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 119,319 | 3/4 | 131,405 | 3/4 | 143,481 | 3/4 | 155,500 | 3/4 | 167,466 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 2   | 119,571 | 2   | 131,657 | 2   | 143,732 | 2   | 155,751 | 2   | 167,714 | 2   | 2      | 2   | 2      | 2   | 2      | 2   | 2      | 2   | 2      |
| 1/4 | 119,822 | 1/4 | 131,909 | 1/4 | 143,982 | 1/4 | 156,001 | 1/4 | 167,941 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 120,074 | 1/2 | 132,160 | 1/2 | 144,232 | 1/2 | 156,251 | 1/2 | 168,168 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 120,326 | 3/4 | 132,412 | 3/4 | 144,483 | 3/4 | 156,502 | 3/4 | 168,395 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 3   | 120,578 | 3   | 132,664 | 3   | 144,733 | 3   | 156,752 | 3   | 168,622 | 3   | 3      | 3   | 3      | 3   | 3      | 3   | 3      | 3   | 3      |
| 1/4 | 120,830 | 1/4 | 132,916 | 1/4 | 144,984 | 1/4 | 157,003 | 1/4 | 168,808 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 121,081 | 1/2 | 133,168 | 1/2 | 145,234 | 1/2 | 157,253 | 1/2 | 168,993 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 121,333 | 3/4 | 133,419 | 3/4 | 145,484 | 3/4 | 157,503 | 3/4 | 169,178 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 4   | 121,585 | 4   | 133,671 | 4   | 145,735 | 4   | 157,754 | 4   | 169,363 | 4   | 4      | 4   | 4      | 4   | 4      | 4   | 4      | 4   | 4      |
| 1/4 | 121,837 | 1/4 | 133,923 | 1/4 | 145,985 | 1/4 | 158,004 | 1/4 | 169,506 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 122,089 | 1/2 | 134,175 | 1/2 | 146,236 | 1/2 | 158,255 | 1/2 | 169,649 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 122,340 | 3/4 | 134,426 | 3/4 | 146,486 | 3/4 | 158,505 | 3/4 | 169,792 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 5   | 122,592 | 5   | 134,678 | 5   | 146,736 | 5   | 158,755 | 5   | 169,936 | 5   | 5      | 5   | 5      | 5   | 5      | 5   | 5      | 5   | 5      |
| 1/4 | 122,844 | 1/4 | 134,930 | 1/4 | 146,987 | 1/4 | 159,006 | 1/4 | 170,037 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 123,096 | 1/2 | 135,182 | 1/2 | 147,237 | 1/2 | 159,256 | 1/2 | 170,138 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 123,348 | 3/4 | 135,434 | 3/4 | 147,488 | 3/4 | 159,507 | 3/4 | 170,239 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 6   | 123,599 | 6   | 135,685 | 6   | 147,738 | 6   | 159,757 | 6   | 170,340 | 6   | 6      | 6   | 6      | 6   | 6      | 6   | 6      | 6   | 6      |
| 1/4 | 123,851 | 1/4 | 135,937 | 1/4 | 147,988 | 1/4 | 160,007 | 1/4 | 170,399 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 124,103 | 1/2 | 136,189 | 1/2 | 148,239 | 1/2 | 160,258 | 1/2 | 170,459 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 124,355 | 3/4 | 136,441 | 3/4 | 148,489 | 3/4 | 160,508 | 3/4 | 170,518 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 7   | 124,606 | 7   | 136,693 | 7   | 148,740 | 7   | 160,759 | 7   | 170,577 | 7   | 7      | 7   | 7      | 7   | 7      | 7   | 7      | 7   | 7      |
| 1/4 | 124,858 | 1/4 | 136,944 | 1/4 | 148,990 | 1/4 | 161,009 | 1/4 | 170,594 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 125,110 | 1/2 | 137,196 | 1/2 | 149,240 | 1/2 | 161,259 | 1/2 | 170,611 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 125,362 | 3/4 | 137,448 | 3/4 | 149,491 | 3/4 | 161,510 | 3/4 | 170,629 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 8   | 125,614 | 8   | 137,700 | 8   | 149,741 | 8   | 161,760 | 8   | 170,646 | 8   | 8      | 8   | 8      | 8   | 8      | 8   | 8      | 8   | 8      |
| 1/4 | 125,865 | 1/4 | 137,952 | 1/4 | 149,992 | 1/4 | 162,008 | 1/4 |         | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 126,117 | 1/2 | 138,203 | 1/2 | 150,242 | 1/2 | 162,256 | 1/2 |         | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 126,369 | 3/4 | 138,455 | 3/4 | 150,492 | 3/4 | 162,504 | 3/4 |         | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 9   | 126,621 | 9   | 138,707 | 9   | 150,743 | 9   | 162,752 | 9   |         | 9   | 9      | 9   | 9      | 9   | 9      | 9   | 9      | 9   | 9      |
| 1/4 | 126,873 | 1/4 | 138,959 | 1/4 | 150,993 | 1/4 | 163,001 | 1/4 |         | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 127,124 | 1/2 | 139,211 | 1/2 | 151,244 | 1/2 | 163,249 | 1/2 |         | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 127,376 | 3/4 | 139,462 | 3/4 | 151,494 | 3/4 | 163,497 | 3/4 |         | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 10  | 127,628 | 10  | 139,714 | 10  | 151,744 | 10  | 163,745 | 10  |         | 10  | 10     | 10  | 10     | 10  | 10     | 10  | 10     | 10  | 10     |
| 1/4 | 127,880 | 1/4 | 139,966 | 1/4 | 151,995 | 1/4 | 163,993 | 1/4 |         | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 128,132 | 1/2 | 140,218 | 1/2 | 152,245 | 1/2 | 164,241 | 1/2 |         | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 128,383 | 3/4 | 140,470 | 3/4 | 152,496 | 3/4 | 164,489 | 3/4 |         | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 11  | 128,635 | 11  | 140,721 | 11  | 152,746 | 11  | 164,737 | 11  |         | 11  | 11     | 11  | 11     | 11  | 11     | 11  | 11     | 11  | 11     |
| 1/4 | 128,887 | 1/4 | 140,973 | 1/4 | 152,996 | 1/4 | 164,985 | 1/4 |         | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 129,139 | 1/2 | 141,225 | 1/2 | 153,247 | 1/2 | 165,233 | 1/2 |         | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 129,391 | 3/4 | 141,477 | 3/4 | 153,497 | 3/4 | 165,481 | 3/4 |         | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/05/2013 SW  
CALCULATED: 12/06/2013 CL  
PRINTED: 12/07/2013 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2013

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



# BARGE "CBC 1370"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08"

| IN  | 0 FT. | IN  | 1 FT.  | IN  | 2 FT.  | IN  | 3 FT.  | IN  | 4 FT.  | IN  | 5 FT.  | IN  | 6 FT.  | IN  | 7 FT.  | IN  | 8 FT.  | IN  | 9 FT.   |
|-----|-------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|---------|
| 0   | 39    | 0   | 8,038  | 0   | 18,755 | 0   | 29,458 | 0   | 40,164 | 0   | 50,882 | 0   | 61,599 | 0   | 72,317 | 0   | 83,035 | 0   | 93,750  |
| 1/4 | 58    | 1/4 | 8,261  | 1/4 | 18,978 | 1/4 | 29,681 | 1/4 | 40,388 | 1/4 | 51,105 | 1/4 | 61,823 | 1/4 | 72,540 | 1/4 | 83,258 | 1/4 | 93,974  |
| 1/2 | 77    | 1/2 | 8,485  | 1/2 | 19,202 | 1/2 | 29,903 | 1/2 | 40,611 | 1/2 | 51,328 | 1/2 | 62,046 | 1/2 | 72,764 | 1/2 | 83,481 | 1/2 | 94,197  |
| 3/4 | 95    | 3/4 | 8,708  | 3/4 | 19,425 | 3/4 | 30,126 | 3/4 | 40,834 | 3/4 | 51,552 | 3/4 | 62,269 | 3/4 | 72,987 | 3/4 | 83,704 | 3/4 | 94,420  |
| 1   | 114   | 1   | 8,931  | 1   | 19,648 | 1   | 30,348 | 1   | 41,057 | 1   | 51,775 | 1   | 62,493 | 1   | 73,210 | 1   | 83,928 | 1   | 94,643  |
| 1/4 | 170   | 1/4 | 9,154  | 1/4 | 19,872 | 1/4 | 30,571 | 1/4 | 41,281 | 1/4 | 51,998 | 1/4 | 62,716 | 1/4 | 73,433 | 1/4 | 84,151 | 1/4 | 94,867  |
| 1/2 | 225   | 1/2 | 9,378  | 1/2 | 20,095 | 1/2 | 30,794 | 1/2 | 41,504 | 1/2 | 52,222 | 1/2 | 62,939 | 1/2 | 73,657 | 1/2 | 84,374 | 1/2 | 95,090  |
| 3/4 | 281   | 3/4 | 9,601  | 3/4 | 20,318 | 3/4 | 31,016 | 3/4 | 41,727 | 3/4 | 52,445 | 3/4 | 63,162 | 3/4 | 73,880 | 3/4 | 84,597 | 3/4 | 95,313  |
| 2   | 337   | 2   | 9,824  | 2   | 20,541 | 2   | 31,239 | 2   | 41,951 | 2   | 52,668 | 2   | 63,386 | 2   | 74,103 | 2   | 84,821 | 2   | 95,536  |
| 1/4 | 430   | 1/4 | 10,048 | 1/4 | 20,765 | 1/4 | 31,461 | 1/4 | 42,174 | 1/4 | 52,891 | 1/4 | 63,609 | 1/4 | 74,327 | 1/4 | 85,044 | 1/4 | 95,760  |
| 1/2 | 523   | 1/2 | 10,271 | 1/2 | 20,988 | 1/2 | 31,684 | 1/2 | 42,397 | 1/2 | 53,115 | 1/2 | 63,832 | 1/2 | 74,550 | 1/2 | 85,267 | 1/2 | 95,983  |
| 3/4 | 616   | 3/4 | 10,494 | 3/4 | 21,211 | 3/4 | 31,906 | 3/4 | 42,620 | 3/4 | 53,338 | 3/4 | 64,056 | 3/4 | 74,773 | 3/4 | 85,490 | 3/4 | 96,206  |
| 3   | 709   | 3   | 10,717 | 3   | 21,434 | 3   | 32,129 | 3   | 42,844 | 3   | 53,561 | 3   | 64,279 | 3   | 74,996 | 3   | 85,713 | 3   | 96,429  |
| 1/4 | 839   | 1/4 | 10,941 | 1/4 | 21,658 | 1/4 | 32,352 | 1/4 | 43,067 | 1/4 | 53,785 | 1/4 | 64,502 | 1/4 | 75,220 | 1/4 | 85,937 | 1/4 | 96,652  |
| 1/2 | 970   | 1/2 | 11,164 | 1/2 | 21,881 | 1/2 | 32,574 | 1/2 | 43,290 | 1/2 | 54,008 | 1/2 | 64,725 | 1/2 | 75,443 | 1/2 | 86,160 | 1/2 | 96,876  |
| 3/4 | 1,100 | 3/4 | 11,387 | 3/4 | 22,104 | 3/4 | 32,797 | 3/4 | 43,514 | 3/4 | 54,231 | 3/4 | 64,949 | 3/4 | 75,666 | 3/4 | 86,383 | 3/4 | 97,099  |
| 4   | 1,230 | 4   | 11,610 | 4   | 22,328 | 4   | 33,019 | 4   | 43,737 | 4   | 54,454 | 4   | 65,172 | 4   | 75,889 | 4   | 86,606 | 4   | 97,322  |
| 1/4 | 1,397 | 1/4 | 11,834 | 1/4 | 22,551 | 1/4 | 33,242 | 1/4 | 43,960 | 1/4 | 54,678 | 1/4 | 65,395 | 1/4 | 76,113 | 1/4 | 86,830 | 1/4 | 97,545  |
| 1/2 | 1,565 | 1/2 | 12,057 | 1/2 | 22,774 | 1/2 | 33,466 | 1/2 | 44,183 | 1/2 | 54,901 | 1/2 | 65,618 | 1/2 | 76,336 | 1/2 | 87,053 | 1/2 | 97,769  |
| 3/4 | 1,732 | 3/4 | 12,280 | 3/4 | 22,997 | 3/4 | 33,689 | 3/4 | 44,407 | 3/4 | 55,124 | 3/4 | 65,842 | 3/4 | 76,559 | 3/4 | 87,276 | 3/4 | 97,992  |
| 5   | 1,900 | 5   | 12,504 | 5   | 23,221 | 5   | 33,912 | 5   | 44,630 | 5   | 55,347 | 5   | 66,065 | 5   | 76,783 | 5   | 87,499 | 5   | 98,215  |
| 1/4 | 2,104 | 1/4 | 12,727 | 1/4 | 23,444 | 1/4 | 34,136 | 1/4 | 44,853 | 1/4 | 55,571 | 1/4 | 66,288 | 1/4 | 77,006 | 1/4 | 87,723 | 1/4 | 98,438  |
| 1/2 | 2,308 | 1/2 | 12,950 | 1/2 | 23,667 | 1/2 | 34,359 | 1/2 | 45,076 | 1/2 | 55,794 | 1/2 | 66,512 | 1/2 | 77,229 | 1/2 | 87,946 | 1/2 | 98,662  |
| 3/4 | 2,512 | 3/4 | 13,173 | 3/4 | 23,890 | 3/4 | 34,582 | 3/4 | 45,300 | 3/4 | 56,017 | 3/4 | 66,735 | 3/4 | 77,452 | 3/4 | 88,169 | 3/4 | 98,885  |
| 6   | 2,716 | 6   | 13,397 | 6   | 24,114 | 6   | 34,805 | 6   | 45,523 | 6   | 56,241 | 6   | 66,958 | 6   | 77,676 | 6   | 88,392 | 6   | 99,108  |
| 1/4 | 2,935 | 1/4 | 13,620 | 1/4 | 24,337 | 1/4 | 35,029 | 1/4 | 45,746 | 1/4 | 56,464 | 1/4 | 67,181 | 1/4 | 77,899 | 1/4 | 88,616 | 1/4 | 99,331  |
| 1/2 | 3,154 | 1/2 | 13,843 | 1/2 | 24,560 | 1/2 | 35,252 | 1/2 | 45,970 | 1/2 | 56,687 | 1/2 | 67,405 | 1/2 | 78,122 | 1/2 | 88,839 | 1/2 | 99,555  |
| 3/4 | 3,373 | 3/4 | 14,066 | 3/4 | 24,783 | 3/4 | 35,475 | 3/4 | 46,193 | 3/4 | 56,910 | 3/4 | 67,628 | 3/4 | 78,346 | 3/4 | 89,062 | 3/4 | 99,778  |
| 7   | 3,591 | 7   | 14,290 | 7   | 25,005 | 7   | 35,699 | 7   | 46,416 | 7   | 57,134 | 7   | 67,851 | 7   | 78,569 | 7   | 89,285 | 7   | 100,001 |
| 1/4 | 3,812 | 1/4 | 14,513 | 1/4 | 25,228 | 1/4 | 35,922 | 1/4 | 46,639 | 1/4 | 57,357 | 1/4 | 68,075 | 1/4 | 78,792 | 1/4 | 89,509 | 1/4 | 100,224 |
| 1/2 | 4,033 | 1/2 | 14,736 | 1/2 | 25,451 | 1/2 | 36,145 | 1/2 | 46,863 | 1/2 | 57,580 | 1/2 | 68,298 | 1/2 | 79,015 | 1/2 | 89,732 | 1/2 | 100,448 |
| 3/4 | 4,254 | 3/4 | 14,960 | 3/4 | 25,674 | 3/4 | 36,368 | 3/4 | 47,086 | 3/4 | 57,804 | 3/4 | 68,521 | 3/4 | 79,239 | 3/4 | 89,955 | 3/4 | 100,671 |
| 8   | 4,475 | 8   | 15,183 | 8   | 25,897 | 8   | 36,592 | 8   | 47,309 | 8   | 58,027 | 8   | 68,744 | 8   | 79,462 | 8   | 90,178 | 8   | 100,894 |
| 1/4 | 4,696 | 1/4 | 15,406 | 1/4 | 26,120 | 1/4 | 36,815 | 1/4 | 47,533 | 1/4 | 58,250 | 1/4 | 68,968 | 1/4 | 79,685 | 1/4 | 90,402 | 1/4 | 101,117 |
| 1/2 | 4,918 | 1/2 | 15,629 | 1/2 | 26,342 | 1/2 | 37,038 | 1/2 | 47,756 | 1/2 | 58,473 | 1/2 | 69,191 | 1/2 | 79,909 | 1/2 | 90,625 | 1/2 | 101,341 |
| 3/4 | 5,140 | 3/4 | 15,853 | 3/4 | 26,565 | 3/4 | 37,262 | 3/4 | 47,979 | 3/4 | 58,697 | 3/4 | 69,414 | 3/4 | 80,132 | 3/4 | 90,848 | 3/4 | 101,564 |
| 9   | 5,362 | 9   | 16,076 | 9   | 26,787 | 9   | 37,485 | 9   | 48,202 | 9   | 58,920 | 9   | 69,638 | 9   | 80,355 | 9   | 91,071 | 9   | 101,787 |
| 1/4 | 5,585 | 1/4 | 16,299 | 1/4 | 27,010 | 1/4 | 37,708 | 1/4 | 48,426 | 1/4 | 59,143 | 1/4 | 69,861 | 1/4 | 80,578 | 1/4 | 91,295 | 1/4 | 102,010 |
| 1/2 | 5,807 | 1/2 | 16,522 | 1/2 | 27,233 | 1/2 | 37,931 | 1/2 | 48,649 | 1/2 | 59,367 | 1/2 | 70,084 | 1/2 | 80,802 | 1/2 | 91,518 | 1/2 | 102,234 |
| 3/4 | 6,030 | 3/4 | 16,746 | 3/4 | 27,455 | 3/4 | 38,155 | 3/4 | 48,872 | 3/4 | 59,590 | 3/4 | 70,307 | 3/4 | 81,025 | 3/4 | 91,741 | 3/4 | 102,457 |
| 10  | 6,253 | 10  | 16,969 | 10  | 27,678 | 10  | 38,378 | 10  | 49,096 | 10  | 59,813 | 10  | 70,531 | 10  | 81,248 | 10  | 91,964 | 10  | 102,680 |
| 1/4 | 6,476 | 1/4 | 17,192 | 1/4 | 27,900 | 1/4 | 38,601 | 1/4 | 49,319 | 1/4 | 60,036 | 1/4 | 70,754 | 1/4 | 81,472 | 1/4 | 92,188 | 1/4 | 102,903 |
| 1/2 | 6,699 | 1/2 | 17,416 | 1/2 | 28,123 | 1/2 | 38,825 | 1/2 | 49,542 | 1/2 | 60,260 | 1/2 | 70,977 | 1/2 | 81,695 | 1/2 | 92,411 | 1/2 | 103,127 |
| 3/4 | 6,922 | 3/4 | 17,639 | 3/4 | 28,345 | 3/4 | 39,048 | 3/4 | 49,765 | 3/4 | 60,483 | 3/4 | 71,201 | 3/4 | 81,918 | 3/4 | 92,634 | 3/4 | 103,350 |
| 11  | 7,145 | 11  | 17,862 | 11  | 28,568 | 11  | 39,271 | 11  | 49,989 | 11  | 60,706 | 11  | 71,424 | 11  | 82,141 | 11  | 92,857 | 11  | 103,573 |
| 1/4 | 7,368 | 1/4 | 18,085 | 1/4 | 28,790 | 1/4 | 39,494 | 1/4 | 50,212 | 1/4 | 60,930 | 1/4 | 71,647 | 1/4 | 82,365 | 1/4 | 93,081 | 1/4 | 103,796 |
| 1/2 | 7,592 | 1/2 | 18,309 | 1/2 | 29,013 | 1/2 | 39,718 | 1/2 | 50,435 | 1/2 | 61,153 | 1/2 | 71,870 | 1/2 | 82,588 | 1/2 | 93,304 | 1/2 | 104,020 |
| 3/4 | 7,815 | 3/4 | 18,532 | 3/4 | 29,236 | 3/4 | 39,941 | 3/4 | 50,659 | 3/4 | 61,376 | 3/4 | 72,094 | 3/4 | 82,811 | 3/4 | 93,527 | 3/4 | 104,243 |

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 23'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CBC 1370"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08"

| 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   | 104,466 | 0   | 115,182 | 0   | 125,898 | 0   | 136,555 | 0   | 147,179 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 104,689 | 1/4 | 115,405 | 1/4 | 126,120 | 1/4 | 136,777 | 1/4 | 147,399 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 104,913 | 1/2 | 115,628 | 1/2 | 126,342 | 1/2 | 136,999 | 1/2 | 147,619 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 105,136 | 3/4 | 115,852 | 3/4 | 126,564 | 3/4 | 137,221 | 3/4 | 147,839 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 1   | 105,359 | 1   | 116,075 | 1   | 126,786 | 1   | 137,443 | 1   | 148,059 | 1   | 1      | 1   | 1      | 1   | 1      | 1   | 1      | 1   | 1      |
| 1/4 | 105,582 | 1/4 | 116,298 | 1/4 | 127,008 | 1/4 | 137,665 | 1/4 | 148,279 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 105,806 | 1/2 | 116,521 | 1/2 | 127,230 | 1/2 | 137,887 | 1/2 | 148,499 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 106,029 | 3/4 | 116,745 | 3/4 | 127,452 | 3/4 | 138,109 | 3/4 | 148,719 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 2   | 106,252 | 2   | 116,968 | 2   | 127,674 | 2   | 138,331 | 2   | 148,938 | 2   | 2      | 2   | 2      | 2   | 2      | 2   | 2      | 2   | 2      |
| 1/4 | 106,475 | 1/4 | 117,191 | 1/4 | 127,896 | 1/4 | 138,553 | 1/4 | 149,140 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 106,699 | 1/2 | 117,414 | 1/2 | 128,118 | 1/2 | 138,775 | 1/2 | 149,341 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 106,922 | 3/4 | 117,638 | 3/4 | 128,340 | 3/4 | 138,997 | 3/4 | 149,543 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 3   | 107,145 | 3   | 117,861 | 3   | 128,562 | 3   | 139,219 | 3   | 149,744 | 3   | 3      | 3   | 3      | 3   | 3      | 3   | 3      | 3   | 3      |
| 1/4 | 107,368 | 1/4 | 118,084 | 1/4 | 128,784 | 1/4 | 139,441 | 1/4 | 149,908 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 107,591 | 1/2 | 118,307 | 1/2 | 129,006 | 1/2 | 139,663 | 1/2 | 150,072 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 107,815 | 3/4 | 118,530 | 3/4 | 129,228 | 3/4 | 139,885 | 3/4 | 150,236 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 4   | 108,038 | 4   | 118,754 | 4   | 129,450 | 4   | 140,107 | 4   | 150,401 | 4   | 4      | 4   | 4      | 4   | 4      | 4   | 4      | 4   | 4      |
| 1/4 | 108,261 | 1/4 | 118,977 | 1/4 | 129,672 | 1/4 | 140,329 | 1/4 | 150,527 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 108,484 | 1/2 | 119,200 | 1/2 | 129,894 | 1/2 | 140,551 | 1/2 | 150,654 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 108,708 | 3/4 | 119,423 | 3/4 | 130,116 | 3/4 | 140,773 | 3/4 | 150,781 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 5   | 108,931 | 5   | 119,647 | 5   | 130,338 | 5   | 140,995 | 5   | 150,908 | 5   | 5      | 5   | 5      | 5   | 5      | 5   | 5      | 5   | 5      |
| 1/4 | 109,154 | 1/4 | 119,870 | 1/4 | 130,560 | 1/4 | 141,217 | 1/4 | 150,998 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 109,377 | 1/2 | 120,093 | 1/2 | 130,782 | 1/2 | 141,439 | 1/2 | 151,088 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 109,601 | 3/4 | 120,316 | 3/4 | 131,004 | 3/4 | 141,661 | 3/4 | 151,177 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 6   | 109,824 | 6   | 120,540 | 6   | 131,226 | 6   | 141,883 | 6   | 151,267 | 6   | 6      | 6   | 6      | 6   | 6      | 6   | 6      | 6   | 6      |
| 1/4 | 110,047 | 1/4 | 120,763 | 1/4 | 131,448 | 1/4 | 142,105 | 1/4 | 151,320 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 110,270 | 1/2 | 120,986 | 1/2 | 131,670 | 1/2 | 142,327 | 1/2 | 151,372 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 110,494 | 3/4 | 121,209 | 3/4 | 131,892 | 3/4 | 142,549 | 3/4 | 151,425 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 7   | 110,717 | 7   | 121,433 | 7   | 132,114 | 7   | 142,771 | 7   | 151,477 | 7   | 7      | 7   | 7      | 7   | 7      | 7   | 7      | 7   | 7      |
| 1/4 | 110,940 | 1/4 | 121,656 | 1/4 | 132,336 | 1/4 | 142,993 | 1/4 | 151,492 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 111,163 | 1/2 | 121,879 | 1/2 | 132,558 | 1/2 | 143,215 | 1/2 | 151,508 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 111,387 | 3/4 | 122,102 | 3/4 | 132,780 | 3/4 | 143,437 | 3/4 | 151,523 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 8   | 111,610 | 8   | 122,326 | 8   | 133,002 | 8   | 143,659 | 8   | 151,538 | 8   | 8      | 8   | 8      | 8   | 8      | 8   | 8      | 8   | 8      |
| 1/4 | 111,833 | 1/4 | 122,549 | 1/4 | 133,224 | 1/4 | 143,879 | 1/4 |         | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 112,056 | 1/2 | 122,772 | 1/2 | 133,446 | 1/2 | 144,099 | 1/2 |         | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 112,280 | 3/4 | 122,995 | 3/4 | 133,668 | 3/4 | 144,319 | 3/4 |         | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 9   | 112,503 | 9   | 123,219 | 9   | 133,890 | 9   | 144,539 | 9   |         | 9   | 9      | 9   | 9      | 9   | 9      | 9   | 9      | 9   | 9      |
| 1/4 | 112,726 | 1/4 | 123,442 | 1/4 | 134,112 | 1/4 | 144,759 | 1/4 |         | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 112,949 | 1/2 | 123,665 | 1/2 | 134,334 | 1/2 | 144,979 | 1/2 |         | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 113,173 | 3/4 | 123,888 | 3/4 | 134,556 | 3/4 | 145,199 | 3/4 |         | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 10  | 113,396 | 10  | 124,112 | 10  | 134,778 | 10  | 145,419 | 10  |         | 10  | 10     | 10  | 10     | 10  | 10     | 10  | 10     | 10  | 10     |
| 1/4 | 113,619 | 1/4 | 124,335 | 1/4 | 135,000 | 1/4 | 145,639 | 1/4 |         | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 113,842 | 1/2 | 124,558 | 1/2 | 135,222 | 1/2 | 145,859 | 1/2 |         | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 114,066 | 3/4 | 124,781 | 3/4 | 135,444 | 3/4 | 146,079 | 3/4 |         | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 11  | 114,289 | 11  | 125,005 | 11  | 135,666 | 11  | 146,299 | 11  |         | 11  | 11     | 11  | 11     | 11  | 11     | 11  | 11     | 11  | 11     |
| 1/4 | 114,512 | 1/4 | 125,228 | 1/4 | 135,888 | 1/4 | 146,519 | 1/4 |         | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 114,735 | 1/2 | 125,451 | 1/2 | 136,111 | 1/2 | 146,739 | 1/2 |         | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 114,959 | 3/4 | 125,674 | 3/4 | 136,333 | 3/4 | 146,959 | 3/4 |         | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/05/2013 SW  
CALCULATED: 12/06/2013 CL  
PRINTED: 12/07/2013 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2013

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



# BARGE "CBC 1370"

## 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 | - 00-0/8   | 00-0/8       | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       | - 00-1/8   | 00-1/8       | - 00-1/4   | 00-1/4       | - 00-1/4   | 00-1/4       |
| 2 CENTER | 00-0/8     | - 00-0/8     | 00-0/8     | - 00-0/8     | 00-0/8     | - 00-0/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     |
| 3 CENTER | - 00-1/4   | 00-1/4       | - 00-1/2   | 00-1/2       | - 00-3/4   | 00-3/4       | - 01-0/8   | 01-0/8       | - 01-1/4   | 01-1/4       | - 01-1/2   | 01-1/2       |

(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 3 CENTER IS 00-1/2"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 3 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 1/2"

LENGTH BETWEEN DRAFT MARKS: 161'-09"

December 5, 2013

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CBC 1370"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/2"

| 0 FT. |     | 1 FT. |     | 2 FT. |     | 3 FT. |         | 4 FT. |         | 5 FT. |         | 6 FT. |         | 7 FT. |         | 8 FT. |         | 9 FT. |        |
|-------|-----|-------|-----|-------|-----|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|--------|
| IN    | OUT | IN    | OUT | IN    | OUT | IN    | OUT     | IN    | OUT     | IN    | OUT     | IN    | OUT     | IN    | OUT     | IN    | OUT     | IN    | OUT    |
| 0     |     | 0     |     | 0     |     | 0     | 140,367 | 0     | 130,947 | 0     | 121,512 | 0     | 112,056 | 0     | 101,572 | 0     | 90,808  | 0     | 80,043 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 140,173 | 1/4   | 130,751 | 1/4   | 121,315 | 1/4   | 111,859 | 1/4   | 101,347 | 1/4   | 90,584  | 1/4   | 79,819 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 147,279 | 1/2   | 139,978 | 1/2   | 130,555 | 1/2   | 121,118 | 1/2   | 111,662 | 1/2   | 101,123 | 1/2   | 90,359 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 147,263 | 3/4   | 139,782 | 3/4   | 130,359 | 3/4   | 120,921 | 3/4   | 111,465 | 3/4   | 100,899 | 3/4   | 90,135 |
| 1     |     | 1     |     | 1     |     | 1     | 147,247 | 1     | 139,585 | 1     | 130,163 | 1     | 120,724 | 1     | 111,268 | 1     | 100,675 | 1     | 89,911 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 147,231 | 1/4   | 139,389 | 1/4   | 129,968 | 1/4   | 120,527 | 1/4   | 111,071 | 1/4   | 100,450 | 1/4   | 89,687 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 147,215 | 1/2   | 139,192 | 1/2   | 129,772 | 1/2   | 120,330 | 1/2   | 110,875 | 1/2   | 100,226 | 1/2   | 89,462 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 147,161 | 3/4   | 138,995 | 3/4   | 129,576 | 3/4   | 120,133 | 3/4   | 110,678 | 3/4   | 100,026 | 3/4   | 89,238 |
| 2     |     | 2     |     | 2     |     | 2     | 147,108 | 2     | 138,799 | 2     | 129,380 | 2     | 119,936 | 2     | 110,481 | 2     | 99,778  | 2     | 89,014 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 147,054 | 1/4   | 138,602 | 1/4   | 129,184 | 1/4   | 119,739 | 1/4   | 110,284 | 1/4   | 99,553  | 1/4   | 88,790 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 147,001 | 1/2   | 138,406 | 1/2   | 128,988 | 1/2   | 119,541 | 1/2   | 110,087 | 1/2   | 99,329  | 1/2   | 88,565 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 146,910 | 3/4   | 138,209 | 3/4   | 128,792 | 3/4   | 119,344 | 3/4   | 109,863 | 3/4   | 99,105  | 3/4   | 88,341 |
| 3     |     | 3     |     | 3     |     | 3     | 146,819 | 3     | 138,013 | 3     | 128,595 | 3     | 119,147 | 3     | 109,639 | 3     | 98,881  | 3     | 88,117 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 146,728 | 1/4   | 137,816 | 1/4   | 128,399 | 1/4   | 118,950 | 1/4   | 109,415 | 1/4   | 98,656  | 1/4   | 87,893 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 146,637 | 1/2   | 137,620 | 1/2   | 128,202 | 1/2   | 118,753 | 1/2   | 109,191 | 1/2   | 98,432  | 1/2   | 87,668 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 146,508 | 3/4   | 137,423 | 3/4   | 128,006 | 3/4   | 118,556 | 3/4   | 108,967 | 3/4   | 98,208  | 3/4   | 87,444 |
| 4     |     | 4     |     | 4     |     | 4     | 146,380 | 4     | 137,227 | 4     | 127,809 | 4     | 118,359 | 4     | 108,743 | 4     | 97,984  | 4     | 87,220 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 146,251 | 1/4   | 137,030 | 1/4   | 127,613 | 1/4   | 118,162 | 1/4   | 108,519 | 1/4   | 97,759  | 1/4   | 86,996 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 146,123 | 1/2   | 136,833 | 1/2   | 127,416 | 1/2   | 117,965 | 1/2   | 108,295 | 1/2   | 97,535  | 1/2   | 86,771 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 145,957 | 3/4   | 136,637 | 3/4   | 127,219 | 3/4   | 117,768 | 3/4   | 108,071 | 3/4   | 97,311  | 3/4   | 86,547 |
| 5     |     | 5     |     | 5     |     | 5     | 145,791 | 5     | 136,440 | 5     | 127,023 | 5     | 117,571 | 5     | 107,847 | 5     | 97,087  | 5     | 86,323 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 145,625 | 1/4   | 136,244 | 1/4   | 126,826 | 1/4   | 117,374 | 1/4   | 107,623 | 1/4   | 96,862  | 1/4   | 86,099 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 145,459 | 1/2   | 136,047 | 1/2   | 126,630 | 1/2   | 117,177 | 1/2   | 107,399 | 1/2   | 96,638  | 1/2   | 85,874 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 145,256 | 3/4   | 135,851 | 3/4   | 126,433 | 3/4   | 116,980 | 3/4   | 107,175 | 3/4   | 96,414  | 3/4   | 85,650 |
| 6     |     | 6     |     | 6     |     | 6     | 145,052 | 6     | 135,654 | 6     | 126,237 | 6     | 116,782 | 6     | 106,951 | 6     | 96,190  | 6     | 85,426 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 144,849 | 1/4   | 135,458 | 1/4   | 126,040 | 1/4   | 116,585 | 1/4   | 106,727 | 1/4   | 95,965  | 1/4   | 85,202 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 144,646 | 1/2   | 135,261 | 1/2   | 125,844 | 1/2   | 116,388 | 1/2   | 106,503 | 1/2   | 95,741  | 1/2   | 84,977 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 144,451 | 3/4   | 135,064 | 3/4   | 125,647 | 3/4   | 116,191 | 3/4   | 106,279 | 3/4   | 95,517  | 3/4   | 84,753 |
| 7     |     | 7     |     | 7     |     | 7     | 144,257 | 7     | 134,868 | 7     | 125,450 | 7     | 115,994 | 7     | 106,055 | 7     | 95,293  | 7     | 84,529 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 144,062 | 1/4   | 134,671 | 1/4   | 125,254 | 1/4   | 115,797 | 1/4   | 105,831 | 1/4   | 95,069  | 1/4   | 84,305 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 143,868 | 1/2   | 134,475 | 1/2   | 125,057 | 1/2   | 115,600 | 1/2   | 105,607 | 1/2   | 94,844  | 1/2   | 84,080 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 143,673 | 3/4   | 134,278 | 3/4   | 124,861 | 3/4   | 115,403 | 3/4   | 105,383 | 3/4   | 94,620  | 3/4   | 83,856 |
| 8     |     | 8     |     | 8     |     | 8     | 143,479 | 8     | 134,082 | 8     | 124,664 | 8     | 115,206 | 8     | 105,159 | 8     | 94,396  | 8     | 83,632 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 143,284 | 1/4   | 133,885 | 1/4   | 124,468 | 1/4   | 115,009 | 1/4   | 104,935 | 1/4   | 94,172  | 1/4   | 83,408 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 143,090 | 1/2   | 133,689 | 1/2   | 124,271 | 1/2   | 114,812 | 1/2   | 104,711 | 1/2   | 93,947  | 1/2   | 83,183 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 142,895 | 3/4   | 133,493 | 3/4   | 124,074 | 3/4   | 114,615 | 3/4   | 104,487 | 3/4   | 93,723  | 3/4   | 82,959 |
| 9     |     | 9     |     | 9     |     | 9     | 142,701 | 9     | 133,297 | 9     | 123,877 | 9     | 114,418 | 9     | 104,263 | 9     | 93,499  | 9     | 82,735 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 142,506 | 1/4   | 133,101 | 1/4   | 123,680 | 1/4   | 114,221 | 1/4   | 104,038 | 1/4   | 93,275  | 1/4   | 82,511 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 142,312 | 1/2   | 132,905 | 1/2   | 123,483 | 1/2   | 114,024 | 1/2   | 103,814 | 1/2   | 93,050  | 1/2   | 82,286 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 142,117 | 3/4   | 132,709 | 3/4   | 123,286 | 3/4   | 113,827 | 3/4   | 103,590 | 3/4   | 92,826  | 3/4   | 82,062 |
| 10    |     | 10    |     | 10    |     | 10    | 141,923 | 10    | 132,514 | 10    | 123,089 | 10    | 113,631 | 10    | 103,366 | 10    | 92,602  | 10    | 81,838 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 141,728 | 1/4   | 132,318 | 1/4   | 122,892 | 1/4   | 113,434 | 1/4   | 103,141 | 1/4   | 92,378  | 1/4   | 81,613 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 141,534 | 1/2   | 132,122 | 1/2   | 122,695 | 1/2   | 113,237 | 1/2   | 102,917 | 1/2   | 92,153  | 1/2   | 81,389 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 141,340 | 3/4   | 131,926 | 3/4   | 122,498 | 3/4   | 113,040 | 3/4   | 102,693 | 3/4   | 91,929  | 3/4   | 81,165 |
| 11    |     | 11    |     | 11    |     | 11    | 141,145 | 11    | 131,730 | 11    | 122,300 | 11    | 112,843 | 11    | 102,469 | 11    | 91,705  | 11    | 80,941 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 140,951 | 1/4   | 131,534 | 1/4   | 122,103 | 1/4   | 112,646 | 1/4   | 102,244 | 1/4   | 91,481  | 1/4   | 80,716 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 140,756 | 1/2   | 131,338 | 1/2   | 121,906 | 1/2   | 112,449 | 1/2   | 102,020 | 1/2   | 91,256  | 1/2   | 80,492 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 140,562 | 3/4   | 131,143 | 3/4   | 121,709 | 3/4   | 112,253 | 3/4   | 101,796 | 3/4   | 91,032  | 3/4   | 80,268 |

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 26'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
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# BARGE "CBC 1370"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/2"

| IN  | 10 FT. | IN  | 11 FT. | IN  | 12 FT. | IN  | 13 FT. | IN  | 14 FT. | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|----|--------|----|--------|
| 0   | 69,323 | 0   | 58,568 | 0   | 47,808 | 0   | 37,047 | 0   | 26,461 | 0   | 15,733 | 0   | 4,951  | 0   |        | 0  |        | 0  |        |
| 1/4 | 69,099 | 1/4 | 58,344 | 1/4 | 47,583 | 1/4 | 36,823 | 1/4 | 26,243 | 1/4 | 15,508 | 1/4 | 4,727  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 68,876 | 1/2 | 58,120 | 1/2 | 47,359 | 1/2 | 36,599 | 1/2 | 26,024 | 1/2 | 15,284 | 1/2 | 4,504  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 68,652 | 3/4 | 57,896 | 3/4 | 47,135 | 3/4 | 36,375 | 3/4 | 25,805 | 3/4 | 15,059 | 3/4 | 4,282  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 1   | 68,429 | 1   | 57,672 | 1   | 46,911 | 1   | 36,150 | 1   | 25,587 | 1   | 14,834 | 1   | 4,060  | 1   | 1      |    | 1      |    | 1      |
| 1/4 | 68,205 | 1/4 | 57,447 | 1/4 | 46,687 | 1/4 | 35,926 | 1/4 | 25,368 | 1/4 | 14,609 | 1/4 | 3,837  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 67,981 | 1/2 | 57,223 | 1/2 | 46,463 | 1/2 | 35,702 | 1/2 | 25,149 | 1/2 | 14,385 | 1/2 | 3,615  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 67,758 | 3/4 | 56,999 | 3/4 | 46,238 | 3/4 | 35,478 | 3/4 | 24,930 | 3/4 | 14,160 | 3/4 | 3,395  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 2   | 67,534 | 2   | 56,775 | 2   | 46,014 | 2   | 35,254 | 2   | 24,712 | 2   | 13,935 | 2   | 3,175  | 2   | 2      |    | 2      |    | 2      |
| 1/4 | 67,311 | 1/4 | 56,551 | 1/4 | 45,790 | 1/4 | 35,029 | 1/4 | 24,493 | 1/4 | 13,710 | 1/4 | 2,954  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 67,087 | 1/2 | 56,326 | 1/2 | 45,566 | 1/2 | 34,805 | 1/2 | 24,274 | 1/2 | 13,486 | 1/2 | 2,734  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 66,863 | 3/4 | 56,102 | 3/4 | 45,342 | 3/4 | 34,581 | 3/4 | 24,049 | 3/4 | 13,261 | 3/4 | 2,529  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 3   | 66,639 | 3   | 55,878 | 3   | 45,118 | 3   | 34,357 | 3   | 23,825 | 3   | 13,036 | 3   | 2,323  | 3   | 3      |    | 3      |    | 3      |
| 1/4 | 66,415 | 1/4 | 55,654 | 1/4 | 44,893 | 1/4 | 34,133 | 1/4 | 23,600 | 1/4 | 12,811 | 1/4 | 2,118  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 66,190 | 1/2 | 55,430 | 1/2 | 44,669 | 1/2 | 33,909 | 1/2 | 23,375 | 1/2 | 12,587 | 1/2 | 1,912  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 65,966 | 3/4 | 55,206 | 3/4 | 44,445 | 3/4 | 33,684 | 3/4 | 23,150 | 3/4 | 12,362 | 3/4 | 1,744  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 4   | 65,742 | 4   | 54,981 | 4   | 44,221 | 4   | 33,460 | 4   | 22,926 | 4   | 12,137 | 4   | 1,575  | 4   | 4      |    | 4      |    | 4      |
| 1/4 | 65,518 | 1/4 | 54,757 | 1/4 | 43,997 | 1/4 | 33,236 | 1/4 | 22,701 | 1/4 | 11,912 | 1/4 | 1,407  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 65,294 | 1/2 | 54,533 | 1/2 | 43,772 | 1/2 | 33,012 | 1/2 | 22,476 | 1/2 | 11,688 | 1/2 | 1,238  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 65,069 | 3/4 | 54,309 | 3/4 | 43,548 | 3/4 | 32,793 | 3/4 | 22,251 | 3/4 | 11,463 | 3/4 | 1,107  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 5   | 64,845 | 5   | 54,085 | 5   | 43,324 | 5   | 32,575 | 5   | 22,027 | 5   | 11,238 | 5   | 976    | 5   | 5      |    | 5      |    | 5      |
| 1/4 | 64,621 | 1/4 | 53,860 | 1/4 | 43,100 | 1/4 | 32,357 | 1/4 | 21,802 | 1/4 | 11,013 | 1/4 | 845    | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 64,397 | 1/2 | 53,636 | 1/2 | 42,876 | 1/2 | 32,138 | 1/2 | 21,577 | 1/2 | 10,788 | 1/2 | 714    | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 64,173 | 3/4 | 53,412 | 3/4 | 42,652 | 3/4 | 31,920 | 3/4 | 21,352 | 3/4 | 10,564 | 3/4 | 620    | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 6   | 63,949 | 6   | 53,188 | 6   | 42,427 | 6   | 31,702 | 6   | 21,127 | 6   | 10,339 | 6   | 527    | 6   | 6      |    | 6      |    | 6      |
| 1/4 | 63,724 | 1/4 | 52,964 | 1/4 | 42,203 | 1/4 | 31,483 | 1/4 | 20,903 | 1/4 | 10,114 | 1/4 | 433    | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 63,500 | 1/2 | 52,740 | 1/2 | 41,979 | 1/2 | 31,265 | 1/2 | 20,678 | 1/2 | 9,889  | 1/2 | 339    | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 63,276 | 3/4 | 52,515 | 3/4 | 41,755 | 3/4 | 31,047 | 3/4 | 20,453 | 3/4 | 9,665  | 3/4 | 283    | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 7   | 63,052 | 7   | 52,291 | 7   | 41,531 | 7   | 30,828 | 7   | 20,228 | 7   | 9,440  | 7   | 227    | 7   | 7      |    | 7      |    | 7      |
| 1/4 | 62,828 | 1/4 | 52,067 | 1/4 | 41,306 | 1/4 | 30,610 | 1/4 | 20,004 | 1/4 | 9,215  | 1/4 | 171    | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 62,603 | 1/2 | 51,843 | 1/2 | 41,082 | 1/2 | 30,391 | 1/2 | 19,779 | 1/2 | 8,990  | 1/2 | 115    | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 62,379 | 3/4 | 51,619 | 3/4 | 40,858 | 3/4 | 30,173 | 3/4 | 19,554 | 3/4 | 8,766  | 3/4 | 96     | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 8   | 62,155 | 8   | 51,395 | 8   | 40,634 | 8   | 29,955 | 8   | 19,329 | 8   | 8,541  | 8   | 77     | 8   | 8      |    | 8      |    | 8      |
| 1/4 | 61,931 | 1/4 | 51,170 | 1/4 | 40,410 | 1/4 | 29,736 | 1/4 | 19,105 | 1/4 | 8,316  | 1/4 | 58     | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 61,707 | 1/2 | 50,946 | 1/2 | 40,186 | 1/2 | 29,518 | 1/2 | 18,880 | 1/2 | 8,091  | 1/2 | 39     | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 61,483 | 3/4 | 50,722 | 3/4 | 39,961 | 3/4 | 29,300 | 3/4 | 18,655 | 3/4 | 7,867  | 3/4 |        | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 9   | 61,258 | 9   | 50,498 | 9   | 39,737 | 9   | 29,081 | 9   | 18,430 | 9   | 7,642  | 9   |        | 9   | 9      |    | 9      |    | 9      |
| 1/4 | 61,034 | 1/4 | 50,274 | 1/4 | 39,513 | 1/4 | 28,863 | 1/4 | 18,206 | 1/4 | 7,417  | 1/4 |        | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 60,810 | 1/2 | 50,049 | 1/2 | 39,289 | 1/2 | 28,645 | 1/2 | 17,981 | 1/2 | 7,192  | 1/2 |        | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 60,586 | 3/4 | 49,825 | 3/4 | 39,065 | 3/4 | 28,426 | 3/4 | 17,756 | 3/4 | 6,968  | 3/4 |        | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 10  | 60,362 | 10  | 49,601 | 10  | 38,841 | 10  | 28,208 | 10  | 17,531 | 10  | 6,743  | 10  |        | 10  | 10     |    | 10     |    | 10     |
| 1/4 | 60,137 | 1/4 | 49,377 | 1/4 | 38,616 | 1/4 | 27,989 | 1/4 | 17,307 | 1/4 | 6,519  | 1/4 |        | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 59,913 | 1/2 | 49,153 | 1/2 | 38,392 | 1/2 | 27,771 | 1/2 | 17,082 | 1/2 | 6,294  | 1/2 |        | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 59,689 | 3/4 | 48,929 | 3/4 | 38,168 | 3/4 | 27,553 | 3/4 | 16,857 | 3/4 | 6,070  | 3/4 |        | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 11  | 59,465 | 11  | 48,704 | 11  | 37,944 | 11  | 27,334 | 11  | 16,632 | 11  | 5,846  | 11  |        | 11  | 11     |    | 11     |    | 11     |
| 1/4 | 59,241 | 1/4 | 48,480 | 1/4 | 37,720 | 1/4 | 27,116 | 1/4 | 16,408 | 1/4 | 5,622  | 1/4 |        | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 59,017 | 1/2 | 48,256 | 1/2 | 37,495 | 1/2 | 26,898 | 1/2 | 16,183 | 1/2 | 5,398  | 1/2 |        | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 58,792 | 3/4 | 48,032 | 3/4 | 37,271 | 3/4 | 26,679 | 3/4 | 15,958 | 3/4 | 5,174  | 3/4 |        | 3/4 | 3/4    |    | 3/4    |    | 3/4    |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/05/2013 SW  
CALCULATED: 12/06/2013 CL  
PRINTED: 12/07/2013 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2013

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



# BARGE "CBC 1370"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/4"

| 0 FT. |     | 1 FT. |     | 2 FT. |     | 3 FT.   |     | 4 FT.   |     | 5 FT.   |     | 6 FT.   |     | 7 FT.   |     | 8 FT.   |     | 9 FT.   |     |        |
|-------|-----|-------|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|
| IN    | OUT | IN    | OUT | IN    | OUT | IN      | OUT | IN      | OUT | IN      | OUT | IN      | OUT | IN      | OUT | IN      | OUT | IN      | OUT |        |
| 0     | 0   | 0     | 0   | 0     | 0   | 162,008 | 0   | 149,992 | 0   | 137,952 | 0   | 125,866 | 0   | 113,779 | 0   | 101,693 | 0   | 89,606  |     |        |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 170,646 | 1/4 | 161,760 | 1/4 | 149,741 | 1/4 | 137,700 | 1/4 | 125,614 | 1/4 | 113,528 | 1/4 | 101,441 | 1/4 | 89,355 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 170,629 | 1/2 | 161,510 | 1/2 | 149,491 | 1/2 | 137,448 | 1/2 | 125,362 | 1/2 | 113,276 | 1/2 | 101,190 | 1/2 | 89,103 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 170,612 | 3/4 | 161,259 | 3/4 | 149,240 | 3/4 | 137,196 | 3/4 | 125,110 | 3/4 | 113,024 | 3/4 | 100,938 | 3/4 | 88,851 |
| 1     | 1   | 1     | 1   | 1     | 1   | 170,594 | 1   | 161,009 | 1   | 148,990 | 1   | 136,944 | 1   | 124,858 | 1   | 112,772 | 1   | 100,686 | 1   | 88,599 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 170,577 | 1/4 | 160,759 | 1/4 | 148,740 | 1/4 | 136,693 | 1/4 | 124,607 | 1/4 | 112,520 | 1/4 | 100,434 | 1/4 | 88,347 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 170,518 | 1/2 | 160,508 | 1/2 | 148,489 | 1/2 | 136,441 | 1/2 | 124,355 | 1/2 | 112,269 | 1/2 | 100,182 | 1/2 | 88,095 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 170,459 | 3/4 | 160,258 | 3/4 | 148,239 | 3/4 | 136,189 | 3/4 | 124,103 | 3/4 | 112,017 | 3/4 | 99,931  | 3/4 | 87,844 |
| 2     | 2   | 2     | 2   | 2     | 2   | 170,399 | 2   | 160,007 | 2   | 147,988 | 2   | 135,937 | 2   | 123,851 | 2   | 111,765 | 2   | 99,679  | 2   | 87,592 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 170,340 | 1/4 | 159,757 | 1/4 | 147,738 | 1/4 | 135,686 | 1/4 | 123,599 | 1/4 | 111,513 | 1/4 | 99,427  | 1/4 | 87,340 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 170,239 | 1/2 | 159,507 | 1/2 | 147,488 | 1/2 | 135,434 | 1/2 | 123,348 | 1/2 | 111,261 | 1/2 | 99,175  | 1/2 | 87,088 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 170,138 | 3/4 | 159,256 | 3/4 | 147,237 | 3/4 | 135,182 | 3/4 | 123,096 | 3/4 | 111,010 | 3/4 | 98,923  | 3/4 | 86,836 |
| 3     | 3   | 3     | 3   | 3     | 3   | 170,037 | 3   | 159,006 | 3   | 146,987 | 3   | 134,930 | 3   | 122,844 | 3   | 110,758 | 3   | 98,672  | 3   | 86,584 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 169,936 | 1/4 | 158,755 | 1/4 | 146,736 | 1/4 | 134,678 | 1/4 | 122,592 | 1/4 | 110,506 | 1/4 | 98,420  | 1/4 | 86,333 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 169,792 | 1/2 | 158,505 | 1/2 | 146,486 | 1/2 | 134,427 | 1/2 | 122,340 | 1/2 | 110,254 | 1/2 | 98,168  | 1/2 | 86,081 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 169,649 | 3/4 | 158,255 | 3/4 | 146,236 | 3/4 | 134,175 | 3/4 | 122,089 | 3/4 | 110,002 | 3/4 | 97,916  | 3/4 | 85,829 |
| 4     | 4   | 4     | 4   | 4     | 4   | 169,506 | 4   | 158,004 | 4   | 145,985 | 4   | 133,923 | 4   | 121,837 | 4   | 109,751 | 4   | 97,664  | 4   | 85,577 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 169,363 | 1/4 | 157,754 | 1/4 | 145,735 | 1/4 | 133,671 | 1/4 | 121,585 | 1/4 | 109,499 | 1/4 | 97,413  | 1/4 | 85,325 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 169,178 | 1/2 | 157,503 | 1/2 | 145,485 | 1/2 | 133,419 | 1/2 | 121,333 | 1/2 | 109,247 | 1/2 | 97,161  | 1/2 | 85,073 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 168,993 | 3/4 | 157,253 | 3/4 | 145,234 | 3/4 | 133,168 | 3/4 | 121,081 | 3/4 | 108,995 | 3/4 | 96,909  | 3/4 | 84,821 |
| 5     | 5   | 5     | 5   | 5     | 5   | 168,808 | 5   | 157,003 | 5   | 144,984 | 5   | 132,916 | 5   | 120,830 | 5   | 108,743 | 5   | 96,657  | 5   | 84,570 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 168,623 | 1/4 | 156,752 | 1/4 | 144,733 | 1/4 | 132,664 | 1/4 | 120,578 | 1/4 | 108,492 | 1/4 | 96,406  | 1/4 | 84,318 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 168,395 | 1/2 | 156,502 | 1/2 | 144,483 | 1/2 | 132,412 | 1/2 | 120,326 | 1/2 | 108,240 | 1/2 | 96,154  | 1/2 | 84,066 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 168,168 | 3/4 | 156,251 | 3/4 | 144,233 | 3/4 | 132,160 | 3/4 | 120,074 | 3/4 | 107,988 | 3/4 | 95,902  | 3/4 | 83,814 |
| 6     | 6   | 6     | 6   | 6     | 6   | 167,941 | 6   | 156,001 | 6   | 143,982 | 6   | 131,909 | 6   | 119,822 | 6   | 107,736 | 6   | 95,650  | 6   | 83,562 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 167,714 | 1/4 | 155,751 | 1/4 | 143,732 | 1/4 | 131,657 | 1/4 | 119,571 | 1/4 | 107,484 | 1/4 | 95,398  | 1/4 | 83,310 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 167,466 | 1/2 | 155,500 | 1/2 | 143,481 | 1/2 | 131,405 | 1/2 | 119,319 | 1/2 | 107,233 | 1/2 | 95,147  | 1/2 | 83,059 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 167,218 | 3/4 | 155,250 | 3/4 | 143,231 | 3/4 | 131,153 | 3/4 | 119,067 | 3/4 | 106,981 | 3/4 | 94,895  | 3/4 | 82,807 |
| 7     | 7   | 7     | 7   | 7     | 7   | 166,970 | 7   | 155,000 | 7   | 142,981 | 7   | 130,901 | 7   | 118,815 | 7   | 106,729 | 7   | 94,643  | 7   | 82,555 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 166,722 | 1/4 | 154,749 | 1/4 | 142,730 | 1/4 | 130,650 | 1/4 | 118,563 | 1/4 | 106,477 | 1/4 | 94,391  | 1/4 | 82,303 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 166,474 | 1/2 | 154,499 | 1/2 | 142,480 | 1/2 | 130,398 | 1/2 | 118,312 | 1/2 | 106,226 | 1/2 | 94,139  | 1/2 | 82,051 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 166,226 | 3/4 | 154,248 | 3/4 | 142,229 | 3/4 | 130,146 | 3/4 | 118,060 | 3/4 | 105,974 | 3/4 | 93,888  | 3/4 | 81,799 |
| 8     | 8   | 8     | 8   | 8     | 8   | 165,978 | 8   | 153,998 | 8   | 141,979 | 8   | 129,894 | 8   | 117,808 | 8   | 105,722 | 8   | 93,636  | 8   | 81,548 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 165,729 | 1/4 | 153,748 | 1/4 | 141,729 | 1/4 | 129,642 | 1/4 | 117,556 | 1/4 | 105,470 | 1/4 | 93,384  | 1/4 | 81,296 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 165,481 | 1/2 | 153,497 | 1/2 | 141,477 | 1/2 | 129,391 | 1/2 | 117,304 | 1/2 | 105,218 | 1/2 | 93,132  | 1/2 | 81,044 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 165,233 | 3/4 | 153,247 | 3/4 | 141,225 | 3/4 | 129,139 | 3/4 | 117,053 | 3/4 | 104,967 | 3/4 | 92,880  | 3/4 | 80,792 |
| 9     | 9   | 9     | 9   | 9     | 9   | 164,985 | 9   | 152,996 | 9   | 140,973 | 9   | 128,887 | 9   | 116,801 | 9   | 104,715 | 9   | 92,628  | 9   | 80,540 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 164,737 | 1/4 | 152,746 | 1/4 | 140,721 | 1/4 | 128,635 | 1/4 | 116,549 | 1/4 | 104,463 | 1/4 | 92,377  | 1/4 | 80,288 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 164,489 | 1/2 | 152,496 | 1/2 | 140,470 | 1/2 | 128,383 | 1/2 | 116,297 | 1/2 | 104,211 | 1/2 | 92,125  | 1/2 | 80,037 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 164,241 | 3/4 | 152,245 | 3/4 | 140,218 | 3/4 | 128,132 | 3/4 | 116,046 | 3/4 | 103,959 | 3/4 | 91,873  | 3/4 | 79,785 |
| 10    | 10  | 10    | 10  | 10    | 10  | 163,993 | 10  | 151,995 | 10  | 139,966 | 10  | 127,880 | 10  | 115,794 | 10  | 103,708 | 10  | 91,621  | 10  | 79,533 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 163,745 | 1/4 | 151,744 | 1/4 | 139,714 | 1/4 | 127,628 | 1/4 | 115,542 | 1/4 | 103,456 | 1/4 | 91,369  | 1/4 | 79,281 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 163,497 | 1/2 | 151,494 | 1/2 | 139,462 | 1/2 | 127,376 | 1/2 | 115,290 | 1/2 | 103,204 | 1/2 | 91,117  | 1/2 | 79,029 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 163,249 | 3/4 | 151,244 | 3/4 | 139,211 | 3/4 | 127,124 | 3/4 | 115,038 | 3/4 | 102,952 | 3/4 | 90,866  | 3/4 | 78,777 |
| 11    | 11  | 11    | 11  | 11    | 11  | 163,001 | 11  | 150,993 | 11  | 138,959 | 11  | 126,873 | 11  | 114,787 | 11  | 102,700 | 11  | 90,614  | 11  | 78,526 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4   | 1/4 | 162,753 | 1/4 | 150,743 | 1/4 | 138,707 | 1/4 | 126,621 | 1/4 | 114,535 | 1/4 | 102,449 | 1/4 | 90,362  | 1/4 | 78,274 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2   | 1/2 | 162,504 | 1/2 | 150,492 | 1/2 | 138,455 | 1/2 | 126,369 | 1/2 | 114,283 | 1/2 | 102,197 | 1/2 | 90,110  | 1/2 | 78,022 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4   | 3/4 | 162,256 | 3/4 | 150,242 | 3/4 | 138,203 | 3/4 | 126,117 | 3/4 | 114,031 | 3/4 | 101,945 | 3/4 | 89,858  | 3/4 | 77,770 |

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'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CBC 1370"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08 1/4"

| IN  | 10 FT. | IN  | 11 FT. | IN  | 12 FT. | IN  | 13 FT. | IN  | 14 FT. | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 77,518 | 0   | 65,430 | 0   | 53,342 | 0   | 41,253 | 0   | 29,424 | 0   | 17,372 | 0   | 5,292  | 0   |        | 0   |        | 0   |        |
| 1/4 | 77,266 | 1/4 | 65,178 | 1/4 | 53,090 | 1/4 | 41,002 | 1/4 | 29,179 | 1/4 | 17,120 | 1/4 | 5,042  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 77,014 | 1/2 | 64,926 | 1/2 | 52,838 | 1/2 | 40,750 | 1/2 | 28,934 | 1/2 | 16,868 | 1/2 | 4,793  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 76,763 | 3/4 | 64,674 | 3/4 | 52,586 | 3/4 | 40,498 | 3/4 | 28,690 | 3/4 | 16,616 | 3/4 | 4,544  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 1   | 76,511 | 1   | 64,423 | 1   | 52,334 | 1   | 40,246 | 1   | 28,445 | 1   | 16,364 | 1   | 4,295  | 1   | 1      | 1   | 1      | 1   | 1      |
| 1/4 | 76,259 | 1/4 | 64,171 | 1/4 | 52,083 | 1/4 | 39,994 | 1/4 | 28,200 | 1/4 | 16,112 | 1/4 | 4,046  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 76,007 | 1/2 | 63,919 | 1/2 | 51,831 | 1/2 | 39,742 | 1/2 | 27,948 | 1/2 | 15,861 | 1/2 | 3,799  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 75,755 | 3/4 | 63,667 | 3/4 | 51,579 | 3/4 | 39,491 | 3/4 | 27,697 | 3/4 | 15,609 | 3/4 | 3,552  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 2   | 75,503 | 2   | 63,415 | 2   | 51,327 | 2   | 39,239 | 2   | 27,445 | 2   | 15,357 | 2   | 3,305  | 2   | 2      | 2   | 2      | 2   | 2      |
| 1/4 | 75,252 | 1/4 | 63,163 | 1/4 | 51,075 | 1/4 | 38,987 | 1/4 | 27,193 | 1/4 | 15,105 | 1/4 | 3,059  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 75,000 | 1/2 | 62,912 | 1/2 | 50,823 | 1/2 | 38,735 | 1/2 | 26,941 | 1/2 | 14,853 | 1/2 | 2,828  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 74,748 | 3/4 | 62,660 | 3/4 | 50,571 | 3/4 | 38,483 | 3/4 | 26,689 | 3/4 | 14,601 | 3/4 | 2,598  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 3   | 74,496 | 3   | 62,408 | 3   | 50,320 | 3   | 38,231 | 3   | 26,437 | 3   | 14,350 | 3   | 2,368  | 3   | 3      | 3   | 3      | 3   | 3      |
| 1/4 | 74,244 | 1/4 | 62,156 | 1/4 | 50,068 | 1/4 | 37,980 | 1/4 | 26,186 | 1/4 | 14,098 | 1/4 | 2,138  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 73,992 | 1/2 | 61,904 | 1/2 | 49,816 | 1/2 | 37,735 | 1/2 | 25,934 | 1/2 | 13,846 | 1/2 | 1,949  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 73,741 | 3/4 | 61,652 | 3/4 | 49,564 | 3/4 | 37,490 | 3/4 | 25,682 | 3/4 | 13,594 | 3/4 | 1,760  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 4   | 73,489 | 4   | 61,401 | 4   | 49,312 | 4   | 37,245 | 4   | 25,430 | 4   | 13,342 | 4   | 1,571  | 4   | 4      | 4   | 4      | 4   | 4      |
| 1/4 | 73,237 | 1/4 | 61,149 | 1/4 | 49,060 | 1/4 | 37,000 | 1/4 | 25,178 | 1/4 | 13,090 | 1/4 | 1,382  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 72,985 | 1/2 | 60,897 | 1/2 | 48,809 | 1/2 | 36,756 | 1/2 | 24,926 | 1/2 | 12,839 | 1/2 | 1,235  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 72,733 | 3/4 | 60,645 | 3/4 | 48,557 | 3/4 | 36,512 | 3/4 | 24,675 | 3/4 | 12,587 | 3/4 | 1,089  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 5   | 72,481 | 5   | 60,393 | 5   | 48,305 | 5   | 36,267 | 5   | 24,423 | 5   | 12,335 | 5   | 942    | 5   | 5      | 5   | 5      | 5   | 5      |
| 1/4 | 72,230 | 1/4 | 60,141 | 1/4 | 48,053 | 1/4 | 36,023 | 1/4 | 24,171 | 1/4 | 12,083 | 1/4 | 795    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 71,978 | 1/2 | 59,889 | 1/2 | 47,801 | 1/2 | 35,778 | 1/2 | 23,919 | 1/2 | 11,831 | 1/2 | 690    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 71,726 | 3/4 | 59,638 | 3/4 | 47,549 | 3/4 | 35,534 | 3/4 | 23,667 | 3/4 | 11,579 | 3/4 | 585    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 6   | 71,474 | 6   | 59,386 | 6   | 47,298 | 6   | 35,290 | 6   | 23,415 | 6   | 11,328 | 6   | 480    | 6   | 6      | 6   | 6      | 6   | 6      |
| 1/4 | 71,222 | 1/4 | 59,134 | 1/4 | 47,046 | 1/4 | 35,045 | 1/4 | 23,164 | 1/4 | 11,076 | 1/4 | 375    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 70,970 | 1/2 | 58,882 | 1/2 | 46,794 | 1/2 | 34,801 | 1/2 | 22,912 | 1/2 | 10,824 | 1/2 | 312    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 70,719 | 3/4 | 58,630 | 3/4 | 46,542 | 3/4 | 34,556 | 3/4 | 22,660 | 3/4 | 10,572 | 3/4 | 249    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 7   | 70,467 | 7   | 58,378 | 7   | 46,290 | 7   | 34,312 | 7   | 22,408 | 7   | 10,320 | 7   | 186    | 7   | 7      | 7   | 7      | 7   | 7      |
| 1/4 | 70,215 | 1/4 | 58,127 | 1/4 | 46,038 | 1/4 | 34,068 | 1/4 | 22,156 | 1/4 | 10,068 | 1/4 | 123    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 69,963 | 1/2 | 57,875 | 1/2 | 45,787 | 1/2 | 33,823 | 1/2 | 21,904 | 1/2 | 9,817  | 1/2 | 102    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 69,711 | 3/4 | 57,623 | 3/4 | 45,535 | 3/4 | 33,579 | 3/4 | 21,653 | 3/4 | 9,565  | 3/4 | 81     | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 8   | 69,459 | 8   | 57,371 | 8   | 45,283 | 8   | 33,334 | 8   | 21,401 | 8   | 9,313  | 8   | 60     | 8   | 8      | 8   | 8      | 8   | 8      |
| 1/4 | 69,208 | 1/4 | 57,119 | 1/4 | 45,031 | 1/4 | 33,090 | 1/4 | 21,149 | 1/4 | 9,061  | 1/4 | 39     | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 68,956 | 1/2 | 56,867 | 1/2 | 44,779 | 1/2 | 32,845 | 1/2 | 20,897 | 1/2 | 8,809  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 68,704 | 3/4 | 56,616 | 3/4 | 44,527 | 3/4 | 32,601 | 3/4 | 20,645 | 3/4 | 8,558  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 9   | 68,452 | 9   | 56,364 | 9   | 44,276 | 9   | 32,357 | 9   | 20,393 | 9   | 8,306  | 9   |        | 9   | 9      | 9   | 9      | 9   | 9      |
| 1/4 | 68,200 | 1/4 | 56,112 | 1/4 | 44,024 | 1/4 | 32,112 | 1/4 | 20,142 | 1/4 | 8,054  | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 67,948 | 1/2 | 55,860 | 1/2 | 43,772 | 1/2 | 31,868 | 1/2 | 19,890 | 1/2 | 7,802  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 67,696 | 3/4 | 55,608 | 3/4 | 43,520 | 3/4 | 31,623 | 3/4 | 19,638 | 3/4 | 7,551  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 10  | 67,445 | 10  | 55,356 | 10  | 43,268 | 10  | 31,379 | 10  | 19,386 | 10  | 7,299  | 10  |        | 10  | 10     | 10  | 10     | 10  | 10     |
| 1/4 | 67,193 | 1/4 | 55,105 | 1/4 | 43,016 | 1/4 | 31,135 | 1/4 | 19,134 | 1/4 | 7,048  | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 66,941 | 1/2 | 54,853 | 1/2 | 42,764 | 1/2 | 30,890 | 1/2 | 18,883 | 1/2 | 6,796  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 66,689 | 3/4 | 54,601 | 3/4 | 42,513 | 3/4 | 30,646 | 3/4 | 18,631 | 3/4 | 6,545  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 11  | 66,437 | 11  | 54,349 | 11  | 42,261 | 11  | 30,401 | 11  | 18,379 | 11  | 6,294  | 11  |        | 11  | 11     | 11  | 11     | 11  | 11     |
| 1/4 | 66,185 | 1/4 | 54,097 | 1/4 | 42,009 | 1/4 | 30,157 | 1/4 | 18,127 | 1/4 | 6,043  | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 65,934 | 1/2 | 53,845 | 1/2 | 41,757 | 1/2 | 29,912 | 1/2 | 17,875 | 1/2 | 5,793  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 65,682 | 3/4 | 53,594 | 3/4 | 41,505 | 3/4 | 29,668 | 3/4 | 17,623 | 3/4 | 5,542  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/05/2013 SW  
CALCULATED: 12/06/2013 CL  
PRINTED: 12/07/2013 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2013

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



# BARGE "CBC 1370"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08"

| 0 FT. |     | 1 FT. |     | 2 FT.   |         | 3 FT.   |         | 4 FT.   |         | 5 FT.   |         | 6 FT.   |         | 7 FT.   |         | 8 FT.  |        | 9 FT.  |        |    |  |
|-------|-----|-------|-----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|----|--|
| IN    |     | IN    |     | IN      |         | IN      |         | IN      |         | IN      |         | IN      |         | IN      |         | IN     |        | IN     |        | IN |  |
| 0     |     | 0     |     | 0       | 151,538 | 0       | 143,659 | 0       | 133,002 | 0       | 122,325 | 0       | 111,610 | 0       | 100,894 | 0      | 90,178 | 0      | 79,462 |    |  |
| 1/4   | 1/4 | 1/4   | 1/4 | 151,523 | 1/4     | 143,437 | 1/4     | 132,780 | 1/4     | 122,102 | 1/4     | 111,386 | 1/4     | 100,671 | 1/4     | 89,955 | 1/4    | 79,238 | 1/4    |    |  |
| 1/2   | 1/2 | 1/2   | 1/2 | 151,507 | 1/2     | 143,215 | 1/2     | 132,558 | 1/2     | 121,879 | 1/2     | 111,163 | 1/2     | 100,447 | 1/2     | 89,732 | 1/2    | 79,015 | 1/2    |    |  |
| 3/4   | 3/4 | 3/4   | 3/4 | 151,492 | 3/4     | 142,993 | 3/4     | 132,336 | 3/4     | 121,656 | 3/4     | 110,940 | 3/4     | 100,224 | 3/4     | 89,508 | 3/4    | 78,792 | 3/4    |    |  |
| 1     |     | 1     |     | 1       | 151,477 | 1       | 142,771 | 1       | 132,114 | 1       | 121,432 | 1       | 110,717 | 1       | 100,001 | 1      | 89,285 | 1      | 78,569 |    |  |
| 1/4   | 1/4 | 1/4   | 1/4 | 151,424 | 1/4     | 142,549 | 1/4     | 131,892 | 1/4     | 121,209 | 1/4     | 110,493 | 1/4     | 99,778  | 1/4     | 89,062 | 1/4    | 78,345 | 1/4    |    |  |
| 1/2   | 1/2 | 1/2   | 1/2 | 151,372 | 1/2     | 142,327 | 1/2     | 131,670 | 1/2     | 120,986 | 1/2     | 110,270 | 1/2     | 99,554  | 1/2     | 88,839 | 1/2    | 78,122 | 1/2    |    |  |
| 3/4   | 3/4 | 3/4   | 3/4 | 151,319 | 3/4     | 142,105 | 3/4     | 131,448 | 3/4     | 120,763 | 3/4     | 110,047 | 3/4     | 99,331  | 3/4     | 88,615 | 3/4    | 77,899 | 3/4    |    |  |
| 2     |     | 2     |     | 2       | 151,267 | 2       | 141,883 | 2       | 131,226 | 2       | 120,539 | 2       | 109,824 | 2       | 99,108  | 2      | 88,392 | 2      | 77,675 |    |  |
| 1/4   | 1/4 | 1/4   | 1/4 | 151,177 | 1/4     | 141,661 | 1/4     | 131,004 | 1/4     | 120,316 | 1/4     | 109,600 | 1/4     | 98,885  | 1/4     | 88,169 | 1/4    | 77,452 | 1/4    |    |  |
| 1/2   | 1/2 | 1/2   | 1/2 | 151,087 | 1/2     | 141,439 | 1/2     | 130,782 | 1/2     | 120,093 | 1/2     | 109,377 | 1/2     | 98,661  | 1/2     | 87,946 | 1/2    | 77,229 | 1/2    |    |  |
| 3/4   | 3/4 | 3/4   | 3/4 | 150,998 | 3/4     | 141,217 | 3/4     | 130,560 | 3/4     | 119,870 | 3/4     | 109,154 | 3/4     | 98,438  | 3/4     | 87,722 | 3/4    | 77,006 | 3/4    |    |  |
| 3     |     | 3     |     | 3       | 150,908 | 3       | 140,995 | 3       | 130,338 | 3       | 119,646 | 3       | 108,931 | 3       | 98,215  | 3      | 87,499 | 3      | 76,782 |    |  |
| 1/4   | 1/4 | 1/4   | 1/4 | 150,781 | 1/4     | 140,773 | 1/4     | 130,116 | 1/4     | 119,423 | 1/4     | 108,707 | 1/4     | 97,992  | 1/4     | 87,276 | 1/4    | 76,559 | 1/4    |    |  |
| 1/2   | 1/2 | 1/2   | 1/2 | 150,654 | 1/2     | 140,551 | 1/2     | 129,894 | 1/2     | 119,200 | 1/2     | 108,484 | 1/2     | 97,768  | 1/2     | 87,053 | 1/2    | 76,336 | 1/2    |    |  |
| 3/4   | 3/4 | 3/4   | 3/4 | 150,527 | 3/4     | 140,329 | 3/4     | 129,672 | 3/4     | 118,977 | 3/4     | 108,261 | 3/4     | 97,545  | 3/4     | 86,829 | 3/4    | 76,112 | 3/4    |    |  |
| 4     |     | 4     |     | 4       | 150,400 | 4       | 140,107 | 4       | 129,450 | 4       | 118,753 | 4       | 108,038 | 4       | 97,322  | 4      | 86,606 | 4      | 75,889 |    |  |
| 1/4   | 1/4 | 1/4   | 1/4 | 150,236 | 1/4     | 139,885 | 1/4     | 129,228 | 1/4     | 118,530 | 1/4     | 107,814 | 1/4     | 97,099  | 1/4     | 86,383 | 1/4    | 75,666 | 1/4    |    |  |
| 1/2   | 1/2 | 1/2   | 1/2 | 150,072 | 1/2     | 139,663 | 1/2     | 129,006 | 1/2     | 118,307 | 1/2     | 107,591 | 1/2     | 96,875  | 1/2     | 86,160 | 1/2    | 75,443 | 1/2    |    |  |
| 3/4   | 3/4 | 3/4   | 3/4 | 149,908 | 3/4     | 139,440 | 3/4     | 128,784 | 3/4     | 118,084 | 3/4     | 107,368 | 3/4     | 96,652  | 3/4     | 85,936 | 3/4    | 75,219 | 3/4    |    |  |
| 5     |     | 5     |     | 5       | 149,744 | 5       | 139,218 | 5       | 128,561 | 5       | 117,860 | 5       | 107,145 | 5       | 96,429  | 5      | 85,713 | 5      | 74,996 |    |  |
| 1/4   | 1/4 | 1/4   | 1/4 | 149,542 | 1/4     | 138,996 | 1/4     | 128,339 | 1/4     | 117,637 | 1/4     | 106,921 | 1/4     | 96,206  | 1/4     | 85,490 | 1/4    | 74,773 | 1/4    |    |  |
| 1/2   | 1/2 | 1/2   | 1/2 | 149,341 | 1/2     | 138,774 | 1/2     | 128,117 | 1/2     | 117,414 | 1/2     | 106,698 | 1/2     | 95,982  | 1/2     | 85,267 | 1/2    | 74,549 | 1/2    |    |  |
| 3/4   | 3/4 | 3/4   | 3/4 | 149,140 | 3/4     | 138,552 | 3/4     | 127,895 | 3/4     | 117,191 | 3/4     | 106,475 | 3/4     | 95,759  | 3/4     | 85,043 | 3/4    | 74,326 | 3/4    |    |  |
| 6     |     | 6     |     | 6       | 148,938 | 6       | 138,330 | 6       | 127,673 | 6       | 116,967 | 6       | 106,252 | 6       | 95,536  | 6      | 84,820 | 6      | 74,103 |    |  |
| 1/4   | 1/4 | 1/4   | 1/4 | 148,718 | 1/4     | 138,108 | 1/4     | 127,451 | 1/4     | 116,744 | 1/4     | 106,028 | 1/4     | 95,313  | 1/4     | 84,597 | 1/4    | 73,880 | 1/4    |    |  |
| 1/2   | 1/2 | 1/2   | 1/2 | 148,498 | 1/2     | 137,886 | 1/2     | 127,229 | 1/2     | 116,521 | 1/2     | 105,805 | 1/2     | 95,089  | 1/2     | 84,374 | 1/2    | 73,656 | 1/2    |    |  |
| 3/4   | 3/4 | 3/4   | 3/4 | 148,278 | 3/4     | 137,664 | 3/4     | 127,007 | 3/4     | 116,298 | 3/4     | 105,582 | 3/4     | 94,866  | 3/4     | 84,150 | 3/4    | 73,433 | 3/4    |    |  |
| 7     |     | 7     |     | 7       | 148,058 | 7       | 137,442 | 7       | 126,785 | 7       | 116,074 | 7       | 105,359 | 7       | 94,643  | 7      | 83,927 | 7      | 73,210 |    |  |
| 1/4   | 1/4 | 1/4   | 1/4 | 147,838 | 1/4     | 137,220 | 1/4     | 126,563 | 1/4     | 115,851 | 1/4     | 105,135 | 1/4     | 94,420  | 1/4     | 83,704 | 1/4    | 72,986 | 1/4    |    |  |
| 1/2   | 1/2 | 1/2   | 1/2 | 147,618 | 1/2     | 136,998 | 1/2     | 126,341 | 1/2     | 115,628 | 1/2     | 104,912 | 1/2     | 94,196  | 1/2     | 83,481 | 1/2    | 72,763 | 1/2    |    |  |
| 3/4   | 3/4 | 3/4   | 3/4 | 147,398 | 3/4     | 136,776 | 3/4     | 126,119 | 3/4     | 115,405 | 3/4     | 104,689 | 3/4     | 93,973  | 3/4     | 83,257 | 3/4    | 72,540 | 3/4    |    |  |
| 8     |     | 8     |     | 8       | 147,178 | 8       | 136,554 | 8       | 125,897 | 8       | 115,181 | 8       | 104,466 | 8       | 93,750  | 8      | 83,034 | 8      | 72,317 |    |  |
| 1/4   | 1/4 | 1/4   | 1/4 | 146,958 | 1/4     | 136,332 | 1/4     | 125,674 | 1/4     | 114,958 | 1/4     | 104,242 | 1/4     | 93,527  | 1/4     | 82,811 | 1/4    | 72,093 | 1/4    |    |  |
| 1/2   | 1/2 | 1/2   | 1/2 | 146,738 | 1/2     | 136,110 | 1/2     | 125,451 | 1/2     | 114,735 | 1/2     | 104,019 | 1/2     | 93,303  | 1/2     | 82,588 | 1/2    | 71,870 | 1/2    |    |  |
| 3/4   | 3/4 | 3/4   | 3/4 | 146,518 | 3/4     | 135,888 | 3/4     | 125,227 | 3/4     | 114,512 | 3/4     | 103,796 | 3/4     | 93,080  | 3/4     | 82,364 | 3/4    | 71,647 | 3/4    |    |  |
| 9     |     | 9     |     | 9       | 146,299 | 9       | 135,666 | 9       | 125,004 | 9       | 114,288 | 9       | 103,573 | 9       | 92,857  | 9      | 82,141 | 9      | 71,424 |    |  |
| 1/4   | 1/4 | 1/4   | 1/4 | 146,079 | 1/4     | 135,444 | 1/4     | 124,781 | 1/4     | 114,065 | 1/4     | 103,349 | 1/4     | 92,634  | 1/4     | 81,918 | 1/4    | 71,200 | 1/4    |    |  |
| 1/2   | 1/2 | 1/2   | 1/2 | 145,859 | 1/2     | 135,222 | 1/2     | 124,558 | 1/2     | 113,842 | 1/2     | 103,126 | 1/2     | 92,410  | 1/2     | 81,695 | 1/2    | 70,977 | 1/2    |    |  |
| 3/4   | 3/4 | 3/4   | 3/4 | 145,639 | 3/4     | 135,000 | 3/4     | 124,335 | 3/4     | 113,619 | 3/4     | 102,903 | 3/4     | 92,187  | 3/4     | 81,471 | 3/4    | 70,754 | 3/4    |    |  |
| 10    |     | 10    |     | 10      | 145,419 | 10      | 134,778 | 10      | 124,111 | 10      | 113,396 | 10      | 102,680 | 10      | 91,964  | 10     | 81,248 | 10     | 70,530 |    |  |
| 1/4   | 1/4 | 1/4   | 1/4 | 145,199 | 1/4     | 134,556 | 1/4     | 123,888 | 1/4     | 113,172 | 1/4     | 102,457 | 1/4     | 91,741  | 1/4     | 81,025 | 1/4    | 70,307 | 1/4    |    |  |
| 1/2   | 1/2 | 1/2   | 1/2 | 144,979 | 1/2     | 134,334 | 1/2     | 123,665 | 1/2     | 112,949 | 1/2     | 102,233 | 1/2     | 91,518  | 1/2     | 80,801 | 1/2    | 70,084 | 1/2    |    |  |
| 3/4   | 3/4 | 3/4   | 3/4 | 144,759 | 3/4     | 134,112 | 3/4     | 123,442 | 3/4     | 112,726 | 3/4     | 102,010 | 3/4     | 91,294  | 3/4     | 80,578 | 3/4    | 69,861 | 3/4    |    |  |
| 11    |     | 11    |     | 11      | 144,539 | 11      | 133,890 | 11      | 123,218 | 11      | 112,503 | 11      | 101,787 | 11      | 91,071  | 11     | 80,355 | 11     | 69,637 |    |  |
| 1/4   | 1/4 | 1/4   | 1/4 | 144,319 | 1/4     | 133,668 | 1/4     | 122,995 | 1/4     | 112,279 | 1/4     | 101,564 | 1/4     | 90,848  | 1/4     | 80,132 | 1/4    | 69,414 | 1/4    |    |  |
| 1/2   | 1/2 | 1/2   | 1/2 | 144,099 | 1/2     | 133,446 | 1/2     | 122,772 | 1/2     | 112,056 | 1/2     | 101,340 | 1/2     | 90,625  | 1/2     | 79,908 | 1/2    | 69,191 | 1/2    |    |  |
| 3/4   | 3/4 | 3/4   | 3/4 | 143,879 | 3/4     | 133,224 | 3/4     | 122,549 | 3/4     | 111,833 | 3/4     | 101,117 | 3/4     | 90,401  | 3/4     | 79,685 | 3/4    | 68,967 | 3/4    |    |  |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 23'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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<http://www.pmacorp.net>



# BARGE "CBC 1370"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-08"

| 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   | 68,744 | 0   | 58,027 | 0   | 47,309 | 0   | 36,591 | 0   | 25,897 | 0   | 15,182 | 0   | 4,474  | 0   |        | 0  |        | 0  |        |
| 1/4 | 68,521 | 1/4 | 57,803 | 1/4 | 47,086 | 1/4 | 36,368 | 1/4 | 25,674 | 1/4 | 14,959 | 1/4 | 4,253  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 68,298 | 1/2 | 57,580 | 1/2 | 46,862 | 1/2 | 36,145 | 1/2 | 25,451 | 1/2 | 14,736 | 1/2 | 4,033  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 68,074 | 3/4 | 57,357 | 3/4 | 46,639 | 3/4 | 35,922 | 3/4 | 25,228 | 3/4 | 14,513 | 3/4 | 3,812  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 1   | 67,851 | 1   | 57,133 | 1   | 46,416 | 1   | 35,698 | 1   | 25,005 | 1   | 14,289 | 1   | 3,591  | 1   | 1      |    | 1      |    | 1      |
| 1/4 | 67,628 | 1/4 | 56,910 | 1/4 | 46,193 | 1/4 | 35,475 | 1/4 | 24,782 | 1/4 | 14,066 | 1/4 | 3,372  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 67,404 | 1/2 | 56,687 | 1/2 | 45,969 | 1/2 | 35,252 | 1/2 | 24,559 | 1/2 | 13,843 | 1/2 | 3,153  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 67,181 | 3/4 | 56,464 | 3/4 | 45,746 | 3/4 | 35,028 | 3/4 | 24,336 | 3/4 | 13,620 | 3/4 | 2,935  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 2   | 66,958 | 2   | 56,240 | 2   | 45,523 | 2   | 34,805 | 2   | 24,113 | 2   | 13,396 | 2   | 2,716  | 2   | 2      |    | 2      |    | 2      |
| 1/4 | 66,735 | 1/4 | 56,017 | 1/4 | 45,299 | 1/4 | 34,582 | 1/4 | 23,890 | 1/4 | 13,173 | 1/4 | 2,512  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 66,511 | 1/2 | 55,794 | 1/2 | 45,076 | 1/2 | 34,359 | 1/2 | 23,667 | 1/2 | 12,950 | 1/2 | 2,308  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 66,288 | 3/4 | 55,570 | 3/4 | 44,853 | 3/4 | 34,135 | 3/4 | 23,444 | 3/4 | 12,726 | 3/4 | 2,104  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 3   | 66,065 | 3   | 55,347 | 3   | 44,630 | 3   | 33,912 | 3   | 23,220 | 3   | 12,503 | 3   | 1,899  | 3   | 3      |    | 3      |    | 3      |
| 1/4 | 65,841 | 1/4 | 55,124 | 1/4 | 44,406 | 1/4 | 33,689 | 1/4 | 22,997 | 1/4 | 12,280 | 1/4 | 1,732  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 65,618 | 1/2 | 54,901 | 1/2 | 44,183 | 1/2 | 33,465 | 1/2 | 22,774 | 1/2 | 12,057 | 1/2 | 1,565  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 65,395 | 3/4 | 54,677 | 3/4 | 43,960 | 3/4 | 33,242 | 3/4 | 22,551 | 3/4 | 11,833 | 3/4 | 1,397  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 4   | 65,172 | 4   | 54,454 | 4   | 43,736 | 4   | 33,019 | 4   | 22,327 | 4   | 11,610 | 4   | 1,230  | 4   | 4      |    | 4      |    | 4      |
| 1/4 | 64,948 | 1/4 | 54,231 | 1/4 | 43,513 | 1/4 | 32,796 | 1/4 | 22,104 | 1/4 | 11,387 | 1/4 | 1,099  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 64,725 | 1/2 | 54,007 | 1/2 | 43,290 | 1/2 | 32,574 | 1/2 | 21,881 | 1/2 | 11,164 | 1/2 | 969    | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 64,502 | 3/4 | 53,784 | 3/4 | 43,067 | 3/4 | 32,351 | 3/4 | 21,657 | 3/4 | 10,940 | 3/4 | 839    | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 5   | 64,278 | 5   | 53,561 | 5   | 42,843 | 5   | 32,129 | 5   | 21,434 | 5   | 10,717 | 5   | 709    | 5   | 5      |    | 5      |    | 5      |
| 1/4 | 64,055 | 1/4 | 53,338 | 1/4 | 42,620 | 1/4 | 31,906 | 1/4 | 21,211 | 1/4 | 10,494 | 1/4 | 616    | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 63,832 | 1/2 | 53,114 | 1/2 | 42,397 | 1/2 | 31,683 | 1/2 | 20,988 | 1/2 | 10,270 | 1/2 | 523    | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 63,609 | 3/4 | 52,891 | 3/4 | 42,173 | 3/4 | 31,461 | 3/4 | 20,764 | 3/4 | 10,047 | 3/4 | 430    | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 6   | 63,385 | 6   | 52,668 | 6   | 41,950 | 6   | 31,238 | 6   | 20,541 | 6   | 9,824  | 6   | 337    | 6   | 6      |    | 6      |    | 6      |
| 1/4 | 63,162 | 1/4 | 52,444 | 1/4 | 41,727 | 1/4 | 31,016 | 1/4 | 20,318 | 1/4 | 9,601  | 1/4 | 281    | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 62,939 | 1/2 | 52,221 | 1/2 | 41,504 | 1/2 | 30,793 | 1/2 | 20,095 | 1/2 | 9,377  | 1/2 | 225    | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 62,715 | 3/4 | 51,998 | 3/4 | 41,280 | 3/4 | 30,571 | 3/4 | 19,871 | 3/4 | 9,154  | 3/4 | 169    | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 7   | 62,492 | 7   | 51,775 | 7   | 41,057 | 7   | 30,348 | 7   | 19,648 | 7   | 8,931  | 7   | 113    | 7   | 7      |    | 7      |    | 7      |
| 1/4 | 62,269 | 1/4 | 51,551 | 1/4 | 40,834 | 1/4 | 30,126 | 1/4 | 19,425 | 1/4 | 8,708  | 1/4 | 95     | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 62,046 | 1/2 | 51,328 | 1/2 | 40,610 | 1/2 | 29,903 | 1/2 | 19,201 | 1/2 | 8,484  | 1/2 | 76     | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 61,822 | 3/4 | 51,105 | 3/4 | 40,387 | 3/4 | 29,680 | 3/4 | 18,978 | 3/4 | 8,261  | 3/4 | 58     | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 8   | 61,599 | 8   | 50,882 | 8   | 40,164 | 8   | 29,458 | 8   | 18,755 | 8   | 8,038  | 8   | 39     | 8   | 8      |    | 8      |    | 8      |
| 1/4 | 61,376 | 1/4 | 50,658 | 1/4 | 39,941 | 1/4 | 29,235 | 1/4 | 18,532 | 1/4 | 7,814  | 1/4 |        | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 61,153 | 1/2 | 50,435 | 1/2 | 39,717 | 1/2 | 29,013 | 1/2 | 18,308 | 1/2 | 7,591  | 1/2 |        | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 60,929 | 3/4 | 50,212 | 3/4 | 39,494 | 3/4 | 28,790 | 3/4 | 18,085 | 3/4 | 7,368  | 3/4 |        | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 9   | 60,706 | 9   | 49,988 | 9   | 39,271 | 9   | 28,568 | 9   | 17,862 | 9   | 7,145  | 9   |        | 9   | 9      |    | 9      |    | 9      |
| 1/4 | 60,483 | 1/4 | 49,765 | 1/4 | 39,048 | 1/4 | 28,345 | 1/4 | 17,639 | 1/4 | 6,922  | 1/4 |        | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 60,259 | 1/2 | 49,542 | 1/2 | 38,824 | 1/2 | 28,122 | 1/2 | 17,415 | 1/2 | 6,699  | 1/2 |        | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 60,036 | 3/4 | 49,319 | 3/4 | 38,601 | 3/4 | 27,900 | 3/4 | 17,192 | 3/4 | 6,475  | 3/4 |        | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 10  | 59,813 | 10  | 49,095 | 10  | 38,378 | 10  | 27,677 | 10  | 16,969 | 10  | 6,252  | 10  |        | 10  | 10     |    | 10     |    | 10     |
| 1/4 | 59,590 | 1/4 | 48,872 | 1/4 | 38,154 | 1/4 | 27,455 | 1/4 | 16,745 | 1/4 | 6,030  | 1/4 |        | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 59,366 | 1/2 | 48,649 | 1/2 | 37,931 | 1/2 | 27,232 | 1/2 | 16,522 | 1/2 | 5,807  | 1/2 |        | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 59,143 | 3/4 | 48,425 | 3/4 | 37,708 | 3/4 | 27,010 | 3/4 | 16,299 | 3/4 | 5,584  | 3/4 |        | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 11  | 58,920 | 11  | 48,202 | 11  | 37,485 | 11  | 26,787 | 11  | 16,076 | 11  | 5,362  | 11  |        | 11  | 11     |    | 11     |    | 11     |
| 1/4 | 58,696 | 1/4 | 47,979 | 1/4 | 37,261 | 1/4 | 26,564 | 1/4 | 15,852 | 1/4 | 5,140  | 1/4 |        | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 58,473 | 1/2 | 47,756 | 1/2 | 37,038 | 1/2 | 26,342 | 1/2 | 15,629 | 1/2 | 4,918  | 1/2 |        | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 58,250 | 3/4 | 47,532 | 3/4 | 36,815 | 3/4 | 26,119 | 3/4 | 15,406 | 3/4 | 4,696  | 3/4 |        | 3/4 | 3/4    |    | 3/4    |    | 3/4    |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/05/2013 SW  
CALCULATED: 12/06/2013 CL  
PRINTED: 12/07/2013 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 11/2013

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