



# BARGE "CBC 1351"

## 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     | 00-0/8     | - 00-0/8     | 00-0/8     | - 00-0/8     | 00-0/8     | - 00-0/8     | 00-0/8     | - 00-0/8     | 00-0/8     | - 00-0/8     |
| 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 INNAGE GAUGE OF 4'-00" ON 3 CENTER, THE TRIM CORRECTED INNAGE IS 3'-11 1/2'

LENGTH BETWEEN DRAFT MARKS: 161'-09"

August 28, 2012

PRECISION MEASUREMENT  
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# BARGE "CBC 1351"

# 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07"

| 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   | 8,086  | 0   | 18,869 | 0   | 29,501 | 0   | 40,162 | 0   | 50,916 | 0   | 61,671 | 0   | 72,402 | 0   | 83,135 | 0   | 93,893  |
| 1/4 | 58    | 1/4 | 8,311  | 1/4 | 19,093 | 1/4 | 29,719 | 1/4 | 40,386 | 1/4 | 51,140 | 1/4 | 61,895 | 1/4 | 72,625 | 1/4 | 83,359 | 1/4 | 94,117  |
| 1/2 | 77    | 1/2 | 8,536  | 1/2 | 19,318 | 1/2 | 29,937 | 1/2 | 40,610 | 1/2 | 51,364 | 1/2 | 62,119 | 1/2 | 72,847 | 1/2 | 83,583 | 1/2 | 94,341  |
| 3/4 | 95    | 3/4 | 8,760  | 3/4 | 19,542 | 3/4 | 30,155 | 3/4 | 40,834 | 3/4 | 51,588 | 3/4 | 62,343 | 3/4 | 73,070 | 3/4 | 83,807 | 3/4 | 94,565  |
| 1   | 114   | 1   | 8,985  | 1   | 19,767 | 1   | 30,374 | 1   | 41,058 | 1   | 51,813 | 1   | 62,567 | 1   | 73,293 | 1   | 84,031 | 1   | 94,789  |
| 1/4 | 170   | 1/4 | 9,209  | 1/4 | 19,992 | 1/4 | 30,592 | 1/4 | 41,282 | 1/4 | 52,037 | 1/4 | 62,791 | 1/4 | 73,515 | 1/4 | 84,255 | 1/4 | 95,013  |
| 1/2 | 226   | 1/2 | 9,434  | 1/2 | 20,216 | 1/2 | 30,810 | 1/2 | 41,506 | 1/2 | 52,261 | 1/2 | 63,015 | 1/2 | 73,738 | 1/2 | 84,480 | 1/2 | 95,237  |
| 3/4 | 283   | 3/4 | 9,659  | 3/4 | 20,441 | 3/4 | 31,028 | 3/4 | 41,730 | 3/4 | 52,485 | 3/4 | 63,239 | 3/4 | 73,961 | 3/4 | 84,704 | 3/4 | 95,461  |
| 2   | 339   | 2   | 9,883  | 2   | 20,666 | 2   | 31,246 | 2   | 41,954 | 2   | 52,709 | 2   | 63,463 | 2   | 74,183 | 2   | 84,928 | 2   | 95,685  |
| 1/4 | 432   | 1/4 | 10,108 | 1/4 | 20,890 | 1/4 | 31,465 | 1/4 | 42,178 | 1/4 | 52,933 | 1/4 | 63,687 | 1/4 | 74,406 | 1/4 | 85,152 | 1/4 | 95,910  |
| 1/2 | 526   | 1/2 | 10,333 | 1/2 | 21,115 | 1/2 | 31,683 | 1/2 | 42,402 | 1/2 | 53,157 | 1/2 | 63,911 | 1/2 | 74,629 | 1/2 | 85,376 | 1/2 | 96,134  |
| 3/4 | 620   | 3/4 | 10,557 | 3/4 | 21,340 | 3/4 | 31,901 | 3/4 | 42,627 | 3/4 | 53,381 | 3/4 | 64,135 | 3/4 | 74,852 | 3/4 | 85,600 | 3/4 | 96,358  |
| 3   | 713   | 3   | 10,782 | 3   | 21,564 | 3   | 32,119 | 3   | 42,851 | 3   | 53,605 | 3   | 64,359 | 3   | 75,074 | 3   | 85,824 | 3   | 96,582  |
| 1/4 | 844   | 1/4 | 11,007 | 1/4 | 21,789 | 1/4 | 32,338 | 1/4 | 43,075 | 1/4 | 53,829 | 1/4 | 64,583 | 1/4 | 75,297 | 1/4 | 86,048 | 1/4 | 96,806  |
| 1/2 | 975   | 1/2 | 11,231 | 1/2 | 22,013 | 1/2 | 32,556 | 1/2 | 43,299 | 1/2 | 54,053 | 1/2 | 64,807 | 1/2 | 75,520 | 1/2 | 86,272 | 1/2 | 97,030  |
| 3/4 | 1,106 | 3/4 | 11,456 | 3/4 | 22,238 | 3/4 | 32,774 | 3/4 | 43,523 | 3/4 | 54,277 | 3/4 | 65,031 | 3/4 | 75,742 | 3/4 | 86,497 | 3/4 | 97,254  |
| 4   | 1,237 | 4   | 11,680 | 4   | 22,463 | 4   | 32,992 | 4   | 43,747 | 4   | 54,501 | 4   | 65,255 | 4   | 75,965 | 4   | 86,721 | 4   | 97,478  |
| 1/4 | 1,406 | 1/4 | 11,905 | 1/4 | 22,687 | 1/4 | 33,216 | 1/4 | 43,971 | 1/4 | 54,725 | 1/4 | 65,480 | 1/4 | 76,188 | 1/4 | 86,945 | 1/4 | 97,703  |
| 1/2 | 1,574 | 1/2 | 12,130 | 1/2 | 22,912 | 1/2 | 33,440 | 1/2 | 44,195 | 1/2 | 54,949 | 1/2 | 65,704 | 1/2 | 76,412 | 1/2 | 87,169 | 1/2 | 97,927  |
| 3/4 | 1,742 | 3/4 | 12,354 | 3/4 | 23,137 | 3/4 | 33,665 | 3/4 | 44,419 | 3/4 | 55,173 | 3/4 | 65,928 | 3/4 | 76,635 | 3/4 | 87,393 | 3/4 | 98,151  |
| 5   | 1,911 | 5   | 12,579 | 5   | 23,361 | 5   | 33,889 | 5   | 44,643 | 5   | 55,397 | 5   | 66,152 | 5   | 76,859 | 5   | 87,617 | 5   | 98,375  |
| 1/4 | 2,116 | 1/4 | 12,804 | 1/4 | 23,586 | 1/4 | 34,113 | 1/4 | 44,867 | 1/4 | 55,621 | 1/4 | 66,376 | 1/4 | 77,083 | 1/4 | 87,841 | 1/4 | 98,599  |
| 1/2 | 2,321 | 1/2 | 13,028 | 1/2 | 23,810 | 1/2 | 34,337 | 1/2 | 45,091 | 1/2 | 55,845 | 1/2 | 66,600 | 1/2 | 77,307 | 1/2 | 88,065 | 1/2 | 98,823  |
| 3/4 | 2,527 | 3/4 | 13,253 | 3/4 | 24,035 | 3/4 | 34,561 | 3/4 | 45,315 | 3/4 | 56,069 | 3/4 | 66,824 | 3/4 | 77,531 | 3/4 | 88,290 | 3/4 | 99,047  |
| 6   | 2,732 | 6   | 13,477 | 6   | 24,260 | 6   | 34,785 | 6   | 45,539 | 6   | 56,293 | 6   | 67,048 | 6   | 77,755 | 6   | 88,514 | 6   | 99,271  |
| 1/4 | 2,952 | 1/4 | 13,702 | 1/4 | 24,478 | 1/4 | 35,009 | 1/4 | 45,763 | 1/4 | 56,518 | 1/4 | 67,271 | 1/4 | 77,979 | 1/4 | 88,738 | 1/4 | 99,495  |
| 1/2 | 3,172 | 1/2 | 13,927 | 1/2 | 24,697 | 1/2 | 35,233 | 1/2 | 45,987 | 1/2 | 56,742 | 1/2 | 67,495 | 1/2 | 78,204 | 1/2 | 88,962 | 1/2 | 99,720  |
| 3/4 | 3,393 | 3/4 | 14,151 | 3/4 | 24,916 | 3/4 | 35,457 | 3/4 | 46,211 | 3/4 | 56,966 | 3/4 | 67,718 | 3/4 | 78,428 | 3/4 | 89,186 | 3/4 | 99,944  |
| 7   | 3,613 | 7   | 14,376 | 7   | 25,134 | 7   | 35,681 | 7   | 46,435 | 7   | 57,190 | 7   | 67,942 | 7   | 78,652 | 7   | 89,410 | 7   | 100,168 |
| 1/4 | 3,835 | 1/4 | 14,601 | 1/4 | 25,353 | 1/4 | 35,905 | 1/4 | 46,659 | 1/4 | 57,414 | 1/4 | 68,165 | 1/4 | 78,876 | 1/4 | 89,634 | 1/4 | 100,392 |
| 1/2 | 4,057 | 1/2 | 14,825 | 1/2 | 25,571 | 1/2 | 36,129 | 1/2 | 46,883 | 1/2 | 57,638 | 1/2 | 68,389 | 1/2 | 79,100 | 1/2 | 89,858 | 1/2 | 100,616 |
| 3/4 | 4,279 | 3/4 | 15,050 | 3/4 | 25,790 | 3/4 | 36,353 | 3/4 | 47,107 | 3/4 | 57,862 | 3/4 | 68,612 | 3/4 | 79,324 | 3/4 | 90,082 | 3/4 | 100,840 |
| 8   | 4,501 | 8   | 15,275 | 8   | 26,009 | 8   | 36,577 | 8   | 47,332 | 8   | 58,086 | 8   | 68,836 | 8   | 79,548 | 8   | 90,307 | 8   | 101,064 |
| 1/4 | 4,724 | 1/4 | 15,499 | 1/4 | 26,227 | 1/4 | 36,801 | 1/4 | 47,556 | 1/4 | 58,310 | 1/4 | 69,059 | 1/4 | 79,773 | 1/4 | 90,531 | 1/4 | 101,288 |
| 1/2 | 4,948 | 1/2 | 15,724 | 1/2 | 26,445 | 1/2 | 37,025 | 1/2 | 47,780 | 1/2 | 58,534 | 1/2 | 69,282 | 1/2 | 79,997 | 1/2 | 90,755 | 1/2 | 101,513 |
| 3/4 | 5,171 | 3/4 | 15,948 | 3/4 | 26,663 | 3/4 | 37,249 | 3/4 | 48,004 | 3/4 | 58,758 | 3/4 | 69,506 | 3/4 | 80,221 | 3/4 | 90,979 | 3/4 | 101,737 |
| 9   | 5,394 | 9   | 16,173 | 9   | 26,882 | 9   | 37,473 | 9   | 48,228 | 9   | 58,982 | 9   | 69,729 | 9   | 80,445 | 9   | 91,203 | 9   | 101,961 |
| 1/4 | 5,618 | 1/4 | 16,398 | 1/4 | 27,100 | 1/4 | 37,697 | 1/4 | 48,452 | 1/4 | 59,206 | 1/4 | 69,952 | 1/4 | 80,669 | 1/4 | 91,427 | 1/4 | 102,185 |
| 1/2 | 5,842 | 1/2 | 16,622 | 1/2 | 27,318 | 1/2 | 37,921 | 1/2 | 48,676 | 1/2 | 59,430 | 1/2 | 70,175 | 1/2 | 80,893 | 1/2 | 91,651 | 1/2 | 102,409 |
| 3/4 | 6,066 | 3/4 | 16,847 | 3/4 | 27,536 | 3/4 | 38,146 | 3/4 | 48,900 | 3/4 | 59,654 | 3/4 | 70,397 | 3/4 | 81,117 | 3/4 | 91,875 | 3/4 | 102,633 |
| 10  | 6,290 | 10  | 17,072 | 10  | 27,755 | 10  | 38,370 | 10  | 49,124 | 10  | 59,878 | 10  | 70,620 | 10  | 81,342 | 10  | 92,100 | 10  | 102,857 |
| 1/4 | 6,515 | 1/4 | 17,296 | 1/4 | 27,973 | 1/4 | 38,594 | 1/4 | 49,348 | 1/4 | 60,102 | 1/4 | 70,843 | 1/4 | 81,566 | 1/4 | 92,324 | 1/4 | 103,081 |
| 1/2 | 6,739 | 1/2 | 17,521 | 1/2 | 28,191 | 1/2 | 38,818 | 1/2 | 49,572 | 1/2 | 60,326 | 1/2 | 71,066 | 1/2 | 81,790 | 1/2 | 92,548 | 1/2 | 103,305 |
| 3/4 | 6,963 | 3/4 | 17,745 | 3/4 | 28,409 | 3/4 | 39,042 | 3/4 | 49,796 | 3/4 | 60,550 | 3/4 | 71,288 | 3/4 | 82,014 | 3/4 | 92,772 | 3/4 | 103,530 |
| 11  | 7,188 | 11  | 17,970 | 11  | 28,628 | 11  | 39,266 | 11  | 50,020 | 11  | 60,774 | 11  | 71,511 | 11  | 82,238 | 11  | 92,996 | 11  | 103,754 |
| 1/4 | 7,413 | 1/4 | 18,195 | 1/4 | 28,846 | 1/4 | 39,490 | 1/4 | 50,244 | 1/4 | 60,999 | 1/4 | 71,734 | 1/4 | 82,462 | 1/4 | 93,220 | 1/4 | 103,978 |
| 1/2 | 7,637 | 1/2 | 18,419 | 1/2 | 29,064 | 1/2 | 39,714 | 1/2 | 50,468 | 1/2 | 61,223 | 1/2 | 71,956 | 1/2 | 82,687 | 1/2 | 93,444 | 1/2 | 104,202 |
| 3/4 | 7,862 | 3/4 | 18,644 | 3/4 | 29,282 | 3/4 | 39,938 | 3/4 | 50,692 | 3/4 | 61,447 | 3/4 | 72,179 | 3/4 | 82,911 | 3/4 | 93,668 | 3/4 | 104,426 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

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

GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 26'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
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# BARGE "CBC 1351"

## 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07"

| 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   | 104,650 | 0   | 114,745 | 0   | 124,199 | 0   | 133,611 | 0   | 143,007 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 104,874 | 1/4 | 114,942 | 1/4 | 124,395 | 1/4 | 133,807 | 1/4 | 143,201 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 105,098 | 1/2 | 115,139 | 1/2 | 124,592 | 1/2 | 134,004 | 1/2 | 143,395 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 105,322 | 3/4 | 115,336 | 3/4 | 124,788 | 3/4 | 134,200 | 3/4 | 143,590 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 105,546 | 1   | 115,533 | 1   | 124,985 | 1   | 134,397 | 1   | 143,784 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 105,770 | 1/4 | 115,730 | 1/4 | 125,181 | 1/4 | 134,593 | 1/4 | 143,978 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 105,993 | 1/2 | 115,927 | 1/2 | 125,377 | 1/2 | 134,789 | 1/2 | 144,173 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 106,217 | 3/4 | 116,124 | 3/4 | 125,574 | 3/4 | 134,986 | 3/4 | 144,367 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 106,441 | 2   | 116,321 | 2   | 125,770 | 2   | 135,182 | 2   | 144,562 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 106,665 | 1/4 | 116,517 | 1/4 | 125,967 | 1/4 | 135,379 | 1/4 | 144,765 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 106,889 | 1/2 | 116,714 | 1/2 | 126,163 | 1/2 | 135,575 | 1/2 | 144,968 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 107,113 | 3/4 | 116,911 | 3/4 | 126,360 | 3/4 | 135,772 | 3/4 | 145,171 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 107,337 | 3   | 117,108 | 3   | 126,556 | 3   | 135,968 | 3   | 145,375 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 107,560 | 1/4 | 117,305 | 1/4 | 126,753 | 1/4 | 136,165 | 1/4 | 145,540 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 107,784 | 1/2 | 117,502 | 1/2 | 126,949 | 1/2 | 136,361 | 1/2 | 145,706 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 108,008 | 3/4 | 117,699 | 3/4 | 127,145 | 3/4 | 136,557 | 3/4 | 145,872 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 108,232 | 4   | 117,896 | 4   | 127,342 | 4   | 136,754 | 4   | 146,038 | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 108,456 | 1/4 | 118,093 | 1/4 | 127,538 | 1/4 | 136,950 | 1/4 | 146,166 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 108,680 | 1/2 | 118,290 | 1/2 | 127,735 | 1/2 | 137,147 | 1/2 | 146,295 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 108,904 | 3/4 | 118,487 | 3/4 | 127,931 | 3/4 | 137,343 | 3/4 | 146,423 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 109,128 | 5   | 118,684 | 5   | 128,128 | 5   | 137,540 | 5   | 146,551 | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 109,351 | 1/4 | 118,881 | 1/4 | 128,324 | 1/4 | 137,736 | 1/4 | 146,642 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 109,575 | 1/2 | 119,078 | 1/2 | 128,520 | 1/2 | 137,932 | 1/2 | 146,733 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 109,799 | 3/4 | 119,275 | 3/4 | 128,717 | 3/4 | 138,129 | 3/4 | 146,824 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 110,023 | 6   | 119,472 | 6   | 128,913 | 6   | 138,325 | 6   | 146,915 | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 110,220 | 1/4 | 119,669 | 1/4 | 129,109 | 1/4 | 138,522 | 1/4 | 146,969 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 110,417 | 1/2 | 119,866 | 1/2 | 129,305 | 1/2 | 138,718 | 1/2 | 147,022 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 110,613 | 3/4 | 120,063 | 3/4 | 129,500 | 3/4 | 138,915 | 3/4 | 147,076 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 110,810 | 7   | 120,260 | 7   | 129,696 | 7   | 139,111 | 7   | 147,129 | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 111,007 | 1/4 | 120,457 | 1/4 | 129,892 | 1/4 | 139,307 | 1/4 | 147,145 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 111,204 | 1/2 | 120,654 | 1/2 | 130,088 | 1/2 | 139,504 | 1/2 | 147,161 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 111,400 | 3/4 | 120,851 | 3/4 | 130,283 | 3/4 | 139,700 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 111,597 | 8   | 121,048 | 8   | 130,479 | 8   | 139,897 | 8   |         | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 111,794 | 1/4 | 121,244 | 1/4 | 130,675 | 1/4 | 140,091 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 111,990 | 1/2 | 121,441 | 1/2 | 130,871 | 1/2 | 140,286 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 112,187 | 3/4 | 121,638 | 3/4 | 131,066 | 3/4 | 140,480 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 112,384 | 9   | 121,835 | 9   | 131,262 | 9   | 140,674 | 9   |         | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 112,581 | 1/4 | 122,032 | 1/4 | 131,458 | 1/4 | 140,869 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 112,777 | 1/2 | 122,229 | 1/2 | 131,654 | 1/2 | 141,063 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 112,974 | 3/4 | 122,426 | 3/4 | 131,849 | 3/4 | 141,257 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 113,171 | 10  | 122,623 | 10  | 132,045 | 10  | 141,452 | 10  |         | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 113,368 | 1/4 | 122,820 | 1/4 | 132,241 | 1/4 | 141,646 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 113,564 | 1/2 | 123,017 | 1/2 | 132,436 | 1/2 | 141,840 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 113,761 | 3/4 | 123,214 | 3/4 | 132,632 | 3/4 | 142,035 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 113,958 | 11  | 123,411 | 11  | 132,828 | 11  | 142,229 | 11  |         | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 114,155 | 1/4 | 123,608 | 1/4 | 133,024 | 1/4 | 142,424 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 114,351 | 1/2 | 123,805 | 1/2 | 133,219 | 1/2 | 142,618 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 114,548 | 3/4 | 124,002 | 3/4 | 133,415 | 3/4 | 142,812 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/28/2012 CL  
CALCULATED: 08/28/2012 CL  
PRINTED: 08/28/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2012

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



# BARGE "CBC 1351"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07 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   | 9,045  | 0   | 21,111 | 0   | 33,030 | 0   | 44,949 | 0   | 57,016 | 0   | 69,082 | 0   | 81,148 | 0   | 93,214  | 0   | 105,279 |
| 1/4 | 60    | 1/4 | 9,296  | 1/4 | 21,362 | 1/4 | 33,274 | 1/4 | 45,201 | 1/4 | 57,267 | 1/4 | 69,333 | 1/4 | 81,400 | 1/4 | 93,466  | 1/4 | 105,530 |
| 1/2 | 81    | 1/2 | 9,547  | 1/2 | 21,613 | 1/2 | 33,518 | 1/2 | 45,452 | 1/2 | 57,518 | 1/2 | 69,585 | 1/2 | 81,651 | 1/2 | 93,717  | 1/2 | 105,781 |
| 3/4 | 102   | 3/4 | 9,799  | 3/4 | 21,865 | 3/4 | 33,762 | 3/4 | 45,703 | 3/4 | 57,770 | 3/4 | 69,836 | 3/4 | 81,902 | 3/4 | 93,968  | 3/4 | 106,033 |
| 1   | 123   | 1   | 10,050 | 1   | 22,116 | 1   | 34,006 | 1   | 45,955 | 1   | 58,021 | 1   | 70,087 | 1   | 82,154 | 1   | 94,220  | 1   | 106,284 |
| 1/4 | 186   | 1/4 | 10,302 | 1/4 | 22,367 | 1/4 | 34,250 | 1/4 | 46,206 | 1/4 | 58,272 | 1/4 | 70,339 | 1/4 | 82,405 | 1/4 | 94,471  | 1/4 | 106,535 |
| 1/2 | 249   | 1/2 | 10,553 | 1/2 | 22,619 | 1/2 | 34,494 | 1/2 | 46,458 | 1/2 | 58,524 | 1/2 | 70,590 | 1/2 | 82,656 | 1/2 | 94,722  | 1/2 | 106,787 |
| 3/4 | 312   | 3/4 | 10,804 | 3/4 | 22,870 | 3/4 | 34,738 | 3/4 | 46,709 | 3/4 | 58,775 | 3/4 | 70,842 | 3/4 | 82,908 | 3/4 | 94,974  | 3/4 | 107,038 |
| 2   | 374   | 2   | 11,056 | 2   | 23,122 | 2   | 34,982 | 2   | 46,960 | 2   | 59,027 | 2   | 71,093 | 2   | 83,159 | 2   | 95,225  | 2   | 107,289 |
| 1/4 | 479   | 1/4 | 11,307 | 1/4 | 23,373 | 1/4 | 35,225 | 1/4 | 47,212 | 1/4 | 59,278 | 1/4 | 71,344 | 1/4 | 83,411 | 1/4 | 95,477  | 1/4 | 107,541 |
| 1/2 | 584   | 1/2 | 11,558 | 1/2 | 23,624 | 1/2 | 35,469 | 1/2 | 47,463 | 1/2 | 59,529 | 1/2 | 71,596 | 1/2 | 83,662 | 1/2 | 95,728  | 1/2 | 107,792 |
| 3/4 | 689   | 3/4 | 11,810 | 3/4 | 23,876 | 3/4 | 35,713 | 3/4 | 47,714 | 3/4 | 59,781 | 3/4 | 71,847 | 3/4 | 83,913 | 3/4 | 95,979  | 3/4 | 108,043 |
| 3   | 793   | 3   | 12,061 | 3   | 24,127 | 3   | 35,957 | 3   | 47,966 | 3   | 60,032 | 3   | 72,098 | 3   | 84,165 | 3   | 96,231  | 3   | 108,295 |
| 1/4 | 940   | 1/4 | 12,313 | 1/4 | 24,378 | 1/4 | 36,201 | 1/4 | 48,217 | 1/4 | 60,284 | 1/4 | 72,350 | 1/4 | 84,416 | 1/4 | 96,482  | 1/4 | 108,546 |
| 1/2 | 1,087 | 1/2 | 12,564 | 1/2 | 24,630 | 1/2 | 36,445 | 1/2 | 48,469 | 1/2 | 60,535 | 1/2 | 72,601 | 1/2 | 84,668 | 1/2 | 96,733  | 1/2 | 108,797 |
| 3/4 | 1,233 | 3/4 | 12,815 | 3/4 | 24,881 | 3/4 | 36,689 | 3/4 | 48,720 | 3/4 | 60,786 | 3/4 | 72,853 | 3/4 | 84,919 | 3/4 | 96,985  | 3/4 | 109,049 |
| 4   | 1,380 | 4   | 13,067 | 4   | 25,132 | 4   | 36,933 | 4   | 48,971 | 4   | 61,038 | 4   | 73,104 | 4   | 85,170 | 4   | 97,236  | 4   | 109,300 |
| 1/4 | 1,568 | 1/4 | 13,318 | 1/4 | 25,384 | 1/4 | 37,178 | 1/4 | 49,223 | 1/4 | 61,289 | 1/4 | 73,355 | 1/4 | 85,422 | 1/4 | 97,487  | 1/4 | 109,551 |
| 1/2 | 1,757 | 1/2 | 13,569 | 1/2 | 25,635 | 1/2 | 37,422 | 1/2 | 49,474 | 1/2 | 61,540 | 1/2 | 73,607 | 1/2 | 85,673 | 1/2 | 97,739  | 1/2 | 109,803 |
| 3/4 | 1,945 | 3/4 | 13,821 | 3/4 | 25,887 | 3/4 | 37,666 | 3/4 | 49,726 | 3/4 | 61,792 | 3/4 | 73,858 | 3/4 | 85,924 | 3/4 | 97,990  | 3/4 | 110,054 |
| 5   | 2,134 | 5   | 14,072 | 5   | 26,138 | 5   | 37,911 | 5   | 49,977 | 5   | 62,043 | 5   | 74,109 | 5   | 86,176 | 5   | 98,241  | 5   | 110,305 |
| 1/4 | 2,364 | 1/4 | 14,323 | 1/4 | 26,389 | 1/4 | 38,162 | 1/4 | 50,228 | 1/4 | 62,295 | 1/4 | 74,361 | 1/4 | 86,427 | 1/4 | 98,493  | 1/4 | 110,557 |
| 1/2 | 2,593 | 1/2 | 14,575 | 1/2 | 26,641 | 1/2 | 38,413 | 1/2 | 50,480 | 1/2 | 62,546 | 1/2 | 74,612 | 1/2 | 86,679 | 1/2 | 98,744  | 1/2 | 110,808 |
| 3/4 | 2,823 | 3/4 | 14,826 | 3/4 | 26,892 | 3/4 | 38,665 | 3/4 | 50,731 | 3/4 | 62,797 | 3/4 | 74,864 | 3/4 | 86,930 | 3/4 | 98,995  | 3/4 | 111,059 |
| 6   | 3,053 | 6   | 15,078 | 6   | 27,143 | 6   | 38,916 | 6   | 50,982 | 6   | 63,049 | 6   | 75,115 | 6   | 87,181 | 6   | 99,247  | 6   | 111,311 |
| 1/4 | 3,299 | 1/4 | 15,329 | 1/4 | 27,395 | 1/4 | 39,168 | 1/4 | 51,234 | 1/4 | 63,300 | 1/4 | 75,366 | 1/4 | 87,433 | 1/4 | 99,498  | 1/4 | 111,562 |
| 1/2 | 3,546 | 1/2 | 15,580 | 1/2 | 27,646 | 1/2 | 39,419 | 1/2 | 51,485 | 1/2 | 63,551 | 1/2 | 75,618 | 1/2 | 87,684 | 1/2 | 99,749  | 1/2 | 111,813 |
| 3/4 | 3,792 | 3/4 | 15,832 | 3/4 | 27,898 | 3/4 | 39,670 | 3/4 | 51,737 | 3/4 | 63,803 | 3/4 | 75,869 | 3/4 | 87,935 | 3/4 | 100,001 | 3/4 | 112,065 |
| 7   | 4,038 | 7   | 16,083 | 7   | 28,149 | 7   | 39,922 | 7   | 51,988 | 7   | 64,054 | 7   | 76,121 | 7   | 88,187 | 7   | 100,252 | 7   | 112,316 |
| 1/4 | 4,287 | 1/4 | 16,334 | 1/4 | 28,393 | 1/4 | 40,173 | 1/4 | 52,239 | 1/4 | 64,306 | 1/4 | 76,372 | 1/4 | 88,438 | 1/4 | 100,503 | 1/4 | 112,567 |
| 1/2 | 4,536 | 1/2 | 16,586 | 1/2 | 28,638 | 1/2 | 40,424 | 1/2 | 52,491 | 1/2 | 64,557 | 1/2 | 76,623 | 1/2 | 88,690 | 1/2 | 100,755 | 1/2 | 112,819 |
| 3/4 | 4,784 | 3/4 | 16,837 | 3/4 | 28,882 | 3/4 | 40,676 | 3/4 | 52,742 | 3/4 | 64,808 | 3/4 | 76,875 | 3/4 | 88,941 | 3/4 | 101,006 | 3/4 | 113,070 |
| 8   | 5,033 | 8   | 17,089 | 8   | 29,126 | 8   | 40,927 | 8   | 52,993 | 8   | 65,060 | 8   | 77,126 | 8   | 89,192 | 8   | 101,257 | 8   | 113,321 |
| 1/4 | 5,283 | 1/4 | 17,340 | 1/4 | 29,370 | 1/4 | 41,179 | 1/4 | 53,245 | 1/4 | 65,311 | 1/4 | 77,377 | 1/4 | 89,444 | 1/4 | 101,509 | 1/4 | 113,573 |
| 1/2 | 5,532 | 1/2 | 17,591 | 1/2 | 29,614 | 1/2 | 41,430 | 1/2 | 53,496 | 1/2 | 65,563 | 1/2 | 77,629 | 1/2 | 89,695 | 1/2 | 101,760 | 1/2 | 113,824 |
| 3/4 | 5,782 | 3/4 | 17,843 | 3/4 | 29,858 | 3/4 | 41,681 | 3/4 | 53,748 | 3/4 | 65,814 | 3/4 | 77,880 | 3/4 | 89,947 | 3/4 | 102,011 | 3/4 | 114,076 |
| 9   | 6,032 | 9   | 18,094 | 9   | 30,102 | 9   | 41,933 | 9   | 53,999 | 9   | 66,065 | 9   | 78,132 | 9   | 90,198 | 9   | 102,263 | 9   | 114,327 |
| 1/4 | 6,283 | 1/4 | 18,345 | 1/4 | 30,346 | 1/4 | 42,184 | 1/4 | 54,250 | 1/4 | 66,317 | 1/4 | 78,383 | 1/4 | 90,449 | 1/4 | 102,514 | 1/4 | 114,578 |
| 1/2 | 6,533 | 1/2 | 18,597 | 1/2 | 30,590 | 1/2 | 42,435 | 1/2 | 54,502 | 1/2 | 66,568 | 1/2 | 78,634 | 1/2 | 90,701 | 1/2 | 102,765 | 1/2 | 114,830 |
| 3/4 | 6,784 | 3/4 | 18,848 | 3/4 | 30,834 | 3/4 | 42,687 | 3/4 | 54,753 | 3/4 | 66,819 | 3/4 | 78,886 | 3/4 | 90,952 | 3/4 | 103,017 | 3/4 | 115,081 |
| 10  | 7,035 | 10  | 19,100 | 10  | 31,078 | 10  | 42,938 | 10  | 55,005 | 10  | 67,071 | 10  | 79,137 | 10  | 91,203 | 10  | 103,268 | 10  | 115,332 |
| 1/4 | 7,286 | 1/4 | 19,351 | 1/4 | 31,322 | 1/4 | 43,190 | 1/4 | 55,256 | 1/4 | 67,322 | 1/4 | 79,388 | 1/4 | 91,455 | 1/4 | 103,519 | 1/4 | 115,584 |
| 1/2 | 7,537 | 1/2 | 19,602 | 1/2 | 31,566 | 1/2 | 43,441 | 1/2 | 55,507 | 1/2 | 67,574 | 1/2 | 79,640 | 1/2 | 91,706 | 1/2 | 103,771 | 1/2 | 115,835 |
| 3/4 | 7,788 | 3/4 | 19,854 | 3/4 | 31,810 | 3/4 | 43,692 | 3/4 | 55,759 | 3/4 | 67,825 | 3/4 | 79,891 | 3/4 | 91,958 | 3/4 | 104,022 | 3/4 | 116,086 |
| 11  | 8,039 | 11  | 20,105 | 11  | 32,054 | 11  | 43,944 | 11  | 56,010 | 11  | 68,076 | 11  | 80,143 | 11  | 92,209 | 11  | 104,273 | 11  | 116,338 |
| 1/4 | 8,291 | 1/4 | 20,356 | 1/4 | 32,298 | 1/4 | 44,195 | 1/4 | 56,261 | 1/4 | 68,328 | 1/4 | 80,394 | 1/4 | 92,460 | 1/4 | 104,525 | 1/4 | 116,589 |
| 1/2 | 8,542 | 1/2 | 20,608 | 1/2 | 32,542 | 1/2 | 44,447 | 1/2 | 56,513 | 1/2 | 68,579 | 1/2 | 80,645 | 1/2 | 92,712 | 1/2 | 104,776 | 1/2 | 116,840 |
| 3/4 | 8,793 | 3/4 | 20,859 | 3/4 | 32,786 | 3/4 | 44,698 | 3/4 | 56,764 | 3/4 | 68,830 | 3/4 | 80,897 | 3/4 | 92,963 | 3/4 | 105,027 | 3/4 | 117,092 |

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 29'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CBC 1351"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07 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   | 117,343 | 0   | 129,407 | 0   | 141,471 | 0   | 153,468 | 0   | 165,429 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 117,594 | 1/4 | 129,658 | 1/4 | 141,721 | 1/4 | 153,718 | 1/4 | 165,676 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 117,846 | 1/2 | 129,910 | 1/2 | 141,971 | 1/2 | 153,968 | 1/2 | 165,924 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 118,097 | 3/4 | 130,161 | 3/4 | 142,221 | 3/4 | 154,218 | 3/4 | 166,172 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 1   | 118,348 | 1   | 130,412 | 1   | 142,471 | 1   | 154,468 | 1   | 166,419 | 1   | 1      | 1   | 1      | 1   | 1      | 1   | 1      | 1   | 1      |
| 1/4 | 118,600 | 1/4 | 130,664 | 1/4 | 142,721 | 1/4 | 154,718 | 1/4 | 166,667 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 118,851 | 1/2 | 130,915 | 1/2 | 142,971 | 1/2 | 154,968 | 1/2 | 166,914 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 119,102 | 3/4 | 131,166 | 3/4 | 143,221 | 3/4 | 155,218 | 3/4 | 167,162 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 2   | 119,354 | 2   | 131,418 | 2   | 143,471 | 2   | 155,468 | 2   | 167,410 | 2   | 2      | 2   | 2      | 2   | 2      | 2   | 2      | 2   | 2      |
| 1/4 | 119,605 | 1/4 | 131,669 | 1/4 | 143,721 | 1/4 | 155,718 | 1/4 | 167,636 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 119,856 | 1/2 | 131,920 | 1/2 | 143,971 | 1/2 | 155,968 | 1/2 | 167,863 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 120,108 | 3/4 | 132,172 | 3/4 | 144,221 | 3/4 | 156,218 | 3/4 | 168,090 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 3   | 120,359 | 3   | 132,423 | 3   | 144,471 | 3   | 156,468 | 3   | 168,316 | 3   | 3      | 3   | 3      | 3   | 3      | 3   | 3      | 3   | 3      |
| 1/4 | 120,610 | 1/4 | 132,675 | 1/4 | 144,721 | 1/4 | 156,718 | 1/4 | 168,501 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 120,862 | 1/2 | 132,926 | 1/2 | 144,971 | 1/2 | 156,968 | 1/2 | 168,686 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 121,113 | 3/4 | 133,177 | 3/4 | 145,220 | 3/4 | 157,218 | 3/4 | 168,871 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 4   | 121,364 | 4   | 133,429 | 4   | 145,470 | 4   | 157,468 | 4   | 169,056 | 4   | 4      | 4   | 4      | 4   | 4      | 4   | 4      | 4   | 4      |
| 1/4 | 121,616 | 1/4 | 133,680 | 1/4 | 145,720 | 1/4 | 157,717 | 1/4 | 169,198 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 121,867 | 1/2 | 133,931 | 1/2 | 145,970 | 1/2 | 157,967 | 1/2 | 169,341 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 122,118 | 3/4 | 134,183 | 3/4 | 146,220 | 3/4 | 158,217 | 3/4 | 169,484 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 5   | 122,370 | 5   | 134,434 | 5   | 146,470 | 5   | 158,467 | 5   | 169,627 | 5   | 5      | 5   | 5      | 5   | 5      | 5   | 5      | 5   | 5      |
| 1/4 | 122,621 | 1/4 | 134,685 | 1/4 | 146,720 | 1/4 | 158,717 | 1/4 | 169,728 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 122,872 | 1/2 | 134,937 | 1/2 | 146,970 | 1/2 | 158,967 | 1/2 | 169,829 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 123,124 | 3/4 | 135,188 | 3/4 | 147,220 | 3/4 | 159,217 | 3/4 | 169,930 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 6   | 123,375 | 6   | 135,439 | 6   | 147,470 | 6   | 159,467 | 6   | 170,031 | 6   | 6      | 6   | 6      | 6   | 6      | 6   | 6      | 6   | 6      |
| 1/4 | 123,626 | 1/4 | 135,691 | 1/4 | 147,720 | 1/4 | 159,717 | 1/4 | 170,090 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 123,878 | 1/2 | 135,942 | 1/2 | 147,970 | 1/2 | 159,967 | 1/2 | 170,149 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 124,129 | 3/4 | 136,193 | 3/4 | 148,220 | 3/4 | 160,217 | 3/4 | 170,208 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 7   | 124,380 | 7   | 136,445 | 7   | 148,470 | 7   | 160,467 | 7   | 170,267 | 7   | 7      | 7   | 7      | 7   | 7      | 7   | 7      | 7   | 7      |
| 1/4 | 124,632 | 1/4 | 136,696 | 1/4 | 148,720 | 1/4 | 160,717 | 1/4 | 170,285 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 124,883 | 1/2 | 136,947 | 1/2 | 148,970 | 1/2 | 160,967 | 1/2 | 170,302 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 125,134 | 3/4 | 137,199 | 3/4 | 149,219 | 3/4 | 161,217 | 3/4 | 170,319 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 8   | 125,386 | 8   | 137,450 | 8   | 149,469 | 8   | 161,467 | 8   | 170,336 | 8   | 8      | 8   | 8      | 8   | 8      | 8   | 8      | 8   | 8      |
| 1/4 | 125,637 | 1/4 | 137,701 | 1/4 | 149,719 | 1/4 | 161,714 | 1/4 |         | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 125,888 | 1/2 | 137,953 | 1/2 | 149,969 | 1/2 | 161,962 | 1/2 |         | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 126,140 | 3/4 | 138,204 | 3/4 | 150,219 | 3/4 | 162,209 | 3/4 |         | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 9   | 126,391 | 9   | 138,455 | 9   | 150,469 | 9   | 162,457 | 9   |         | 9   | 9      | 9   | 9      | 9   | 9      | 9   | 9      | 9   | 9      |
| 1/4 | 126,642 | 1/4 | 138,707 | 1/4 | 150,719 | 1/4 | 162,705 | 1/4 |         | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 126,894 | 1/2 | 138,958 | 1/2 | 150,969 | 1/2 | 162,952 | 1/2 |         | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 127,145 | 3/4 | 139,209 | 3/4 | 151,219 | 3/4 | 163,200 | 3/4 |         | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 10  | 127,396 | 10  | 139,461 | 10  | 151,469 | 10  | 163,448 | 10  |         | 10  | 10     | 10  | 10     | 10  | 10     | 10  | 10     | 10  | 10     |
| 1/4 | 127,648 | 1/4 | 139,712 | 1/4 | 151,719 | 1/4 | 163,695 | 1/4 |         | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 127,899 | 1/2 | 139,963 | 1/2 | 151,969 | 1/2 | 163,943 | 1/2 |         | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 128,150 | 3/4 | 140,215 | 3/4 | 152,219 | 3/4 | 164,191 | 3/4 |         | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 11  | 128,402 | 11  | 140,466 | 11  | 152,469 | 11  | 164,438 | 11  |         | 11  | 11     | 11  | 11     | 11  | 11     | 11  | 11     | 11  | 11     |
| 1/4 | 128,653 | 1/4 | 140,717 | 1/4 | 152,719 | 1/4 | 164,686 | 1/4 |         | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 128,904 | 1/2 | 140,969 | 1/2 | 152,969 | 1/2 | 164,933 | 1/2 |         | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 129,156 | 3/4 | 141,220 | 3/4 | 153,219 | 3/4 | 165,181 | 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: 08/28/2012 CL  
CALCULATED: 08/28/2012 CL  
PRINTED: 08/28/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2012

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



# BARGE "CBC 1351"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07 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   | 8,038  | 0   | 18,755 | 0   | 29,458 | 0   | 40,165 | 0   | 50,882 | 0   | 61,600 | 0   | 72,318 | 0   | 83,035 | 0   | 93,751  |
| 1/4 | 58    | 1/4 | 8,261  | 1/4 | 18,979 | 1/4 | 29,681 | 1/4 | 40,388 | 1/4 | 51,106 | 1/4 | 61,823 | 1/4 | 72,541 | 1/4 | 83,259 | 1/4 | 93,974  |
| 1/2 | 77    | 1/2 | 8,485  | 1/2 | 19,202 | 1/2 | 29,904 | 1/2 | 40,611 | 1/2 | 51,329 | 1/2 | 62,047 | 1/2 | 72,764 | 1/2 | 83,482 | 1/2 | 94,198  |
| 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 | 62,270 | 3/4 | 72,987 | 3/4 | 83,705 | 3/4 | 94,421  |
| 1   | 114   | 1   | 8,931  | 1   | 19,648 | 1   | 30,349 | 1   | 41,058 | 1   | 51,775 | 1   | 62,493 | 1   | 73,211 | 1   | 83,928 | 1   | 94,644  |
| 1/4 | 170   | 1/4 | 9,155  | 1/4 | 19,872 | 1/4 | 30,571 | 1/4 | 41,281 | 1/4 | 51,999 | 1/4 | 62,716 | 1/4 | 73,434 | 1/4 | 84,152 | 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 | 62,940 | 1/2 | 73,657 | 1/2 | 84,375 | 1/2 | 95,091  |
| 3/4 | 281   | 3/4 | 9,601  | 3/4 | 20,318 | 3/4 | 31,016 | 3/4 | 41,728 | 3/4 | 52,445 | 3/4 | 63,163 | 3/4 | 73,881 | 3/4 | 84,598 | 3/4 | 95,314  |
| 2   | 337   | 2   | 9,824  | 2   | 20,542 | 2   | 31,239 | 2   | 41,951 | 2   | 52,669 | 2   | 63,386 | 2   | 74,104 | 2   | 84,821 | 2   | 95,537  |
| 1/4 | 430   | 1/4 | 10,048 | 1/4 | 20,765 | 1/4 | 31,462 | 1/4 | 42,174 | 1/4 | 52,892 | 1/4 | 63,610 | 1/4 | 74,327 | 1/4 | 85,045 | 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 | 63,833 | 1/2 | 74,550 | 1/2 | 85,268 | 1/2 | 95,984  |
| 3/4 | 616   | 3/4 | 10,494 | 3/4 | 21,211 | 3/4 | 31,907 | 3/4 | 42,621 | 3/4 | 53,338 | 3/4 | 64,056 | 3/4 | 74,774 | 3/4 | 85,491 | 3/4 | 96,207  |
| 3   | 709   | 3   | 10,717 | 3   | 21,435 | 3   | 32,129 | 3   | 42,844 | 3   | 53,562 | 3   | 64,279 | 3   | 74,997 | 3   | 85,714 | 3   | 96,430  |
| 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 | 64,503 | 1/4 | 75,220 | 1/4 | 85,938 | 1/4 | 96,653  |
| 1/2 | 970   | 1/2 | 11,164 | 1/2 | 21,881 | 1/2 | 32,574 | 1/2 | 43,291 | 1/2 | 54,008 | 1/2 | 64,726 | 1/2 | 75,444 | 1/2 | 86,161 | 1/2 | 96,877  |
| 3/4 | 1,100 | 3/4 | 11,387 | 3/4 | 22,105 | 3/4 | 32,797 | 3/4 | 43,514 | 3/4 | 54,232 | 3/4 | 64,949 | 3/4 | 75,667 | 3/4 | 86,384 | 3/4 | 97,100  |
| 4   | 1,230 | 4   | 11,611 | 4   | 22,328 | 4   | 33,020 | 4   | 43,737 | 4   | 54,455 | 4   | 65,173 | 4   | 75,890 | 4   | 86,607 | 4   | 97,323  |
| 1/4 | 1,397 | 1/4 | 11,834 | 1/4 | 22,551 | 1/4 | 33,243 | 1/4 | 43,960 | 1/4 | 54,678 | 1/4 | 65,396 | 1/4 | 76,113 | 1/4 | 86,830 | 1/4 | 97,546  |
| 1/2 | 1,565 | 1/2 | 12,057 | 1/2 | 22,774 | 1/2 | 33,466 | 1/2 | 44,184 | 1/2 | 54,901 | 1/2 | 65,619 | 1/2 | 76,337 | 1/2 | 87,054 | 1/2 | 97,770  |
| 3/4 | 1,732 | 3/4 | 12,280 | 3/4 | 22,998 | 3/4 | 33,689 | 3/4 | 44,407 | 3/4 | 55,125 | 3/4 | 65,842 | 3/4 | 76,560 | 3/4 | 87,277 | 3/4 | 97,993  |
| 5   | 1,900 | 5   | 12,504 | 5   | 23,221 | 5   | 33,913 | 5   | 44,630 | 5   | 55,348 | 5   | 66,066 | 5   | 76,783 | 5   | 87,500 | 5   | 98,216  |
| 1/4 | 2,104 | 1/4 | 12,727 | 1/4 | 23,444 | 1/4 | 34,136 | 1/4 | 44,854 | 1/4 | 55,571 | 1/4 | 66,289 | 1/4 | 77,007 | 1/4 | 87,723 | 1/4 | 98,439  |
| 1/2 | 2,308 | 1/2 | 12,950 | 1/2 | 23,667 | 1/2 | 34,359 | 1/2 | 45,077 | 1/2 | 55,795 | 1/2 | 66,512 | 1/2 | 77,230 | 1/2 | 87,947 | 1/2 | 98,663  |
| 3/4 | 2,512 | 3/4 | 13,173 | 3/4 | 23,891 | 3/4 | 34,583 | 3/4 | 45,300 | 3/4 | 56,018 | 3/4 | 66,736 | 3/4 | 77,453 | 3/4 | 88,170 | 3/4 | 98,886  |
| 6   | 2,716 | 6   | 13,397 | 6   | 24,114 | 6   | 34,806 | 6   | 45,523 | 6   | 56,241 | 6   | 66,959 | 6   | 77,676 | 6   | 88,393 | 6   | 99,109  |
| 1/4 | 2,935 | 1/4 | 13,620 | 1/4 | 24,337 | 1/4 | 35,029 | 1/4 | 45,747 | 1/4 | 56,464 | 1/4 | 67,182 | 1/4 | 77,900 | 1/4 | 88,616 | 1/4 | 99,332  |
| 1/2 | 3,154 | 1/2 | 13,843 | 1/2 | 24,560 | 1/2 | 35,252 | 1/2 | 45,970 | 1/2 | 56,688 | 1/2 | 67,405 | 1/2 | 78,123 | 1/2 | 88,840 | 1/2 | 99,556  |
| 3/4 | 3,373 | 3/4 | 14,067 | 3/4 | 24,783 | 3/4 | 35,476 | 3/4 | 46,193 | 3/4 | 56,911 | 3/4 | 67,629 | 3/4 | 78,346 | 3/4 | 89,063 | 3/4 | 99,779  |
| 7   | 3,591 | 7   | 14,290 | 7   | 25,006 | 7   | 35,699 | 7   | 46,417 | 7   | 57,134 | 7   | 67,852 | 7   | 78,570 | 7   | 89,286 | 7   | 100,002 |
| 1/4 | 3,812 | 1/4 | 14,513 | 1/4 | 25,229 | 1/4 | 35,922 | 1/4 | 46,640 | 1/4 | 57,358 | 1/4 | 68,075 | 1/4 | 78,793 | 1/4 | 89,509 | 1/4 | 100,225 |
| 1/2 | 4,033 | 1/2 | 14,736 | 1/2 | 25,452 | 1/2 | 36,146 | 1/2 | 46,863 | 1/2 | 57,581 | 1/2 | 68,299 | 1/2 | 79,016 | 1/2 | 89,733 | 1/2 | 100,449 |
| 3/4 | 4,254 | 3/4 | 14,960 | 3/4 | 25,674 | 3/4 | 36,369 | 3/4 | 47,086 | 3/4 | 57,804 | 3/4 | 68,522 | 3/4 | 79,239 | 3/4 | 89,956 | 3/4 | 100,672 |
| 8   | 4,475 | 8   | 15,183 | 8   | 25,897 | 8   | 36,592 | 8   | 47,310 | 8   | 58,027 | 8   | 68,745 | 8   | 79,463 | 8   | 90,179 | 8   | 100,895 |
| 1/4 | 4,696 | 1/4 | 15,406 | 1/4 | 26,120 | 1/4 | 36,815 | 1/4 | 47,533 | 1/4 | 58,251 | 1/4 | 68,968 | 1/4 | 79,686 | 1/4 | 90,402 | 1/4 | 101,118 |
| 1/2 | 4,918 | 1/2 | 15,630 | 1/2 | 26,343 | 1/2 | 37,039 | 1/2 | 47,756 | 1/2 | 58,474 | 1/2 | 69,192 | 1/2 | 79,909 | 1/2 | 90,626 | 1/2 | 101,342 |
| 3/4 | 5,140 | 3/4 | 15,853 | 3/4 | 26,565 | 3/4 | 37,262 | 3/4 | 47,980 | 3/4 | 58,697 | 3/4 | 69,415 | 3/4 | 80,133 | 3/4 | 90,849 | 3/4 | 101,565 |
| 9   | 5,362 | 9   | 16,076 | 9   | 26,788 | 9   | 37,485 | 9   | 48,203 | 9   | 58,921 | 9   | 69,638 | 9   | 80,356 | 9   | 91,072 | 9   | 101,788 |
| 1/4 | 5,585 | 1/4 | 16,299 | 1/4 | 27,010 | 1/4 | 37,708 | 1/4 | 48,426 | 1/4 | 59,144 | 1/4 | 69,861 | 1/4 | 80,579 | 1/4 | 91,295 | 1/4 | 102,011 |
| 1/2 | 5,808 | 1/2 | 16,523 | 1/2 | 27,233 | 1/2 | 37,932 | 1/2 | 48,649 | 1/2 | 59,367 | 1/2 | 70,085 | 1/2 | 80,802 | 1/2 | 91,519 | 1/2 | 102,235 |
| 3/4 | 6,030 | 3/4 | 16,746 | 3/4 | 27,455 | 3/4 | 38,155 | 3/4 | 48,873 | 3/4 | 59,590 | 3/4 | 70,308 | 3/4 | 81,026 | 3/4 | 91,742 | 3/4 | 102,458 |
| 10  | 6,253 | 10  | 16,969 | 10  | 27,678 | 10  | 38,378 | 10  | 49,096 | 10  | 59,814 | 10  | 70,531 | 10  | 81,249 | 10  | 91,965 | 10  | 102,681 |
| 1/4 | 6,476 | 1/4 | 17,192 | 1/4 | 27,900 | 1/4 | 38,602 | 1/4 | 49,319 | 1/4 | 60,037 | 1/4 | 70,755 | 1/4 | 81,472 | 1/4 | 92,188 | 1/4 | 102,904 |
| 1/2 | 6,699 | 1/2 | 17,416 | 1/2 | 28,123 | 1/2 | 38,825 | 1/2 | 49,543 | 1/2 | 60,260 | 1/2 | 70,978 | 1/2 | 81,696 | 1/2 | 92,412 | 1/2 | 103,128 |
| 3/4 | 6,922 | 3/4 | 17,639 | 3/4 | 28,346 | 3/4 | 39,048 | 3/4 | 49,766 | 3/4 | 60,484 | 3/4 | 71,201 | 3/4 | 81,919 | 3/4 | 92,635 | 3/4 | 103,351 |
| 11  | 7,145 | 11  | 17,862 | 11  | 28,568 | 11  | 39,271 | 11  | 49,989 | 11  | 60,707 | 11  | 71,424 | 11  | 82,142 | 11  | 92,858 | 11  | 103,574 |
| 1/4 | 7,368 | 1/4 | 18,086 | 1/4 | 28,791 | 1/4 | 39,495 | 1/4 | 50,212 | 1/4 | 60,930 | 1/4 | 71,648 | 1/4 | 82,365 | 1/4 | 93,081 | 1/4 | 103,797 |
| 1/2 | 7,592 | 1/2 | 18,309 | 1/2 | 29,013 | 1/2 | 39,718 | 1/2 | 50,436 | 1/2 | 61,153 | 1/2 | 71,871 | 1/2 | 82,589 | 1/2 | 93,305 | 1/2 | 104,021 |
| 3/4 | 7,815 | 3/4 | 18,532 | 3/4 | 29,236 | 3/4 | 39,941 | 3/4 | 50,659 | 3/4 | 61,377 | 3/4 | 72,094 | 3/4 | 82,812 | 3/4 | 93,528 | 3/4 | 104,244 |

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 1351"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07 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   | 104,467 | 0   | 115,183 | 0   | 125,899 | 0   | 136,556 | 0   | 147,180 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 104,690 | 1/4 | 115,406 | 1/4 | 126,121 | 1/4 | 136,778 | 1/4 | 147,400 | 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 | 115,629 | 1/2 | 126,343 | 1/2 | 137,000 | 1/2 | 147,620 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 105,137 | 3/4 | 115,853 | 3/4 | 126,565 | 3/4 | 137,222 | 3/4 | 147,840 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 1   | 105,360 | 1   | 116,076 | 1   | 126,787 | 1   | 137,444 | 1   | 148,060 | 1   | 1      | 1   | 1      | 1   | 1      | 1   | 1      | 1   | 1      |
| 1/4 | 105,583 | 1/4 | 116,299 | 1/4 | 127,009 | 1/4 | 137,666 | 1/4 | 148,280 | 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 | 116,522 | 1/2 | 127,231 | 1/2 | 137,888 | 1/2 | 148,500 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 106,030 | 3/4 | 116,746 | 3/4 | 127,453 | 3/4 | 138,110 | 3/4 | 148,720 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 2   | 106,253 | 2   | 116,969 | 2   | 127,675 | 2   | 138,332 | 2   | 148,940 | 2   | 2      | 2   | 2      | 2   | 2      | 2   | 2      | 2   | 2      |
| 1/4 | 106,476 | 1/4 | 117,192 | 1/4 | 127,897 | 1/4 | 138,554 | 1/4 | 149,141 | 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 | 117,415 | 1/2 | 128,119 | 1/2 | 138,776 | 1/2 | 149,343 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 106,923 | 3/4 | 117,639 | 3/4 | 128,341 | 3/4 | 138,998 | 3/4 | 149,544 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 3   | 107,146 | 3   | 117,862 | 3   | 128,563 | 3   | 139,220 | 3   | 149,745 | 3   | 3      | 3   | 3      | 3   | 3      | 3   | 3      | 3   | 3      |
| 1/4 | 107,369 | 1/4 | 118,085 | 1/4 | 128,785 | 1/4 | 139,442 | 1/4 | 149,909 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 107,592 | 1/2 | 118,308 | 1/2 | 129,007 | 1/2 | 139,664 | 1/2 | 150,074 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 107,816 | 3/4 | 118,532 | 3/4 | 129,229 | 3/4 | 139,886 | 3/4 | 150,238 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 4   | 108,039 | 4   | 118,755 | 4   | 129,451 | 4   | 140,108 | 4   | 150,402 | 4   | 4      | 4   | 4      | 4   | 4      | 4   | 4      | 4   | 4      |
| 1/4 | 108,262 | 1/4 | 118,978 | 1/4 | 129,673 | 1/4 | 140,330 | 1/4 | 150,529 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 108,485 | 1/2 | 119,201 | 1/2 | 129,895 | 1/2 | 140,552 | 1/2 | 150,656 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 108,709 | 3/4 | 119,425 | 3/4 | 130,117 | 3/4 | 140,774 | 3/4 | 150,783 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 5   | 108,932 | 5   | 119,648 | 5   | 130,339 | 5   | 140,996 | 5   | 150,910 | 5   | 5      | 5   | 5      | 5   | 5      | 5   | 5      | 5   | 5      |
| 1/4 | 109,155 | 1/4 | 119,871 | 1/4 | 130,561 | 1/4 | 141,218 | 1/4 | 150,999 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 109,378 | 1/2 | 120,094 | 1/2 | 130,783 | 1/2 | 141,440 | 1/2 | 151,089 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 109,602 | 3/4 | 120,318 | 3/4 | 131,005 | 3/4 | 141,662 | 3/4 | 151,179 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 6   | 109,825 | 6   | 120,541 | 6   | 131,227 | 6   | 141,884 | 6   | 151,269 | 6   | 6      | 6   | 6      | 6   | 6      | 6   | 6      | 6   | 6      |
| 1/4 | 110,048 | 1/4 | 120,764 | 1/4 | 131,449 | 1/4 | 142,106 | 1/4 | 151,321 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 110,271 | 1/2 | 120,987 | 1/2 | 131,671 | 1/2 | 142,328 | 1/2 | 151,374 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 110,495 | 3/4 | 121,211 | 3/4 | 131,893 | 3/4 | 142,550 | 3/4 | 151,426 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 7   | 110,718 | 7   | 121,434 | 7   | 132,115 | 7   | 142,772 | 7   | 151,479 | 7   | 7      | 7   | 7      | 7   | 7      | 7   | 7      | 7   | 7      |
| 1/4 | 110,941 | 1/4 | 121,657 | 1/4 | 132,337 | 1/4 | 142,994 | 1/4 | 151,494 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 111,164 | 1/2 | 121,880 | 1/2 | 132,559 | 1/2 | 143,217 | 1/2 | 151,509 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 111,388 | 3/4 | 122,104 | 3/4 | 132,781 | 3/4 | 143,439 | 3/4 | 151,524 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 8   | 111,611 | 8   | 122,327 | 8   | 133,003 | 8   | 143,661 | 8   | 151,540 | 8   | 8      | 8   | 8      | 8   | 8      | 8   | 8      | 8   | 8      |
| 1/4 | 111,834 | 1/4 | 122,550 | 1/4 | 133,225 | 1/4 | 143,881 | 1/4 |         | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 112,057 | 1/2 | 122,773 | 1/2 | 133,447 | 1/2 | 144,100 | 1/2 |         | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 112,281 | 3/4 | 122,997 | 3/4 | 133,670 | 3/4 | 144,320 | 3/4 |         | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 9   | 112,504 | 9   | 123,220 | 9   | 133,892 | 9   | 144,540 | 9   |         | 9   | 9      | 9   | 9      | 9   | 9      | 9   | 9      | 9   | 9      |
| 1/4 | 112,727 | 1/4 | 123,443 | 1/4 | 134,114 | 1/4 | 144,760 | 1/4 |         | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 112,950 | 1/2 | 123,666 | 1/2 | 134,336 | 1/2 | 144,980 | 1/2 |         | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 113,174 | 3/4 | 123,889 | 3/4 | 134,558 | 3/4 | 145,200 | 3/4 |         | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 10  | 113,397 | 10  | 124,113 | 10  | 134,780 | 10  | 145,420 | 10  |         | 10  | 10     | 10  | 10     | 10  | 10     | 10  | 10     | 10  | 10     |
| 1/4 | 113,620 | 1/4 | 124,336 | 1/4 | 135,002 | 1/4 | 145,640 | 1/4 |         | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 113,843 | 1/2 | 124,559 | 1/2 | 135,224 | 1/2 | 145,860 | 1/2 |         | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 114,067 | 3/4 | 124,782 | 3/4 | 135,446 | 3/4 | 146,080 | 3/4 |         | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 11  | 114,290 | 11  | 125,006 | 11  | 135,668 | 11  | 146,300 | 11  |         | 11  | 11     | 11  | 11     | 11  | 11     | 11  | 11     | 11  | 11     |
| 1/4 | 114,513 | 1/4 | 125,229 | 1/4 | 135,890 | 1/4 | 146,520 | 1/4 |         | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 114,736 | 1/2 | 125,452 | 1/2 | 136,112 | 1/2 | 146,740 | 1/2 |         | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 114,960 | 3/4 | 125,675 | 3/4 | 136,334 | 3/4 | 146,960 | 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: 08/28/2012 CL  
CALCULATED: 08/28/2012 CL  
PRINTED: 08/28/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2012

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



# BARGE "CBC 1351"

## 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       | - 00-0/8   | 00-0/8       | - 00-0/8   | 00-0/8       | - 00-0/8   | 00-0/8       | - 00-0/8   | 00-0/8       | - 00-0/8   | 00-0/8       |
| 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"

August 28, 2012

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

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# BARGE "CBC 1351"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07"

| 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       | 147,129 | 0       | 139,111 | 0       | 129,696 | 0       | 120,260 | 0       | 110,810 | 0       | 100,168 | 0      | 89,410 | 0      | 78,652 |        |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 147,076 | 1/4     | 138,915 | 1/4     | 129,500 | 1/4     | 120,063 | 1/4     | 110,613 | 1/4     | 99,944  | 1/4    | 89,186 | 1/4    | 78,428 |        |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 147,022 | 1/2     | 138,718 | 1/2     | 129,305 | 1/2     | 119,866 | 1/2     | 110,417 | 1/2     | 99,720  | 1/2    | 88,962 | 1/2    | 78,204 |        |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 146,969 | 3/4     | 138,522 | 3/4     | 129,109 | 3/4     | 119,669 | 3/4     | 110,220 | 3/4     | 99,495  | 3/4    | 88,738 | 3/4    | 77,979 |        |
| 1     |     | 1     |     | 1       | 146,915 | 1       | 138,325 | 1       | 128,913 | 1       | 119,472 | 1       | 110,023 | 1       | 99,271  | 1      | 88,514 | 1      | 77,755 |        |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 146,824 | 1/4     | 138,129 | 1/4     | 128,717 | 1/4     | 119,275 | 1/4     | 109,799 | 1/4     | 99,047  | 1/4    | 88,290 | 1/4    | 77,531 |        |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 146,733 | 1/2     | 137,932 | 1/2     | 128,520 | 1/2     | 119,078 | 1/2     | 109,575 | 1/2     | 98,823  | 1/2    | 88,065 | 1/2    | 77,307 |        |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 146,642 | 3/4     | 137,736 | 3/4     | 128,324 | 3/4     | 118,881 | 3/4     | 109,351 | 3/4     | 98,599  | 3/4    | 87,841 | 3/4    | 77,083 |        |
| 2     |     | 2     |     | 2       | 146,551 | 2       | 137,540 | 2       | 128,128 | 2       | 118,684 | 2       | 109,128 | 2       | 98,375  | 2      | 87,617 | 2      | 76,859 |        |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 146,423 | 1/4     | 137,343 | 1/4     | 127,931 | 1/4     | 118,487 | 1/4     | 108,904 | 1/4     | 98,151  | 1/4    | 87,393 | 1/4    | 76,635 |        |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 146,295 | 1/2     | 137,147 | 1/2     | 127,735 | 1/2     | 118,290 | 1/2     | 108,680 | 1/2     | 97,927  | 1/2    | 87,169 | 1/2    | 76,412 |        |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 146,166 | 3/4     | 136,950 | 3/4     | 127,538 | 3/4     | 118,093 | 3/4     | 108,456 | 3/4     | 97,703  | 3/4    | 86,945 | 3/4    | 76,188 |        |
| 3     |     | 3     |     | 3       | 146,038 | 3       | 136,754 | 3       | 127,342 | 3       | 117,896 | 3       | 108,232 | 3       | 97,478  | 3      | 86,721 | 3      | 75,965 |        |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 145,872 | 1/4     | 136,557 | 1/4     | 127,145 | 1/4     | 117,699 | 1/4     | 108,008 | 1/4     | 97,254  | 1/4    | 86,497 | 1/4    | 75,742 |        |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 145,706 | 1/2     | 136,361 | 1/2     | 126,949 | 1/2     | 117,502 | 1/2     | 107,784 | 1/2     | 97,030  | 1/2    | 86,272 | 1/2    | 75,520 |        |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 145,540 | 3/4     | 136,165 | 3/4     | 126,753 | 3/4     | 117,305 | 3/4     | 107,560 | 3/4     | 96,806  | 3/4    | 86,048 | 3/4    | 75,297 |        |
| 4     |     | 4     |     | 4       | 145,375 | 4       | 135,968 | 4       | 126,556 | 4       | 117,108 | 4       | 107,337 | 4       | 96,582  | 4      | 85,824 | 4      | 75,074 |        |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 145,171 | 1/4     | 135,772 | 1/4     | 126,360 | 1/4     | 116,911 | 1/4     | 107,113 | 1/4     | 96,358  | 1/4    | 85,600 | 1/4    | 74,852 |        |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 144,968 | 1/2     | 135,575 | 1/2     | 126,163 | 1/2     | 116,714 | 1/2     | 106,889 | 1/2     | 96,134  | 1/2    | 85,376 | 1/2    | 74,629 |        |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 144,765 | 3/4     | 135,379 | 3/4     | 125,967 | 3/4     | 116,517 | 3/4     | 106,665 | 3/4     | 95,910  | 3/4    | 85,152 | 3/4    | 74,406 |        |
| 5     |     | 5     |     | 5       | 144,562 | 5       | 135,182 | 5       | 125,770 | 5       | 116,321 | 5       | 106,441 | 5       | 95,685  | 5      | 84,928 | 5      | 74,183 |        |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 144,367 | 1/4     | 134,986 | 1/4     | 125,574 | 1/4     | 116,124 | 1/4     | 106,217 | 1/4     | 95,461  | 1/4    | 84,704 | 1/4    | 73,961 |        |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 144,173 | 1/2     | 134,789 | 1/2     | 125,377 | 1/2     | 115,927 | 1/2     | 105,993 | 1/2     | 95,237  | 1/2    | 84,480 | 1/2    | 73,738 |        |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 143,978 | 3/4     | 134,593 | 3/4     | 125,181 | 3/4     | 115,730 | 3/4     | 105,770 | 3/4     | 95,013  | 3/4    | 84,255 | 3/4    | 73,515 |        |
| 6     |     | 6     |     | 6       | 143,784 | 6       | 134,397 | 6       | 124,985 | 6       | 115,533 | 6       | 105,546 | 6       | 94,789  | 6      | 84,031 | 6      | 73,293 |        |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 143,590 | 1/4     | 134,200 | 1/4     | 124,788 | 1/4     | 115,336 | 1/4     | 105,322 | 1/4     | 94,565  | 1/4    | 83,807 | 1/4    | 73,070 |        |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 143,395 | 1/2     | 134,004 | 1/2     | 124,592 | 1/2     | 115,139 | 1/2     | 105,098 | 1/2     | 94,341  | 1/2    | 83,583 | 1/2    | 72,847 |        |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 143,201 | 3/4     | 133,807 | 3/4     | 124,395 | 3/4     | 114,942 | 3/4     | 104,874 | 3/4     | 94,117  | 3/4    | 83,359 | 3/4    | 72,625 |        |
| 7     |     | 7     |     | 7       | 143,007 | 7       | 133,611 | 7       | 124,199 | 7       | 114,745 | 7       | 104,650 | 7       | 93,893  | 7      | 83,135 | 7      | 72,402 |        |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 142,812 | 1/4     | 133,415 | 1/4     | 124,002 | 1/4     | 114,548 | 1/4     | 104,426 | 1/4     | 93,668  | 1/4    | 82,911 | 1/4    | 72,179 |        |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 142,618 | 1/2     | 133,219 | 1/2     | 123,805 | 1/2     | 114,351 | 1/2     | 104,202 | 1/2     | 93,444  | 1/2    | 82,687 | 1/2    | 71,956 |        |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 142,424 | 3/4     | 133,024 | 3/4     | 123,608 | 3/4     | 114,155 | 3/4     | 103,978 | 3/4     | 93,220  | 3/4    | 82,462 | 3/4    | 71,734 |        |
| 8     |     | 8     |     | 8       | 142,229 | 8       | 132,828 | 8       | 123,411 | 8       | 113,958 | 8       | 103,754 | 8       | 92,996  | 8      | 82,238 | 8      | 71,511 |        |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 142,035 | 1/4     | 132,632 | 1/4     | 123,214 | 1/4     | 113,761 | 1/4     | 103,530 | 1/4     | 92,772  | 1/4    | 82,014 | 1/4    | 71,288 |        |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 141,840 | 1/2     | 132,436 | 1/2     | 123,017 | 1/2     | 113,564 | 1/2     | 103,305 | 1/2     | 92,548  | 1/2    | 81,790 | 1/2    | 71,066 |        |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 141,646 | 3/4     | 132,241 | 3/4     | 122,820 | 3/4     | 113,368 | 3/4     | 103,081 | 3/4     | 92,324  | 3/4    | 81,566 | 3/4    | 70,843 |        |
| 9     |     | 9     |     | 9       | 141,452 | 9       | 132,045 | 9       | 122,623 | 9       | 113,171 | 9       | 102,857 | 9       | 92,100  | 9      | 81,342 | 9      | 70,620 |        |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 141,257 | 1/4     | 131,849 | 1/4     | 122,426 | 1/4     | 112,974 | 1/4     | 102,633 | 1/4     | 91,875  | 1/4    | 81,117 | 1/4    | 70,397 |        |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 141,063 | 1/2     | 131,654 | 1/2     | 122,229 | 1/2     | 112,777 | 1/2     | 102,409 | 1/2     | 91,651  | 1/2    | 80,893 | 1/2    | 70,175 |        |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 140,869 | 3/4     | 131,458 | 3/4     | 122,032 | 3/4     | 112,581 | 3/4     | 102,185 | 3/4     | 91,427  | 3/4    | 80,669 | 3/4    | 69,952 |        |
| 10    |     | 10    |     | 10      | 140,674 | 10      | 131,262 | 10      | 121,835 | 10      | 112,384 | 10      | 101,961 | 10      | 91,203  | 10     | 80,445 | 10     | 69,729 |        |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 140,480 | 1/4     | 131,066 | 1/4     | 121,638 | 1/4     | 112,187 | 1/4     | 101,737 | 1/4     | 90,979  | 1/4    | 80,221 | 1/4    | 69,506 |        |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 140,286 | 1/2     | 130,871 | 1/2     | 121,441 | 1/2     | 111,990 | 1/2     | 101,513 | 1/2     | 90,755  | 1/2    | 79,997 | 1/2    | 69,282 |        |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 140,091 | 3/4     | 130,675 | 3/4     | 121,244 | 3/4     | 111,794 | 3/4     | 101,288 | 3/4     | 90,531  | 3/4    | 79,773 | 3/4    | 69,059 |        |
| 11    |     | 11    |     | 11      | 139,897 | 11      | 130,479 | 11      | 121,048 | 11      | 111,597 | 11      | 101,064 | 11      | 90,307  | 11     | 79,548 | 11     | 68,836 |        |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 139,700 | 1/4     | 130,283 | 1/4     | 120,851 | 1/4     | 111,400 | 1/4     | 100,840 | 1/4     | 90,082  | 1/4    | 79,324 | 1/4    | 68,612 |        |
| 1/2   | 1/2 | 1/2   | 1/2 | 147,161 | 1/2     | 139,504 | 1/2     | 130,088 | 1/2     | 120,654 | 1/2     | 111,204 | 1/2     | 100,616 | 1/2     | 89,858 | 1/2    | 79,100 | 1/2    | 68,389 |
| 3/4   | 3/4 | 3/4   | 3/4 | 147,145 | 3/4     | 139,307 | 3/4     | 129,892 | 3/4     | 120,457 | 3/4     | 111,007 | 3/4     | 100,392 | 3/4     | 89,634 | 3/4    | 78,876 | 3/4    | 68,165 |

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'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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# BARGE "CBC 1351"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07"

| 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   | 67,942 | 0   | 57,190 | 0   | 46,435 | 0   | 35,681 | 0   | 25,134 | 0   | 14,376 | 0   | 3,613  | 0   |        | 0   |        | 0   |        |
| 1/4 | 67,718 | 1/4 | 56,966 | 1/4 | 46,211 | 1/4 | 35,457 | 1/4 | 24,916 | 1/4 | 14,151 | 1/4 | 3,393  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 67,495 | 1/2 | 56,742 | 1/2 | 45,987 | 1/2 | 35,233 | 1/2 | 24,697 | 1/2 | 13,927 | 1/2 | 3,172  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 67,271 | 3/4 | 56,518 | 3/4 | 45,763 | 3/4 | 35,009 | 3/4 | 24,478 | 3/4 | 13,702 | 3/4 | 2,952  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 1   | 67,048 | 1   | 56,293 | 1   | 45,539 | 1   | 34,785 | 1   | 24,260 | 1   | 13,477 | 1   | 2,732  | 1   | 1      | 1   | 1      | 1   | 1      |
| 1/4 | 66,824 | 1/4 | 56,069 | 1/4 | 45,315 | 1/4 | 34,561 | 1/4 | 24,035 | 1/4 | 13,253 | 1/4 | 2,527  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 66,600 | 1/2 | 55,845 | 1/2 | 45,091 | 1/2 | 34,337 | 1/2 | 23,810 | 1/2 | 13,028 | 1/2 | 2,321  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 66,376 | 3/4 | 55,621 | 3/4 | 44,867 | 3/4 | 34,113 | 3/4 | 23,586 | 3/4 | 12,804 | 3/4 | 2,116  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 2   | 66,152 | 2   | 55,397 | 2   | 44,643 | 2   | 33,889 | 2   | 23,361 | 2   | 12,579 | 2   | 1,911  | 2   | 2      | 2   | 2      | 2   | 2      |
| 1/4 | 65,928 | 1/4 | 55,173 | 1/4 | 44,419 | 1/4 | 33,665 | 1/4 | 23,137 | 1/4 | 12,354 | 1/4 | 1,742  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 65,704 | 1/2 | 54,949 | 1/2 | 44,195 | 1/2 | 33,440 | 1/2 | 22,912 | 1/2 | 12,130 | 1/2 | 1,574  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 65,480 | 3/4 | 54,725 | 3/4 | 43,971 | 3/4 | 33,216 | 3/4 | 22,687 | 3/4 | 11,905 | 3/4 | 1,406  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 3   | 65,255 | 3   | 54,501 | 3   | 43,747 | 3   | 32,992 | 3   | 22,463 | 3   | 11,680 | 3   | 1,237  | 3   | 3      | 3   | 3      | 3   | 3      |
| 1/4 | 65,031 | 1/4 | 54,277 | 1/4 | 43,523 | 1/4 | 32,774 | 1/4 | 22,238 | 1/4 | 11,456 | 1/4 | 1,106  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 64,807 | 1/2 | 54,053 | 1/2 | 43,299 | 1/2 | 32,556 | 1/2 | 22,013 | 1/2 | 11,231 | 1/2 | 975    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 64,583 | 3/4 | 53,829 | 3/4 | 43,075 | 3/4 | 32,338 | 3/4 | 21,789 | 3/4 | 11,007 | 3/4 | 844    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 4   | 64,359 | 4   | 53,605 | 4   | 42,851 | 4   | 32,119 | 4   | 21,564 | 4   | 10,782 | 4   | 713    | 4   | 4      | 4   | 4      | 4   | 4      |
| 1/4 | 64,135 | 1/4 | 53,381 | 1/4 | 42,627 | 1/4 | 31,901 | 1/4 | 21,340 | 1/4 | 10,557 | 1/4 | 620    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 63,911 | 1/2 | 53,157 | 1/2 | 42,402 | 1/2 | 31,683 | 1/2 | 21,115 | 1/2 | 10,333 | 1/2 | 526    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 63,687 | 3/4 | 52,933 | 3/4 | 42,178 | 3/4 | 31,465 | 3/4 | 20,890 | 3/4 | 10,108 | 3/4 | 432    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 5   | 63,463 | 5   | 52,709 | 5   | 41,954 | 5   | 31,246 | 5   | 20,666 | 5   | 9,883  | 5   | 339    | 5   | 5      | 5   | 5      | 5   | 5      |
| 1/4 | 63,239 | 1/4 | 52,485 | 1/4 | 41,730 | 1/4 | 31,028 | 1/4 | 20,441 | 1/4 | 9,659  | 1/4 | 283    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 63,015 | 1/2 | 52,261 | 1/2 | 41,506 | 1/2 | 30,810 | 1/2 | 20,216 | 1/2 | 9,434  | 1/2 | 226    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 62,791 | 3/4 | 52,037 | 3/4 | 41,282 | 3/4 | 30,592 | 3/4 | 19,992 | 3/4 | 9,209  | 3/4 | 170    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 6   | 62,567 | 6   | 51,813 | 6   | 41,058 | 6   | 30,374 | 6   | 19,767 | 6   | 8,985  | 6   | 114    | 6   | 6      | 6   | 6      | 6   | 6      |
| 1/4 | 62,343 | 1/4 | 51,588 | 1/4 | 40,834 | 1/4 | 30,155 | 1/4 | 19,542 | 1/4 | 8,760  | 1/4 | 95     | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 62,119 | 1/2 | 51,364 | 1/2 | 40,610 | 1/2 | 29,937 | 1/2 | 19,318 | 1/2 | 8,536  | 1/2 | 77     | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 61,895 | 3/4 | 51,140 | 3/4 | 40,386 | 3/4 | 29,719 | 3/4 | 19,093 | 3/4 | 8,311  | 3/4 | 58     | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 7   | 61,671 | 7   | 50,916 | 7   | 40,162 | 7   | 29,501 | 7   | 18,869 | 7   | 8,086  | 7   | 39     | 7   | 7      | 7   | 7      | 7   | 7      |
| 1/4 | 61,447 | 1/4 | 50,692 | 1/4 | 39,938 | 1/4 | 29,282 | 1/4 | 18,644 | 1/4 | 7,862  | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 61,223 | 1/2 | 50,468 | 1/2 | 39,714 | 1/2 | 29,064 | 1/2 | 18,419 | 1/2 | 7,637  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 60,999 | 3/4 | 50,244 | 3/4 | 39,490 | 3/4 | 28,846 | 3/4 | 18,195 | 3/4 | 7,413  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 8   | 60,774 | 8   | 50,020 | 8   | 39,266 | 8   | 28,628 | 8   | 17,970 | 8   | 7,188  | 8   | 8      | 8   | 8      | 8   | 8      | 8   | 8      |
| 1/4 | 60,550 | 1/4 | 49,796 | 1/4 | 39,042 | 1/4 | 28,409 | 1/4 | 17,745 | 1/4 | 6,963  | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 60,326 | 1/2 | 49,572 | 1/2 | 38,818 | 1/2 | 28,191 | 1/2 | 17,521 | 1/2 | 6,739  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 60,102 | 3/4 | 49,348 | 3/4 | 38,594 | 3/4 | 27,973 | 3/4 | 17,296 | 3/4 | 6,515  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 9   | 59,878 | 9   | 49,124 | 9   | 38,370 | 9   | 27,755 | 9   | 17,072 | 9   | 6,290  | 9   | 9      | 9   | 9      | 9   | 9      | 9   | 9      |
| 1/4 | 59,654 | 1/4 | 48,900 | 1/4 | 38,146 | 1/4 | 27,536 | 1/4 | 16,847 | 1/4 | 6,066  | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 59,430 | 1/2 | 48,676 | 1/2 | 37,921 | 1/2 | 27,318 | 1/2 | 16,622 | 1/2 | 5,842  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 59,206 | 3/4 | 48,452 | 3/4 | 37,697 | 3/4 | 27,100 | 3/4 | 16,398 | 3/4 | 5,618  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 10  | 58,982 | 10  | 48,228 | 10  | 37,473 | 10  | 26,882 | 10  | 16,173 | 10  | 5,394  | 10  | 10     | 10  | 10     | 10  | 10     | 10  | 10     |
| 1/4 | 58,758 | 1/4 | 48,004 | 1/4 | 37,249 | 1/4 | 26,663 | 1/4 | 15,948 | 1/4 | 5,171  | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 58,534 | 1/2 | 47,780 | 1/2 | 37,025 | 1/2 | 26,445 | 1/2 | 15,724 | 1/2 | 4,948  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 58,310 | 3/4 | 47,556 | 3/4 | 36,801 | 3/4 | 26,227 | 3/4 | 15,499 | 3/4 | 4,724  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 11  | 58,086 | 11  | 47,332 | 11  | 36,577 | 11  | 26,009 | 11  | 15,275 | 11  | 4,501  | 11  |        | 11  | 11     | 11  | 11     | 11  | 11     |
| 1/4 | 57,862 | 1/4 | 47,107 | 1/4 | 36,353 | 1/4 | 25,790 | 1/4 | 15,050 | 1/4 | 4,279  | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 57,638 | 1/2 | 46,883 | 1/2 | 36,129 | 1/2 | 25,571 | 1/2 | 14,825 | 1/2 | 4,057  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 57,414 | 3/4 | 46,659 | 3/4 | 35,905 | 3/4 | 25,353 | 3/4 | 14,601 | 3/4 | 3,835  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/28/2012 CL  
CALCULATED: 08/28/2012 CL  
PRINTED: 08/28/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2012

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



# BARGE "CBC 1351"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07 1/2"

| 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    | IN      | IN    | IN      | IN    | IN      | IN    | IN     | IN    | IN |
| 0     | 0   | 0     | 170,302 | 0     | 160,967 | 0     | 148,970 | 0     | 136,947 | 0     | 124,883 | 0     | 112,819 | 0     | 100,755 | 0     | 88,690 |       |    |
| 1/4   | 1/4 | 1/4   | 170,285 | 1/4   | 160,717 | 1/4   | 148,720 | 1/4   | 136,696 | 1/4   | 124,632 | 1/4   | 112,567 | 1/4   | 100,503 | 1/4   | 88,438 |       |    |
| 1/2   | 1/2 | 1/2   | 170,267 | 1/2   | 160,467 | 1/2   | 148,470 | 1/2   | 136,445 | 1/2   | 124,380 | 1/2   | 112,316 | 1/2   | 100,252 | 1/2   | 88,187 |       |    |
| 3/4   | 3/4 | 3/4   | 170,208 | 3/4   | 160,217 | 3/4   | 148,220 | 3/4   | 136,193 | 3/4   | 124,129 | 3/4   | 112,065 | 3/4   | 100,001 | 3/4   | 88,935 |       |    |
| 1     | 1   | 1     | 170,149 | 1     | 159,967 | 1     | 147,970 | 1     | 135,942 | 1     | 123,878 | 1     | 111,813 | 1     | 99,749  | 1     | 87,684 |       |    |
| 1/4   | 1/4 | 1/4   | 170,090 | 1/4   | 159,717 | 1/4   | 147,720 | 1/4   | 135,691 | 1/4   | 123,626 | 1/4   | 111,562 | 1/4   | 99,498  | 1/4   | 87,433 |       |    |
| 1/2   | 1/2 | 1/2   | 170,031 | 1/2   | 159,467 | 1/2   | 147,470 | 1/2   | 135,439 | 1/2   | 123,375 | 1/2   | 111,311 | 1/2   | 99,247  | 1/2   | 87,181 |       |    |
| 3/4   | 3/4 | 3/4   | 169,930 | 3/4   | 159,217 | 3/4   | 147,220 | 3/4   | 135,188 | 3/4   | 123,124 | 3/4   | 111,059 | 3/4   | 98,995  | 3/4   | 86,930 |       |    |
| 2     | 2   | 2     | 169,829 | 2     | 158,967 | 2     | 146,970 | 2     | 134,937 | 2     | 122,872 | 2     | 110,808 | 2     | 98,744  | 2     | 86,679 |       |    |
| 1/4   | 1/4 | 1/4   | 169,728 | 1/4   | 158,717 | 1/4   | 146,720 | 1/4   | 134,685 | 1/4   | 122,621 | 1/4   | 110,557 | 1/4   | 98,493  | 1/4   | 86,427 |       |    |
| 1/2   | 1/2 | 1/2   | 169,627 | 1/2   | 158,467 | 1/2   | 146,470 | 1/2   | 134,434 | 1/2   | 122,370 | 1/2   | 110,305 | 1/2   | 98,241  | 1/2   | 86,176 |       |    |
| 3/4   | 3/4 | 3/4   | 169,484 | 3/4   | 158,217 | 3/4   | 146,220 | 3/4   | 134,183 | 3/4   | 122,118 | 3/4   | 110,054 | 3/4   | 97,990  | 3/4   | 85,924 |       |    |
| 3     | 3   | 3     | 169,341 | 3     | 157,967 | 3     | 145,970 | 3     | 133,931 | 3     | 121,867 | 3     | 109,803 | 3     | 97,739  | 3     | 85,673 |       |    |
| 1/4   | 1/4 | 1/4   | 169,198 | 1/4   | 157,717 | 1/4   | 145,720 | 1/4   | 133,680 | 1/4   | 121,616 | 1/4   | 109,551 | 1/4   | 97,487  | 1/4   | 85,422 |       |    |
| 1/2   | 1/2 | 1/2   | 169,056 | 1/2   | 157,468 | 1/2   | 145,470 | 1/2   | 133,429 | 1/2   | 121,364 | 1/2   | 109,300 | 1/2   | 97,236  | 1/2   | 85,170 |       |    |
| 3/4   | 3/4 | 3/4   | 168,871 | 3/4   | 157,218 | 3/4   | 145,220 | 3/4   | 133,177 | 3/4   | 121,113 | 3/4   | 109,049 | 3/4   | 96,985  | 3/4   | 84,919 |       |    |
| 4     | 4   | 4     | 168,686 | 4     | 156,968 | 4     | 144,971 | 4     | 132,926 | 4     | 120,862 | 4     | 108,797 | 4     | 96,733  | 4     | 84,668 |       |    |
| 1/4   | 1/4 | 1/4   | 168,501 | 1/4   | 156,718 | 1/4   | 144,721 | 1/4   | 132,675 | 1/4   | 120,610 | 1/4   | 108,546 | 1/4   | 96,482  | 1/4   | 84,416 |       |    |
| 1/2   | 1/2 | 1/2   | 168,316 | 1/2   | 156,468 | 1/2   | 144,471 | 1/2   | 132,423 | 1/2   | 120,359 | 1/2   | 108,295 | 1/2   | 96,231  | 1/2   | 84,165 |       |    |
| 3/4   | 3/4 | 3/4   | 168,090 | 3/4   | 156,218 | 3/4   | 144,221 | 3/4   | 132,172 | 3/4   | 120,108 | 3/4   | 108,043 | 3/4   | 95,979  | 3/4   | 83,913 |       |    |
| 5     | 5   | 5     | 167,863 | 5     | 155,968 | 5     | 143,971 | 5     | 131,920 | 5     | 119,856 | 5     | 107,792 | 5     | 95,728  | 5     | 83,662 |       |    |
| 1/4   | 1/4 | 1/4   | 167,636 | 1/4   | 155,718 | 1/4   | 143,721 | 1/4   | 131,669 | 1/4   | 119,605 | 1/4   | 107,541 | 1/4   | 95,477  | 1/4   | 83,411 |       |    |
| 1/2   | 1/2 | 1/2   | 167,410 | 1/2   | 155,468 | 1/2   | 143,471 | 1/2   | 131,418 | 1/2   | 119,354 | 1/2   | 107,289 | 1/2   | 95,225  | 1/2   | 83,159 |       |    |
| 3/4   | 3/4 | 3/4   | 167,162 | 3/4   | 155,218 | 3/4   | 143,221 | 3/4   | 131,166 | 3/4   | 119,102 | 3/4   | 107,038 | 3/4   | 94,974  | 3/4   | 82,908 |       |    |
| 6     | 6   | 6     | 166,914 | 6     | 154,968 | 6     | 142,971 | 6     | 130,915 | 6     | 118,851 | 6     | 106,787 | 6     | 94,722  | 6     | 82,656 |       |    |
| 1/4   | 1/4 | 1/4   | 166,667 | 1/4   | 154,718 | 1/4   | 142,721 | 1/4   | 130,664 | 1/4   | 118,600 | 1/4   | 106,535 | 1/4   | 94,471  | 1/4   | 82,405 |       |    |
| 1/2   | 1/2 | 1/2   | 166,419 | 1/2   | 154,468 | 1/2   | 142,471 | 1/2   | 130,412 | 1/2   | 118,348 | 1/2   | 106,284 | 1/2   | 94,220  | 1/2   | 82,154 |       |    |
| 3/4   | 3/4 | 3/4   | 166,172 | 3/4   | 154,218 | 3/4   | 142,221 | 3/4   | 130,161 | 3/4   | 118,097 | 3/4   | 106,033 | 3/4   | 93,968  | 3/4   | 81,902 |       |    |
| 7     | 7   | 7     | 165,924 | 7     | 153,968 | 7     | 141,971 | 7     | 129,910 | 7     | 117,846 | 7     | 105,781 | 7     | 93,717  | 7     | 81,651 |       |    |
| 1/4   | 1/4 | 1/4   | 165,676 | 1/4   | 153,718 | 1/4   | 141,721 | 1/4   | 129,658 | 1/4   | 117,594 | 1/4   | 105,530 | 1/4   | 93,466  | 1/4   | 81,400 |       |    |
| 1/2   | 1/2 | 1/2   | 165,429 | 1/2   | 153,468 | 1/2   | 141,471 | 1/2   | 129,407 | 1/2   | 117,343 | 1/2   | 105,279 | 1/2   | 93,214  | 1/2   | 81,148 |       |    |
| 3/4   | 3/4 | 3/4   | 165,181 | 3/4   | 153,219 | 3/4   | 141,220 | 3/4   | 129,156 | 3/4   | 117,092 | 3/4   | 105,027 | 3/4   | 92,963  | 3/4   | 80,897 |       |    |
| 8     | 8   | 8     | 164,933 | 8     | 152,969 | 8     | 140,969 | 8     | 128,904 | 8     | 116,840 | 8     | 104,776 | 8     | 92,712  | 8     | 80,645 |       |    |
| 1/4   | 1/4 | 1/4   | 164,686 | 1/4   | 152,719 | 1/4   | 140,717 | 1/4   | 128,653 | 1/4   | 116,589 | 1/4   | 104,525 | 1/4   | 92,460  | 1/4   | 80,394 |       |    |
| 1/2   | 1/2 | 1/2   | 164,438 | 1/2   | 152,469 | 1/2   | 140,466 | 1/2   | 128,402 | 1/2   | 116,338 | 1/2   | 104,273 | 1/2   | 92,209  | 1/2   | 80,143 |       |    |
| 3/4   | 3/4 | 3/4   | 164,191 | 3/4   | 152,219 | 3/4   | 140,215 | 3/4   | 128,150 | 3/4   | 116,086 | 3/4   | 104,022 | 3/4   | 91,958  | 3/4   | 79,891 |       |    |
| 9     | 9   | 9     | 163,943 | 9     | 151,969 | 9     | 139,963 | 9     | 127,899 | 9     | 115,835 | 9     | 103,771 | 9     | 91,706  | 9     | 79,640 |       |    |
| 1/4   | 1/4 | 1/4   | 163,695 | 1/4   | 151,719 | 1/4   | 139,712 | 1/4   | 127,648 | 1/4   | 115,584 | 1/4   | 103,519 | 1/4   | 91,455  | 1/4   | 79,388 |       |    |
| 1/2   | 1/2 | 1/2   | 163,448 | 1/2   | 151,469 | 1/2   | 139,461 | 1/2   | 127,396 | 1/2   | 115,332 | 1/2   | 103,268 | 1/2   | 91,203  | 1/2   | 79,137 |       |    |
| 3/4   | 3/4 | 3/4   | 163,200 | 3/4   | 151,219 | 3/4   | 139,209 | 3/4   | 127,145 | 3/4   | 115,081 | 3/4   | 103,017 | 3/4   | 90,952  | 3/4   | 78,886 |       |    |
| 10    | 10  | 10    | 162,952 | 10    | 150,969 | 10    | 138,958 | 10    | 126,894 | 10    | 114,830 | 10    | 102,765 | 10    | 90,701  | 10    | 78,634 |       |    |
| 1/4   | 1/4 | 1/4   | 162,705 | 1/4   | 150,719 | 1/4   | 138,707 | 1/4   | 126,642 | 1/4   | 114,578 | 1/4   | 102,514 | 1/4   | 90,449  | 1/4   | 78,383 |       |    |
| 1/2   | 1/2 | 1/2   | 162,457 | 1/2   | 150,469 | 1/2   | 138,455 | 1/2   | 126,391 | 1/2   | 114,327 | 1/2   | 102,263 | 1/2   | 90,198  | 1/2   | 78,132 |       |    |
| 3/4   | 3/4 | 3/4   | 162,209 | 3/4   | 150,219 | 3/4   | 138,204 | 3/4   | 126,140 | 3/4   | 114,076 | 3/4   | 102,011 | 3/4   | 89,947  | 3/4   | 77,880 |       |    |
| 11    | 11  | 11    | 161,962 | 11    | 149,969 | 11    | 137,953 | 11    | 125,888 | 11    | 113,824 | 11    | 101,760 | 11    | 89,695  | 11    | 77,629 |       |    |
| 1/4   | 1/4 | 1/4   | 161,714 | 1/4   | 149,719 | 1/4   | 137,701 | 1/4   | 125,637 | 1/4   | 113,573 | 1/4   | 101,509 | 1/4   | 89,444  | 1/4   | 77,377 |       |    |
| 1/2   | 1/2 | 1/2   | 170,336 | 1/2   | 161,467 | 1/2   | 149,469 | 1/2   | 137,450 | 1/2   | 125,386 | 1/2   | 113,321 | 1/2   | 89,192  | 1/2   | 77,126 |       |    |
| 3/4   | 3/4 | 3/4   | 170,319 | 3/4   | 161,217 | 3/4   | 149,219 | 3/4   | 137,199 | 3/4   | 125,134 | 3/4   | 113,070 | 3/4   | 88,941  | 3/4   | 76,875 |       |    |

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 29'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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# BARGE "CBC 1351"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07 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   | 76,623 | 0   | 64,557 | 0   | 52,491 | 0   | 40,424 | 0   | 28,638 | 0   | 16,586 | 0   | 4,536  | 0   |        | 0  |        | 0  |        |
| 1/4 | 76,372 | 1/4 | 64,306 | 1/4 | 52,239 | 1/4 | 40,173 | 1/4 | 28,393 | 1/4 | 16,334 | 1/4 | 4,287  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 76,121 | 1/2 | 64,054 | 1/2 | 51,988 | 1/2 | 39,922 | 1/2 | 28,149 | 1/2 | 16,083 | 1/2 | 4,038  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 75,869 | 3/4 | 63,803 | 3/4 | 51,737 | 3/4 | 39,670 | 3/4 | 27,898 | 3/4 | 15,832 | 3/4 | 3,792  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 1   | 75,618 | 1   | 63,551 | 1   | 51,485 | 1   | 39,419 | 1   | 27,646 | 1   | 15,580 | 1   | 3,546  | 1   | 1      |    | 1      |    | 1      |
| 1/4 | 75,366 | 1/4 | 63,300 | 1/4 | 51,234 | 1/4 | 39,168 | 1/4 | 27,395 | 1/4 | 15,329 | 1/4 | 3,299  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 75,115 | 1/2 | 63,049 | 1/2 | 50,982 | 1/2 | 38,916 | 1/2 | 27,143 | 1/2 | 15,078 | 1/2 | 3,053  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 74,864 | 3/4 | 62,797 | 3/4 | 50,731 | 3/4 | 38,665 | 3/4 | 26,892 | 3/4 | 14,826 | 3/4 | 2,823  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 2   | 74,612 | 2   | 62,546 | 2   | 50,480 | 2   | 38,413 | 2   | 26,641 | 2   | 14,575 | 2   | 2,593  | 2   | 2      |    | 2      |    | 2      |
| 1/4 | 74,361 | 1/4 | 62,295 | 1/4 | 50,228 | 1/4 | 38,162 | 1/4 | 26,389 | 1/4 | 14,323 | 1/4 | 2,364  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 74,109 | 1/2 | 62,043 | 1/2 | 49,977 | 1/2 | 37,911 | 1/2 | 26,138 | 1/2 | 14,072 | 1/2 | 2,134  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 73,858 | 3/4 | 61,792 | 3/4 | 49,726 | 3/4 | 37,666 | 3/4 | 25,887 | 3/4 | 13,821 | 3/4 | 1,945  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 3   | 73,607 | 3   | 61,540 | 3   | 49,474 | 3   | 37,422 | 3   | 25,635 | 3   | 13,569 | 3   | 1,757  | 3   | 3      |    | 3      |    | 3      |
| 1/4 | 73,355 | 1/4 | 61,289 | 1/4 | 49,223 | 1/4 | 37,178 | 1/4 | 25,384 | 1/4 | 13,318 | 1/4 | 1,568  | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 73,104 | 1/2 | 61,038 | 1/2 | 48,971 | 1/2 | 36,933 | 1/2 | 25,132 | 1/2 | 13,067 | 1/2 | 1,380  | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 72,853 | 3/4 | 60,786 | 3/4 | 48,720 | 3/4 | 36,689 | 3/4 | 24,881 | 3/4 | 12,815 | 3/4 | 1,233  | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 4   | 72,601 | 4   | 60,535 | 4   | 48,469 | 4   | 36,445 | 4   | 24,630 | 4   | 12,564 | 4   | 1,087  | 4   | 4      |    | 4      |    | 4      |
| 1/4 | 72,350 | 1/4 | 60,284 | 1/4 | 48,217 | 1/4 | 36,201 | 1/4 | 24,378 | 1/4 | 12,313 | 1/4 | 940    | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 72,098 | 1/2 | 60,032 | 1/2 | 47,966 | 1/2 | 35,957 | 1/2 | 24,127 | 1/2 | 12,061 | 1/2 | 793    | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 71,847 | 3/4 | 59,781 | 3/4 | 47,714 | 3/4 | 35,713 | 3/4 | 23,876 | 3/4 | 11,810 | 3/4 | 689    | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 5   | 71,596 | 5   | 59,529 | 5   | 47,463 | 5   | 35,469 | 5   | 23,624 | 5   | 11,558 | 5   | 584    | 5   | 5      |    | 5      |    | 5      |
| 1/4 | 71,344 | 1/4 | 59,278 | 1/4 | 47,212 | 1/4 | 35,225 | 1/4 | 23,373 | 1/4 | 11,307 | 1/4 | 479    | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 71,093 | 1/2 | 59,027 | 1/2 | 46,960 | 1/2 | 34,982 | 1/2 | 23,122 | 1/2 | 11,056 | 1/2 | 374    | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 70,842 | 3/4 | 58,775 | 3/4 | 46,709 | 3/4 | 34,738 | 3/4 | 22,870 | 3/4 | 10,804 | 3/4 | 312    | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 6   | 70,590 | 6   | 58,524 | 6   | 46,458 | 6   | 34,494 | 6   | 22,619 | 6   | 10,553 | 6   | 249    | 6   | 6      |    | 6      |    | 6      |
| 1/4 | 70,339 | 1/4 | 58,272 | 1/4 | 46,206 | 1/4 | 34,250 | 1/4 | 22,367 | 1/4 | 10,302 | 1/4 | 186    | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 70,087 | 1/2 | 58,021 | 1/2 | 45,955 | 1/2 | 34,006 | 1/2 | 22,116 | 1/2 | 10,050 | 1/2 | 123    | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 69,836 | 3/4 | 57,770 | 3/4 | 45,703 | 3/4 | 33,762 | 3/4 | 21,865 | 3/4 | 9,799  | 3/4 | 102    | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 7   | 69,585 | 7   | 57,518 | 7   | 45,452 | 7   | 33,518 | 7   | 21,613 | 7   | 9,547  | 7   | 81     | 7   | 7      |    | 7      |    | 7      |
| 1/4 | 69,333 | 1/4 | 57,267 | 1/4 | 45,201 | 1/4 | 33,274 | 1/4 | 21,362 | 1/4 | 9,296  | 1/4 | 60     | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 69,082 | 1/2 | 57,016 | 1/2 | 44,949 | 1/2 | 33,030 | 1/2 | 21,111 | 1/2 | 9,045  | 1/2 | 39     | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 68,830 | 3/4 | 56,764 | 3/4 | 44,698 | 3/4 | 32,786 | 3/4 | 20,859 | 3/4 | 8,793  | 3/4 |        | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 8   | 68,579 | 8   | 56,513 | 8   | 44,447 | 8   | 32,542 | 8   | 20,608 | 8   | 8,542  | 8   |        | 8   | 8      |    | 8      |    | 8      |
| 1/4 | 68,328 | 1/4 | 56,261 | 1/4 | 44,195 | 1/4 | 32,298 | 1/4 | 20,356 | 1/4 | 8,291  | 1/4 |        | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 68,076 | 1/2 | 56,010 | 1/2 | 43,944 | 1/2 | 32,054 | 1/2 | 20,105 | 1/2 | 8,039  | 1/2 |        | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 67,825 | 3/4 | 55,759 | 3/4 | 43,692 | 3/4 | 31,810 | 3/4 | 19,854 | 3/4 | 7,788  | 3/4 |        | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 9   | 67,574 | 9   | 55,507 | 9   | 43,441 | 9   | 31,566 | 9   | 19,602 | 9   | 7,537  | 9   |        | 9   | 9      |    | 9      |    | 9      |
| 1/4 | 67,322 | 1/4 | 55,256 | 1/4 | 43,190 | 1/4 | 31,322 | 1/4 | 19,351 | 1/4 | 7,286  | 1/4 |        | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 67,071 | 1/2 | 55,005 | 1/2 | 42,938 | 1/2 | 31,078 | 1/2 | 19,100 | 1/2 | 7,035  | 1/2 |        | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 66,819 | 3/4 | 54,753 | 3/4 | 42,687 | 3/4 | 30,834 | 3/4 | 18,848 | 3/4 | 6,784  | 3/4 |        | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 10  | 66,568 | 10  | 54,502 | 10  | 42,435 | 10  | 30,590 | 10  | 18,597 | 10  | 6,533  | 10  |        | 10  | 10     |    | 10     |    | 10     |
| 1/4 | 66,317 | 1/4 | 54,250 | 1/4 | 42,184 | 1/4 | 30,346 | 1/4 | 18,345 | 1/4 | 6,283  | 1/4 |        | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 66,065 | 1/2 | 53,999 | 1/2 | 41,933 | 1/2 | 30,102 | 1/2 | 18,094 | 1/2 | 6,032  | 1/2 |        | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 65,814 | 3/4 | 53,748 | 3/4 | 41,681 | 3/4 | 29,858 | 3/4 | 17,843 | 3/4 | 5,782  | 3/4 |        | 3/4 | 3/4    |    | 3/4    |    | 3/4    |
| 11  | 65,563 | 11  | 53,496 | 11  | 41,430 | 11  | 29,614 | 11  | 17,591 | 11  | 5,532  | 11  |        | 11  | 11     |    | 11     |    | 11     |
| 1/4 | 65,311 | 1/4 | 53,245 | 1/4 | 41,179 | 1/4 | 29,370 | 1/4 | 17,340 | 1/4 | 5,283  | 1/4 |        | 1/4 | 1/4    |    | 1/4    |    | 1/4    |
| 1/2 | 65,060 | 1/2 | 52,993 | 1/2 | 40,927 | 1/2 | 29,126 | 1/2 | 17,089 | 1/2 | 5,033  | 1/2 |        | 1/2 | 1/2    |    | 1/2    |    | 1/2    |
| 3/4 | 64,808 | 3/4 | 52,742 | 3/4 | 40,676 | 3/4 | 28,882 | 3/4 | 16,837 | 3/4 | 4,784  | 3/4 |        | 3/4 | 3/4    |    | 3/4    |    | 3/4    |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CALCULATED: 08/28/2012 CL  
PRINTED: 08/28/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2012

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



# BARGE "CBC 1351"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07 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       | 151,509 | 0     | 143,217 | 0     | 132,559 | 0     | 121,880 | 0     | 111,164 | 0     | 100,449 | 0     | 89,733 | 0     | 79,016 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 151,494 | 1/4   | 142,994 | 1/4   | 132,337 | 1/4   | 121,657 | 1/4   | 110,941 | 1/4   | 100,225 | 1/4   | 89,509 | 1/4   | 78,793 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 151,479 | 1/2   | 142,772 | 1/2   | 132,115 | 1/2   | 121,434 | 1/2   | 110,718 | 1/2   | 100,002 | 1/2   | 89,286 | 1/2   | 78,570 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 151,426 | 3/4   | 142,550 | 3/4   | 131,893 | 3/4   | 121,211 | 3/4   | 110,495 | 3/4   | 99,779  | 3/4   | 89,063 | 3/4   | 78,346 |
| 1     |     | 1     |     | 1       | 151,374 | 1     | 142,328 | 1     | 131,671 | 1     | 120,987 | 1     | 110,271 | 1     | 99,556  | 1     | 88,840 | 1     | 78,123 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 151,321 | 1/4   | 142,106 | 1/4   | 131,449 | 1/4   | 120,764 | 1/4   | 110,048 | 1/4   | 99,332  | 1/4   | 88,616 | 1/4   | 77,900 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 151,269 | 1/2   | 141,884 | 1/2   | 131,227 | 1/2   | 120,541 | 1/2   | 109,825 | 1/2   | 99,109  | 1/2   | 88,393 | 1/2   | 77,676 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 151,179 | 3/4   | 141,662 | 3/4   | 131,005 | 3/4   | 120,318 | 3/4   | 109,602 | 3/4   | 98,886  | 3/4   | 88,170 | 3/4   | 77,453 |
| 2     |     | 2     |     | 2       | 151,089 | 2     | 141,440 | 2     | 130,783 | 2     | 120,094 | 2     | 109,378 | 2     | 98,663  | 2     | 87,947 | 2     | 77,230 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 150,999 | 1/4   | 141,218 | 1/4   | 130,561 | 1/4   | 119,871 | 1/4   | 109,155 | 1/4   | 98,439  | 1/4   | 87,723 | 1/4   | 77,007 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 150,910 | 1/2   | 140,996 | 1/2   | 130,339 | 1/2   | 119,648 | 1/2   | 108,932 | 1/2   | 98,216  | 1/2   | 87,500 | 1/2   | 76,783 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 150,783 | 3/4   | 140,774 | 3/4   | 130,117 | 3/4   | 119,425 | 3/4   | 108,709 | 3/4   | 97,993  | 3/4   | 87,277 | 3/4   | 76,560 |
| 3     |     | 3     |     | 3       | 150,656 | 3     | 140,552 | 3     | 129,895 | 3     | 119,201 | 3     | 108,485 | 3     | 97,770  | 3     | 87,054 | 3     | 76,337 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 150,529 | 1/4   | 140,330 | 1/4   | 129,673 | 1/4   | 118,978 | 1/4   | 108,262 | 1/4   | 97,546  | 1/4   | 86,830 | 1/4   | 76,113 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 150,402 | 1/2   | 140,108 | 1/2   | 129,451 | 1/2   | 118,755 | 1/2   | 108,039 | 1/2   | 97,323  | 1/2   | 86,607 | 1/2   | 75,890 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 150,238 | 3/4   | 139,886 | 3/4   | 129,229 | 3/4   | 118,532 | 3/4   | 107,816 | 3/4   | 97,100  | 3/4   | 86,384 | 3/4   | 75,667 |
| 4     |     | 4     |     | 4       | 150,074 | 4     | 139,664 | 4     | 129,007 | 4     | 118,308 | 4     | 107,592 | 4     | 96,877  | 4     | 86,161 | 4     | 75,444 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 149,909 | 1/4   | 139,442 | 1/4   | 128,785 | 1/4   | 118,085 | 1/4   | 107,369 | 1/4   | 96,653  | 1/4   | 85,938 | 1/4   | 75,220 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 149,745 | 1/2   | 139,220 | 1/2   | 128,563 | 1/2   | 117,862 | 1/2   | 107,146 | 1/2   | 96,430  | 1/2   | 85,714 | 1/2   | 74,997 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 149,544 | 3/4   | 138,998 | 3/4   | 128,341 | 3/4   | 117,639 | 3/4   | 106,923 | 3/4   | 96,207  | 3/4   | 85,491 | 3/4   | 74,774 |
| 5     |     | 5     |     | 5       | 149,343 | 5     | 138,776 | 5     | 128,119 | 5     | 117,415 | 5     | 106,699 | 5     | 95,984  | 5     | 85,268 | 5     | 74,550 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 149,141 | 1/4   | 138,554 | 1/4   | 127,897 | 1/4   | 117,192 | 1/4   | 106,476 | 1/4   | 95,760  | 1/4   | 85,045 | 1/4   | 74,327 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 148,940 | 1/2   | 138,332 | 1/2   | 127,675 | 1/2   | 116,969 | 1/2   | 106,253 | 1/2   | 95,537  | 1/2   | 84,821 | 1/2   | 74,104 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 148,720 | 3/4   | 138,110 | 3/4   | 127,453 | 3/4   | 116,746 | 3/4   | 106,030 | 3/4   | 95,314  | 3/4   | 84,598 | 3/4   | 73,881 |
| 6     |     | 6     |     | 6       | 148,500 | 6     | 137,888 | 6     | 127,231 | 6     | 116,522 | 6     | 105,806 | 6     | 95,091  | 6     | 84,375 | 6     | 73,657 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 148,280 | 1/4   | 137,666 | 1/4   | 127,009 | 1/4   | 116,299 | 1/4   | 105,583 | 1/4   | 94,867  | 1/4   | 84,152 | 1/4   | 73,434 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 148,060 | 1/2   | 137,444 | 1/2   | 126,787 | 1/2   | 116,076 | 1/2   | 105,360 | 1/2   | 94,644  | 1/2   | 83,928 | 1/2   | 73,211 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 147,840 | 3/4   | 137,222 | 3/4   | 126,565 | 3/4   | 115,853 | 3/4   | 105,137 | 3/4   | 94,421  | 3/4   | 83,705 | 3/4   | 72,987 |
| 7     |     | 7     |     | 7       | 147,620 | 7     | 137,000 | 7     | 126,343 | 7     | 115,629 | 7     | 104,913 | 7     | 94,198  | 7     | 83,482 | 7     | 72,764 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 147,400 | 1/4   | 136,778 | 1/4   | 126,121 | 1/4   | 115,406 | 1/4   | 104,690 | 1/4   | 93,974  | 1/4   | 83,259 | 1/4   | 72,541 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 147,180 | 1/2   | 136,556 | 1/2   | 125,899 | 1/2   | 115,183 | 1/2   | 104,467 | 1/2   | 93,751  | 1/2   | 83,035 | 1/2   | 72,318 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 146,960 | 3/4   | 136,334 | 3/4   | 125,675 | 3/4   | 114,960 | 3/4   | 104,244 | 3/4   | 93,528  | 3/4   | 82,812 | 3/4   | 72,094 |
| 8     |     | 8     |     | 8       | 146,740 | 8     | 136,112 | 8     | 125,452 | 8     | 114,736 | 8     | 104,021 | 8     | 93,305  | 8     | 82,589 | 8     | 71,871 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 146,520 | 1/4   | 135,890 | 1/4   | 125,229 | 1/4   | 114,513 | 1/4   | 103,797 | 1/4   | 93,081  | 1/4   | 82,365 | 1/4   | 71,648 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 146,300 | 1/2   | 135,668 | 1/2   | 125,006 | 1/2   | 114,290 | 1/2   | 103,574 | 1/2   | 92,858  | 1/2   | 82,142 | 1/2   | 71,424 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 146,080 | 3/4   | 135,446 | 3/4   | 124,782 | 3/4   | 114,067 | 3/4   | 103,351 | 3/4   | 92,635  | 3/4   | 81,919 | 3/4   | 71,201 |
| 9     |     | 9     |     | 9       | 145,860 | 9     | 135,224 | 9     | 124,559 | 9     | 113,843 | 9     | 103,128 | 9     | 92,412  | 9     | 81,696 | 9     | 70,978 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 145,640 | 1/4   | 135,002 | 1/4   | 124,336 | 1/4   | 113,620 | 1/4   | 102,904 | 1/4   | 92,188  | 1/4   | 81,472 | 1/4   | 70,755 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 145,420 | 1/2   | 134,780 | 1/2   | 124,113 | 1/2   | 113,397 | 1/2   | 102,681 | 1/2   | 91,965  | 1/2   | 81,249 | 1/2   | 70,531 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 145,200 | 3/4   | 134,558 | 3/4   | 123,889 | 3/4   | 113,174 | 3/4   | 102,458 | 3/4   | 91,742  | 3/4   | 81,026 | 3/4   | 70,308 |
| 10    |     | 10    |     | 10      | 144,980 | 10    | 134,336 | 10    | 123,666 | 10    | 112,950 | 10    | 102,235 | 10    | 91,519  | 10    | 80,802 | 10    | 70,085 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 144,760 | 1/4   | 134,114 | 1/4   | 123,443 | 1/4   | 112,727 | 1/4   | 102,011 | 1/4   | 91,295  | 1/4   | 80,579 | 1/4   | 69,861 |
| 1/2   | 1/2 | 1/2   | 1/2 | 1/2     | 144,540 | 1/2   | 133,892 | 1/2   | 123,220 | 1/2   | 112,504 | 1/2   | 101,788 | 1/2   | 91,072  | 1/2   | 80,356 | 1/2   | 69,638 |
| 3/4   | 3/4 | 3/4   | 3/4 | 3/4     | 144,320 | 3/4   | 133,670 | 3/4   | 122,997 | 3/4   | 112,281 | 3/4   | 101,565 | 3/4   | 90,849  | 3/4   | 80,133 | 3/4   | 69,415 |
| 11    |     | 11    |     | 11      | 144,100 | 11    | 133,447 | 11    | 122,773 | 11    | 112,057 | 11    | 101,342 | 11    | 90,626  | 11    | 79,909 | 11    | 69,192 |
| 1/4   | 1/4 | 1/4   | 1/4 | 1/4     | 143,881 | 1/4   | 133,225 | 1/4   | 122,550 | 1/4   | 111,834 | 1/4   | 101,118 | 1/4   | 90,402  | 1/4   | 79,686 | 1/4   | 68,968 |
| 1/2   | 1/2 | 1/2   | 1/2 | 151,540 | 143,661 | 1/2   | 133,003 | 1/2   | 122,327 | 1/2   | 111,611 | 1/2   | 100,895 | 1/2   | 90,179  | 1/2   | 79,463 | 1/2   | 68,745 |
| 3/4   | 3/4 | 3/4   | 3/4 | 151,524 | 143,439 | 3/4   | 132,781 | 3/4   | 122,104 | 3/4   | 111,388 | 3/4   | 100,672 | 3/4   | 89,956  | 3/4   | 79,239 | 3/4   | 68,522 |

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.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "CBC 1351"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 16'-07 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   | 68,299 | 0   | 57,581 | 0   | 46,863 | 0   | 36,146 | 0   | 25,452 | 0   | 14,736 | 0   | 4,033  | 0   |        | 0   |        | 0   |        |
| 1/4 | 68,075 | 1/4 | 57,358 | 1/4 | 46,640 | 1/4 | 35,922 | 1/4 | 25,229 | 1/4 | 14,513 | 1/4 | 3,812  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 67,852 | 1/2 | 57,134 | 1/2 | 46,417 | 1/2 | 35,699 | 1/2 | 25,006 | 1/2 | 14,290 | 1/2 | 3,591  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 67,629 | 3/4 | 56,911 | 3/4 | 46,193 | 3/4 | 35,476 | 3/4 | 24,783 | 3/4 | 14,067 | 3/4 | 3,373  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 1   | 67,405 | 1   | 56,688 | 1   | 45,970 | 1   | 35,252 | 1   | 24,560 | 1   | 13,843 | 1   | 3,154  | 1   | 1      | 1   | 1      | 1   | 1      |
| 1/4 | 67,182 | 1/4 | 56,464 | 1/4 | 45,747 | 1/4 | 35,029 | 1/4 | 24,337 | 1/4 | 13,620 | 1/4 | 2,935  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 66,959 | 1/2 | 56,241 | 1/2 | 45,523 | 1/2 | 34,806 | 1/2 | 24,114 | 1/2 | 13,397 | 1/2 | 2,716  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 66,736 | 3/4 | 56,018 | 3/4 | 45,300 | 3/4 | 34,583 | 3/4 | 23,891 | 3/4 | 13,173 | 3/4 | 2,512  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 2   | 66,512 | 2   | 55,795 | 2   | 45,077 | 2   | 34,359 | 2   | 23,667 | 2   | 12,950 | 2   | 2,308  | 2   | 2      | 2   | 2      | 2   | 2      |
| 1/4 | 66,289 | 1/4 | 55,571 | 1/4 | 44,854 | 1/4 | 34,136 | 1/4 | 23,444 | 1/4 | 12,727 | 1/4 | 2,104  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 66,066 | 1/2 | 55,348 | 1/2 | 44,630 | 1/2 | 33,913 | 1/2 | 23,221 | 1/2 | 12,504 | 1/2 | 1,900  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 65,842 | 3/4 | 55,125 | 3/4 | 44,407 | 3/4 | 33,689 | 3/4 | 22,998 | 3/4 | 12,280 | 3/4 | 1,732  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 3   | 65,619 | 3   | 54,901 | 3   | 44,184 | 3   | 33,466 | 3   | 22,774 | 3   | 12,057 | 3   | 1,565  | 3   | 3      | 3   | 3      | 3   | 3      |
| 1/4 | 65,396 | 1/4 | 54,678 | 1/4 | 43,960 | 1/4 | 33,243 | 1/4 | 22,551 | 1/4 | 11,834 | 1/4 | 1,397  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 65,173 | 1/2 | 54,455 | 1/2 | 43,737 | 1/2 | 33,020 | 1/2 | 22,328 | 1/2 | 11,611 | 1/2 | 1,230  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 64,949 | 3/4 | 54,232 | 3/4 | 43,514 | 3/4 | 32,797 | 3/4 | 22,105 | 3/4 | 11,387 | 3/4 | 1,100  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 4   | 64,726 | 4   | 54,008 | 4   | 43,291 | 4   | 32,574 | 4   | 21,881 | 4   | 11,164 | 4   | 970    | 4   | 4      | 4   | 4      | 4   | 4      |
| 1/4 | 64,503 | 1/4 | 53,785 | 1/4 | 43,067 | 1/4 | 32,352 | 1/4 | 21,658 | 1/4 | 10,941 | 1/4 | 839    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 64,279 | 1/2 | 53,562 | 1/2 | 42,844 | 1/2 | 32,129 | 1/2 | 21,435 | 1/2 | 10,717 | 1/2 | 709    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 64,056 | 3/4 | 53,338 | 3/4 | 42,621 | 3/4 | 31,907 | 3/4 | 21,211 | 3/4 | 10,494 | 3/4 | 616    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 5   | 63,833 | 5   | 53,115 | 5   | 42,397 | 5   | 31,684 | 5   | 20,988 | 5   | 10,271 | 5   | 523    | 5   | 5      | 5   | 5      | 5   | 5      |
| 1/4 | 63,610 | 1/4 | 52,892 | 1/4 | 42,174 | 1/4 | 31,462 | 1/4 | 20,765 | 1/4 | 10,048 | 1/4 | 430    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 63,386 | 1/2 | 52,669 | 1/2 | 41,951 | 1/2 | 31,239 | 1/2 | 20,542 | 1/2 | 9,824  | 1/2 | 337    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 63,163 | 3/4 | 52,445 | 3/4 | 41,728 | 3/4 | 31,016 | 3/4 | 20,318 | 3/4 | 9,601  | 3/4 | 281    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 6   | 62,940 | 6   | 52,222 | 6   | 41,504 | 6   | 30,794 | 6   | 20,095 | 6   | 9,378  | 6   | 225    | 6   | 6      | 6   | 6      | 6   | 6      |
| 1/4 | 62,716 | 1/4 | 51,999 | 1/4 | 41,281 | 1/4 | 30,571 | 1/4 | 19,872 | 1/4 | 9,155  | 1/4 | 170    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 62,493 | 1/2 | 51,775 | 1/2 | 41,058 | 1/2 | 30,349 | 1/2 | 19,648 | 1/2 | 8,931  | 1/2 | 114    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 62,270 | 3/4 | 51,552 | 3/4 | 40,834 | 3/4 | 30,126 | 3/4 | 19,425 | 3/4 | 8,708  | 3/4 | 95     | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 7   | 62,047 | 7   | 51,329 | 7   | 40,611 | 7   | 29,904 | 7   | 19,202 | 7   | 8,485  | 7   | 77     | 7   | 7      | 7   | 7      | 7   | 7      |
| 1/4 | 61,823 | 1/4 | 51,106 | 1/4 | 40,388 | 1/4 | 29,681 | 1/4 | 18,979 | 1/4 | 8,261  | 1/4 | 58     | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 61,600 | 1/2 | 50,882 | 1/2 | 40,165 | 1/2 | 29,458 | 1/2 | 18,755 | 1/2 | 8,038  | 1/2 | 39     | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 61,377 | 3/4 | 50,659 | 3/4 | 39,941 | 3/4 | 29,236 | 3/4 | 18,532 | 3/4 | 7,815  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 8   | 61,153 | 8   | 50,436 | 8   | 39,718 | 8   | 29,013 | 8   | 18,309 | 8   | 7,592  | 8   |        | 8   | 8      | 8   | 8      | 8   | 8      |
| 1/4 | 60,930 | 1/4 | 50,212 | 1/4 | 39,495 | 1/4 | 28,791 | 1/4 | 18,086 | 1/4 | 7,368  | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 60,707 | 1/2 | 49,989 | 1/2 | 39,271 | 1/2 | 28,568 | 1/2 | 17,862 | 1/2 | 7,145  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 60,484 | 3/4 | 49,766 | 3/4 | 39,048 | 3/4 | 28,346 | 3/4 | 17,639 | 3/4 | 6,922  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 9   | 60,260 | 9   | 49,543 | 9   | 38,825 | 9   | 28,123 | 9   | 17,416 | 9   | 6,699  | 9   |        | 9   | 9      | 9   | 9      | 9   | 9      |
| 1/4 | 60,037 | 1/4 | 49,319 | 1/4 | 38,602 | 1/4 | 27,900 | 1/4 | 17,192 | 1/4 | 6,476  | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 59,814 | 1/2 | 49,096 | 1/2 | 38,378 | 1/2 | 27,678 | 1/2 | 16,969 | 1/2 | 6,253  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 59,590 | 3/4 | 48,873 | 3/4 | 38,155 | 3/4 | 27,455 | 3/4 | 16,746 | 3/4 | 6,030  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 10  | 59,367 | 10  | 48,649 | 10  | 37,932 | 10  | 27,233 | 10  | 16,523 | 10  | 5,808  | 10  |        | 10  | 10     | 10  | 10     | 10  | 10     |
| 1/4 | 59,144 | 1/4 | 48,426 | 1/4 | 37,708 | 1/4 | 27,010 | 1/4 | 16,299 | 1/4 | 5,585  | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 58,921 | 1/2 | 48,203 | 1/2 | 37,485 | 1/2 | 26,788 | 1/2 | 16,076 | 1/2 | 5,362  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 58,697 | 3/4 | 47,980 | 3/4 | 37,262 | 3/4 | 26,565 | 3/4 | 15,853 | 3/4 | 5,140  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 11  | 58,474 | 11  | 47,756 | 11  | 37,039 | 11  | 26,343 | 11  | 15,630 | 11  | 4,918  | 11  |        | 11  | 11     | 11  | 11     | 11  | 11     |
| 1/4 | 58,251 | 1/4 | 47,533 | 1/4 | 36,815 | 1/4 | 26,120 | 1/4 | 15,406 | 1/4 | 4,696  | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 58,027 | 1/2 | 47,310 | 1/2 | 36,592 | 1/2 | 25,897 | 1/2 | 15,183 | 1/2 | 4,475  | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 57,804 | 3/4 | 47,086 | 3/4 | 36,369 | 3/4 | 25,674 | 3/4 | 14,960 | 3/4 | 4,254  | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/28/2012 CL  
CALCULATED: 08/28/2012 CL  
PRINTED: 08/28/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2012

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