



# BARGE "IB 1102"

## ULLAGE TRIM TABLE

|          | 1 FT.      |              | 2 FT.      |              | 3 FT.      |              | 4 FT.      |              | 5 FT.      |              | 6 FT.      |              |
|----------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
|          | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> |
| 1 CENTER | 00-0/8     | - 00-0/8     | 00-1/8     | - 00-1/8     | 00-1/8     | - 00-1/8     | 00-1/4     | - 00-1/4     | 00-1/4     | - 00-1/4     | 00-3/8     | - 00-3/8     |
| 2 CENTER | - 00-1/8   | 00-1/8       | - 00-3/8   | 00-3/8       | - 00-1/2   | 00-1/2       | - 00-5/8   | 00-5/8       | - 00-7/8   | 00-7/8       | - 01-0/8   | 01-0/8       |
| 3 CENTER | - 00-1/8   | 00-1/8       | - 00-3/8   | 00-3/8       | - 00-1/2   | 00-1/2       | - 00-5/8   | 00-5/8       | - 00-7/8   | 00-7/8       | - 01-0/8   | 01-0/8       |

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 2 CENTER IS 00 3/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 3/8"

LENGTH BETWEEN DRAFT MARKS: 163'-00"

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PRECISION MEASUREMENT  
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# BARGE "IB 1102"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02 3/4"

| IN  | 0 FT. | IN  | 1 FT.   | IN  | 2 FT.   | IN  | 3 FT.   | IN  | 4 FT.   | IN  | 5 FT.   | IN  | 6 FT.   | IN  | 7 FT.   | IN  | 8 FT.  | IN  | 9 FT.  |
|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|
| 0   |       | 0   |         | 0   | 157,521 | 0   | 146,858 | 0   | 136,196 | 0   | 125,534 | 0   | 113,859 | 0   | 101,393 | 0   | 88,928 | 0   | 76,463 |
| 1/4 |       | 1/4 |         | 1/4 | 157,299 | 1/4 | 146,636 | 1/4 | 135,974 | 1/4 | 125,311 | 1/4 | 113,599 | 1/4 | 101,134 | 1/4 | 88,669 | 1/4 | 76,203 |
| 1/2 |       | 1/2 |         | 1/2 | 157,077 | 1/2 | 146,414 | 1/2 | 135,752 | 1/2 | 125,089 | 1/2 | 113,339 | 1/2 | 100,874 | 1/2 | 88,409 | 1/2 | 75,943 |
| 3/4 |       | 3/4 | 166,660 | 3/4 | 156,854 | 3/4 | 146,192 | 3/4 | 135,530 | 3/4 | 124,867 | 3/4 | 113,080 | 3/4 | 100,614 | 3/4 | 88,149 | 3/4 | 75,684 |
| 1   |       | 1   | 166,571 | 1   | 156,632 | 1   | 145,970 | 1   | 135,307 | 1   | 124,645 | 1   | 112,820 | 1   | 100,355 | 1   | 87,890 | 1   | 75,424 |
| 1/4 |       | 1/4 | 166,481 | 1/4 | 156,410 | 1/4 | 145,748 | 1/4 | 135,085 | 1/4 | 124,423 | 1/4 | 112,560 | 1/4 | 100,095 | 1/4 | 87,630 | 1/4 | 75,164 |
| 1/2 |       | 1/2 | 166,392 | 1/2 | 156,188 | 1/2 | 145,526 | 1/2 | 134,863 | 1/2 | 124,201 | 1/2 | 112,301 | 1/2 | 99,835  | 1/2 | 87,370 | 1/2 | 74,904 |
| 3/4 |       | 3/4 | 166,302 | 3/4 | 155,966 | 3/4 | 145,304 | 3/4 | 134,641 | 3/4 | 123,979 | 3/4 | 112,041 | 3/4 | 99,576  | 3/4 | 87,110 | 3/4 | 74,645 |
| 2   |       | 2   | 166,147 | 2   | 155,744 | 2   | 145,081 | 2   | 134,419 | 2   | 123,756 | 2   | 111,781 | 2   | 99,316  | 2   | 86,851 | 2   | 74,385 |
| 1/4 |       | 1/4 | 165,992 | 1/4 | 155,522 | 1/4 | 144,859 | 1/4 | 134,197 | 1/4 | 123,534 | 1/4 | 111,522 | 1/4 | 99,056  | 1/4 | 86,591 | 1/4 | 74,125 |
| 1/2 |       | 1/2 | 165,837 | 1/2 | 155,300 | 1/2 | 144,637 | 1/2 | 133,975 | 1/2 | 123,312 | 1/2 | 111,262 | 1/2 | 98,797  | 1/2 | 86,331 | 1/2 | 73,866 |
| 3/4 |       | 3/4 | 165,681 | 3/4 | 155,077 | 3/4 | 144,415 | 3/4 | 133,753 | 3/4 | 123,090 | 3/4 | 111,002 | 3/4 | 98,537  | 3/4 | 86,072 | 3/4 | 73,606 |
| 3   |       | 3   | 165,473 | 3   | 154,855 | 3   | 144,193 | 3   | 133,530 | 3   | 122,868 | 3   | 110,742 | 3   | 98,277  | 3   | 85,812 | 3   | 73,346 |
| 1/4 |       | 1/4 | 165,264 | 1/4 | 154,633 | 1/4 | 143,971 | 1/4 | 133,308 | 1/4 | 122,646 | 1/4 | 110,483 | 1/4 | 98,018  | 1/4 | 85,552 | 1/4 | 73,087 |
| 1/2 |       | 1/2 | 165,055 | 1/2 | 154,411 | 1/2 | 143,749 | 1/2 | 133,086 | 1/2 | 122,424 | 1/2 | 110,223 | 1/2 | 97,758  | 1/2 | 85,292 | 1/2 | 72,827 |
| 3/4 |       | 3/4 | 164,846 | 3/4 | 154,189 | 3/4 | 143,526 | 3/4 | 132,864 | 3/4 | 122,202 | 3/4 | 109,963 | 3/4 | 97,498  | 3/4 | 85,033 | 3/4 | 72,567 |
| 4   |       | 4   | 164,625 | 4   | 153,967 | 4   | 143,304 | 4   | 132,642 | 4   | 121,980 | 4   | 109,704 | 4   | 97,239  | 4   | 84,773 | 4   | 72,307 |
| 1/4 |       | 1/4 | 164,404 | 1/4 | 153,745 | 1/4 | 143,082 | 1/4 | 132,420 | 1/4 | 121,758 | 1/4 | 109,444 | 1/4 | 96,979  | 1/4 | 84,513 | 1/4 | 72,048 |
| 1/2 |       | 1/2 | 164,183 | 1/2 | 153,522 | 1/2 | 142,860 | 1/2 | 132,198 | 1/2 | 121,536 | 1/2 | 109,184 | 1/2 | 96,719  | 1/2 | 84,254 | 1/2 | 71,788 |
| 3/4 |       | 3/4 | 163,962 | 3/4 | 153,300 | 3/4 | 142,638 | 3/4 | 131,975 | 3/4 | 121,314 | 3/4 | 108,924 | 3/4 | 96,460  | 3/4 | 83,994 | 3/4 | 71,528 |
| 5   |       | 5   | 163,740 | 5   | 153,078 | 5   | 142,416 | 5   | 131,753 | 5   | 121,073 | 5   | 108,665 | 5   | 96,200  | 5   | 83,734 | 5   | 71,269 |
| 1/4 |       | 1/4 | 163,518 | 1/4 | 152,856 | 1/4 | 142,194 | 1/4 | 131,531 | 1/4 | 120,833 | 1/4 | 108,405 | 1/4 | 95,940  | 1/4 | 83,475 | 1/4 | 71,010 |
| 1/2 |       | 1/2 | 163,296 | 1/2 | 152,634 | 1/2 | 141,971 | 1/2 | 131,309 | 1/2 | 120,592 | 1/2 | 108,145 | 1/2 | 95,680  | 1/2 | 83,215 | 1/2 | 70,750 |
| 3/4 |       | 3/4 | 163,074 | 3/4 | 152,412 | 3/4 | 141,749 | 3/4 | 131,087 | 3/4 | 120,351 | 3/4 | 107,886 | 3/4 | 95,421  | 3/4 | 82,955 | 3/4 | 70,491 |
| 6   |       | 6   | 162,852 | 6   | 152,190 | 6   | 141,527 | 6   | 130,865 | 6   | 120,092 | 6   | 107,626 | 6   | 95,161  | 6   | 82,695 | 6   | 70,232 |
| 1/4 |       | 1/4 | 162,630 | 1/4 | 151,968 | 1/4 | 141,305 | 1/4 | 130,643 | 1/4 | 119,832 | 1/4 | 107,366 | 1/4 | 94,901  | 1/4 | 82,436 | 1/4 | 69,972 |
| 1/2 |       | 1/2 | 162,408 | 1/2 | 151,745 | 1/2 | 141,083 | 1/2 | 130,421 | 1/2 | 119,572 | 1/2 | 107,107 | 1/2 | 94,642  | 1/2 | 82,176 | 1/2 | 69,713 |
| 3/4 |       | 3/4 | 162,186 | 3/4 | 151,523 | 3/4 | 140,861 | 3/4 | 130,198 | 3/4 | 119,313 | 3/4 | 106,847 | 3/4 | 94,382  | 3/4 | 81,916 | 3/4 | 69,454 |
| 7   |       | 7   | 161,964 | 7   | 151,301 | 7   | 140,639 | 7   | 129,976 | 7   | 119,053 | 7   | 106,587 | 7   | 94,122  | 7   | 81,657 | 7   | 69,195 |
| 1/4 |       | 1/4 | 161,741 | 1/4 | 151,079 | 1/4 | 140,417 | 1/4 | 129,754 | 1/4 | 118,793 | 1/4 | 106,327 | 1/4 | 93,863  | 1/4 | 81,397 | 1/4 | 68,936 |
| 1/2 |       | 1/2 | 161,519 | 1/2 | 150,857 | 1/2 | 140,194 | 1/2 | 129,532 | 1/2 | 118,533 | 1/2 | 106,068 | 1/2 | 93,603  | 1/2 | 81,137 | 1/2 | 68,677 |
| 3/4 |       | 3/4 | 161,297 | 3/4 | 150,635 | 3/4 | 139,972 | 3/4 | 129,310 | 3/4 | 118,274 | 3/4 | 105,808 | 3/4 | 93,343  | 3/4 | 80,878 | 3/4 | 68,418 |
| 8   |       | 8   | 161,075 | 8   | 150,413 | 8   | 139,750 | 8   | 129,088 | 8   | 118,014 | 8   | 105,548 | 8   | 93,084  | 8   | 80,618 | 8   | 68,159 |
| 1/4 |       | 1/4 | 160,853 | 1/4 | 150,190 | 1/4 | 139,528 | 1/4 | 128,866 | 1/4 | 117,754 | 1/4 | 105,289 | 1/4 | 92,824  | 1/4 | 80,358 | 1/4 | 67,900 |
| 1/2 |       | 1/2 | 160,631 | 1/2 | 149,968 | 1/2 | 139,306 | 1/2 | 128,643 | 1/2 | 117,495 | 1/2 | 105,029 | 1/2 | 92,564  | 1/2 | 80,098 | 1/2 | 67,641 |
| 3/4 |       | 3/4 | 160,409 | 3/4 | 149,746 | 3/4 | 139,084 | 3/4 | 128,421 | 3/4 | 117,235 | 3/4 | 104,769 | 3/4 | 92,304  | 3/4 | 79,839 | 3/4 | 67,381 |
| 9   |       | 9   | 160,186 | 9   | 149,524 | 9   | 138,862 | 9   | 128,199 | 9   | 116,975 | 9   | 104,510 | 9   | 92,045  | 9   | 79,579 | 9   | 67,122 |
| 1/4 |       | 1/4 | 159,964 | 1/4 | 149,302 | 1/4 | 138,639 | 1/4 | 127,977 | 1/4 | 116,716 | 1/4 | 104,250 | 1/4 | 91,785  | 1/4 | 79,319 | 1/4 | 66,863 |
| 1/2 |       | 1/2 | 159,742 | 1/2 | 149,080 | 1/2 | 138,417 | 1/2 | 127,755 | 1/2 | 116,456 | 1/2 | 103,990 | 1/2 | 91,525  | 1/2 | 79,060 | 1/2 | 66,604 |
| 3/4 |       | 3/4 | 159,520 | 3/4 | 148,858 | 3/4 | 138,195 | 3/4 | 127,533 | 3/4 | 116,196 | 3/4 | 103,730 | 3/4 | 91,266  | 3/4 | 78,800 | 3/4 | 66,345 |
| 10  |       | 10  | 159,298 | 10  | 148,636 | 10  | 137,973 | 10  | 127,311 | 10  | 115,936 | 10  | 103,471 | 10  | 91,006  | 10  | 78,540 | 10  | 66,086 |
| 1/4 |       | 1/4 | 159,076 | 1/4 | 148,413 | 1/4 | 137,751 | 1/4 | 127,089 | 1/4 | 115,677 | 1/4 | 103,211 | 1/4 | 90,746  | 1/4 | 78,281 | 1/4 | 65,827 |
| 1/2 |       | 1/2 | 158,854 | 1/2 | 148,191 | 1/2 | 137,529 | 1/2 | 126,866 | 1/2 | 115,417 | 1/2 | 102,951 | 1/2 | 90,487  | 1/2 | 78,021 | 1/2 | 65,568 |
| 3/4 |       | 3/4 | 158,632 | 3/4 | 147,969 | 3/4 | 137,307 | 3/4 | 126,644 | 3/4 | 115,157 | 3/4 | 102,692 | 3/4 | 90,227  | 3/4 | 77,761 | 3/4 | 65,309 |
| 11  |       | 11  | 158,409 | 11  | 147,747 | 11  | 137,085 | 11  | 126,422 | 11  | 114,898 | 11  | 102,432 | 11  | 89,967  | 11  | 77,501 | 11  | 65,050 |
| 1/4 |       | 1/4 | 158,187 | 1/4 | 147,525 | 1/4 | 136,862 | 1/4 | 126,200 | 1/4 | 114,638 | 1/4 | 102,172 | 1/4 | 89,707  | 1/4 | 77,242 | 1/4 | 64,790 |
| 1/2 |       | 1/2 | 157,965 | 1/2 | 147,303 | 1/2 | 136,640 | 1/2 | 125,978 | 1/2 | 114,378 | 1/2 | 101,913 | 1/2 | 89,448  | 1/2 | 76,982 | 1/2 | 64,531 |
| 3/4 |       | 3/4 | 157,743 | 3/4 | 147,081 | 3/4 | 136,418 | 3/4 | 125,756 | 3/4 | 114,119 | 3/4 | 101,653 | 3/4 | 89,188  | 3/4 | 76,722 | 3/4 | 64,272 |

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 TOP OF 2" DIAMETER "HERMETIC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 30'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
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# BARGE "IB 1102"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02 3/4"

| IN  | 10 FT. | IN  | 11 FT. | IN  | 12 FT. | IN  | 13 FT. | IN  | 14 FT. | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 64,013 | 0   | 51,560 | 0   | 39,119 | 0   | 26,889 | 0   | 14,423 | 0   | 2,003  | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 63,754 | 1/4 | 51,300 | 1/4 | 38,866 | 1/4 | 26,629 | 1/4 | 14,163 | 1/4 | 1,768  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 63,495 | 1/2 | 51,041 | 1/2 | 38,612 | 1/2 | 26,369 | 1/2 | 13,903 | 1/2 | 1,532  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 63,236 | 3/4 | 50,781 | 3/4 | 38,359 | 3/4 | 26,110 | 3/4 | 13,643 | 3/4 | 1,296  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 62,977 | 1   | 50,521 | 1   | 38,105 | 1   | 25,850 | 1   | 13,384 | 1   | 1,123  | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 62,718 | 1/4 | 50,262 | 1/4 | 37,852 | 1/4 | 25,590 | 1/4 | 13,124 | 1/4 | 950    | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 62,459 | 1/2 | 50,002 | 1/2 | 37,599 | 1/2 | 25,330 | 1/2 | 12,864 | 1/2 | 777    | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 62,199 | 3/4 | 49,743 | 3/4 | 37,345 | 3/4 | 25,071 | 3/4 | 12,605 | 3/4 | 603    | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 61,940 | 2   | 49,483 | 2   | 37,092 | 2   | 24,811 | 2   | 12,345 | 2   | 517    | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 61,681 | 1/4 | 49,224 | 1/4 | 36,839 | 1/4 | 24,551 | 1/4 | 12,085 | 1/4 | 430    | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 61,422 | 1/2 | 48,964 | 1/2 | 36,585 | 1/2 | 24,292 | 1/2 | 11,825 | 1/2 | 343    | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 61,163 | 3/4 | 48,704 | 3/4 | 36,332 | 3/4 | 24,032 | 3/4 | 11,566 | 3/4 | 256    | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 60,904 | 3   | 48,445 | 3   | 36,079 | 3   | 23,772 | 3   | 11,306 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 60,644 | 1/4 | 48,185 | 1/4 | 35,825 | 1/4 | 23,512 | 1/4 | 11,046 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 60,385 | 1/2 | 47,926 | 1/2 | 35,572 | 1/2 | 23,253 | 1/2 | 10,786 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 60,126 | 3/4 | 47,666 | 3/4 | 35,319 | 3/4 | 22,993 | 3/4 | 10,527 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 59,866 | 4   | 47,407 | 4   | 35,065 | 4   | 22,733 | 4   | 10,267 | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 59,607 | 1/4 | 47,147 | 1/4 | 34,812 | 1/4 | 22,474 | 1/4 | 10,007 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 59,347 | 1/2 | 46,887 | 1/2 | 34,559 | 1/2 | 22,214 | 1/2 | 9,747  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 59,087 | 3/4 | 46,628 | 3/4 | 34,305 | 3/4 | 21,954 | 3/4 | 9,487  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 58,828 | 5   | 46,368 | 5   | 34,052 | 5   | 21,694 | 5   | 9,227  | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 58,568 | 1/4 | 46,109 | 1/4 | 33,799 | 1/4 | 21,435 | 1/4 | 8,967  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 58,309 | 1/2 | 45,849 | 1/2 | 33,545 | 1/2 | 21,175 | 1/2 | 8,707  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 58,049 | 3/4 | 45,590 | 3/4 | 33,292 | 3/4 | 20,915 | 3/4 | 8,447  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 57,790 | 6   | 45,330 | 6   | 33,039 | 6   | 20,656 | 6   | 8,188  | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 57,530 | 1/4 | 45,070 | 1/4 | 32,785 | 1/4 | 20,396 | 1/4 | 7,928  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 57,270 | 1/2 | 44,811 | 1/2 | 32,532 | 1/2 | 20,136 | 1/2 | 7,668  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 57,011 | 3/4 | 44,551 | 3/4 | 32,279 | 3/4 | 19,876 | 3/4 | 7,408  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 56,751 | 7   | 44,292 | 7   | 32,025 | 7   | 19,617 | 7   | 7,148  | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 56,492 | 1/4 | 44,032 | 1/4 | 31,772 | 1/4 | 19,357 | 1/4 | 6,888  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 56,232 | 1/2 | 43,773 | 1/2 | 31,519 | 1/2 | 19,097 | 1/2 | 6,629  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 55,973 | 3/4 | 43,513 | 3/4 | 31,265 | 3/4 | 18,838 | 3/4 | 6,369  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 55,713 | 8   | 43,253 | 8   | 31,012 | 8   | 18,578 | 8   | 6,109  | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 55,453 | 1/4 | 42,994 | 1/4 | 30,759 | 1/4 | 18,318 | 1/4 | 5,850  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 55,194 | 1/2 | 42,734 | 1/2 | 30,506 | 1/2 | 18,059 | 1/2 | 5,590  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 54,934 | 3/4 | 42,475 | 3/4 | 30,252 | 3/4 | 17,799 | 3/4 | 5,331  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 54,675 | 9   | 42,215 | 9   | 29,996 | 9   | 17,539 | 9   | 5,072  | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 54,415 | 1/4 | 41,956 | 1/4 | 29,739 | 1/4 | 17,279 | 1/4 | 4,813  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 54,156 | 1/2 | 41,696 | 1/2 | 29,483 | 1/2 | 17,020 | 1/2 | 4,554  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 53,896 | 3/4 | 41,436 | 3/4 | 29,226 | 3/4 | 16,760 | 3/4 | 4,295  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 53,636 | 10  | 41,177 | 10  | 28,966 | 10  | 16,500 | 10  | 4,037  | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 53,377 | 1/4 | 40,917 | 1/4 | 28,707 | 1/4 | 16,241 | 1/4 | 3,779  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 53,117 | 1/2 | 40,658 | 1/2 | 28,447 | 1/2 | 15,981 | 1/2 | 3,521  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 52,858 | 3/4 | 40,398 | 3/4 | 28,187 | 3/4 | 15,721 | 3/4 | 3,263  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 52,598 | 11  | 40,142 | 11  | 27,928 | 11  | 15,461 | 11  | 3,007  | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 52,339 | 1/4 | 39,885 | 1/4 | 27,668 | 1/4 | 15,202 | 1/4 | 2,751  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 52,079 | 1/2 | 39,629 | 1/2 | 27,408 | 1/2 | 14,942 | 1/2 | 2,495  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 51,819 | 3/4 | 39,372 | 3/4 | 27,148 | 3/4 | 14,682 | 3/4 | 2,239  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

STRAPPED: 03/27/2018 CL  
CALCULATED: 03/28/2018 CL  
PRINTED: 03/29/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "IB 1102"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02 3/4"

| IN  | 0 FT. | IN  | 1 FT.   | IN  | 2 FT.   | IN  | 3 FT.   | IN  | 4 FT.   | IN  | 5 FT.   | IN  | 6 FT.   | IN  | 7 FT.  | IN  | 8 FT.  | IN  | 9 FT.  |
|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|-----|--------|
| 0   |       | 0   |         | 0   | 144,979 | 0   | 133,930 | 0   | 122,881 | 0   | 111,833 | 0   | 100,784 | 0   | 89,735 | 0   | 78,686 | 0   | 67,637 |
| 1/4 |       | 1/4 |         | 1/4 | 144,749 | 1/4 | 133,700 | 1/4 | 122,651 | 1/4 | 111,602 | 1/4 | 100,553 | 1/4 | 89,505 | 1/4 | 78,456 | 1/4 | 67,407 |
| 1/2 |       | 1/2 |         | 1/2 | 144,519 | 1/2 | 133,470 | 1/2 | 122,421 | 1/2 | 111,372 | 1/2 | 100,323 | 1/2 | 89,274 | 1/2 | 78,226 | 1/2 | 67,177 |
| 3/4 |       | 3/4 | 154,512 | 3/4 | 144,289 | 3/4 | 133,240 | 3/4 | 122,191 | 3/4 | 111,142 | 3/4 | 100,093 | 3/4 | 89,044 | 3/4 | 77,995 | 3/4 | 66,947 |
| 1   |       | 1   | 154,416 | 1   | 144,058 | 1   | 133,010 | 1   | 121,961 | 1   | 110,912 | 1   | 99,863  | 1   | 88,814 | 1   | 77,765 | 1   | 66,716 |
| 1/4 |       | 1/4 | 154,320 | 1/4 | 143,828 | 1/4 | 132,779 | 1/4 | 121,730 | 1/4 | 110,682 | 1/4 | 99,633  | 1/4 | 88,584 | 1/4 | 77,535 | 1/4 | 66,486 |
| 1/2 |       | 1/2 | 154,224 | 1/2 | 143,598 | 1/2 | 132,549 | 1/2 | 121,500 | 1/2 | 110,451 | 1/2 | 99,403  | 1/2 | 88,354 | 1/2 | 77,305 | 1/2 | 66,256 |
| 3/4 |       | 3/4 | 154,128 | 3/4 | 143,368 | 3/4 | 132,319 | 3/4 | 121,270 | 3/4 | 110,221 | 3/4 | 99,172  | 3/4 | 88,124 | 3/4 | 77,075 | 3/4 | 66,026 |
| 2   |       | 2   | 153,957 | 2   | 143,138 | 2   | 132,089 | 2   | 121,040 | 2   | 109,991 | 2   | 98,942  | 2   | 87,893 | 2   | 76,844 | 2   | 65,796 |
| 1/4 |       | 1/4 | 153,786 | 1/4 | 142,907 | 1/4 | 131,859 | 1/4 | 120,810 | 1/4 | 109,761 | 1/4 | 98,712  | 1/4 | 87,663 | 1/4 | 76,614 | 1/4 | 65,565 |
| 1/2 |       | 1/2 | 153,615 | 1/2 | 142,677 | 1/2 | 131,628 | 1/2 | 120,580 | 1/2 | 109,531 | 1/2 | 98,482  | 1/2 | 87,433 | 1/2 | 76,384 | 1/2 | 65,335 |
| 3/4 |       | 3/4 | 153,444 | 3/4 | 142,447 | 3/4 | 131,398 | 3/4 | 120,349 | 3/4 | 109,301 | 3/4 | 98,252  | 3/4 | 87,203 | 3/4 | 76,154 | 3/4 | 65,105 |
| 3   |       | 3   | 153,226 | 3   | 142,217 | 3   | 131,168 | 3   | 120,119 | 3   | 109,070 | 3   | 98,021  | 3   | 86,973 | 3   | 75,924 | 3   | 64,875 |
| 1/4 |       | 1/4 | 153,008 | 1/4 | 141,987 | 1/4 | 130,938 | 1/4 | 119,889 | 1/4 | 108,840 | 1/4 | 97,791  | 1/4 | 86,742 | 1/4 | 75,694 | 1/4 | 64,645 |
| 1/2 |       | 1/2 | 152,789 | 1/2 | 141,757 | 1/2 | 130,708 | 1/2 | 119,659 | 1/2 | 108,610 | 1/2 | 97,561  | 1/2 | 86,512 | 1/2 | 75,463 | 1/2 | 64,414 |
| 3/4 |       | 3/4 | 152,571 | 3/4 | 141,526 | 3/4 | 130,477 | 3/4 | 119,429 | 3/4 | 108,380 | 3/4 | 97,331  | 3/4 | 86,282 | 3/4 | 75,233 | 3/4 | 64,184 |
| 4   |       | 4   | 152,342 | 4   | 141,296 | 4   | 130,247 | 4   | 119,198 | 4   | 108,150 | 4   | 97,101  | 4   | 86,052 | 4   | 75,003 | 4   | 63,954 |
| 1/4 |       | 1/4 | 152,112 | 1/4 | 141,066 | 1/4 | 130,017 | 1/4 | 118,968 | 1/4 | 107,919 | 1/4 | 96,871  | 1/4 | 85,822 | 1/4 | 74,773 | 1/4 | 63,724 |
| 1/2 |       | 1/2 | 151,883 | 1/2 | 140,836 | 1/2 | 129,787 | 1/2 | 118,738 | 1/2 | 107,689 | 1/2 | 96,640  | 1/2 | 85,591 | 1/2 | 74,543 | 1/2 | 63,494 |
| 3/4 |       | 3/4 | 151,654 | 3/4 | 140,606 | 3/4 | 129,557 | 3/4 | 118,508 | 3/4 | 107,459 | 3/4 | 96,410  | 3/4 | 85,361 | 3/4 | 74,312 | 3/4 | 63,264 |
| 5   |       | 5   | 151,424 | 5   | 140,375 | 5   | 129,327 | 5   | 118,278 | 5   | 107,229 | 5   | 96,180  | 5   | 85,131 | 5   | 74,082 | 5   | 63,033 |
| 1/4 |       | 1/4 | 151,194 | 1/4 | 140,145 | 1/4 | 129,096 | 1/4 | 118,048 | 1/4 | 106,999 | 1/4 | 95,950  | 1/4 | 84,901 | 1/4 | 73,852 | 1/4 | 62,803 |
| 1/2 |       | 1/2 | 150,964 | 1/2 | 139,915 | 1/2 | 128,866 | 1/2 | 117,817 | 1/2 | 106,768 | 1/2 | 95,720  | 1/2 | 84,671 | 1/2 | 73,622 | 1/2 | 62,573 |
| 3/4 |       | 3/4 | 150,734 | 3/4 | 139,685 | 3/4 | 128,636 | 3/4 | 117,587 | 3/4 | 106,538 | 3/4 | 95,489  | 3/4 | 84,441 | 3/4 | 73,392 | 3/4 | 62,343 |
| 6   |       | 6   | 150,504 | 6   | 139,455 | 6   | 128,406 | 6   | 117,357 | 6   | 106,308 | 6   | 95,259  | 6   | 84,210 | 6   | 73,162 | 6   | 62,113 |
| 1/4 |       | 1/4 | 150,273 | 1/4 | 139,225 | 1/4 | 128,176 | 1/4 | 117,127 | 1/4 | 106,078 | 1/4 | 95,029  | 1/4 | 83,980 | 1/4 | 72,931 | 1/4 | 61,882 |
| 1/2 |       | 1/2 | 150,043 | 1/2 | 138,994 | 1/2 | 127,945 | 1/2 | 116,897 | 1/2 | 105,848 | 1/2 | 94,799  | 1/2 | 83,750 | 1/2 | 72,701 | 1/2 | 61,652 |
| 3/4 |       | 3/4 | 149,813 | 3/4 | 138,764 | 3/4 | 127,715 | 3/4 | 116,666 | 3/4 | 105,618 | 3/4 | 94,569  | 3/4 | 83,520 | 3/4 | 72,471 | 3/4 | 61,422 |
| 7   |       | 7   | 149,583 | 7   | 138,534 | 7   | 127,485 | 7   | 116,436 | 7   | 105,387 | 7   | 94,338  | 7   | 83,290 | 7   | 72,241 | 7   | 61,192 |
| 1/4 |       | 1/4 | 149,353 | 1/4 | 138,304 | 1/4 | 127,255 | 1/4 | 116,206 | 1/4 | 105,157 | 1/4 | 94,108  | 1/4 | 83,059 | 1/4 | 72,011 | 1/4 | 60,962 |
| 1/2 |       | 1/2 | 149,122 | 1/2 | 138,074 | 1/2 | 127,025 | 1/2 | 115,976 | 1/2 | 104,927 | 1/2 | 93,878  | 1/2 | 82,829 | 1/2 | 71,780 | 1/2 | 60,732 |
| 3/4 |       | 3/4 | 148,892 | 3/4 | 137,843 | 3/4 | 126,795 | 3/4 | 115,746 | 3/4 | 104,697 | 3/4 | 93,648  | 3/4 | 82,599 | 3/4 | 71,550 | 3/4 | 60,501 |
| 8   |       | 8   | 148,662 | 8   | 137,613 | 8   | 126,564 | 8   | 115,515 | 8   | 104,467 | 8   | 93,418  | 8   | 82,369 | 8   | 71,320 | 8   | 60,271 |
| 1/4 |       | 1/4 | 148,432 | 1/4 | 137,383 | 1/4 | 126,334 | 1/4 | 115,285 | 1/4 | 104,236 | 1/4 | 93,188  | 1/4 | 82,139 | 1/4 | 71,090 | 1/4 | 60,041 |
| 1/2 |       | 1/2 | 148,202 | 1/2 | 137,153 | 1/2 | 126,104 | 1/2 | 115,055 | 1/2 | 104,006 | 1/2 | 92,957  | 1/2 | 81,909 | 1/2 | 70,860 | 1/2 | 59,811 |
| 3/4 |       | 3/4 | 147,972 | 3/4 | 136,923 | 3/4 | 125,874 | 3/4 | 114,825 | 3/4 | 103,776 | 3/4 | 92,727  | 3/4 | 81,678 | 3/4 | 70,629 | 3/4 | 59,581 |
| 9   |       | 9   | 147,741 | 9   | 136,692 | 9   | 125,644 | 9   | 114,595 | 9   | 103,546 | 9   | 92,497  | 9   | 81,448 | 9   | 70,399 | 9   | 59,350 |
| 1/4 |       | 1/4 | 147,511 | 1/4 | 136,462 | 1/4 | 125,413 | 1/4 | 114,365 | 1/4 | 103,316 | 1/4 | 92,267  | 1/4 | 81,218 | 1/4 | 70,169 | 1/4 | 59,120 |
| 1/2 |       | 1/2 | 147,281 | 1/2 | 136,232 | 1/2 | 125,183 | 1/2 | 114,134 | 1/2 | 103,086 | 1/2 | 92,037  | 1/2 | 80,988 | 1/2 | 69,939 | 1/2 | 58,890 |
| 3/4 |       | 3/4 | 147,051 | 3/4 | 136,002 | 3/4 | 124,953 | 3/4 | 113,904 | 3/4 | 102,855 | 3/4 | 91,806  | 3/4 | 80,758 | 3/4 | 69,709 | 3/4 | 58,660 |
| 10  |       | 10  | 146,821 | 10  | 135,772 | 10  | 124,723 | 10  | 113,674 | 10  | 102,625 | 10  | 91,576  | 10  | 80,527 | 10  | 69,479 | 10  | 58,430 |
| 1/4 |       | 1/4 | 146,590 | 1/4 | 135,542 | 1/4 | 124,493 | 1/4 | 113,444 | 1/4 | 102,395 | 1/4 | 91,346  | 1/4 | 80,297 | 1/4 | 69,248 | 1/4 | 58,199 |
| 1/2 |       | 1/2 | 146,360 | 1/2 | 135,311 | 1/2 | 124,263 | 1/2 | 113,214 | 1/2 | 102,165 | 1/2 | 91,116  | 1/2 | 80,067 | 1/2 | 69,018 | 1/2 | 57,969 |
| 3/4 |       | 3/4 | 146,130 | 3/4 | 135,081 | 3/4 | 124,032 | 3/4 | 112,983 | 3/4 | 101,935 | 3/4 | 90,886  | 3/4 | 79,837 | 3/4 | 68,788 | 3/4 | 57,739 |
| 11  |       | 11  | 145,900 | 11  | 134,851 | 11  | 123,802 | 11  | 112,753 | 11  | 101,704 | 11  | 90,656  | 11  | 79,607 | 11  | 68,558 | 11  | 57,509 |
| 1/4 |       | 1/4 | 145,670 | 1/4 | 134,621 | 1/4 | 123,572 | 1/4 | 112,523 | 1/4 | 101,474 | 1/4 | 90,425  | 1/4 | 79,376 | 1/4 | 68,328 | 1/4 | 57,279 |
| 1/2 |       | 1/2 | 145,439 | 1/2 | 134,391 | 1/2 | 123,342 | 1/2 | 112,293 | 1/2 | 101,244 | 1/2 | 90,195  | 1/2 | 79,146 | 1/2 | 68,097 | 1/2 | 57,049 |
| 3/4 |       | 3/4 | 145,209 | 3/4 | 134,160 | 3/4 | 123,112 | 3/4 | 112,063 | 3/4 | 101,014 | 3/4 | 89,965  | 3/4 | 78,916 | 3/4 | 67,867 | 3/4 | 56,818 |

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 TOP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-03" FORWARD OF AFT BULKHEAD.

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



# BARGE "IB 1102"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-02 3/4"

| IN  | 10 FT. | IN  | 11 FT. | IN  | 12 FT. | IN  | 13 FT. | IN  | 14 FT. | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN | 18 FT. | IN  | 19 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|----|--------|-----|--------|
| 0   | 56,588 | 0   | 45,539 | 0   | 34,509 | 0   | 23,693 | 0   | 12,645 | 0   | 1,648  | 0   |        | 0   |        | 0  |        |     |        |
| 1/4 | 56,358 | 1/4 | 45,309 | 1/4 | 34,285 | 1/4 | 23,463 | 1/4 | 12,415 | 1/4 | 1,440  | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 | 1/4    |
| 1/2 | 56,128 | 1/2 | 45,079 | 1/2 | 34,061 | 1/2 | 23,233 | 1/2 | 12,185 | 1/2 | 1,231  | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 | 1/2    |
| 3/4 | 55,898 | 3/4 | 44,849 | 3/4 | 33,837 | 3/4 | 23,003 | 3/4 | 11,954 | 3/4 | 1,023  | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 | 3/4    |
| 1   | 55,667 | 1   | 44,619 | 1   | 33,613 | 1   | 22,773 | 1   | 11,724 | 1   | 870    | 1   |        | 1   | 1      |    |        | 1   | 1      |
| 1/4 | 55,437 | 1/4 | 44,388 | 1/4 | 33,390 | 1/4 | 22,542 | 1/4 | 11,494 | 1/4 | 716    | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 | 1/4    |
| 1/2 | 55,207 | 1/2 | 44,158 | 1/2 | 33,166 | 1/2 | 22,312 | 1/2 | 11,264 | 1/2 | 563    | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 | 1/2    |
| 3/4 | 54,977 | 3/4 | 43,928 | 3/4 | 32,942 | 3/4 | 22,082 | 3/4 | 11,034 | 3/4 | 410    | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 | 3/4    |
| 2   | 54,747 | 2   | 43,698 | 2   | 32,718 | 2   | 21,852 | 2   | 10,804 | 2   | 333    | 2   |        | 2   | 2      |    |        | 2   | 2      |
| 1/4 | 54,517 | 1/4 | 43,468 | 1/4 | 32,494 | 1/4 | 21,622 | 1/4 | 10,573 | 1/4 | 256    | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 | 1/4    |
| 1/2 | 54,286 | 1/2 | 43,237 | 1/2 | 32,270 | 1/2 | 21,392 | 1/2 | 10,343 | 1/2 | 180    | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 | 1/2    |
| 3/4 | 54,056 | 3/4 | 43,007 | 3/4 | 32,046 | 3/4 | 21,161 | 3/4 | 10,113 | 3/4 | 103    | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 | 3/4    |
| 3   | 53,826 | 3   | 42,777 | 3   | 31,822 | 3   | 20,931 | 3   | 9,883  | 3   |        | 3   |        | 3   | 3      |    |        | 3   | 3      |
| 1/4 | 53,596 | 1/4 | 42,547 | 1/4 | 31,598 | 1/4 | 20,701 | 1/4 | 9,653  | 1/4 |        | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 | 1/4    |
| 1/2 | 53,366 | 1/2 | 42,317 | 1/2 | 31,375 | 1/2 | 20,471 | 1/2 | 9,422  | 1/2 |        | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 | 1/2    |
| 3/4 | 53,135 | 3/4 | 42,087 | 3/4 | 31,151 | 3/4 | 20,241 | 3/4 | 9,192  | 3/4 |        | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 | 3/4    |
| 4   | 52,905 | 4   | 41,856 | 4   | 30,927 | 4   | 20,011 | 4   | 8,962  | 4   |        | 4   |        | 4   | 4      |    |        | 4   | 4      |
| 1/4 | 52,675 | 1/4 | 41,626 | 1/4 | 30,703 | 1/4 | 19,780 | 1/4 | 8,732  | 1/4 |        | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 | 1/4    |
| 1/2 | 52,445 | 1/2 | 41,396 | 1/2 | 30,479 | 1/2 | 19,550 | 1/2 | 8,502  | 1/2 |        | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 | 1/2    |
| 3/4 | 52,215 | 3/4 | 41,166 | 3/4 | 30,255 | 3/4 | 19,320 | 3/4 | 8,272  | 3/4 |        | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 | 3/4    |
| 5   | 51,985 | 5   | 40,936 | 5   | 30,031 | 5   | 19,090 | 5   | 8,041  | 5   |        | 5   |        | 5   | 5      |    |        | 5   | 5      |
| 1/4 | 51,754 | 1/4 | 40,705 | 1/4 | 29,807 | 1/4 | 18,860 | 1/4 | 7,811  | 1/4 |        | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 | 1/4    |
| 1/2 | 51,524 | 1/2 | 40,475 | 1/2 | 29,583 | 1/2 | 18,629 | 1/2 | 7,581  | 1/2 |        | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 | 1/2    |
| 3/4 | 51,294 | 3/4 | 40,245 | 3/4 | 29,360 | 3/4 | 18,399 | 3/4 | 7,351  | 3/4 |        | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 | 3/4    |
| 6   | 51,064 | 6   | 40,015 | 6   | 29,136 | 6   | 18,169 | 6   | 7,121  | 6   |        | 6   |        | 6   | 6      |    |        | 6   | 6      |
| 1/4 | 50,834 | 1/4 | 39,785 | 1/4 | 28,912 | 1/4 | 17,939 | 1/4 | 6,891  | 1/4 |        | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 | 1/4    |
| 1/2 | 50,603 | 1/2 | 39,555 | 1/2 | 28,688 | 1/2 | 17,709 | 1/2 | 6,660  | 1/2 |        | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 | 1/2    |
| 3/4 | 50,373 | 3/4 | 39,324 | 3/4 | 28,464 | 3/4 | 17,479 | 3/4 | 6,430  | 3/4 |        | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 | 3/4    |
| 7   | 50,143 | 7   | 39,094 | 7   | 28,240 | 7   | 17,248 | 7   | 6,200  | 7   |        | 7   |        | 7   | 7      |    |        | 7   | 7      |
| 1/4 | 49,913 | 1/4 | 38,864 | 1/4 | 28,016 | 1/4 | 17,018 | 1/4 | 5,970  | 1/4 |        | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 | 1/4    |
| 1/2 | 49,683 | 1/2 | 38,634 | 1/2 | 27,792 | 1/2 | 16,788 | 1/2 | 5,740  | 1/2 |        | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 | 1/2    |
| 3/4 | 49,452 | 3/4 | 38,404 | 3/4 | 27,569 | 3/4 | 16,558 | 3/4 | 5,510  | 3/4 |        | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 | 3/4    |
| 8   | 49,222 | 8   | 38,173 | 8   | 27,345 | 8   | 16,328 | 8   | 5,281  | 8   |        | 8   |        | 8   | 8      |    |        | 8   | 8      |
| 1/4 | 48,992 | 1/4 | 37,943 | 1/4 | 27,121 | 1/4 | 16,098 | 1/4 | 5,051  | 1/4 |        | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 | 1/4    |
| 1/2 | 48,762 | 1/2 | 37,713 | 1/2 | 26,897 | 1/2 | 15,867 | 1/2 | 4,821  | 1/2 |        | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 | 1/2    |
| 3/4 | 48,532 | 3/4 | 37,483 | 3/4 | 26,673 | 3/4 | 15,637 | 3/4 | 4,591  | 3/4 |        | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 | 3/4    |
| 9   | 48,302 | 9   | 37,253 | 9   | 26,446 | 9   | 15,407 | 9   | 4,362  | 9   |        | 9   |        | 9   | 9      |    |        | 9   | 9      |
| 1/4 | 48,071 | 1/4 | 37,023 | 1/4 | 26,219 | 1/4 | 15,177 | 1/4 | 4,133  | 1/4 |        | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 | 1/4    |
| 1/2 | 47,841 | 1/2 | 36,792 | 1/2 | 25,992 | 1/2 | 14,947 | 1/2 | 3,904  | 1/2 |        | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 | 1/2    |
| 3/4 | 47,611 | 3/4 | 36,562 | 3/4 | 25,765 | 3/4 | 14,716 | 3/4 | 3,675  | 3/4 |        | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 | 3/4    |
| 10  | 47,381 | 10  | 36,332 | 10  | 25,535 | 10  | 14,486 | 10  | 3,447  | 10  |        | 10  |        | 10  | 10     |    |        | 10  | 10     |
| 1/4 | 47,151 | 1/4 | 36,102 | 1/4 | 25,305 | 1/4 | 14,256 | 1/4 | 3,219  | 1/4 |        | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 | 1/4    |
| 1/2 | 46,920 | 1/2 | 35,872 | 1/2 | 25,074 | 1/2 | 14,026 | 1/2 | 2,991  | 1/2 |        | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 | 1/2    |
| 3/4 | 46,690 | 3/4 | 35,641 | 3/4 | 24,844 | 3/4 | 13,796 | 3/4 | 2,763  | 3/4 |        | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 | 3/4    |
| 11  | 46,460 | 11  | 35,414 | 11  | 24,614 | 11  | 13,566 | 11  | 2,536  | 11  |        | 11  |        | 11  | 11     |    |        | 11  | 11     |
| 1/4 | 46,230 | 1/4 | 35,187 | 1/4 | 24,384 | 1/4 | 13,335 | 1/4 | 2,310  | 1/4 |        | 1/4 |        | 1/4 | 1/4    |    |        | 1/4 | 1/4    |
| 1/2 | 46,000 | 1/2 | 34,960 | 1/2 | 24,154 | 1/2 | 13,105 | 1/2 | 2,083  | 1/2 |        | 1/2 |        | 1/2 | 1/2    |    |        | 1/2 | 1/2    |
| 3/4 | 45,770 | 3/4 | 34,733 | 3/4 | 23,924 | 3/4 | 12,875 | 3/4 | 1,857  | 3/4 |        | 3/4 |        | 3/4 | 3/4    |    |        | 3/4 | 3/4    |

STRAPPED: 03/27/2018 CL  
CALCULATED: 03/28/2018 CL  
PRINTED: 03/29/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "IB 1102"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-03"

| IN  | 0 FT. | IN  | 1 FT.   | IN  | 2 FT.   | IN  | 3 FT.   | IN  | 4 FT.   | IN  | 5 FT.   | IN  | 6 FT.   | IN  | 7 FT.  | IN  | 8 FT.  | IN  | 9 FT.  |
|-----|-------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|-----|--------|
| 0   |       | 0   |         | 0   | 144,162 | 0   | 133,211 | 0   | 122,259 | 0   | 111,308 | 0   | 100,356 | 0   | 89,404 | 0   | 78,453 | 0   | 67,501 |
| 1/4 |       | 1/4 |         | 1/4 | 143,934 | 1/4 | 132,982 | 1/4 | 122,031 | 1/4 | 111,079 | 1/4 | 100,128 | 1/4 | 89,176 | 1/4 | 78,225 | 1/4 | 67,273 |
| 1/2 |       | 1/2 |         | 1/2 | 143,706 | 1/2 | 132,754 | 1/2 | 121,803 | 1/2 | 110,851 | 1/2 | 99,900  | 1/2 | 88,948 | 1/2 | 77,997 | 1/2 | 67,045 |
| 3/4 |       | 3/4 |         | 3/4 | 143,478 | 3/4 | 132,526 | 3/4 | 121,575 | 3/4 | 110,623 | 3/4 | 99,672  | 3/4 | 88,720 | 3/4 | 77,768 | 3/4 | 66,817 |
| 1   |       | 0   | 153,383 | 1   | 143,250 | 1   | 132,298 | 1   | 121,346 | 1   | 110,395 | 1   | 99,443  | 1   | 88,492 | 1   | 77,540 | 1   | 66,589 |
| 1/4 |       | 1/4 | 153,288 | 1/4 | 143,021 | 1/4 | 132,070 | 1/4 | 121,118 | 1/4 | 110,167 | 1/4 | 99,215  | 1/4 | 88,264 | 1/4 | 77,312 | 1/4 | 66,361 |
| 1/2 |       | 1/2 | 153,193 | 1/2 | 142,793 | 1/2 | 131,842 | 1/2 | 120,890 | 1/2 | 109,939 | 1/2 | 98,987  | 1/2 | 88,035 | 1/2 | 77,084 | 1/2 | 66,132 |
| 3/4 |       | 3/4 | 153,098 | 3/4 | 142,565 | 3/4 | 131,614 | 3/4 | 120,662 | 3/4 | 109,710 | 3/4 | 98,759  | 3/4 | 87,807 | 3/4 | 76,856 | 3/4 | 65,904 |
| 2   |       | 2   | 153,003 | 2   | 142,337 | 2   | 131,385 | 2   | 120,434 | 2   | 109,482 | 2   | 98,531  | 2   | 87,579 | 2   | 76,628 | 2   | 65,676 |
| 1/4 |       | 1/4 | 152,833 | 1/4 | 142,109 | 1/4 | 131,157 | 1/4 | 120,206 | 1/4 | 109,254 | 1/4 | 98,303  | 1/4 | 87,351 | 1/4 | 76,399 | 1/4 | 65,448 |
| 1/2 |       | 1/2 | 152,664 | 1/2 | 141,881 | 1/2 | 130,929 | 1/2 | 119,978 | 1/2 | 109,026 | 1/2 | 98,074  | 1/2 | 87,123 | 1/2 | 76,171 | 1/2 | 65,220 |
| 3/4 |       | 3/4 | 152,494 | 3/4 | 141,652 | 3/4 | 130,701 | 3/4 | 119,749 | 3/4 | 108,798 | 3/4 | 97,846  | 3/4 | 86,895 | 3/4 | 75,943 | 3/4 | 64,992 |
| 3   |       | 3   | 152,325 | 3   | 141,424 | 3   | 130,473 | 3   | 119,521 | 3   | 108,570 | 3   | 97,618  | 3   | 86,667 | 3   | 75,715 | 3   | 64,763 |
| 1/4 |       | 1/4 | 152,108 | 1/4 | 141,196 | 1/4 | 130,245 | 1/4 | 119,293 | 1/4 | 108,341 | 1/4 | 97,390  | 1/4 | 86,438 | 1/4 | 75,487 | 1/4 | 64,535 |
| 1/2 |       | 1/2 | 151,892 | 1/2 | 140,968 | 1/2 | 130,016 | 1/2 | 119,065 | 1/2 | 108,113 | 1/2 | 97,162  | 1/2 | 86,210 | 1/2 | 75,259 | 1/2 | 64,307 |
| 3/4 |       | 3/4 | 151,675 | 3/4 | 140,740 | 3/4 | 129,788 | 3/4 | 118,837 | 3/4 | 107,885 | 3/4 | 96,934  | 3/4 | 85,982 | 3/4 | 75,031 | 3/4 | 64,079 |
| 4   |       | 4   | 151,459 | 4   | 140,512 | 4   | 129,560 | 4   | 118,609 | 4   | 107,657 | 4   | 96,705  | 4   | 85,754 | 4   | 74,802 | 4   | 63,851 |
| 1/4 |       | 1/4 | 151,232 | 1/4 | 140,284 | 1/4 | 129,332 | 1/4 | 118,380 | 1/4 | 107,429 | 1/4 | 96,477  | 1/4 | 85,526 | 1/4 | 74,574 | 1/4 | 63,623 |
| 1/2 |       | 1/2 | 151,004 | 1/2 | 140,055 | 1/2 | 129,104 | 1/2 | 118,152 | 1/2 | 107,201 | 1/2 | 96,249  | 1/2 | 85,298 | 1/2 | 74,346 | 1/2 | 63,394 |
| 3/4 |       | 3/4 | 150,777 | 3/4 | 139,827 | 3/4 | 128,876 | 3/4 | 117,924 | 3/4 | 106,973 | 3/4 | 96,021  | 3/4 | 85,069 | 3/4 | 74,118 | 3/4 | 63,166 |
| 5   |       | 5   | 150,550 | 5   | 139,599 | 5   | 128,648 | 5   | 117,696 | 5   | 106,744 | 5   | 95,793  | 5   | 84,841 | 5   | 73,890 | 5   | 62,938 |
| 1/4 |       | 1/4 | 150,322 | 1/4 | 139,371 | 1/4 | 128,419 | 1/4 | 117,468 | 1/4 | 106,516 | 1/4 | 95,565  | 1/4 | 84,613 | 1/4 | 73,662 | 1/4 | 62,710 |
| 1/2 |       | 1/2 | 150,094 | 1/2 | 139,143 | 1/2 | 128,191 | 1/2 | 117,240 | 1/2 | 106,288 | 1/2 | 95,337  | 1/2 | 84,385 | 1/2 | 73,433 | 1/2 | 62,482 |
| 3/4 |       | 3/4 | 149,866 | 3/4 | 138,915 | 3/4 | 127,963 | 3/4 | 117,011 | 3/4 | 106,060 | 3/4 | 95,108  | 3/4 | 84,157 | 3/4 | 73,205 | 3/4 | 62,254 |
| 6   |       | 6   | 149,638 | 6   | 138,686 | 6   | 127,735 | 6   | 116,783 | 6   | 105,832 | 6   | 94,880  | 6   | 83,929 | 6   | 72,977 | 6   | 62,026 |
| 1/4 |       | 1/4 | 149,410 | 1/4 | 138,458 | 1/4 | 127,507 | 1/4 | 116,555 | 1/4 | 105,604 | 1/4 | 94,652  | 1/4 | 83,700 | 1/4 | 72,749 | 1/4 | 61,797 |
| 1/2 |       | 1/2 | 149,182 | 1/2 | 138,230 | 1/2 | 127,279 | 1/2 | 116,327 | 1/2 | 105,375 | 1/2 | 94,424  | 1/2 | 83,472 | 1/2 | 72,521 | 1/2 | 61,569 |
| 3/4 |       | 3/4 | 148,953 | 3/4 | 138,002 | 3/4 | 127,050 | 3/4 | 116,099 | 3/4 | 105,147 | 3/4 | 94,196  | 3/4 | 83,244 | 3/4 | 72,293 | 3/4 | 61,341 |
| 7   |       | 7   | 148,725 | 7   | 137,774 | 7   | 126,822 | 7   | 115,871 | 7   | 104,919 | 7   | 93,968  | 7   | 83,016 | 7   | 72,064 | 7   | 61,113 |
| 1/4 |       | 1/4 | 148,497 | 1/4 | 137,546 | 1/4 | 126,594 | 1/4 | 115,643 | 1/4 | 104,691 | 1/4 | 93,739  | 1/4 | 82,788 | 1/4 | 71,836 | 1/4 | 60,885 |
| 1/2 |       | 1/2 | 148,269 | 1/2 | 137,317 | 1/2 | 126,366 | 1/2 | 115,414 | 1/2 | 104,463 | 1/2 | 93,511  | 1/2 | 82,560 | 1/2 | 71,608 | 1/2 | 60,657 |
| 3/4 |       | 3/4 | 148,041 | 3/4 | 137,089 | 3/4 | 126,138 | 3/4 | 115,186 | 3/4 | 104,235 | 3/4 | 93,283  | 3/4 | 82,332 | 3/4 | 71,380 | 3/4 | 60,428 |
| 8   |       | 8   | 147,813 | 8   | 136,861 | 8   | 125,910 | 8   | 114,958 | 8   | 104,007 | 8   | 93,055  | 8   | 82,103 | 8   | 71,152 | 8   | 60,200 |
| 1/4 |       | 1/4 | 147,585 | 1/4 | 136,633 | 1/4 | 125,681 | 1/4 | 114,730 | 1/4 | 103,778 | 1/4 | 92,827  | 1/4 | 81,875 | 1/4 | 70,924 | 1/4 | 59,972 |
| 1/2 |       | 1/2 | 147,356 | 1/2 | 136,405 | 1/2 | 125,453 | 1/2 | 114,502 | 1/2 | 103,550 | 1/2 | 92,599  | 1/2 | 81,647 | 1/2 | 70,696 | 1/2 | 59,744 |
| 3/4 |       | 3/4 | 147,128 | 3/4 | 136,177 | 3/4 | 125,225 | 3/4 | 114,274 | 3/4 | 103,322 | 3/4 | 92,370  | 3/4 | 81,419 | 3/4 | 70,467 | 3/4 | 59,516 |
| 9   |       | 9   | 146,900 | 9   | 135,949 | 9   | 124,997 | 9   | 114,045 | 9   | 103,094 | 9   | 92,142  | 9   | 81,191 | 9   | 70,239 | 9   | 59,288 |
| 1/4 |       | 1/4 | 146,672 | 1/4 | 135,720 | 1/4 | 124,769 | 1/4 | 113,817 | 1/4 | 102,866 | 1/4 | 91,914  | 1/4 | 80,963 | 1/4 | 70,011 | 1/4 | 59,059 |
| 1/2 |       | 1/2 | 146,444 | 1/2 | 135,492 | 1/2 | 124,541 | 1/2 | 113,589 | 1/2 | 102,638 | 1/2 | 91,686  | 1/2 | 80,734 | 1/2 | 69,783 | 1/2 | 58,831 |
| 3/4 |       | 3/4 | 146,216 | 3/4 | 135,264 | 3/4 | 124,313 | 3/4 | 113,361 | 3/4 | 102,409 | 3/4 | 91,458  | 3/4 | 80,506 | 3/4 | 69,555 | 3/4 | 58,603 |
| 10  |       | 10  | 145,987 | 10  | 135,036 | 10  | 124,084 | 10  | 113,133 | 10  | 102,181 | 10  | 91,230  | 10  | 80,278 | 10  | 69,327 | 10  | 58,375 |
| 1/4 |       | 1/4 | 145,759 | 1/4 | 134,808 | 1/4 | 123,856 | 1/4 | 112,905 | 1/4 | 101,953 | 1/4 | 91,002  | 1/4 | 80,050 | 1/4 | 69,098 | 1/4 | 58,147 |
| 1/2 |       | 1/2 | 145,531 | 1/2 | 134,580 | 1/2 | 123,628 | 1/2 | 112,676 | 1/2 | 101,725 | 1/2 | 90,773  | 1/2 | 79,822 | 1/2 | 68,870 | 1/2 | 57,919 |
| 3/4 |       | 3/4 | 145,303 | 3/4 | 134,351 | 3/4 | 123,400 | 3/4 | 112,448 | 3/4 | 101,497 | 3/4 | 90,545  | 3/4 | 79,594 | 3/4 | 68,642 | 3/4 | 57,691 |
| 11  |       | 11  | 145,075 | 11  | 134,123 | 11  | 123,172 | 11  | 112,220 | 11  | 101,269 | 11  | 90,317  | 11  | 79,366 | 11  | 68,414 | 11  | 57,462 |
| 1/4 |       | 1/4 | 144,847 | 1/4 | 133,895 | 1/4 | 122,944 | 1/4 | 111,992 | 1/4 | 101,040 | 1/4 | 90,089  | 1/4 | 79,137 | 1/4 | 68,186 | 1/4 | 57,234 |
| 1/2 |       | 1/2 | 144,619 | 1/2 | 133,667 | 1/2 | 122,715 | 1/2 | 111,764 | 1/2 | 100,812 | 1/2 | 89,861  | 1/2 | 78,909 | 1/2 | 67,958 | 1/2 | 57,006 |
| 3/4 |       | 3/4 | 144,390 | 3/4 | 133,439 | 3/4 | 122,487 | 3/4 | 111,536 | 3/4 | 100,584 | 3/4 | 89,633  | 3/4 | 78,681 | 3/4 | 67,729 | 3/4 | 56,778 |

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 TOP OF 2" DIAMETER "HERMETIC" VALVE.  
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 24'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "IB 1102"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-03"

| 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   | 56,550 | 0   | 45,598 | 0   | 34,647 | 0   | 23,713 | 0   | 12,762 | 0   | 1,840  | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 56,322 | 1/4 | 45,370 | 1/4 | 34,420 | 1/4 | 23,485 | 1/4 | 12,534 | 1/4 | 1,634  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 56,093 | 1/2 | 45,142 | 1/2 | 34,192 | 1/2 | 23,257 | 1/2 | 12,305 | 1/2 | 1,427  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 55,865 | 3/4 | 44,914 | 3/4 | 33,964 | 3/4 | 23,028 | 3/4 | 12,077 | 3/4 | 1,221  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 55,637 | 1   | 44,686 | 1   | 33,736 | 1   | 22,800 | 1   | 11,849 | 1   | 1,014  | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 55,409 | 1/4 | 44,457 | 1/4 | 33,509 | 1/4 | 22,572 | 1/4 | 11,621 | 1/4 | 862    | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 55,181 | 1/2 | 44,229 | 1/2 | 33,281 | 1/2 | 22,344 | 1/2 | 11,393 | 1/2 | 710    | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 54,953 | 3/4 | 44,001 | 3/4 | 33,053 | 3/4 | 22,116 | 3/4 | 11,165 | 3/4 | 558    | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 54,725 | 2   | 43,773 | 2   | 32,825 | 2   | 21,888 | 2   | 10,937 | 2   | 406    | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 54,496 | 1/4 | 43,545 | 1/4 | 32,598 | 1/4 | 21,660 | 1/4 | 10,708 | 1/4 | 330    | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 54,268 | 1/2 | 43,317 | 1/2 | 32,370 | 1/2 | 21,431 | 1/2 | 10,480 | 1/2 | 254    | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 54,040 | 3/4 | 43,088 | 3/4 | 32,142 | 3/4 | 21,203 | 3/4 | 10,252 | 3/4 | 178    | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 53,812 | 3   | 42,860 | 3   | 31,915 | 3   | 20,975 | 3   | 10,024 | 3   | 102    | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 53,584 | 1/4 | 42,632 | 1/4 | 31,687 | 1/4 | 20,747 | 1/4 | 9,796  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 53,356 | 1/2 | 42,404 | 1/2 | 31,459 | 1/2 | 20,519 | 1/2 | 9,568  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 53,127 | 3/4 | 42,176 | 3/4 | 31,232 | 3/4 | 20,291 | 3/4 | 9,340  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 52,899 | 4   | 41,948 | 4   | 31,004 | 4   | 20,062 | 4   | 9,111  | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 52,671 | 1/4 | 41,720 | 1/4 | 30,776 | 1/4 | 19,834 | 1/4 | 8,883  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 52,443 | 1/2 | 41,491 | 1/2 | 30,548 | 1/2 | 19,606 | 1/2 | 8,655  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 52,215 | 3/4 | 41,263 | 3/4 | 30,321 | 3/4 | 19,378 | 3/4 | 8,427  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 51,987 | 5   | 41,035 | 5   | 30,093 | 5   | 19,150 | 5   | 8,199  | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 51,758 | 1/4 | 40,807 | 1/4 | 29,865 | 1/4 | 18,922 | 1/4 | 7,971  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 51,530 | 1/2 | 40,579 | 1/2 | 29,638 | 1/2 | 18,694 | 1/2 | 7,742  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 51,302 | 3/4 | 40,351 | 3/4 | 29,410 | 3/4 | 18,465 | 3/4 | 7,514  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 51,074 | 6   | 40,122 | 6   | 29,182 | 6   | 18,237 | 6   | 7,286  | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 50,846 | 1/4 | 39,894 | 1/4 | 28,954 | 1/4 | 18,009 | 1/4 | 7,058  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 50,618 | 1/2 | 39,666 | 1/2 | 28,727 | 1/2 | 17,781 | 1/2 | 6,830  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 50,390 | 3/4 | 39,438 | 3/4 | 28,499 | 3/4 | 17,553 | 3/4 | 6,602  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 50,161 | 7   | 39,210 | 7   | 28,271 | 7   | 17,325 | 7   | 6,374  | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 49,933 | 1/4 | 38,982 | 1/4 | 28,044 | 1/4 | 17,097 | 1/4 | 6,146  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 49,705 | 1/2 | 38,753 | 1/2 | 27,816 | 1/2 | 16,868 | 1/2 | 5,918  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 49,477 | 3/4 | 38,525 | 3/4 | 27,588 | 3/4 | 16,640 | 3/4 | 5,690  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 49,249 | 8   | 38,297 | 8   | 27,361 | 8   | 16,412 | 8   | 5,462  | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 49,021 | 1/4 | 38,069 | 1/4 | 27,133 | 1/4 | 16,184 | 1/4 | 5,234  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 48,792 | 1/2 | 37,841 | 1/2 | 26,905 | 1/2 | 15,956 | 1/2 | 5,006  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 48,564 | 3/4 | 37,613 | 3/4 | 26,677 | 3/4 | 15,728 | 3/4 | 4,779  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 48,336 | 9   | 37,385 | 9   | 26,450 | 9   | 15,500 | 9   | 4,551  | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 48,108 | 1/4 | 37,156 | 1/4 | 26,222 | 1/4 | 15,271 | 1/4 | 4,324  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 47,880 | 1/2 | 36,928 | 1/2 | 25,994 | 1/2 | 15,043 | 1/2 | 4,097  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 47,652 | 3/4 | 36,700 | 3/4 | 25,766 | 3/4 | 14,815 | 3/4 | 3,870  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 47,423 | 10  | 36,472 | 10  | 25,538 | 10  | 14,587 | 10  | 3,643  | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 47,195 | 1/4 | 36,244 | 1/4 | 25,310 | 1/4 | 14,359 | 1/4 | 3,417  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 46,967 | 1/2 | 36,016 | 1/2 | 25,082 | 1/2 | 14,131 | 1/2 | 3,190  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 46,739 | 3/4 | 35,787 | 3/4 | 24,854 | 3/4 | 13,902 | 3/4 | 2,964  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 46,511 | 11  | 35,559 | 11  | 24,625 | 11  | 13,674 | 11  | 2,738  | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 46,283 | 1/4 | 35,331 | 1/4 | 24,397 | 1/4 | 13,446 | 1/4 | 2,514  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 46,055 | 1/2 | 35,103 | 1/2 | 24,169 | 1/2 | 13,218 | 1/2 | 2,289  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 45,826 | 3/4 | 34,875 | 3/4 | 23,941 | 3/4 | 12,990 | 3/4 | 2,065  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

STRAPPED: 03/27/2018 CL  
CALCULATED: 03/28/2018 CL  
PRINTED: 03/29/2018 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2018

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
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