



BARGE "IB 1102"

INNAGE TRIM TABLE

| | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | |
|----------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
| | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> |
| 1 CENTER | - 00-0/8 | 00-0/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/4 | 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 INNAGE GAUGE OF 4'-00" ON 2 CENTER, THE TRIM CORRECTED INNAGE IS 3'-11 5/8"

LENGTH BETWEEN DRAFT MARKS: 163'-00"

March 28, 2018

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

<http://www.pmacorp.net>



BARGE "IB 1102"

1 CENTER INNAGE 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 | 256 | 0 | 11,566 | 0 | 24,032 | 0 | 36,332 | 0 | 48,704 | 0 | 61,163 | 0 | 73,606 | 0 | 86,071 | 0 | 98,537 | 0 | 111,002 |
| 1/4 | 343 | 1/4 | 11,825 | 1/4 | 24,291 | 1/4 | 36,585 | 1/4 | 48,964 | 1/4 | 61,422 | 1/4 | 73,866 | 1/4 | 86,331 | 1/4 | 98,796 | 1/4 | 111,262 |
| 1/2 | 430 | 1/2 | 12,085 | 1/2 | 24,551 | 1/2 | 36,839 | 1/2 | 49,224 | 1/2 | 61,681 | 1/2 | 74,125 | 1/2 | 86,591 | 1/2 | 99,056 | 1/2 | 111,521 |
| 3/4 | 516 | 3/4 | 12,345 | 3/4 | 24,811 | 3/4 | 37,092 | 3/4 | 49,483 | 3/4 | 61,940 | 3/4 | 74,385 | 3/4 | 86,851 | 3/4 | 99,316 | 3/4 | 111,781 |
| 1 | 603 | 1 | 12,604 | 1 | 25,071 | 1 | 37,345 | 1 | 49,743 | 1 | 62,199 | 1 | 74,645 | 1 | 87,110 | 1 | 99,575 | 1 | 112,041 |
| 1/4 | 777 | 1/4 | 12,864 | 1/4 | 25,330 | 1/4 | 37,599 | 1/4 | 50,002 | 1/4 | 62,458 | 1/4 | 74,904 | 1/4 | 87,370 | 1/4 | 99,835 | 1/4 | 112,301 |
| 1/2 | 950 | 1/2 | 13,124 | 1/2 | 25,590 | 1/2 | 37,852 | 1/2 | 50,262 | 1/2 | 62,718 | 1/2 | 75,164 | 1/2 | 87,630 | 1/2 | 100,095 | 1/2 | 112,560 |
| 3/4 | 1,123 | 3/4 | 13,384 | 3/4 | 25,850 | 3/4 | 38,105 | 3/4 | 50,521 | 3/4 | 62,977 | 3/4 | 75,424 | 3/4 | 87,889 | 3/4 | 100,355 | 3/4 | 112,820 |
| 2 | 1,296 | 2 | 13,643 | 2 | 26,109 | 2 | 38,359 | 2 | 50,781 | 2 | 63,236 | 2 | 75,683 | 2 | 88,149 | 2 | 100,614 | 2 | 113,080 |
| 1/4 | 1,532 | 1/4 | 13,903 | 1/4 | 26,369 | 1/4 | 38,612 | 1/4 | 51,041 | 1/4 | 63,495 | 1/4 | 75,943 | 1/4 | 88,409 | 1/4 | 100,874 | 1/4 | 113,339 |
| 1/2 | 1,768 | 1/2 | 14,163 | 1/2 | 26,629 | 1/2 | 38,865 | 1/2 | 51,300 | 1/2 | 63,754 | 1/2 | 76,203 | 1/2 | 88,669 | 1/2 | 101,134 | 1/2 | 113,599 |
| 3/4 | 2,003 | 3/4 | 14,422 | 3/4 | 26,889 | 3/4 | 39,119 | 3/4 | 51,560 | 3/4 | 64,013 | 3/4 | 76,463 | 3/4 | 88,928 | 3/4 | 101,393 | 3/4 | 113,859 |
| 3 | 2,239 | 3 | 14,682 | 3 | 27,148 | 3 | 39,372 | 3 | 51,819 | 3 | 64,272 | 3 | 76,722 | 3 | 89,188 | 3 | 101,653 | 3 | 114,118 |
| 1/4 | 2,495 | 1/4 | 14,942 | 1/4 | 27,408 | 1/4 | 39,629 | 1/4 | 52,079 | 1/4 | 64,531 | 1/4 | 76,982 | 1/4 | 89,448 | 1/4 | 101,913 | 1/4 | 114,378 |
| 1/2 | 2,751 | 1/2 | 15,202 | 1/2 | 27,668 | 1/2 | 39,885 | 1/2 | 52,338 | 1/2 | 64,790 | 1/2 | 77,242 | 1/2 | 89,707 | 1/2 | 102,172 | 1/2 | 114,638 |
| 3/4 | 3,007 | 3/4 | 15,461 | 3/4 | 27,927 | 3/4 | 40,142 | 3/4 | 52,598 | 3/4 | 65,049 | 3/4 | 77,501 | 3/4 | 89,967 | 3/4 | 102,432 | 3/4 | 114,898 |
| 4 | 3,263 | 4 | 15,721 | 4 | 28,187 | 4 | 40,398 | 4 | 52,858 | 4 | 65,309 | 4 | 77,761 | 4 | 90,227 | 4 | 102,692 | 4 | 115,157 |
| 1/4 | 3,521 | 1/4 | 15,981 | 1/4 | 28,447 | 1/4 | 40,658 | 1/4 | 53,117 | 1/4 | 65,568 | 1/4 | 78,021 | 1/4 | 90,486 | 1/4 | 102,951 | 1/4 | 115,417 |
| 1/2 | 3,779 | 1/2 | 16,240 | 1/2 | 28,707 | 1/2 | 40,917 | 1/2 | 53,377 | 1/2 | 65,827 | 1/2 | 78,280 | 1/2 | 90,746 | 1/2 | 103,211 | 1/2 | 115,677 |
| 3/4 | 4,037 | 3/4 | 16,500 | 3/4 | 28,966 | 3/4 | 41,177 | 3/4 | 53,636 | 3/4 | 66,086 | 3/4 | 78,540 | 3/4 | 91,006 | 3/4 | 103,471 | 3/4 | 115,936 |
| 5 | 4,295 | 5 | 16,760 | 5 | 29,226 | 5 | 41,436 | 5 | 53,896 | 5 | 66,345 | 5 | 78,800 | 5 | 91,266 | 5 | 103,730 | 5 | 116,196 |
| 1/4 | 4,554 | 1/4 | 17,020 | 1/4 | 29,482 | 1/4 | 41,696 | 1/4 | 54,155 | 1/4 | 66,604 | 1/4 | 79,060 | 1/4 | 91,525 | 1/4 | 103,990 | 1/4 | 116,456 |
| 1/2 | 4,813 | 1/2 | 17,279 | 1/2 | 29,739 | 1/2 | 41,955 | 1/2 | 54,415 | 1/2 | 66,863 | 1/2 | 79,319 | 1/2 | 91,785 | 1/2 | 104,250 | 1/2 | 116,715 |
| 3/4 | 5,072 | 3/4 | 17,539 | 3/4 | 29,996 | 3/4 | 42,215 | 3/4 | 54,675 | 3/4 | 67,122 | 3/4 | 79,579 | 3/4 | 92,045 | 3/4 | 104,509 | 3/4 | 116,975 |
| 6 | 5,331 | 6 | 17,799 | 6 | 30,252 | 6 | 42,475 | 6 | 54,934 | 6 | 67,381 | 6 | 79,839 | 6 | 92,304 | 6 | 104,769 | 6 | 117,235 |
| 1/4 | 5,590 | 1/4 | 18,058 | 1/4 | 30,505 | 1/4 | 42,734 | 1/4 | 55,194 | 1/4 | 67,640 | 1/4 | 80,098 | 1/4 | 92,564 | 1/4 | 105,029 | 1/4 | 117,495 |
| 1/2 | 5,850 | 1/2 | 18,318 | 1/2 | 30,759 | 1/2 | 42,994 | 1/2 | 55,453 | 1/2 | 67,900 | 1/2 | 80,358 | 1/2 | 92,824 | 1/2 | 105,289 | 1/2 | 117,754 |
| 3/4 | 6,109 | 3/4 | 18,578 | 3/4 | 31,012 | 3/4 | 43,253 | 3/4 | 55,713 | 3/4 | 68,159 | 3/4 | 80,618 | 3/4 | 93,083 | 3/4 | 105,548 | 3/4 | 118,014 |
| 7 | 6,369 | 7 | 18,838 | 7 | 31,265 | 7 | 43,513 | 7 | 55,972 | 7 | 68,418 | 7 | 80,877 | 7 | 93,343 | 7 | 105,808 | 7 | 118,274 |
| 1/4 | 6,629 | 1/4 | 19,097 | 1/4 | 31,519 | 1/4 | 43,772 | 1/4 | 56,232 | 1/4 | 68,677 | 1/4 | 81,137 | 1/4 | 93,603 | 1/4 | 106,068 | 1/4 | 118,533 |
| 1/2 | 6,888 | 1/2 | 19,357 | 1/2 | 31,772 | 1/2 | 44,032 | 1/2 | 56,492 | 1/2 | 68,936 | 1/2 | 81,397 | 1/2 | 93,863 | 1/2 | 106,327 | 1/2 | 118,793 |
| 3/4 | 7,148 | 3/4 | 19,617 | 3/4 | 32,025 | 3/4 | 44,292 | 3/4 | 56,751 | 3/4 | 69,195 | 3/4 | 81,657 | 3/4 | 94,122 | 3/4 | 106,587 | 3/4 | 119,053 |
| 8 | 7,408 | 8 | 19,876 | 8 | 32,279 | 8 | 44,551 | 8 | 57,011 | 8 | 69,454 | 8 | 81,916 | 8 | 94,382 | 8 | 106,847 | 8 | 119,312 |
| 1/4 | 7,668 | 1/4 | 20,136 | 1/4 | 32,532 | 1/4 | 44,811 | 1/4 | 57,270 | 1/4 | 69,713 | 1/4 | 82,176 | 1/4 | 94,642 | 1/4 | 107,106 | 1/4 | 119,572 |
| 1/2 | 7,928 | 1/2 | 20,396 | 1/2 | 32,785 | 1/2 | 45,070 | 1/2 | 57,530 | 1/2 | 69,972 | 1/2 | 82,436 | 1/2 | 94,901 | 1/2 | 107,366 | 1/2 | 119,832 |
| 3/4 | 8,187 | 3/4 | 20,656 | 3/4 | 33,039 | 3/4 | 45,330 | 3/4 | 57,789 | 3/4 | 70,231 | 3/4 | 82,695 | 3/4 | 95,161 | 3/4 | 107,626 | 3/4 | 120,092 |
| 9 | 8,447 | 9 | 20,915 | 9 | 33,292 | 9 | 45,589 | 9 | 58,049 | 9 | 70,491 | 9 | 82,955 | 9 | 95,421 | 9 | 107,886 | 9 | 120,351 |
| 1/4 | 8,707 | 1/4 | 21,175 | 1/4 | 33,545 | 1/4 | 45,849 | 1/4 | 58,309 | 1/4 | 70,750 | 1/4 | 83,215 | 1/4 | 95,680 | 1/4 | 108,145 | 1/4 | 120,592 |
| 1/2 | 8,967 | 1/2 | 21,435 | 1/2 | 33,799 | 1/2 | 46,109 | 1/2 | 58,568 | 1/2 | 71,009 | 1/2 | 83,474 | 1/2 | 95,940 | 1/2 | 108,405 | 1/2 | 120,833 |
| 3/4 | 9,227 | 3/4 | 21,694 | 3/4 | 34,052 | 3/4 | 46,368 | 3/4 | 58,828 | 3/4 | 71,269 | 3/4 | 83,734 | 3/4 | 96,200 | 3/4 | 108,665 | 3/4 | 121,073 |
| 10 | 9,487 | 10 | 21,954 | 10 | 34,305 | 10 | 46,628 | 10 | 59,087 | 10 | 71,528 | 10 | 83,994 | 10 | 96,459 | 10 | 108,924 | 10 | 121,314 |
| 1/4 | 9,747 | 1/4 | 22,214 | 1/4 | 34,559 | 1/4 | 46,887 | 1/4 | 59,347 | 1/4 | 71,788 | 1/4 | 84,254 | 1/4 | 96,719 | 1/4 | 109,184 | 1/4 | 121,536 |
| 1/2 | 10,007 | 1/2 | 22,473 | 1/2 | 34,812 | 1/2 | 47,147 | 1/2 | 59,606 | 1/2 | 72,048 | 1/2 | 84,513 | 1/2 | 96,979 | 1/2 | 109,444 | 1/2 | 121,758 |
| 3/4 | 10,267 | 3/4 | 22,733 | 3/4 | 35,065 | 3/4 | 47,407 | 3/4 | 59,866 | 3/4 | 72,307 | 3/4 | 84,773 | 3/4 | 97,238 | 3/4 | 109,703 | 3/4 | 121,980 |
| 11 | 10,527 | 11 | 22,993 | 11 | 35,319 | 11 | 47,666 | 11 | 60,126 | 11 | 72,567 | 11 | 85,033 | 11 | 97,498 | 11 | 109,963 | 11 | 122,201 |
| 1/4 | 10,786 | 1/4 | 23,253 | 1/4 | 35,572 | 1/4 | 47,926 | 1/4 | 60,385 | 1/4 | 72,827 | 1/4 | 85,292 | 1/4 | 97,758 | 1/4 | 110,223 | 1/4 | 122,424 |
| 1/2 | 11,046 | 1/2 | 23,512 | 1/2 | 35,825 | 1/2 | 48,185 | 1/2 | 60,644 | 1/2 | 73,086 | 1/2 | 85,552 | 1/2 | 98,017 | 1/2 | 110,483 | 1/2 | 122,646 |
| 3/4 | 11,306 | 3/4 | 23,772 | 3/4 | 36,079 | 3/4 | 48,445 | 3/4 | 60,904 | 3/4 | 73,346 | 3/4 | 85,812 | 3/4 | 98,277 | 3/4 | 110,742 | 3/4 | 122,868 |

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 TOP OF 2" DIAMETER "HERMETIC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 30'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "IB 1102"

1 CENTER INNAGE 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 | 123,090 | 0 | 133,752 | 0 | 144,415 | 0 | 155,077 | 0 | 165,681 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 123,312 | 1/4 | 133,975 | 1/4 | 144,637 | 1/4 | 155,299 | 1/4 | 165,837 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 123,534 | 1/2 | 134,197 | 1/2 | 144,859 | 1/2 | 155,522 | 1/2 | 165,992 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 123,756 | 3/4 | 134,419 | 3/4 | 145,081 | 3/4 | 155,744 | 3/4 | 166,147 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 1 | 123,979 | 1 | 134,641 | 1 | 145,303 | 1 | 155,966 | 1 | 166,302 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 124,201 | 1/4 | 134,863 | 1/4 | 145,526 | 1/4 | 156,188 | 1/4 | 166,392 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 124,423 | 1/2 | 135,085 | 1/2 | 145,748 | 1/2 | 156,410 | 1/2 | 166,481 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 124,645 | 3/4 | 135,307 | 3/4 | 145,970 | 3/4 | 156,632 | 3/4 | 166,571 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 2 | 124,867 | 2 | 135,529 | 2 | 146,192 | 2 | 156,854 | 2 | 166,660 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 125,089 | 1/4 | 135,752 | 1/4 | 146,414 | 1/4 | 157,077 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 125,311 | 1/2 | 135,974 | 1/2 | 146,636 | 1/2 | 157,299 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 125,533 | 3/4 | 136,196 | 3/4 | 146,858 | 3/4 | 157,521 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 3 | 125,756 | 3 | 136,418 | 3 | 147,080 | 3 | 157,743 | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 125,978 | 1/4 | 136,640 | 1/4 | 147,303 | 1/4 | 157,965 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 126,200 | 1/2 | 136,862 | 1/2 | 147,525 | 1/2 | 158,187 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 126,422 | 3/4 | 137,084 | 3/4 | 147,747 | 3/4 | 158,409 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 4 | 126,644 | 4 | 137,307 | 4 | 147,969 | 4 | 158,631 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 126,866 | 1/4 | 137,529 | 1/4 | 148,191 | 1/4 | 158,854 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 127,088 | 1/2 | 137,751 | 1/2 | 148,413 | 1/2 | 159,076 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 127,311 | 3/4 | 137,973 | 3/4 | 148,635 | 3/4 | 159,298 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 5 | 127,533 | 5 | 138,195 | 5 | 148,858 | 5 | 159,520 | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 127,755 | 1/4 | 138,417 | 1/4 | 149,080 | 1/4 | 159,742 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 127,977 | 1/2 | 138,639 | 1/2 | 149,302 | 1/2 | 159,964 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 128,199 | 3/4 | 138,862 | 3/4 | 149,524 | 3/4 | 160,186 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 6 | 128,421 | 6 | 139,084 | 6 | 149,746 | 6 | 160,409 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 128,643 | 1/4 | 139,306 | 1/4 | 149,968 | 1/4 | 160,631 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 128,865 | 1/2 | 139,528 | 1/2 | 150,190 | 1/2 | 160,853 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 129,088 | 3/4 | 139,750 | 3/4 | 150,412 | 3/4 | 161,075 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 7 | 129,310 | 7 | 139,972 | 7 | 150,635 | 7 | 161,297 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 129,532 | 1/4 | 140,194 | 1/4 | 150,857 | 1/4 | 161,519 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 129,754 | 1/2 | 140,416 | 1/2 | 151,079 | 1/2 | 161,741 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 129,976 | 3/4 | 140,639 | 3/4 | 151,301 | 3/4 | 161,963 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 8 | 130,198 | 8 | 140,861 | 8 | 151,523 | 8 | 162,186 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 130,420 | 1/4 | 141,083 | 1/4 | 151,745 | 1/4 | 162,408 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 130,643 | 1/2 | 141,305 | 1/2 | 151,967 | 1/2 | 162,630 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 130,865 | 3/4 | 141,527 | 3/4 | 152,190 | 3/4 | 162,852 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 9 | 131,087 | 9 | 141,749 | 9 | 152,412 | 9 | 163,074 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 131,309 | 1/4 | 141,971 | 1/4 | 152,634 | 1/4 | 163,296 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 131,531 | 1/2 | 142,194 | 1/2 | 152,856 | 1/2 | 163,518 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 131,753 | 3/4 | 142,416 | 3/4 | 153,078 | 3/4 | 163,740 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 10 | 131,975 | 10 | 142,638 | 10 | 153,300 | 10 | 163,962 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 132,197 | 1/4 | 142,860 | 1/4 | 153,522 | 1/4 | 164,183 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 132,420 | 1/2 | 143,082 | 1/2 | 153,744 | 1/2 | 164,404 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 132,642 | 3/4 | 143,304 | 3/4 | 153,967 | 3/4 | 164,625 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 11 | 132,864 | 11 | 143,526 | 11 | 154,189 | 11 | 164,846 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 133,086 | 1/4 | 143,748 | 1/4 | 154,411 | 1/4 | 165,055 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 133,308 | 1/2 | 143,971 | 1/2 | 154,633 | 1/2 | 165,264 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 133,530 | 3/4 | 144,193 | 3/4 | 154,855 | 3/4 | 165,472 | 3/4 | | 3/4 | | 3/4 | 3/4 | 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"

2 CENTER INNAGE 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 | 103 | 0 | 10,113 | 0 | 21,162 | 0 | 32,046 | 0 | 43,007 | 0 | 54,056 | 0 | 65,105 | 0 | 76,154 | 0 | 87,203 | 0 | 98,252 |
| 1/4 | 180 | 1/4 | 10,343 | 1/4 | 21,392 | 1/4 | 32,270 | 1/4 | 43,238 | 1/4 | 54,286 | 1/4 | 65,335 | 1/4 | 76,384 | 1/4 | 87,433 | 1/4 | 98,482 |
| 1/2 | 256 | 1/2 | 10,573 | 1/2 | 21,622 | 1/2 | 32,494 | 1/2 | 43,468 | 1/2 | 54,517 | 1/2 | 65,566 | 1/2 | 76,614 | 1/2 | 87,663 | 1/2 | 98,712 |
| 3/4 | 333 | 3/4 | 10,804 | 3/4 | 21,852 | 3/4 | 32,718 | 3/4 | 43,698 | 3/4 | 54,747 | 3/4 | 65,796 | 3/4 | 76,845 | 3/4 | 87,893 | 3/4 | 98,942 |
| 1 | 410 | 1 | 11,034 | 1 | 22,082 | 1 | 32,942 | 1 | 43,928 | 1 | 54,977 | 1 | 66,026 | 1 | 77,075 | 1 | 88,124 | 1 | 99,172 |
| 1/4 | 563 | 1/4 | 11,264 | 1/4 | 22,312 | 1/4 | 33,166 | 1/4 | 44,158 | 1/4 | 55,207 | 1/4 | 66,256 | 1/4 | 77,305 | 1/4 | 88,354 | 1/4 | 99,403 |
| 1/2 | 716 | 1/2 | 11,494 | 1/2 | 22,543 | 1/2 | 33,390 | 1/2 | 44,389 | 1/2 | 55,437 | 1/2 | 66,486 | 1/2 | 77,535 | 1/2 | 88,584 | 1/2 | 99,633 |
| 3/4 | 870 | 3/4 | 11,724 | 3/4 | 22,773 | 3/4 | 33,614 | 3/4 | 44,619 | 3/4 | 55,668 | 3/4 | 66,716 | 3/4 | 77,765 | 3/4 | 88,814 | 3/4 | 99,863 |
| 2 | 1,023 | 2 | 11,954 | 2 | 23,003 | 2 | 33,837 | 2 | 44,849 | 2 | 55,898 | 2 | 66,947 | 2 | 77,995 | 2 | 89,044 | 2 | 100,093 |
| 1/4 | 1,231 | 1/4 | 12,185 | 1/4 | 23,233 | 1/4 | 34,061 | 1/4 | 45,079 | 1/4 | 56,128 | 1/4 | 67,177 | 1/4 | 78,226 | 1/4 | 89,275 | 1/4 | 100,323 |
| 1/2 | 1,440 | 1/2 | 12,415 | 1/2 | 23,463 | 1/2 | 34,285 | 1/2 | 45,309 | 1/2 | 56,358 | 1/2 | 67,407 | 1/2 | 78,456 | 1/2 | 89,505 | 1/2 | 100,554 |
| 3/4 | 1,648 | 3/4 | 12,645 | 3/4 | 23,693 | 3/4 | 34,509 | 3/4 | 45,539 | 3/4 | 56,588 | 3/4 | 67,637 | 3/4 | 78,686 | 3/4 | 89,735 | 3/4 | 100,784 |
| 3 | 1,857 | 3 | 12,875 | 3 | 23,924 | 3 | 34,733 | 3 | 45,770 | 3 | 56,819 | 3 | 67,867 | 3 | 78,916 | 3 | 89,965 | 3 | 101,014 |
| 1/4 | 2,083 | 1/4 | 13,105 | 1/4 | 24,154 | 1/4 | 34,960 | 1/4 | 46,000 | 1/4 | 57,049 | 1/4 | 68,098 | 1/4 | 79,146 | 1/4 | 90,195 | 1/4 | 101,244 |
| 1/2 | 2,310 | 1/2 | 13,336 | 1/2 | 24,384 | 1/2 | 35,187 | 1/2 | 46,230 | 1/2 | 57,279 | 1/2 | 68,328 | 1/2 | 79,377 | 1/2 | 90,425 | 1/2 | 101,474 |
| 3/4 | 2,536 | 3/4 | 13,566 | 3/4 | 24,614 | 3/4 | 35,414 | 3/4 | 46,460 | 3/4 | 57,509 | 3/4 | 68,558 | 3/4 | 79,607 | 3/4 | 90,656 | 3/4 | 101,705 |
| 4 | 2,763 | 4 | 13,796 | 4 | 24,844 | 4 | 35,642 | 4 | 46,690 | 4 | 57,739 | 4 | 68,788 | 4 | 79,837 | 4 | 90,886 | 4 | 101,935 |
| 1/4 | 2,991 | 1/4 | 14,026 | 1/4 | 25,075 | 1/4 | 35,872 | 1/4 | 46,921 | 1/4 | 57,969 | 1/4 | 69,018 | 1/4 | 80,067 | 1/4 | 91,116 | 1/4 | 102,165 |
| 1/2 | 3,219 | 1/2 | 14,256 | 1/2 | 25,305 | 1/2 | 36,102 | 1/2 | 47,151 | 1/2 | 58,200 | 1/2 | 69,248 | 1/2 | 80,297 | 1/2 | 91,346 | 1/2 | 102,395 |
| 3/4 | 3,447 | 3/4 | 14,486 | 3/4 | 25,535 | 3/4 | 36,332 | 3/4 | 47,381 | 3/4 | 58,430 | 3/4 | 69,479 | 3/4 | 80,528 | 3/4 | 91,576 | 3/4 | 102,625 |
| 5 | 3,675 | 5 | 14,717 | 5 | 25,765 | 5 | 36,562 | 5 | 47,611 | 5 | 58,660 | 5 | 69,709 | 5 | 80,758 | 5 | 91,807 | 5 | 102,855 |
| 1/4 | 3,904 | 1/4 | 14,947 | 1/4 | 25,992 | 1/4 | 36,792 | 1/4 | 47,841 | 1/4 | 58,890 | 1/4 | 69,939 | 1/4 | 80,988 | 1/4 | 92,037 | 1/4 | 103,086 |
| 1/2 | 4,133 | 1/2 | 15,177 | 1/2 | 26,219 | 1/2 | 37,023 | 1/2 | 48,071 | 1/2 | 59,120 | 1/2 | 70,169 | 1/2 | 81,218 | 1/2 | 92,267 | 1/2 | 103,316 |
| 3/4 | 4,362 | 3/4 | 15,407 | 3/4 | 26,446 | 3/4 | 37,253 | 3/4 | 48,302 | 3/4 | 59,351 | 3/4 | 70,399 | 3/4 | 81,448 | 3/4 | 92,497 | 3/4 | 103,546 |
| 6 | 4,592 | 6 | 15,637 | 6 | 26,673 | 6 | 37,483 | 6 | 48,532 | 6 | 59,581 | 6 | 70,630 | 6 | 81,678 | 6 | 92,727 | 6 | 103,776 |
| 1/4 | 4,821 | 1/4 | 15,867 | 1/4 | 26,897 | 1/4 | 37,713 | 1/4 | 48,762 | 1/4 | 59,811 | 1/4 | 70,860 | 1/4 | 81,909 | 1/4 | 92,958 | 1/4 | 104,006 |
| 1/2 | 5,051 | 1/2 | 16,098 | 1/2 | 27,121 | 1/2 | 37,943 | 1/2 | 48,992 | 1/2 | 60,041 | 1/2 | 71,090 | 1/2 | 82,139 | 1/2 | 93,188 | 1/2 | 104,237 |
| 3/4 | 5,281 | 3/4 | 16,328 | 3/4 | 27,345 | 3/4 | 38,174 | 3/4 | 49,222 | 3/4 | 60,271 | 3/4 | 71,320 | 3/4 | 82,369 | 3/4 | 93,418 | 3/4 | 104,467 |
| 7 | 5,510 | 7 | 16,558 | 7 | 27,569 | 7 | 38,404 | 7 | 49,453 | 7 | 60,501 | 7 | 71,550 | 7 | 82,599 | 7 | 93,648 | 7 | 104,697 |
| 1/4 | 5,740 | 1/4 | 16,788 | 1/4 | 27,793 | 1/4 | 38,634 | 1/4 | 49,683 | 1/4 | 60,732 | 1/4 | 71,781 | 1/4 | 82,829 | 1/4 | 93,878 | 1/4 | 104,927 |
| 1/2 | 5,970 | 1/2 | 17,018 | 1/2 | 28,016 | 1/2 | 38,864 | 1/2 | 49,913 | 1/2 | 60,962 | 1/2 | 72,011 | 1/2 | 83,060 | 1/2 | 94,108 | 1/2 | 105,157 |
| 3/4 | 6,200 | 3/4 | 17,249 | 3/4 | 28,240 | 3/4 | 39,094 | 3/4 | 50,143 | 3/4 | 61,192 | 3/4 | 72,241 | 3/4 | 83,290 | 3/4 | 94,339 | 3/4 | 105,387 |
| 8 | 6,430 | 8 | 17,479 | 8 | 28,464 | 8 | 39,324 | 8 | 50,373 | 8 | 61,422 | 8 | 72,471 | 8 | 83,520 | 8 | 94,569 | 8 | 105,618 |
| 1/4 | 6,661 | 1/4 | 17,709 | 1/4 | 28,688 | 1/4 | 39,555 | 1/4 | 50,604 | 1/4 | 61,652 | 1/4 | 72,701 | 1/4 | 83,750 | 1/4 | 94,799 | 1/4 | 105,848 |
| 1/2 | 6,891 | 1/2 | 17,939 | 1/2 | 28,912 | 1/2 | 39,785 | 1/2 | 50,834 | 1/2 | 61,883 | 1/2 | 72,931 | 1/2 | 83,980 | 1/2 | 95,029 | 1/2 | 106,078 |
| 3/4 | 7,121 | 3/4 | 18,169 | 3/4 | 29,136 | 3/4 | 40,015 | 3/4 | 51,064 | 3/4 | 62,113 | 3/4 | 73,162 | 3/4 | 84,210 | 3/4 | 95,259 | 3/4 | 106,308 |
| 9 | 7,351 | 9 | 18,399 | 9 | 29,360 | 9 | 40,245 | 9 | 51,294 | 9 | 62,343 | 9 | 73,392 | 9 | 84,441 | 9 | 95,490 | 9 | 106,538 |
| 1/4 | 7,581 | 1/4 | 18,630 | 1/4 | 29,584 | 1/4 | 40,475 | 1/4 | 51,524 | 1/4 | 62,573 | 1/4 | 73,622 | 1/4 | 84,671 | 1/4 | 95,720 | 1/4 | 106,769 |
| 1/2 | 7,811 | 1/2 | 18,860 | 1/2 | 29,807 | 1/2 | 40,706 | 1/2 | 51,754 | 1/2 | 62,803 | 1/2 | 73,852 | 1/2 | 84,901 | 1/2 | 95,950 | 1/2 | 106,999 |
| 3/4 | 8,042 | 3/4 | 19,090 | 3/4 | 30,031 | 3/4 | 40,936 | 3/4 | 51,985 | 3/4 | 63,033 | 3/4 | 74,082 | 3/4 | 85,131 | 3/4 | 96,180 | 3/4 | 107,229 |
| 10 | 8,272 | 10 | 19,320 | 10 | 30,255 | 10 | 41,166 | 10 | 52,215 | 10 | 63,264 | 10 | 74,313 | 10 | 85,361 | 10 | 96,410 | 10 | 107,459 |
| 1/4 | 8,502 | 1/4 | 19,550 | 1/4 | 30,479 | 1/4 | 41,396 | 1/4 | 52,445 | 1/4 | 63,494 | 1/4 | 74,543 | 1/4 | 85,592 | 1/4 | 96,640 | 1/4 | 107,689 |
| 1/2 | 8,732 | 1/2 | 19,780 | 1/2 | 30,703 | 1/2 | 41,626 | 1/2 | 52,675 | 1/2 | 63,724 | 1/2 | 74,773 | 1/2 | 85,822 | 1/2 | 96,871 | 1/2 | 107,920 |
| 3/4 | 8,962 | 3/4 | 20,011 | 3/4 | 30,927 | 3/4 | 41,856 | 3/4 | 52,905 | 3/4 | 63,954 | 3/4 | 75,003 | 3/4 | 86,052 | 3/4 | 97,101 | 3/4 | 108,150 |
| 11 | 9,192 | 11 | 20,241 | 11 | 31,151 | 11 | 42,087 | 11 | 53,136 | 11 | 64,184 | 11 | 75,233 | 11 | 86,282 | 11 | 97,331 | 11 | 108,380 |
| 1/4 | 9,423 | 1/4 | 20,471 | 1/4 | 31,375 | 1/4 | 42,317 | 1/4 | 53,366 | 1/4 | 64,415 | 1/4 | 75,463 | 1/4 | 86,512 | 1/4 | 97,561 | 1/4 | 108,610 |
| 1/2 | 9,653 | 1/2 | 20,701 | 1/2 | 31,599 | 1/2 | 42,547 | 1/2 | 53,596 | 1/2 | 64,645 | 1/2 | 75,694 | 1/2 | 86,743 | 1/2 | 97,791 | 1/2 | 108,840 |
| 3/4 | 9,883 | 3/4 | 20,931 | 3/4 | 31,822 | 3/4 | 42,777 | 3/4 | 53,826 | 3/4 | 64,875 | 3/4 | 75,924 | 3/4 | 86,973 | 3/4 | 98,022 | 3/4 | 109,070 |

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 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 INNAGE 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 | 109,301 | 0 | 120,349 | 0 | 131,398 | 0 | 142,447 | 0 | 153,444 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 109,531 | 1/4 | 120,580 | 1/4 | 131,629 | 1/4 | 142,677 | 1/4 | 153,615 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 109,761 | 1/2 | 120,810 | 1/2 | 131,859 | 1/2 | 142,908 | 1/2 | 153,786 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 109,991 | 3/4 | 121,040 | 3/4 | 132,089 | 3/4 | 143,138 | 3/4 | 153,957 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 1 | 110,221 | 1 | 121,270 | 1 | 132,319 | 1 | 143,368 | 1 | 154,128 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 110,452 | 1/4 | 121,500 | 1/4 | 132,549 | 1/4 | 143,598 | 1/4 | 154,224 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 110,682 | 1/2 | 121,731 | 1/2 | 132,779 | 1/2 | 143,828 | 1/2 | 154,320 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 110,912 | 3/4 | 121,961 | 3/4 | 133,010 | 3/4 | 144,059 | 3/4 | 154,416 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 2 | 111,142 | 2 | 122,191 | 2 | 133,240 | 2 | 144,289 | 2 | 154,512 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 111,372 | 1/4 | 122,421 | 1/4 | 133,470 | 1/4 | 144,519 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 111,602 | 1/2 | 122,651 | 1/2 | 133,700 | 1/2 | 144,749 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 111,833 | 3/4 | 122,882 | 3/4 | 133,930 | 3/4 | 144,979 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 3 | 112,063 | 3 | 123,112 | 3 | 134,161 | 3 | 145,209 | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 112,293 | 1/4 | 123,342 | 1/4 | 134,391 | 1/4 | 145,440 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 112,523 | 1/2 | 123,572 | 1/2 | 134,621 | 1/2 | 145,670 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 112,753 | 3/4 | 123,802 | 3/4 | 134,851 | 3/4 | 145,900 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 4 | 112,984 | 4 | 124,032 | 4 | 135,081 | 4 | 146,130 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 113,214 | 1/4 | 124,263 | 1/4 | 135,311 | 1/4 | 146,360 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 113,444 | 1/2 | 124,493 | 1/2 | 135,542 | 1/2 | 146,591 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 113,674 | 3/4 | 124,723 | 3/4 | 135,772 | 3/4 | 146,821 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 5 | 113,904 | 5 | 124,953 | 5 | 136,002 | 5 | 147,051 | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 114,134 | 1/4 | 125,183 | 1/4 | 136,232 | 1/4 | 147,281 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 114,365 | 1/2 | 125,414 | 1/2 | 136,462 | 1/2 | 147,511 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 114,595 | 3/4 | 125,644 | 3/4 | 136,693 | 3/4 | 147,741 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 6 | 114,825 | 6 | 125,874 | 6 | 136,923 | 6 | 147,972 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 115,055 | 1/4 | 126,104 | 1/4 | 137,153 | 1/4 | 148,202 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 115,285 | 1/2 | 126,334 | 1/2 | 137,383 | 1/2 | 148,432 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 115,516 | 3/4 | 126,564 | 3/4 | 137,613 | 3/4 | 148,662 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 7 | 115,746 | 7 | 126,795 | 7 | 137,844 | 7 | 148,892 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 115,976 | 1/4 | 127,025 | 1/4 | 138,074 | 1/4 | 149,123 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 116,206 | 1/2 | 127,255 | 1/2 | 138,304 | 1/2 | 149,353 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 116,436 | 3/4 | 127,485 | 3/4 | 138,534 | 3/4 | 149,583 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 8 | 116,667 | 8 | 127,715 | 8 | 138,764 | 8 | 149,813 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 116,897 | 1/4 | 127,946 | 1/4 | 138,994 | 1/4 | 150,043 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 117,127 | 1/2 | 128,176 | 1/2 | 139,225 | 1/2 | 150,273 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 117,357 | 3/4 | 128,406 | 3/4 | 139,455 | 3/4 | 150,504 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 9 | 117,587 | 9 | 128,636 | 9 | 139,685 | 9 | 150,734 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 117,817 | 1/4 | 128,866 | 1/4 | 139,915 | 1/4 | 150,964 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 118,048 | 1/2 | 129,096 | 1/2 | 140,145 | 1/2 | 151,194 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 118,278 | 3/4 | 129,327 | 3/4 | 140,376 | 3/4 | 151,424 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 10 | 118,508 | 10 | 129,557 | 10 | 140,606 | 10 | 151,654 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 118,738 | 1/4 | 129,787 | 1/4 | 140,836 | 1/4 | 151,883 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 118,968 | 1/2 | 130,017 | 1/2 | 141,066 | 1/2 | 152,112 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 119,199 | 3/4 | 130,247 | 3/4 | 141,296 | 3/4 | 152,342 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 11 | 119,429 | 11 | 130,478 | 11 | 141,526 | 11 | 152,571 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 119,659 | 1/4 | 130,708 | 1/4 | 141,757 | 1/4 | 152,789 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 119,889 | 1/2 | 130,938 | 1/2 | 141,987 | 1/2 | 153,008 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 120,119 | 3/4 | 131,168 | 3/4 | 142,217 | 3/4 | 153,226 | 3/4 | | 3/4 | | 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 INNAGE 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 | 102 | 0 | 10,024 | 0 | 20,975 | 0 | 31,915 | 0 | 42,861 | 0 | 53,812 | 0 | 64,764 | 0 | 75,715 | 0 | 86,667 | 0 | 97,618 |
| 1/4 | 178 | 1/4 | 10,252 | 1/4 | 21,204 | 1/4 | 32,143 | 1/4 | 43,089 | 1/4 | 54,040 | 1/4 | 64,992 | 1/4 | 75,943 | 1/4 | 86,895 | 1/4 | 97,847 |
| 1/2 | 254 | 1/2 | 10,481 | 1/2 | 21,432 | 1/2 | 32,370 | 1/2 | 43,317 | 1/2 | 54,268 | 1/2 | 65,220 | 1/2 | 76,172 | 1/2 | 87,123 | 1/2 | 98,075 |
| 3/4 | 330 | 3/4 | 10,709 | 3/4 | 21,660 | 3/4 | 32,598 | 3/4 | 43,545 | 3/4 | 54,497 | 3/4 | 65,448 | 3/4 | 76,400 | 3/4 | 87,351 | 3/4 | 98,303 |
| 1 | 406 | 1 | 10,937 | 1 | 21,888 | 1 | 32,826 | 1 | 43,773 | 1 | 54,725 | 1 | 65,676 | 1 | 76,628 | 1 | 87,579 | 1 | 98,531 |
| 1/4 | 558 | 1/4 | 11,165 | 1/4 | 22,116 | 1/4 | 33,053 | 1/4 | 44,001 | 1/4 | 54,953 | 1/4 | 65,905 | 1/4 | 76,856 | 1/4 | 87,808 | 1/4 | 98,759 |
| 1/2 | 710 | 1/2 | 11,393 | 1/2 | 22,344 | 1/2 | 33,281 | 1/2 | 44,230 | 1/2 | 55,181 | 1/2 | 66,133 | 1/2 | 77,084 | 1/2 | 88,036 | 1/2 | 98,987 |
| 3/4 | 862 | 3/4 | 11,621 | 3/4 | 22,572 | 3/4 | 33,509 | 3/4 | 44,458 | 3/4 | 55,409 | 3/4 | 66,361 | 3/4 | 77,312 | 3/4 | 88,264 | 3/4 | 99,215 |
| 2 | 1,014 | 2 | 11,849 | 2 | 22,801 | 2 | 33,737 | 2 | 44,686 | 2 | 55,637 | 2 | 66,589 | 2 | 77,541 | 2 | 88,492 | 2 | 99,444 |
| 1/4 | 1,221 | 1/4 | 12,078 | 1/4 | 23,029 | 1/4 | 33,964 | 1/4 | 44,914 | 1/4 | 55,866 | 1/4 | 66,817 | 1/4 | 77,769 | 1/4 | 88,720 | 1/4 | 99,672 |
| 1/2 | 1,427 | 1/2 | 12,306 | 1/2 | 23,257 | 1/2 | 34,192 | 1/2 | 45,142 | 1/2 | 56,094 | 1/2 | 67,045 | 1/2 | 77,997 | 1/2 | 88,948 | 1/2 | 99,900 |
| 3/4 | 1,634 | 3/4 | 12,534 | 3/4 | 23,485 | 3/4 | 34,420 | 3/4 | 45,370 | 3/4 | 56,322 | 3/4 | 67,273 | 3/4 | 78,225 | 3/4 | 89,177 | 3/4 | 100,128 |
| 3 | 1,841 | 3 | 12,762 | 3 | 23,713 | 3 | 34,648 | 3 | 45,599 | 3 | 56,550 | 3 | 67,502 | 3 | 78,453 | 3 | 89,405 | 3 | 100,356 |
| 1/4 | 2,065 | 1/4 | 12,990 | 1/4 | 23,941 | 1/4 | 34,876 | 1/4 | 45,827 | 1/4 | 56,778 | 1/4 | 67,730 | 1/4 | 78,681 | 1/4 | 89,633 | 1/4 | 100,584 |
| 1/2 | 2,290 | 1/2 | 13,218 | 1/2 | 24,169 | 1/2 | 35,104 | 1/2 | 46,055 | 1/2 | 57,006 | 1/2 | 67,958 | 1/2 | 78,909 | 1/2 | 89,861 | 1/2 | 100,813 |
| 3/4 | 2,514 | 3/4 | 13,446 | 3/4 | 24,398 | 3/4 | 35,332 | 3/4 | 46,283 | 3/4 | 57,235 | 3/4 | 68,186 | 3/4 | 79,138 | 3/4 | 90,089 | 3/4 | 101,041 |
| 4 | 2,739 | 4 | 13,675 | 4 | 24,626 | 4 | 35,560 | 4 | 46,511 | 4 | 57,463 | 4 | 68,414 | 4 | 79,366 | 4 | 90,317 | 4 | 101,269 |
| 1/4 | 2,965 | 1/4 | 13,903 | 1/4 | 24,854 | 1/4 | 35,788 | 1/4 | 46,739 | 1/4 | 57,691 | 1/4 | 68,642 | 1/4 | 79,594 | 1/4 | 90,546 | 1/4 | 101,497 |
| 1/2 | 3,191 | 1/2 | 14,131 | 1/2 | 25,082 | 1/2 | 36,016 | 1/2 | 46,967 | 1/2 | 57,919 | 1/2 | 68,871 | 1/2 | 79,822 | 1/2 | 90,774 | 1/2 | 101,725 |
| 3/4 | 3,417 | 3/4 | 14,359 | 3/4 | 25,310 | 3/4 | 36,244 | 3/4 | 47,196 | 3/4 | 58,147 | 3/4 | 69,099 | 3/4 | 80,050 | 3/4 | 91,002 | 3/4 | 101,953 |
| 5 | 3,643 | 5 | 14,587 | 5 | 25,538 | 5 | 36,472 | 5 | 47,424 | 5 | 58,375 | 5 | 69,327 | 5 | 80,278 | 5 | 91,230 | 5 | 102,182 |
| 1/4 | 3,870 | 1/4 | 14,815 | 1/4 | 25,766 | 1/4 | 36,700 | 1/4 | 47,652 | 1/4 | 58,603 | 1/4 | 69,555 | 1/4 | 80,507 | 1/4 | 91,458 | 1/4 | 102,410 |
| 1/2 | 4,097 | 1/2 | 15,044 | 1/2 | 25,994 | 1/2 | 36,929 | 1/2 | 47,880 | 1/2 | 58,832 | 1/2 | 69,783 | 1/2 | 80,735 | 1/2 | 91,686 | 1/2 | 102,638 |
| 3/4 | 4,324 | 3/4 | 15,272 | 3/4 | 26,222 | 3/4 | 37,157 | 3/4 | 48,108 | 3/4 | 59,060 | 3/4 | 70,011 | 3/4 | 80,963 | 3/4 | 91,914 | 3/4 | 102,866 |
| 6 | 4,551 | 6 | 15,500 | 6 | 26,450 | 6 | 37,385 | 6 | 48,336 | 6 | 59,288 | 6 | 70,240 | 6 | 81,191 | 6 | 92,143 | 6 | 103,094 |
| 1/4 | 4,779 | 1/4 | 15,728 | 1/4 | 26,678 | 1/4 | 37,613 | 1/4 | 48,565 | 1/4 | 59,516 | 1/4 | 70,468 | 1/4 | 81,419 | 1/4 | 92,371 | 1/4 | 103,322 |
| 1/2 | 5,007 | 1/2 | 15,956 | 1/2 | 26,905 | 1/2 | 37,841 | 1/2 | 48,793 | 1/2 | 59,744 | 1/2 | 70,696 | 1/2 | 81,647 | 1/2 | 92,599 | 1/2 | 103,550 |
| 3/4 | 5,234 | 3/4 | 16,184 | 3/4 | 27,133 | 3/4 | 38,069 | 3/4 | 49,021 | 3/4 | 59,972 | 3/4 | 70,924 | 3/4 | 81,876 | 3/4 | 92,827 | 3/4 | 103,779 |
| 7 | 5,462 | 7 | 16,412 | 7 | 27,361 | 7 | 38,297 | 7 | 49,249 | 7 | 60,201 | 7 | 71,152 | 7 | 82,104 | 7 | 93,055 | 7 | 104,007 |
| 1/4 | 5,690 | 1/4 | 16,641 | 1/4 | 27,589 | 1/4 | 38,526 | 1/4 | 49,477 | 1/4 | 60,429 | 1/4 | 71,380 | 1/4 | 82,332 | 1/4 | 93,283 | 1/4 | 104,235 |
| 1/2 | 5,918 | 1/2 | 16,869 | 1/2 | 27,816 | 1/2 | 38,754 | 1/2 | 49,705 | 1/2 | 60,657 | 1/2 | 71,608 | 1/2 | 82,560 | 1/2 | 93,512 | 1/2 | 104,463 |
| 3/4 | 6,146 | 3/4 | 17,097 | 3/4 | 28,044 | 3/4 | 38,982 | 3/4 | 49,933 | 3/4 | 60,885 | 3/4 | 71,837 | 3/4 | 82,788 | 3/4 | 93,740 | 3/4 | 104,691 |
| 8 | 6,374 | 8 | 17,325 | 8 | 28,272 | 8 | 39,210 | 8 | 50,162 | 8 | 61,113 | 8 | 72,065 | 8 | 83,016 | 8 | 93,968 | 8 | 104,919 |
| 1/4 | 6,602 | 1/4 | 17,553 | 1/4 | 28,499 | 1/4 | 39,438 | 1/4 | 50,390 | 1/4 | 61,341 | 1/4 | 72,293 | 1/4 | 83,244 | 1/4 | 94,196 | 1/4 | 105,148 |
| 1/2 | 6,830 | 1/2 | 17,781 | 1/2 | 28,727 | 1/2 | 39,666 | 1/2 | 50,618 | 1/2 | 61,570 | 1/2 | 72,521 | 1/2 | 83,473 | 1/2 | 94,424 | 1/2 | 105,376 |
| 3/4 | 7,058 | 3/4 | 18,009 | 3/4 | 28,955 | 3/4 | 39,895 | 3/4 | 50,846 | 3/4 | 61,798 | 3/4 | 72,749 | 3/4 | 83,701 | 3/4 | 94,652 | 3/4 | 105,604 |
| 9 | 7,286 | 9 | 18,238 | 9 | 29,182 | 9 | 40,123 | 9 | 51,074 | 9 | 62,026 | 9 | 72,977 | 9 | 83,929 | 9 | 94,881 | 9 | 105,832 |
| 1/4 | 7,515 | 1/4 | 18,466 | 1/4 | 29,410 | 1/4 | 40,351 | 1/4 | 51,302 | 1/4 | 62,254 | 1/4 | 73,206 | 1/4 | 84,157 | 1/4 | 95,109 | 1/4 | 106,060 |
| 1/2 | 7,743 | 1/2 | 18,694 | 1/2 | 29,638 | 1/2 | 40,579 | 1/2 | 51,531 | 1/2 | 62,482 | 1/2 | 73,434 | 1/2 | 84,385 | 1/2 | 95,337 | 1/2 | 106,288 |
| 3/4 | 7,971 | 3/4 | 18,922 | 3/4 | 29,866 | 3/4 | 40,807 | 3/4 | 51,759 | 3/4 | 62,710 | 3/4 | 73,662 | 3/4 | 84,613 | 3/4 | 95,565 | 3/4 | 106,517 |
| 10 | 8,199 | 10 | 19,150 | 10 | 30,093 | 10 | 41,035 | 10 | 51,987 | 10 | 62,938 | 10 | 73,890 | 10 | 84,842 | 10 | 95,793 | 10 | 106,745 |
| 1/4 | 8,427 | 1/4 | 19,378 | 1/4 | 30,321 | 1/4 | 41,264 | 1/4 | 52,215 | 1/4 | 63,167 | 1/4 | 74,118 | 1/4 | 85,070 | 1/4 | 96,021 | 1/4 | 106,973 |
| 1/2 | 8,655 | 1/2 | 19,606 | 1/2 | 30,549 | 1/2 | 41,492 | 1/2 | 52,443 | 1/2 | 63,395 | 1/2 | 74,346 | 1/2 | 85,298 | 1/2 | 96,249 | 1/2 | 107,201 |
| 3/4 | 8,884 | 3/4 | 19,835 | 3/4 | 30,776 | 3/4 | 41,720 | 3/4 | 52,671 | 3/4 | 63,623 | 3/4 | 74,574 | 3/4 | 85,526 | 3/4 | 96,478 | 3/4 | 107,429 |
| 11 | 9,112 | 11 | 20,063 | 11 | 31,004 | 11 | 41,948 | 11 | 52,900 | 11 | 63,851 | 11 | 74,803 | 11 | 85,754 | 11 | 96,706 | 11 | 107,657 |
| 1/4 | 9,340 | 1/4 | 20,291 | 1/4 | 31,232 | 1/4 | 42,176 | 1/4 | 53,128 | 1/4 | 64,079 | 1/4 | 75,031 | 1/4 | 85,982 | 1/4 | 96,934 | 1/4 | 107,885 |
| 1/2 | 9,568 | 1/2 | 20,519 | 1/2 | 31,460 | 1/2 | 42,404 | 1/2 | 53,356 | 1/2 | 64,307 | 1/2 | 75,259 | 1/2 | 86,211 | 1/2 | 97,162 | 1/2 | 108,114 |
| 3/4 | 9,796 | 3/4 | 20,747 | 3/4 | 31,687 | 3/4 | 42,632 | 3/4 | 53,584 | 3/4 | 64,536 | 3/4 | 75,487 | 3/4 | 86,439 | 3/4 | 97,390 | 3/4 | 108,342 |

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 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 INNAGE 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 | 108,570 | 0 | 119,522 | 0 | 130,473 | 0 | 141,425 | 0 | 152,325 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 108,798 | 1/4 | 119,750 | 1/4 | 130,701 | 1/4 | 141,653 | 1/4 | 152,494 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 109,026 | 1/2 | 119,978 | 1/2 | 130,929 | 1/2 | 141,881 | 1/2 | 152,664 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 109,254 | 3/4 | 120,206 | 3/4 | 131,158 | 3/4 | 142,109 | 3/4 | 152,833 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 1 | 109,483 | 1 | 120,434 | 1 | 131,386 | 1 | 142,337 | 1 | 153,003 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 109,711 | 1/4 | 120,662 | 1/4 | 131,614 | 1/4 | 142,565 | 1/4 | 153,098 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 109,939 | 1/2 | 120,890 | 1/2 | 131,842 | 1/2 | 142,794 | 1/2 | 153,193 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 110,167 | 3/4 | 121,119 | 3/4 | 132,070 | 3/4 | 143,022 | 3/4 | 153,288 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 2 | 110,395 | 2 | 121,347 | 2 | 132,298 | 2 | 143,250 | 2 | 153,383 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 110,623 | 1/4 | 121,575 | 1/4 | 132,526 | 1/4 | 143,478 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 110,852 | 1/2 | 121,803 | 1/2 | 132,755 | 1/2 | 143,706 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 111,080 | 3/4 | 122,031 | 3/4 | 132,983 | 3/4 | 143,934 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 3 | 111,308 | 3 | 122,259 | 3 | 133,211 | 3 | 144,163 | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 111,536 | 1/4 | 122,488 | 1/4 | 133,439 | 1/4 | 144,391 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 111,764 | 1/2 | 122,716 | 1/2 | 133,667 | 1/2 | 144,619 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 111,992 | 3/4 | 122,944 | 3/4 | 133,895 | 3/4 | 144,847 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 4 | 112,220 | 4 | 123,172 | 4 | 134,124 | 4 | 145,075 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 112,449 | 1/4 | 123,400 | 1/4 | 134,352 | 1/4 | 145,303 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 112,677 | 1/2 | 123,628 | 1/2 | 134,580 | 1/2 | 145,531 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 112,905 | 3/4 | 123,856 | 3/4 | 134,808 | 3/4 | 145,760 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 5 | 113,133 | 5 | 124,085 | 5 | 135,036 | 5 | 145,988 | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 113,361 | 1/4 | 124,313 | 1/4 | 135,264 | 1/4 | 146,216 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 113,589 | 1/2 | 124,541 | 1/2 | 135,493 | 1/2 | 146,444 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 113,818 | 3/4 | 124,769 | 3/4 | 135,721 | 3/4 | 146,672 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 6 | 114,046 | 6 | 124,997 | 6 | 135,949 | 6 | 146,900 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 114,274 | 1/4 | 125,225 | 1/4 | 136,177 | 1/4 | 147,129 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 114,502 | 1/2 | 125,454 | 1/2 | 136,405 | 1/2 | 147,357 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 114,730 | 3/4 | 125,682 | 3/4 | 136,633 | 3/4 | 147,585 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 7 | 114,958 | 7 | 125,910 | 7 | 136,861 | 7 | 147,813 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 115,187 | 1/4 | 126,138 | 1/4 | 137,090 | 1/4 | 148,041 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 115,415 | 1/2 | 126,366 | 1/2 | 137,318 | 1/2 | 148,269 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 115,643 | 3/4 | 126,594 | 3/4 | 137,546 | 3/4 | 148,497 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 8 | 115,871 | 8 | 126,823 | 8 | 137,774 | 8 | 148,726 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 116,099 | 1/4 | 127,051 | 1/4 | 138,002 | 1/4 | 148,954 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 116,327 | 1/2 | 127,279 | 1/2 | 138,230 | 1/2 | 149,182 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 116,555 | 3/4 | 127,507 | 3/4 | 138,459 | 3/4 | 149,410 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 9 | 116,784 | 9 | 127,735 | 9 | 138,687 | 9 | 149,638 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 117,012 | 1/4 | 127,963 | 1/4 | 138,915 | 1/4 | 149,866 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 117,240 | 1/2 | 128,191 | 1/2 | 139,143 | 1/2 | 150,094 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 117,468 | 3/4 | 128,420 | 3/4 | 139,371 | 3/4 | 150,322 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 10 | 117,696 | 10 | 128,648 | 10 | 139,599 | 10 | 150,550 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 117,924 | 1/4 | 128,876 | 1/4 | 139,828 | 1/4 | 150,777 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 118,153 | 1/2 | 129,104 | 1/2 | 140,056 | 1/2 | 151,005 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 118,381 | 3/4 | 129,332 | 3/4 | 140,284 | 3/4 | 151,232 | 3/4 | | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 11 | 118,609 | 11 | 129,560 | 11 | 140,512 | 11 | 151,459 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 118,837 | 1/4 | 129,789 | 1/4 | 140,740 | 1/4 | 151,676 | 1/4 | | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 119,065 | 1/2 | 130,017 | 1/2 | 140,968 | 1/2 | 151,892 | 1/2 | | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 119,293 | 3/4 | 130,245 | 3/4 | 141,196 | 3/4 | 152,108 | 3/4 | | 3/4 | | 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>