



BARGE "HSM 3001"

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 PORT | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 |
| 1 STBD | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 |
| 2 PORT | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-1/8 | - 00-1/8 |
| 2 STBD | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 |
| 3 PORT | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 |
| 3 STBD | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 |

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 1'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 3'-00" (DOWN BY STERN)

THE CORRECTION FOR 3'-00" TRIM DOWN BY STERN FOR 3 PORT IS - 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 3 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 238'-06"

October 13, 2016

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

<http://www.pmacorp.net>



BARGE "HSM 3001"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/4"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0 | 386 | 0 | 13,277 | 0 | 28,232 | 0 | 43,284 | 0 | 58,274 | 0 | 73,283 | 0 | 88,335 | 0 | 103,387 | 0 | 118,435 | 0 | 133,480 |
| 1/4 | 563 | 1/4 | 13,579 | 1/4 | 28,546 | 1/4 | 43,597 | 1/4 | 58,585 | 1/4 | 73,597 | 1/4 | 88,649 | 1/4 | 103,701 | 1/4 | 118,748 | 1/4 | 133,794 |
| 1/2 | 741 | 1/2 | 13,881 | 1/2 | 28,859 | 1/2 | 43,911 | 1/2 | 58,896 | 1/2 | 73,910 | 1/2 | 88,962 | 1/2 | 104,015 | 1/2 | 119,062 | 1/2 | 134,107 |
| 3/4 | 918 | 3/4 | 14,183 | 3/4 | 29,173 | 3/4 | 44,225 | 3/4 | 59,207 | 3/4 | 74,224 | 3/4 | 89,276 | 3/4 | 104,328 | 3/4 | 119,375 | 3/4 | 134,421 |
| 1 | 1,095 | 1 | 14,485 | 1 | 29,487 | 1 | 44,538 | 1 | 59,519 | 1 | 74,537 | 1 | 89,590 | 1 | 104,642 | 1 | 119,689 | 1 | 134,734 |
| 1/4 | 1,334 | 1/4 | 14,791 | 1/4 | 29,800 | 1/4 | 44,852 | 1/4 | 59,830 | 1/4 | 74,851 | 1/4 | 89,903 | 1/4 | 104,955 | 1/4 | 120,002 | 1/4 | 135,048 |
| 1/2 | 1,573 | 1/2 | 15,097 | 1/2 | 30,114 | 1/2 | 45,165 | 1/2 | 60,141 | 1/2 | 75,165 | 1/2 | 90,217 | 1/2 | 105,269 | 1/2 | 120,316 | 1/2 | 135,361 |
| 3/4 | 1,812 | 3/4 | 15,403 | 3/4 | 30,427 | 3/4 | 45,479 | 3/4 | 60,452 | 3/4 | 75,478 | 3/4 | 90,530 | 3/4 | 105,582 | 3/4 | 120,629 | 3/4 | 135,675 |
| 2 | 2,052 | 2 | 15,709 | 2 | 30,741 | 2 | 45,793 | 2 | 60,764 | 2 | 75,792 | 2 | 90,844 | 2 | 105,896 | 2 | 120,942 | 2 | 135,988 |
| 1/4 | 2,314 | 1/4 | 16,018 | 1/4 | 31,054 | 1/4 | 46,106 | 1/4 | 61,075 | 1/4 | 76,105 | 1/4 | 91,157 | 1/4 | 106,210 | 1/4 | 121,256 | 1/4 | 136,301 |
| 1/2 | 2,576 | 1/2 | 16,328 | 1/2 | 31,368 | 1/2 | 46,420 | 1/2 | 61,386 | 1/2 | 76,419 | 1/2 | 91,471 | 1/2 | 106,523 | 1/2 | 121,569 | 1/2 | 136,615 |
| 3/4 | 2,839 | 3/4 | 16,638 | 3/4 | 31,682 | 3/4 | 46,733 | 3/4 | 61,697 | 3/4 | 76,733 | 3/4 | 91,785 | 3/4 | 106,837 | 3/4 | 121,883 | 3/4 | 136,928 |
| 3 | 3,101 | 3 | 16,947 | 3 | 31,995 | 3 | 47,047 | 3 | 62,009 | 3 | 77,046 | 3 | 92,098 | 3 | 107,150 | 3 | 122,196 | 3 | 137,242 |
| 1/4 | 3,368 | 1/4 | 17,260 | 1/4 | 32,309 | 1/4 | 47,360 | 1/4 | 62,320 | 1/4 | 77,360 | 1/4 | 92,412 | 1/4 | 107,464 | 1/4 | 122,510 | 1/4 | 137,555 |
| 1/2 | 3,635 | 1/2 | 17,573 | 1/2 | 32,622 | 1/2 | 47,674 | 1/2 | 62,631 | 1/2 | 77,673 | 1/2 | 92,725 | 1/2 | 107,777 | 1/2 | 122,823 | 1/2 | 137,869 |
| 3/4 | 3,902 | 3/4 | 17,885 | 3/4 | 32,936 | 3/4 | 47,988 | 3/4 | 62,943 | 3/4 | 77,987 | 3/4 | 93,039 | 3/4 | 108,091 | 3/4 | 123,137 | 3/4 | 138,182 |
| 4 | 4,169 | 4 | 18,198 | 4 | 33,249 | 4 | 48,301 | 4 | 63,254 | 4 | 78,300 | 4 | 93,353 | 4 | 108,404 | 4 | 123,450 | 4 | 138,496 |
| 1/4 | 4,440 | 1/4 | 18,511 | 1/4 | 33,563 | 1/4 | 48,614 | 1/4 | 63,566 | 1/4 | 78,614 | 1/4 | 93,666 | 1/4 | 108,718 | 1/4 | 123,763 | 1/4 | 138,809 |
| 1/2 | 4,711 | 1/2 | 18,825 | 1/2 | 33,877 | 1/2 | 48,927 | 1/2 | 63,879 | 1/2 | 78,928 | 1/2 | 93,980 | 1/2 | 109,031 | 1/2 | 124,077 | 1/2 | 139,123 |
| 3/4 | 4,982 | 3/4 | 19,139 | 3/4 | 34,190 | 3/4 | 49,240 | 3/4 | 64,191 | 3/4 | 79,241 | 3/4 | 94,293 | 3/4 | 109,345 | 3/4 | 124,390 | 3/4 | 139,436 |
| 5 | 5,254 | 5 | 19,452 | 5 | 34,504 | 5 | 49,553 | 5 | 64,503 | 5 | 79,555 | 5 | 94,607 | 5 | 109,658 | 5 | 124,704 | 5 | 139,749 |
| 1/4 | 5,529 | 1/4 | 19,766 | 1/4 | 34,817 | 1/4 | 49,865 | 1/4 | 64,817 | 1/4 | 79,868 | 1/4 | 94,921 | 1/4 | 109,972 | 1/4 | 125,017 | 1/4 | 140,063 |
| 1/2 | 5,804 | 1/2 | 20,079 | 1/2 | 35,131 | 1/2 | 50,177 | 1/2 | 65,130 | 1/2 | 80,182 | 1/2 | 95,234 | 1/2 | 110,285 | 1/2 | 125,331 | 1/2 | 140,376 |
| 3/4 | 6,078 | 3/4 | 20,393 | 3/4 | 35,445 | 3/4 | 50,489 | 3/4 | 65,444 | 3/4 | 80,496 | 3/4 | 95,548 | 3/4 | 110,599 | 3/4 | 125,644 | 3/4 | 140,690 |
| 6 | 6,353 | 6 | 20,706 | 6 | 35,758 | 6 | 50,801 | 6 | 65,757 | 6 | 80,809 | 6 | 95,861 | 6 | 110,912 | 6 | 125,958 | 6 | 141,003 |
| 1/4 | 6,632 | 1/4 | 21,020 | 1/4 | 36,072 | 1/4 | 51,113 | 1/4 | 66,071 | 1/4 | 81,123 | 1/4 | 96,175 | 1/4 | 111,225 | 1/4 | 126,271 | 1/4 | 141,317 |
| 1/2 | 6,911 | 1/2 | 21,334 | 1/2 | 36,385 | 1/2 | 51,425 | 1/2 | 66,384 | 1/2 | 81,436 | 1/2 | 96,488 | 1/2 | 111,539 | 1/2 | 126,585 | 1/2 | 141,630 |
| 3/4 | 7,190 | 3/4 | 21,647 | 3/4 | 36,699 | 3/4 | 51,737 | 3/4 | 66,698 | 3/4 | 81,750 | 3/4 | 96,802 | 3/4 | 111,852 | 3/4 | 126,898 | 3/4 | 141,944 |
| 7 | 7,469 | 7 | 21,961 | 7 | 37,012 | 7 | 52,049 | 7 | 67,011 | 7 | 82,064 | 7 | 97,116 | 7 | 112,166 | 7 | 127,211 | 7 | 142,257 |
| 1/4 | 7,752 | 1/4 | 22,274 | 1/4 | 37,326 | 1/4 | 52,360 | 1/4 | 67,325 | 1/4 | 82,377 | 1/4 | 97,429 | 1/4 | 112,479 | 1/4 | 127,525 | 1/4 | 142,570 |
| 1/2 | 8,034 | 1/2 | 22,588 | 1/2 | 37,640 | 1/2 | 52,672 | 1/2 | 67,639 | 1/2 | 82,691 | 1/2 | 97,743 | 1/2 | 112,793 | 1/2 | 127,838 | 1/2 | 142,884 |
| 3/4 | 8,317 | 3/4 | 22,901 | 3/4 | 37,953 | 3/4 | 52,983 | 3/4 | 67,952 | 3/4 | 83,004 | 3/4 | 98,056 | 3/4 | 113,106 | 3/4 | 128,152 | 3/4 | 143,197 |
| 8 | 8,600 | 8 | 23,215 | 8 | 38,267 | 8 | 53,294 | 8 | 68,266 | 8 | 83,318 | 8 | 98,370 | 8 | 113,420 | 8 | 128,465 | 8 | 143,511 |
| 1/4 | 8,886 | 1/4 | 23,529 | 1/4 | 38,580 | 1/4 | 53,606 | 1/4 | 68,579 | 1/4 | 83,631 | 1/4 | 98,684 | 1/4 | 113,733 | 1/4 | 128,779 | 1/4 | 143,824 |
| 1/2 | 9,173 | 1/2 | 23,842 | 1/2 | 38,894 | 1/2 | 53,917 | 1/2 | 68,893 | 1/2 | 83,945 | 1/2 | 98,997 | 1/2 | 114,047 | 1/2 | 129,092 | 1/2 | 144,138 |
| 3/4 | 9,459 | 3/4 | 24,156 | 3/4 | 39,207 | 3/4 | 54,228 | 3/4 | 69,207 | 3/4 | 84,259 | 3/4 | 99,311 | 3/4 | 114,360 | 3/4 | 129,406 | 3/4 | 144,451 |
| 9 | 9,746 | 9 | 24,469 | 9 | 39,521 | 9 | 54,539 | 9 | 69,520 | 9 | 84,572 | 9 | 99,624 | 9 | 114,673 | 9 | 129,719 | 9 | 144,765 |
| 1/4 | 10,036 | 1/4 | 24,783 | 1/4 | 39,835 | 1/4 | 54,851 | 1/4 | 69,834 | 1/4 | 84,886 | 1/4 | 99,938 | 1/4 | 114,987 | 1/4 | 130,032 | 1/4 | 145,078 |
| 1/2 | 10,327 | 1/2 | 25,096 | 1/2 | 40,148 | 1/2 | 55,162 | 1/2 | 70,147 | 1/2 | 85,199 | 1/2 | 100,251 | 1/2 | 115,300 | 1/2 | 130,346 | 1/2 | 145,392 |
| 3/4 | 10,617 | 3/4 | 25,410 | 3/4 | 40,462 | 3/4 | 55,473 | 3/4 | 70,461 | 3/4 | 85,513 | 3/4 | 100,565 | 3/4 | 115,614 | 3/4 | 130,659 | 3/4 | 145,705 |
| 10 | 10,907 | 10 | 25,724 | 10 | 40,775 | 10 | 55,784 | 10 | 70,774 | 10 | 85,827 | 10 | 100,879 | 10 | 115,927 | 10 | 130,973 | 10 | 146,018 |
| 1/4 | 11,202 | 1/4 | 26,037 | 1/4 | 41,089 | 1/4 | 56,095 | 1/4 | 71,088 | 1/4 | 86,140 | 1/4 | 101,192 | 1/4 | 116,241 | 1/4 | 131,286 | 1/4 | 146,332 |
| 1/2 | 11,496 | 1/2 | 26,351 | 1/2 | 41,402 | 1/2 | 56,407 | 1/2 | 71,402 | 1/2 | 86,454 | 1/2 | 101,506 | 1/2 | 116,554 | 1/2 | 131,600 | 1/2 | 146,645 |
| 3/4 | 11,790 | 3/4 | 26,664 | 3/4 | 41,716 | 3/4 | 56,718 | 3/4 | 71,715 | 3/4 | 86,767 | 3/4 | 101,819 | 3/4 | 116,868 | 3/4 | 131,913 | 3/4 | 146,959 |
| 11 | 12,085 | 11 | 26,978 | 11 | 42,030 | 11 | 57,029 | 11 | 72,029 | 11 | 87,081 | 11 | 102,133 | 11 | 117,181 | 11 | 132,227 | 11 | 147,272 |
| 1/4 | 12,383 | 1/4 | 27,292 | 1/4 | 42,343 | 1/4 | 57,340 | 1/4 | 72,342 | 1/4 | 87,394 | 1/4 | 102,447 | 1/4 | 117,494 | 1/4 | 132,540 | 1/4 | 147,586 |
| 1/2 | 12,681 | 1/2 | 27,605 | 1/2 | 42,657 | 1/2 | 57,651 | 1/2 | 72,656 | 1/2 | 87,708 | 1/2 | 102,760 | 1/2 | 117,808 | 1/2 | 132,854 | 1/2 | 147,899 |
| 3/4 | 12,979 | 3/4 | 27,919 | 3/4 | 42,970 | 3/4 | 57,963 | 3/4 | 72,970 | 3/4 | 88,022 | 3/4 | 103,074 | 3/4 | 118,121 | 3/4 | 133,167 | 3/4 | 148,213 |

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 THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 3001"

1 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/4"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 148,526 | 0 | 163,572 | 0 | 178,608 | 0 | 193,610 | 0 | 208,539 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 148,839 | 1/4 | 163,885 | 1/4 | 178,921 | 1/4 | 193,922 | 1/4 | 208,820 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 149,153 | 1/2 | 164,199 | 1/2 | 179,233 | 1/2 | 194,235 | 1/2 | 209,100 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 149,466 | 3/4 | 164,512 | 3/4 | 179,546 | 3/4 | 194,547 | 3/4 | 209,381 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 149,780 | 1 | 164,825 | 1 | 179,858 | 1 | 194,860 | 1 | 209,661 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 150,093 | 1/4 | 165,139 | 1/4 | 180,171 | 1/4 | 195,172 | 1/4 | 209,894 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 150,407 | 1/2 | 165,452 | 1/2 | 180,483 | 1/2 | 195,485 | 1/2 | 210,126 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 150,720 | 3/4 | 165,766 | 3/4 | 180,796 | 3/4 | 195,798 | 3/4 | 210,358 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 151,034 | 2 | 166,079 | 2 | 181,108 | 2 | 196,110 | 2 | 210,590 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 151,347 | 1/4 | 166,393 | 1/4 | 181,421 | 1/4 | 196,423 | 1/4 | 210,770 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 151,661 | 1/2 | 166,706 | 1/2 | 181,733 | 1/2 | 196,735 | 1/2 | 210,950 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 151,974 | 3/4 | 167,020 | 3/4 | 182,046 | 3/4 | 197,048 | 3/4 | 211,130 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 152,287 | 3 | 167,333 | 3 | 182,358 | 3 | 197,360 | 3 | 211,309 | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 152,601 | 1/4 | 167,646 | 1/4 | 182,671 | 1/4 | 197,673 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 152,914 | 1/2 | 167,960 | 1/2 | 182,984 | 1/2 | 197,985 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 153,228 | 3/4 | 168,273 | 3/4 | 183,296 | 3/4 | 198,298 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 153,541 | 4 | 168,587 | 4 | 183,609 | 4 | 198,610 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 153,855 | 1/4 | 168,900 | 1/4 | 183,921 | 1/4 | 198,923 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 154,168 | 1/2 | 169,214 | 1/2 | 184,234 | 1/2 | 199,235 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 154,482 | 3/4 | 169,527 | 3/4 | 184,546 | 3/4 | 199,548 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 154,795 | 5 | 169,841 | 5 | 184,859 | 5 | 199,860 | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 155,108 | 1/4 | 170,154 | 1/4 | 185,171 | 1/4 | 200,172 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 155,422 | 1/2 | 170,468 | 1/2 | 185,484 | 1/2 | 200,483 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 155,735 | 3/4 | 170,781 | 3/4 | 185,796 | 3/4 | 200,795 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 156,049 | 6 | 171,094 | 6 | 186,109 | 6 | 201,106 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 156,362 | 1/4 | 171,408 | 1/4 | 186,421 | 1/4 | 201,417 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 156,676 | 1/2 | 171,721 | 1/2 | 186,734 | 1/2 | 201,727 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 156,989 | 3/4 | 172,035 | 3/4 | 187,047 | 3/4 | 202,037 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 157,303 | 7 | 172,348 | 7 | 187,359 | 7 | 202,348 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 157,616 | 1/4 | 172,662 | 1/4 | 187,672 | 1/4 | 202,658 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 157,930 | 1/2 | 172,975 | 1/2 | 187,984 | 1/2 | 202,969 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 158,243 | 3/4 | 173,289 | 3/4 | 188,297 | 3/4 | 203,279 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 158,556 | 8 | 173,602 | 8 | 188,609 | 8 | 203,590 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 158,870 | 1/4 | 173,915 | 1/4 | 188,922 | 1/4 | 203,900 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 159,183 | 1/2 | 174,229 | 1/2 | 189,234 | 1/2 | 204,211 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 159,497 | 3/4 | 174,542 | 3/4 | 189,547 | 3/4 | 204,521 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 159,810 | 9 | 174,856 | 9 | 189,859 | 9 | 204,832 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 160,124 | 1/4 | 175,169 | 1/4 | 190,172 | 1/4 | 205,142 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 160,437 | 1/2 | 175,482 | 1/2 | 190,484 | 1/2 | 205,453 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 160,751 | 3/4 | 175,795 | 3/4 | 190,797 | 3/4 | 205,763 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 161,064 | 10 | 176,108 | 10 | 191,109 | 10 | 206,074 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 161,377 | 1/4 | 176,420 | 1/4 | 191,422 | 1/4 | 206,384 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 161,691 | 1/2 | 176,733 | 1/2 | 191,735 | 1/2 | 206,694 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 162,004 | 3/4 | 177,045 | 3/4 | 192,047 | 3/4 | 207,004 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 162,318 | 11 | 177,358 | 11 | 192,360 | 11 | 207,314 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 162,631 | 1/4 | 177,670 | 1/4 | 192,672 | 1/4 | 207,620 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 162,945 | 1/2 | 177,983 | 1/2 | 192,985 | 1/2 | 207,926 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 163,258 | 3/4 | 178,296 | 3/4 | 193,297 | 3/4 | 208,233 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/13/2016 CL
CALCULATED: 10/13/2016 CL
PRINTED: 10/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2016

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



BARGE "HSM 3001"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05"

| 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 | 386 | 0 | 13,277 | 0 | 28,232 | 0 | 43,283 | 0 | 58,330 | 0 | 73,379 | 0 | 88,431 | 0 | 103,483 | 0 | 118,530 | 0 | 133,575 |
| 1/4 | 563 | 1/4 | 13,579 | 1/4 | 28,545 | 1/4 | 43,597 | 1/4 | 58,643 | 1/4 | 73,693 | 1/4 | 88,744 | 1/4 | 103,796 | 1/4 | 118,843 | 1/4 | 133,889 |
| 1/2 | 741 | 1/2 | 13,881 | 1/2 | 28,859 | 1/2 | 43,910 | 1/2 | 58,957 | 1/2 | 74,006 | 1/2 | 89,058 | 1/2 | 104,110 | 1/2 | 119,157 | 1/2 | 134,202 |
| 3/4 | 918 | 3/4 | 14,183 | 3/4 | 29,172 | 3/4 | 44,224 | 3/4 | 59,270 | 3/4 | 74,320 | 3/4 | 89,372 | 3/4 | 104,423 | 3/4 | 119,470 | 3/4 | 134,515 |
| 1 | 1,095 | 1 | 14,485 | 1 | 29,486 | 1 | 44,537 | 1 | 59,583 | 1 | 74,633 | 1 | 89,685 | 1 | 104,737 | 1 | 119,784 | 1 | 134,829 |
| 1/4 | 1,334 | 1/4 | 14,791 | 1/4 | 29,800 | 1/4 | 44,851 | 1/4 | 59,897 | 1/4 | 74,947 | 1/4 | 89,999 | 1/4 | 105,051 | 1/4 | 120,097 | 1/4 | 135,142 |
| 1/2 | 1,573 | 1/2 | 15,097 | 1/2 | 30,113 | 1/2 | 45,165 | 1/2 | 60,210 | 1/2 | 75,261 | 1/2 | 90,312 | 1/2 | 105,364 | 1/2 | 120,411 | 1/2 | 135,456 |
| 3/4 | 1,813 | 3/4 | 15,402 | 3/4 | 30,427 | 3/4 | 45,478 | 3/4 | 60,524 | 3/4 | 75,574 | 3/4 | 90,626 | 3/4 | 105,678 | 3/4 | 120,724 | 3/4 | 135,769 |
| 2 | 2,052 | 2 | 15,708 | 2 | 30,740 | 2 | 45,792 | 2 | 60,837 | 2 | 75,888 | 2 | 90,940 | 2 | 105,991 | 2 | 121,037 | 2 | 136,083 |
| 1/4 | 2,314 | 1/4 | 16,018 | 1/4 | 31,054 | 1/4 | 46,105 | 1/4 | 61,150 | 1/4 | 76,201 | 1/4 | 91,253 | 1/4 | 106,305 | 1/4 | 121,351 | 1/4 | 136,396 |
| 1/2 | 2,576 | 1/2 | 16,328 | 1/2 | 31,367 | 1/2 | 46,419 | 1/2 | 61,464 | 1/2 | 76,515 | 1/2 | 91,567 | 1/2 | 106,618 | 1/2 | 121,664 | 1/2 | 136,710 |
| 3/4 | 2,839 | 3/4 | 16,637 | 3/4 | 31,681 | 3/4 | 46,732 | 3/4 | 61,777 | 3/4 | 76,828 | 3/4 | 91,880 | 3/4 | 106,932 | 3/4 | 121,978 | 3/4 | 137,023 |
| 3 | 3,101 | 3 | 16,947 | 3 | 31,995 | 3 | 47,046 | 3 | 62,090 | 3 | 77,142 | 3 | 92,194 | 3 | 107,246 | 3 | 122,291 | 3 | 137,336 |
| 1/4 | 3,368 | 1/4 | 17,260 | 1/4 | 32,308 | 1/4 | 47,360 | 1/4 | 62,404 | 1/4 | 77,456 | 1/4 | 92,507 | 1/4 | 107,559 | 1/4 | 122,605 | 1/4 | 137,650 |
| 1/2 | 3,635 | 1/2 | 17,572 | 1/2 | 32,622 | 1/2 | 47,673 | 1/2 | 62,718 | 1/2 | 77,769 | 1/2 | 92,821 | 1/2 | 107,873 | 1/2 | 122,918 | 1/2 | 137,963 |
| 3/4 | 3,902 | 3/4 | 17,885 | 3/4 | 32,935 | 3/4 | 47,987 | 3/4 | 63,031 | 3/4 | 78,083 | 3/4 | 93,135 | 3/4 | 108,186 | 3/4 | 123,232 | 3/4 | 138,277 |
| 4 | 4,169 | 4 | 18,198 | 4 | 33,249 | 4 | 48,300 | 4 | 63,345 | 4 | 78,396 | 4 | 93,448 | 4 | 108,500 | 4 | 123,545 | 4 | 138,590 |
| 1/4 | 4,440 | 1/4 | 18,511 | 1/4 | 33,562 | 1/4 | 48,614 | 1/4 | 63,658 | 1/4 | 78,710 | 1/4 | 93,762 | 1/4 | 108,813 | 1/4 | 123,858 | 1/4 | 138,904 |
| 1/2 | 4,711 | 1/2 | 18,825 | 1/2 | 33,876 | 1/2 | 48,927 | 1/2 | 63,972 | 1/2 | 79,024 | 1/2 | 94,075 | 1/2 | 109,127 | 1/2 | 124,172 | 1/2 | 139,217 |
| 3/4 | 4,983 | 3/4 | 19,138 | 3/4 | 34,190 | 3/4 | 49,241 | 3/4 | 64,285 | 3/4 | 79,337 | 3/4 | 94,389 | 3/4 | 109,440 | 3/4 | 124,485 | 3/4 | 139,531 |
| 5 | 5,254 | 5 | 19,452 | 5 | 34,503 | 5 | 49,555 | 5 | 64,599 | 5 | 79,651 | 5 | 94,702 | 5 | 109,753 | 5 | 124,799 | 5 | 139,844 |
| 1/4 | 5,529 | 1/4 | 19,765 | 1/4 | 34,817 | 1/4 | 49,868 | 1/4 | 64,912 | 1/4 | 79,964 | 1/4 | 95,016 | 1/4 | 110,067 | 1/4 | 125,112 | 1/4 | 140,158 |
| 1/2 | 5,804 | 1/2 | 20,079 | 1/2 | 35,130 | 1/2 | 50,182 | 1/2 | 65,226 | 1/2 | 80,278 | 1/2 | 95,330 | 1/2 | 110,380 | 1/2 | 125,426 | 1/2 | 140,471 |
| 3/4 | 6,079 | 3/4 | 20,393 | 3/4 | 35,444 | 3/4 | 50,495 | 3/4 | 65,540 | 3/4 | 80,591 | 3/4 | 95,643 | 3/4 | 110,694 | 3/4 | 125,739 | 3/4 | 140,784 |
| 6 | 6,353 | 6 | 20,706 | 6 | 35,757 | 6 | 50,809 | 6 | 65,853 | 6 | 80,905 | 6 | 95,957 | 6 | 111,007 | 6 | 126,053 | 6 | 141,098 |
| 1/4 | 6,632 | 1/4 | 21,020 | 1/4 | 36,071 | 1/4 | 51,122 | 1/4 | 66,167 | 1/4 | 81,219 | 1/4 | 96,270 | 1/4 | 111,321 | 1/4 | 126,366 | 1/4 | 141,411 |
| 1/2 | 6,911 | 1/2 | 21,333 | 1/2 | 36,385 | 1/2 | 51,436 | 1/2 | 66,480 | 1/2 | 81,532 | 1/2 | 96,584 | 1/2 | 111,634 | 1/2 | 126,679 | 1/2 | 141,725 |
| 3/4 | 7,190 | 3/4 | 21,647 | 3/4 | 36,698 | 3/4 | 51,749 | 3/4 | 66,794 | 3/4 | 81,846 | 3/4 | 96,898 | 3/4 | 111,948 | 3/4 | 126,993 | 3/4 | 142,038 |
| 7 | 7,469 | 7 | 21,960 | 7 | 37,012 | 7 | 52,063 | 7 | 67,108 | 7 | 82,159 | 7 | 97,211 | 7 | 112,261 | 7 | 127,306 | 7 | 142,352 |
| 1/4 | 7,751 | 1/4 | 22,274 | 1/4 | 37,325 | 1/4 | 52,376 | 1/4 | 67,421 | 1/4 | 82,473 | 1/4 | 97,525 | 1/4 | 112,574 | 1/4 | 127,620 | 1/4 | 142,665 |
| 1/2 | 8,034 | 1/2 | 22,588 | 1/2 | 37,639 | 1/2 | 52,690 | 1/2 | 67,735 | 1/2 | 82,786 | 1/2 | 97,838 | 1/2 | 112,888 | 1/2 | 127,933 | 1/2 | 142,979 |
| 3/4 | 8,317 | 3/4 | 22,901 | 3/4 | 37,952 | 3/4 | 53,003 | 3/4 | 68,048 | 3/4 | 83,100 | 3/4 | 98,152 | 3/4 | 113,201 | 3/4 | 128,247 | 3/4 | 143,292 |
| 8 | 8,600 | 8 | 23,215 | 8 | 38,266 | 8 | 53,316 | 8 | 68,362 | 8 | 83,414 | 8 | 98,465 | 8 | 113,515 | 8 | 128,560 | 8 | 143,605 |
| 1/4 | 8,886 | 1/4 | 23,528 | 1/4 | 38,580 | 1/4 | 53,630 | 1/4 | 68,675 | 1/4 | 83,727 | 1/4 | 98,779 | 1/4 | 113,828 | 1/4 | 128,874 | 1/4 | 143,919 |
| 1/2 | 9,173 | 1/2 | 23,842 | 1/2 | 38,893 | 1/2 | 53,943 | 1/2 | 68,989 | 1/2 | 84,041 | 1/2 | 99,093 | 1/2 | 114,142 | 1/2 | 129,187 | 1/2 | 144,232 |
| 3/4 | 9,459 | 3/4 | 24,155 | 3/4 | 39,207 | 3/4 | 54,257 | 3/4 | 69,303 | 3/4 | 84,354 | 3/4 | 99,406 | 3/4 | 114,455 | 3/4 | 129,500 | 3/4 | 144,546 |
| 9 | 9,746 | 9 | 24,469 | 9 | 39,520 | 9 | 54,570 | 9 | 69,616 | 9 | 84,668 | 9 | 99,720 | 9 | 114,769 | 9 | 129,814 | 9 | 144,859 |
| 1/4 | 10,036 | 1/4 | 24,783 | 1/4 | 39,834 | 1/4 | 54,883 | 1/4 | 69,930 | 1/4 | 84,982 | 1/4 | 100,033 | 1/4 | 115,082 | 1/4 | 130,127 | 1/4 | 145,173 |
| 1/2 | 10,327 | 1/2 | 25,096 | 1/2 | 40,147 | 1/2 | 55,197 | 1/2 | 70,243 | 1/2 | 85,295 | 1/2 | 100,347 | 1/2 | 115,395 | 1/2 | 130,441 | 1/2 | 145,486 |
| 3/4 | 10,617 | 3/4 | 25,410 | 3/4 | 40,461 | 3/4 | 55,510 | 3/4 | 70,557 | 3/4 | 85,609 | 3/4 | 100,660 | 3/4 | 115,709 | 3/4 | 130,754 | 3/4 | 145,800 |
| 10 | 10,907 | 10 | 25,723 | 10 | 40,775 | 10 | 55,823 | 10 | 70,870 | 10 | 85,922 | 10 | 100,974 | 10 | 116,022 | 10 | 131,068 | 10 | 146,113 |
| 1/4 | 11,202 | 1/4 | 26,037 | 1/4 | 41,088 | 1/4 | 56,137 | 1/4 | 71,184 | 1/4 | 86,236 | 1/4 | 101,288 | 1/4 | 116,336 | 1/4 | 131,381 | 1/4 | 146,427 |
| 1/2 | 11,496 | 1/2 | 26,350 | 1/2 | 41,402 | 1/2 | 56,450 | 1/2 | 71,498 | 1/2 | 86,549 | 1/2 | 101,601 | 1/2 | 116,649 | 1/2 | 131,694 | 1/2 | 146,740 |
| 3/4 | 11,790 | 3/4 | 26,664 | 3/4 | 41,715 | 3/4 | 56,763 | 3/4 | 71,811 | 3/4 | 86,863 | 3/4 | 101,915 | 3/4 | 116,963 | 3/4 | 132,008 | 3/4 | 147,053 |
| 11 | 12,084 | 11 | 26,978 | 11 | 42,029 | 11 | 57,077 | 11 | 72,125 | 11 | 87,177 | 11 | 102,228 | 11 | 117,276 | 11 | 132,321 | 11 | 147,367 |
| 1/4 | 12,383 | 1/4 | 27,291 | 1/4 | 42,342 | 1/4 | 57,390 | 1/4 | 72,438 | 1/4 | 87,490 | 1/4 | 102,542 | 1/4 | 117,590 | 1/4 | 132,635 | 1/4 | 147,680 |
| 1/2 | 12,681 | 1/2 | 27,605 | 1/2 | 42,656 | 1/2 | 57,703 | 1/2 | 72,752 | 1/2 | 87,804 | 1/2 | 102,856 | 1/2 | 117,903 | 1/2 | 132,948 | 1/2 | 147,994 |
| 3/4 | 12,979 | 3/4 | 27,918 | 3/4 | 42,970 | 3/4 | 58,017 | 3/4 | 73,066 | 3/4 | 88,117 | 3/4 | 103,169 | 3/4 | 118,216 | 3/4 | 133,262 | 3/4 | 148,307 |

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 THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-06" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 3001"

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05"

| 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 | 148,621 | 0 | 163,666 | 0 | 178,703 | 0 | 193,704 | 0 | 208,633 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 148,934 | 1/4 | 163,980 | 1/4 | 179,015 | 1/4 | 194,017 | 1/4 | 208,914 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 149,248 | 1/2 | 164,293 | 1/2 | 179,328 | 1/2 | 194,329 | 1/2 | 209,195 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 149,561 | 3/4 | 164,607 | 3/4 | 179,640 | 3/4 | 194,642 | 3/4 | 209,475 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 149,874 | 1 | 164,920 | 1 | 179,953 | 1 | 194,954 | 1 | 209,756 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 150,188 | 1/4 | 165,233 | 1/4 | 180,265 | 1/4 | 195,267 | 1/4 | 209,988 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 150,501 | 1/2 | 165,547 | 1/2 | 180,578 | 1/2 | 195,579 | 1/2 | 210,220 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 150,815 | 3/4 | 165,860 | 3/4 | 180,890 | 3/4 | 195,892 | 3/4 | 210,452 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 151,128 | 2 | 166,174 | 2 | 181,203 | 2 | 196,204 | 2 | 210,684 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 151,442 | 1/4 | 166,487 | 1/4 | 181,515 | 1/4 | 196,517 | 1/4 | 210,864 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 151,755 | 1/2 | 166,801 | 1/2 | 181,828 | 1/2 | 196,830 | 1/2 | 211,044 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 152,069 | 3/4 | 167,114 | 3/4 | 182,140 | 3/4 | 197,142 | 3/4 | 211,224 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 152,382 | 3 | 167,428 | 3 | 182,453 | 3 | 197,455 | 3 | 211,404 | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 152,695 | 1/4 | 167,741 | 1/4 | 182,766 | 1/4 | 197,767 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 153,009 | 1/2 | 168,054 | 1/2 | 183,078 | 1/2 | 198,080 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 153,322 | 3/4 | 168,368 | 3/4 | 183,391 | 3/4 | 198,392 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 153,636 | 4 | 168,681 | 4 | 183,703 | 4 | 198,705 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 153,949 | 1/4 | 168,995 | 1/4 | 184,016 | 1/4 | 199,017 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 154,263 | 1/2 | 169,308 | 1/2 | 184,328 | 1/2 | 199,330 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 154,576 | 3/4 | 169,622 | 3/4 | 184,641 | 3/4 | 199,642 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 154,890 | 5 | 169,935 | 5 | 184,953 | 5 | 199,955 | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 155,203 | 1/4 | 170,249 | 1/4 | 185,266 | 1/4 | 200,266 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 155,517 | 1/2 | 170,562 | 1/2 | 185,578 | 1/2 | 200,578 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 155,830 | 3/4 | 170,875 | 3/4 | 185,891 | 3/4 | 200,889 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 156,143 | 6 | 171,189 | 6 | 186,203 | 6 | 201,201 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 156,457 | 1/4 | 171,502 | 1/4 | 186,516 | 1/4 | 201,511 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 156,770 | 1/2 | 171,816 | 1/2 | 186,828 | 1/2 | 201,822 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 157,084 | 3/4 | 172,129 | 3/4 | 187,141 | 3/4 | 202,132 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 157,397 | 7 | 172,443 | 7 | 187,454 | 7 | 202,442 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 157,711 | 1/4 | 172,756 | 1/4 | 187,766 | 1/4 | 202,753 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 158,024 | 1/2 | 173,070 | 1/2 | 188,079 | 1/2 | 203,063 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 158,338 | 3/4 | 173,383 | 3/4 | 188,391 | 3/4 | 203,374 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 158,651 | 8 | 173,697 | 8 | 188,704 | 8 | 203,684 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 158,964 | 1/4 | 174,010 | 1/4 | 189,016 | 1/4 | 203,995 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 159,278 | 1/2 | 174,323 | 1/2 | 189,329 | 1/2 | 204,305 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 159,591 | 3/4 | 174,637 | 3/4 | 189,641 | 3/4 | 204,616 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 159,905 | 9 | 174,950 | 9 | 189,954 | 9 | 204,926 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 160,218 | 1/4 | 175,263 | 1/4 | 190,266 | 1/4 | 205,237 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 160,532 | 1/2 | 175,576 | 1/2 | 190,579 | 1/2 | 205,547 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 160,845 | 3/4 | 175,889 | 3/4 | 190,891 | 3/4 | 205,858 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 161,159 | 10 | 176,202 | 10 | 191,204 | 10 | 206,168 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 161,472 | 1/4 | 176,515 | 1/4 | 191,516 | 1/4 | 206,478 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 161,785 | 1/2 | 176,827 | 1/2 | 191,829 | 1/2 | 206,788 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 162,099 | 3/4 | 177,140 | 3/4 | 192,142 | 3/4 | 207,098 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 162,412 | 11 | 177,452 | 11 | 192,454 | 11 | 207,408 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 162,726 | 1/4 | 177,765 | 1/4 | 192,767 | 1/4 | 207,714 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 163,039 | 1/2 | 178,077 | 1/2 | 193,079 | 1/2 | 208,021 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 163,353 | 3/4 | 178,390 | 3/4 | 193,392 | 3/4 | 208,327 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/13/2016 CL
CALCULATED: 10/13/2016 CL
PRINTED: 10/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2016

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



BARGE "HSM 3001"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/4"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|---------|-----|---------|-----|---------|-----|---------|
| 0 | 1,033 | 0 | 15,719 | 0 | 30,803 | 0 | 45,516 | 0 | 60,023 | 0 | 74,898 | 0 | 89,986 | 0 | 105,073 | 0 | 120,155 | 0 | 135,235 |
| 1/4 | 1,269 | 1/4 | 16,033 | 1/4 | 31,118 | 1/4 | 45,818 | 1/4 | 60,326 | 1/4 | 75,213 | 1/4 | 90,300 | 1/4 | 105,387 | 1/4 | 120,469 | 1/4 | 135,549 |
| 1/2 | 1,504 | 1/2 | 16,347 | 1/2 | 31,432 | 1/2 | 46,119 | 1/2 | 60,628 | 1/2 | 75,527 | 1/2 | 90,614 | 1/2 | 105,702 | 1/2 | 120,783 | 1/2 | 135,863 |
| 3/4 | 1,740 | 3/4 | 16,662 | 3/4 | 31,746 | 3/4 | 46,421 | 3/4 | 60,931 | 3/4 | 75,841 | 3/4 | 90,929 | 3/4 | 106,016 | 3/4 | 121,097 | 3/4 | 136,177 |
| 1 | 1,976 | 1 | 16,976 | 1 | 32,061 | 1 | 46,723 | 1 | 61,233 | 1 | 76,156 | 1 | 91,243 | 1 | 106,330 | 1 | 121,412 | 1 | 136,491 |
| 1/4 | 2,270 | 1/4 | 17,290 | 1/4 | 32,375 | 1/4 | 47,024 | 1/4 | 61,536 | 1/4 | 76,470 | 1/4 | 91,557 | 1/4 | 106,645 | 1/4 | 121,726 | 1/4 | 136,806 |
| 1/2 | 2,564 | 1/2 | 17,605 | 1/2 | 32,689 | 1/2 | 47,326 | 1/2 | 61,838 | 1/2 | 76,784 | 1/2 | 91,872 | 1/2 | 106,959 | 1/2 | 122,040 | 1/2 | 137,120 |
| 3/4 | 2,857 | 3/4 | 17,919 | 3/4 | 33,003 | 3/4 | 47,627 | 3/4 | 62,141 | 3/4 | 77,098 | 3/4 | 92,186 | 3/4 | 107,273 | 3/4 | 122,354 | 3/4 | 137,434 |
| 2 | 3,151 | 2 | 18,233 | 2 | 33,318 | 2 | 47,929 | 2 | 62,443 | 2 | 77,413 | 2 | 92,500 | 2 | 107,588 | 2 | 122,668 | 2 | 137,748 |
| 1/4 | 3,465 | 1/4 | 18,548 | 1/4 | 33,632 | 1/4 | 48,231 | 1/4 | 62,746 | 1/4 | 77,727 | 1/4 | 92,814 | 1/4 | 107,902 | 1/4 | 122,982 | 1/4 | 138,062 |
| 1/2 | 3,778 | 1/2 | 18,862 | 1/2 | 33,946 | 1/2 | 48,532 | 1/2 | 63,048 | 1/2 | 78,041 | 1/2 | 93,129 | 1/2 | 108,216 | 1/2 | 123,297 | 1/2 | 138,376 |
| 3/4 | 4,091 | 3/4 | 19,176 | 3/4 | 34,261 | 3/4 | 48,834 | 3/4 | 63,351 | 3/4 | 78,356 | 3/4 | 93,443 | 3/4 | 108,531 | 3/4 | 123,611 | 3/4 | 138,691 |
| 3 | 4,405 | 3 | 19,490 | 3 | 34,575 | 3 | 49,136 | 3 | 63,653 | 3 | 78,670 | 3 | 93,757 | 3 | 108,845 | 3 | 123,925 | 3 | 139,005 |
| 1/4 | 4,719 | 1/4 | 19,805 | 1/4 | 34,889 | 1/4 | 49,438 | 1/4 | 63,956 | 1/4 | 78,984 | 1/4 | 94,072 | 1/4 | 109,159 | 1/4 | 124,239 | 1/4 | 139,319 |
| 1/2 | 5,033 | 1/2 | 20,119 | 1/2 | 35,204 | 1/2 | 49,740 | 1/2 | 64,259 | 1/2 | 79,299 | 1/2 | 94,386 | 1/2 | 109,473 | 1/2 | 124,553 | 1/2 | 139,633 |
| 3/4 | 5,347 | 3/4 | 20,433 | 3/4 | 35,518 | 3/4 | 50,041 | 3/4 | 64,561 | 3/4 | 79,613 | 3/4 | 94,700 | 3/4 | 109,788 | 3/4 | 124,867 | 3/4 | 139,947 |
| 4 | 5,661 | 4 | 20,748 | 4 | 35,832 | 4 | 50,343 | 4 | 64,864 | 4 | 79,927 | 4 | 95,015 | 4 | 110,102 | 4 | 125,182 | 4 | 140,261 |
| 1/4 | 5,975 | 1/4 | 21,062 | 1/4 | 36,141 | 1/4 | 50,645 | 1/4 | 65,172 | 1/4 | 80,242 | 1/4 | 95,329 | 1/4 | 110,416 | 1/4 | 125,496 | 1/4 | 140,576 |
| 1/2 | 6,289 | 1/2 | 21,376 | 1/2 | 36,449 | 1/2 | 50,948 | 1/2 | 65,480 | 1/2 | 80,556 | 1/2 | 95,643 | 1/2 | 110,730 | 1/2 | 125,810 | 1/2 | 140,890 |
| 3/4 | 6,604 | 3/4 | 21,691 | 3/4 | 36,758 | 3/4 | 51,250 | 3/4 | 65,789 | 3/4 | 80,870 | 3/4 | 95,958 | 3/4 | 111,044 | 3/4 | 126,124 | 3/4 | 141,204 |
| 5 | 6,918 | 5 | 22,005 | 5 | 37,066 | 5 | 51,552 | 5 | 66,097 | 5 | 81,185 | 5 | 96,272 | 5 | 111,358 | 5 | 126,438 | 5 | 141,518 |
| 1/4 | 7,232 | 1/4 | 22,319 | 1/4 | 37,368 | 1/4 | 51,854 | 1/4 | 66,412 | 1/4 | 81,499 | 1/4 | 96,586 | 1/4 | 111,673 | 1/4 | 126,752 | 1/4 | 141,832 |
| 1/2 | 7,547 | 1/2 | 22,634 | 1/2 | 37,671 | 1/2 | 52,157 | 1/2 | 66,726 | 1/2 | 81,813 | 1/2 | 96,901 | 1/2 | 111,987 | 1/2 | 127,067 | 1/2 | 142,146 |
| 3/4 | 7,861 | 3/4 | 22,948 | 3/4 | 37,974 | 3/4 | 52,460 | 3/4 | 67,040 | 3/4 | 82,128 | 3/4 | 97,215 | 3/4 | 112,301 | 3/4 | 127,381 | 3/4 | 142,461 |
| 6 | 8,175 | 6 | 23,262 | 6 | 38,276 | 6 | 52,762 | 6 | 67,355 | 6 | 82,442 | 6 | 97,529 | 6 | 112,615 | 6 | 127,695 | 6 | 142,775 |
| 1/4 | 8,490 | 1/4 | 23,576 | 1/4 | 38,578 | 1/4 | 53,065 | 1/4 | 67,669 | 1/4 | 82,756 | 1/4 | 97,844 | 1/4 | 112,929 | 1/4 | 128,009 | 1/4 | 143,089 |
| 1/2 | 8,804 | 1/2 | 23,891 | 1/2 | 38,880 | 1/2 | 53,367 | 1/2 | 67,983 | 1/2 | 83,071 | 1/2 | 98,158 | 1/2 | 113,243 | 1/2 | 128,323 | 1/2 | 143,403 |
| 3/4 | 9,118 | 3/4 | 24,205 | 3/4 | 39,182 | 3/4 | 53,670 | 3/4 | 68,298 | 3/4 | 83,385 | 3/4 | 98,472 | 3/4 | 113,558 | 3/4 | 128,637 | 3/4 | 143,717 |
| 7 | 9,433 | 7 | 24,519 | 7 | 39,484 | 7 | 53,972 | 7 | 68,612 | 7 | 83,699 | 7 | 98,787 | 7 | 113,872 | 7 | 128,952 | 7 | 144,031 |
| 1/4 | 9,747 | 1/4 | 24,834 | 1/4 | 39,786 | 1/4 | 54,275 | 1/4 | 68,926 | 1/4 | 84,014 | 1/4 | 99,101 | 1/4 | 114,186 | 1/4 | 129,266 | 1/4 | 144,345 |
| 1/2 | 10,061 | 1/2 | 25,148 | 1/2 | 40,088 | 1/2 | 54,577 | 1/2 | 69,240 | 1/2 | 84,328 | 1/2 | 99,415 | 1/2 | 114,500 | 1/2 | 129,580 | 1/2 | 144,660 |
| 3/4 | 10,375 | 3/4 | 25,462 | 3/4 | 40,389 | 3/4 | 54,880 | 3/4 | 69,555 | 3/4 | 84,642 | 3/4 | 99,730 | 3/4 | 114,814 | 3/4 | 129,894 | 3/4 | 144,974 |
| 8 | 10,690 | 8 | 25,777 | 8 | 40,691 | 8 | 55,182 | 8 | 69,869 | 8 | 84,956 | 8 | 100,044 | 8 | 115,128 | 8 | 130,208 | 8 | 145,288 |
| 1/4 | 11,004 | 1/4 | 26,091 | 1/4 | 40,992 | 1/4 | 55,485 | 1/4 | 70,183 | 1/4 | 85,271 | 1/4 | 100,358 | 1/4 | 115,443 | 1/4 | 130,522 | 1/4 | 145,602 |
| 1/2 | 11,318 | 1/2 | 26,405 | 1/2 | 41,294 | 1/2 | 55,787 | 1/2 | 70,498 | 1/2 | 85,585 | 1/2 | 100,672 | 1/2 | 115,757 | 1/2 | 130,837 | 1/2 | 145,916 |
| 3/4 | 11,633 | 3/4 | 26,719 | 3/4 | 41,596 | 3/4 | 56,090 | 3/4 | 70,812 | 3/4 | 85,899 | 3/4 | 100,987 | 3/4 | 116,071 | 3/4 | 131,151 | 3/4 | 146,230 |
| 9 | 11,947 | 9 | 27,034 | 9 | 41,897 | 9 | 56,393 | 9 | 71,126 | 9 | 86,214 | 9 | 101,301 | 9 | 116,385 | 9 | 131,465 | 9 | 146,545 |
| 1/4 | 12,261 | 1/4 | 27,348 | 1/4 | 42,199 | 1/4 | 56,695 | 1/4 | 71,441 | 1/4 | 86,528 | 1/4 | 101,615 | 1/4 | 116,699 | 1/4 | 131,779 | 1/4 | 146,859 |
| 1/2 | 12,576 | 1/2 | 27,662 | 1/2 | 42,500 | 1/2 | 56,998 | 1/2 | 71,755 | 1/2 | 86,842 | 1/2 | 101,930 | 1/2 | 117,013 | 1/2 | 132,093 | 1/2 | 147,173 |
| 3/4 | 12,890 | 3/4 | 27,976 | 3/4 | 42,802 | 3/4 | 57,300 | 3/4 | 72,069 | 3/4 | 87,157 | 3/4 | 102,244 | 3/4 | 117,328 | 3/4 | 132,407 | 3/4 | 147,487 |
| 10 | 13,204 | 10 | 28,290 | 10 | 43,103 | 10 | 57,603 | 10 | 72,384 | 10 | 87,471 | 10 | 102,558 | 10 | 117,642 | 10 | 132,721 | 10 | 147,801 |
| 1/4 | 13,519 | 1/4 | 28,604 | 1/4 | 43,405 | 1/4 | 57,905 | 1/4 | 72,698 | 1/4 | 87,785 | 1/4 | 102,873 | 1/4 | 117,956 | 1/4 | 133,036 | 1/4 | 148,115 |
| 1/2 | 13,833 | 1/2 | 28,918 | 1/2 | 43,707 | 1/2 | 58,208 | 1/2 | 73,012 | 1/2 | 88,100 | 1/2 | 103,187 | 1/2 | 118,270 | 1/2 | 133,350 | 1/2 | 148,430 |
| 3/4 | 14,147 | 3/4 | 29,232 | 3/4 | 44,008 | 3/4 | 58,510 | 3/4 | 73,327 | 3/4 | 88,414 | 3/4 | 103,501 | 3/4 | 118,584 | 3/4 | 133,664 | 3/4 | 148,744 |
| 11 | 14,461 | 11 | 29,546 | 11 | 44,310 | 11 | 58,813 | 11 | 73,641 | 11 | 88,728 | 11 | 103,816 | 11 | 118,898 | 11 | 133,978 | 11 | 149,058 |
| 1/4 | 14,776 | 1/4 | 29,861 | 1/4 | 44,611 | 1/4 | 59,115 | 1/4 | 73,955 | 1/4 | 89,043 | 1/4 | 104,130 | 1/4 | 119,213 | 1/4 | 134,292 | 1/4 | 149,372 |
| 1/2 | 15,090 | 1/2 | 30,175 | 1/2 | 44,913 | 1/2 | 59,418 | 1/2 | 74,270 | 1/2 | 89,357 | 1/2 | 104,444 | 1/2 | 119,527 | 1/2 | 134,606 | 1/2 | 149,686 |
| 3/4 | 15,404 | 3/4 | 30,489 | 3/4 | 45,215 | 3/4 | 59,720 | 3/4 | 74,584 | 3/4 | 89,671 | 3/4 | 104,759 | 3/4 | 119,841 | 3/4 | 134,921 | 3/4 | 150,000 |

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 THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

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





BARGE "HSM 3001"

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05 1/4"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 150,315 | 0 | 165,394 | 0 | 180,464 | 0 | 195,492 | 0 | 210,424 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 150,629 | 1/4 | 165,709 | 1/4 | 180,777 | 1/4 | 195,805 | 1/4 | 210,704 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 150,943 | 1/2 | 166,023 | 1/2 | 181,090 | 1/2 | 196,118 | 1/2 | 210,984 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 151,257 | 3/4 | 166,337 | 3/4 | 181,403 | 3/4 | 196,431 | 3/4 | 211,264 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 151,571 | 1 | 166,651 | 1 | 181,716 | 1 | 196,744 | 1 | 211,544 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 151,885 | 1/4 | 166,965 | 1/4 | 182,029 | 1/4 | 197,058 | 1/4 | 211,776 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 152,200 | 1/2 | 167,279 | 1/2 | 182,342 | 1/2 | 197,371 | 1/2 | 212,008 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 152,514 | 3/4 | 167,594 | 3/4 | 182,655 | 3/4 | 197,684 | 3/4 | 212,239 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 152,828 | 2 | 167,908 | 2 | 182,968 | 2 | 197,997 | 2 | 212,471 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 153,142 | 1/4 | 168,222 | 1/4 | 183,281 | 1/4 | 198,310 | 1/4 | 212,650 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 153,456 | 1/2 | 168,536 | 1/2 | 183,594 | 1/2 | 198,623 | 1/2 | 212,829 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 153,770 | 3/4 | 168,850 | 3/4 | 183,908 | 3/4 | 198,936 | 3/4 | 213,008 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 154,085 | 3 | 169,164 | 3 | 184,221 | 3 | 199,249 | 3 | 213,187 | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 154,399 | 1/4 | 169,478 | 1/4 | 184,534 | 1/4 | 199,562 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 154,713 | 1/2 | 169,793 | 1/2 | 184,847 | 1/2 | 199,875 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 155,027 | 3/4 | 170,107 | 3/4 | 185,160 | 3/4 | 200,189 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 155,341 | 4 | 170,421 | 4 | 185,473 | 4 | 200,502 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 155,655 | 1/4 | 170,735 | 1/4 | 185,786 | 1/4 | 200,815 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 155,970 | 1/2 | 171,049 | 1/2 | 186,099 | 1/2 | 201,128 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 156,284 | 3/4 | 171,363 | 3/4 | 186,412 | 3/4 | 201,441 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 156,598 | 5 | 171,678 | 5 | 186,725 | 5 | 201,754 | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 156,912 | 1/4 | 171,992 | 1/4 | 187,039 | 1/4 | 202,066 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 157,226 | 1/2 | 172,306 | 1/2 | 187,352 | 1/2 | 202,377 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 157,540 | 3/4 | 172,620 | 3/4 | 187,665 | 3/4 | 202,689 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 157,854 | 6 | 172,934 | 6 | 187,978 | 6 | 203,000 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 158,169 | 1/4 | 173,248 | 1/4 | 188,291 | 1/4 | 203,310 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 158,483 | 1/2 | 173,563 | 1/2 | 188,604 | 1/2 | 203,620 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 158,797 | 3/4 | 173,877 | 3/4 | 188,917 | 3/4 | 203,930 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 159,111 | 7 | 174,191 | 7 | 189,230 | 7 | 204,240 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 159,425 | 1/4 | 174,505 | 1/4 | 189,543 | 1/4 | 204,550 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 159,739 | 1/2 | 174,819 | 1/2 | 189,856 | 1/2 | 204,860 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 160,054 | 3/4 | 175,133 | 3/4 | 190,169 | 3/4 | 205,170 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 160,368 | 8 | 175,448 | 8 | 190,483 | 8 | 205,480 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 160,682 | 1/4 | 175,762 | 1/4 | 190,796 | 1/4 | 205,791 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 160,996 | 1/2 | 176,076 | 1/2 | 191,109 | 1/2 | 206,101 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 161,310 | 3/4 | 176,390 | 3/4 | 191,422 | 3/4 | 206,411 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 161,624 | 9 | 176,704 | 9 | 191,735 | 9 | 206,721 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 161,939 | 1/4 | 177,018 | 1/4 | 192,048 | 1/4 | 207,031 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 162,253 | 1/2 | 177,331 | 1/2 | 192,361 | 1/2 | 207,341 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 162,567 | 3/4 | 177,645 | 3/4 | 192,674 | 3/4 | 207,651 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 162,881 | 10 | 177,959 | 10 | 192,987 | 10 | 207,961 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 163,195 | 1/4 | 178,272 | 1/4 | 193,300 | 1/4 | 208,271 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 163,509 | 1/2 | 178,585 | 1/2 | 193,614 | 1/2 | 208,581 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 163,824 | 3/4 | 178,898 | 3/4 | 193,927 | 3/4 | 208,890 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 164,138 | 11 | 179,211 | 11 | 194,240 | 11 | 209,200 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 164,452 | 1/4 | 179,524 | 1/4 | 194,553 | 1/4 | 209,506 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 164,766 | 1/2 | 179,837 | 1/2 | 194,866 | 1/2 | 209,812 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 165,080 | 3/4 | 180,150 | 3/4 | 195,179 | 3/4 | 210,118 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/13/2016 CL
CALCULATED: 10/13/2016 CL
PRINTED: 10/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2016

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



BARGE "HSM 3001"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05"

| 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 | 1,032 | 0 | 15,695 | 0 | 30,757 | 0 | 45,801 | 0 | 60,850 | 0 | 75,914 | 0 | 90,979 | 0 | 106,043 | 0 | 121,102 | 0 | 136,158 |
| 1/4 | 1,267 | 1/4 | 16,009 | 1/4 | 31,071 | 1/4 | 46,114 | 1/4 | 61,164 | 1/4 | 76,228 | 1/4 | 91,292 | 1/4 | 106,357 | 1/4 | 121,415 | 1/4 | 136,472 |
| 1/2 | 1,502 | 1/2 | 16,323 | 1/2 | 31,385 | 1/2 | 46,427 | 1/2 | 61,478 | 1/2 | 76,542 | 1/2 | 91,606 | 1/2 | 106,670 | 1/2 | 121,729 | 1/2 | 136,786 |
| 3/4 | 1,738 | 3/4 | 16,637 | 3/4 | 31,699 | 3/4 | 46,740 | 3/4 | 61,792 | 3/4 | 76,856 | 3/4 | 91,920 | 3/4 | 106,984 | 3/4 | 122,043 | 3/4 | 137,099 |
| 1 | 1,973 | 1 | 16,951 | 1 | 32,012 | 1 | 47,052 | 1 | 62,105 | 1 | 77,170 | 1 | 92,234 | 1 | 107,298 | 1 | 122,356 | 1 | 137,413 |
| 1/4 | 2,266 | 1/4 | 17,264 | 1/4 | 32,326 | 1/4 | 47,365 | 1/4 | 62,419 | 1/4 | 77,483 | 1/4 | 92,548 | 1/4 | 107,612 | 1/4 | 122,670 | 1/4 | 137,727 |
| 1/2 | 2,560 | 1/2 | 17,578 | 1/2 | 32,640 | 1/2 | 47,678 | 1/2 | 62,733 | 1/2 | 77,797 | 1/2 | 92,862 | 1/2 | 107,926 | 1/2 | 122,984 | 1/2 | 138,040 |
| 3/4 | 2,853 | 3/4 | 17,892 | 3/4 | 32,954 | 3/4 | 47,991 | 3/4 | 63,047 | 3/4 | 78,111 | 3/4 | 93,175 | 3/4 | 108,240 | 3/4 | 123,297 | 3/4 | 138,354 |
| 2 | 3,147 | 2 | 18,206 | 2 | 33,268 | 2 | 48,304 | 2 | 63,361 | 2 | 78,425 | 2 | 93,489 | 2 | 108,553 | 2 | 123,611 | 2 | 138,668 |
| 1/4 | 3,460 | 1/4 | 18,520 | 1/4 | 33,582 | 1/4 | 48,617 | 1/4 | 63,675 | 1/4 | 78,739 | 1/4 | 93,803 | 1/4 | 108,867 | 1/4 | 123,925 | 1/4 | 138,981 |
| 1/2 | 3,772 | 1/2 | 18,834 | 1/2 | 33,895 | 1/2 | 48,930 | 1/2 | 63,988 | 1/2 | 79,053 | 1/2 | 94,117 | 1/2 | 109,181 | 1/2 | 124,238 | 1/2 | 139,295 |
| 3/4 | 4,085 | 3/4 | 19,147 | 3/4 | 34,209 | 3/4 | 49,243 | 3/4 | 64,302 | 3/4 | 79,367 | 3/4 | 94,431 | 3/4 | 109,495 | 3/4 | 124,552 | 3/4 | 139,609 |
| 3 | 4,398 | 3 | 19,461 | 3 | 34,523 | 3 | 49,556 | 3 | 64,616 | 3 | 79,680 | 3 | 94,745 | 3 | 109,809 | 3 | 124,866 | 3 | 139,922 |
| 1/4 | 4,712 | 1/4 | 19,775 | 1/4 | 34,837 | 1/4 | 49,869 | 1/4 | 64,930 | 1/4 | 79,994 | 1/4 | 95,058 | 1/4 | 110,123 | 1/4 | 125,179 | 1/4 | 140,236 |
| 1/2 | 5,025 | 1/2 | 20,089 | 1/2 | 35,151 | 1/2 | 50,182 | 1/2 | 65,244 | 1/2 | 80,308 | 1/2 | 95,372 | 1/2 | 110,436 | 1/2 | 125,493 | 1/2 | 140,550 |
| 3/4 | 5,339 | 3/4 | 20,403 | 3/4 | 35,465 | 3/4 | 50,496 | 3/4 | 65,558 | 3/4 | 80,622 | 3/4 | 95,686 | 3/4 | 110,750 | 3/4 | 125,807 | 3/4 | 140,863 |
| 4 | 5,653 | 4 | 20,717 | 4 | 35,778 | 4 | 50,809 | 4 | 65,871 | 4 | 80,936 | 4 | 96,000 | 4 | 111,064 | 4 | 126,120 | 4 | 141,177 |
| 1/4 | 5,966 | 1/4 | 21,030 | 1/4 | 36,092 | 1/4 | 51,122 | 1/4 | 66,185 | 1/4 | 81,250 | 1/4 | 96,314 | 1/4 | 111,378 | 1/4 | 126,434 | 1/4 | 141,491 |
| 1/2 | 6,280 | 1/2 | 21,344 | 1/2 | 36,406 | 1/2 | 51,436 | 1/2 | 66,499 | 1/2 | 81,563 | 1/2 | 96,628 | 1/2 | 111,691 | 1/2 | 126,748 | 1/2 | 141,805 |
| 3/4 | 6,594 | 3/4 | 21,658 | 3/4 | 36,720 | 3/4 | 51,749 | 3/4 | 66,813 | 3/4 | 81,877 | 3/4 | 96,941 | 3/4 | 112,005 | 3/4 | 127,062 | 3/4 | 142,118 |
| 5 | 6,908 | 5 | 21,972 | 5 | 37,034 | 5 | 52,063 | 5 | 67,127 | 5 | 82,191 | 5 | 97,255 | 5 | 112,319 | 5 | 127,375 | 5 | 142,432 |
| 1/4 | 7,222 | 1/4 | 22,286 | 1/4 | 37,348 | 1/4 | 52,376 | 1/4 | 67,441 | 1/4 | 82,505 | 1/4 | 97,569 | 1/4 | 112,632 | 1/4 | 127,689 | 1/4 | 142,746 |
| 1/2 | 7,535 | 1/2 | 22,600 | 1/2 | 37,661 | 1/2 | 52,690 | 1/2 | 67,755 | 1/2 | 82,819 | 1/2 | 97,883 | 1/2 | 112,946 | 1/2 | 128,003 | 1/2 | 143,059 |
| 3/4 | 7,849 | 3/4 | 22,913 | 3/4 | 37,975 | 3/4 | 53,004 | 3/4 | 68,068 | 3/4 | 83,133 | 3/4 | 98,197 | 3/4 | 113,260 | 3/4 | 128,316 | 3/4 | 143,373 |
| 6 | 8,163 | 6 | 23,227 | 6 | 38,289 | 6 | 53,318 | 6 | 68,382 | 6 | 83,446 | 6 | 98,511 | 6 | 113,573 | 6 | 128,630 | 6 | 143,687 |
| 1/4 | 8,477 | 1/4 | 23,541 | 1/4 | 38,603 | 1/4 | 53,632 | 1/4 | 68,696 | 1/4 | 83,760 | 1/4 | 98,824 | 1/4 | 113,887 | 1/4 | 128,944 | 1/4 | 144,000 |
| 1/2 | 8,791 | 1/2 | 23,855 | 1/2 | 38,916 | 1/2 | 53,946 | 1/2 | 69,010 | 1/2 | 84,074 | 1/2 | 99,138 | 1/2 | 114,201 | 1/2 | 129,257 | 1/2 | 144,314 |
| 3/4 | 9,105 | 3/4 | 24,169 | 3/4 | 39,229 | 3/4 | 54,259 | 3/4 | 69,324 | 3/4 | 84,388 | 3/4 | 99,452 | 3/4 | 114,514 | 3/4 | 129,571 | 3/4 | 144,628 |
| 7 | 9,418 | 7 | 24,483 | 7 | 39,543 | 7 | 54,573 | 7 | 69,638 | 7 | 84,702 | 7 | 99,766 | 7 | 114,828 | 7 | 129,885 | 7 | 144,941 |
| 1/4 | 9,732 | 1/4 | 24,796 | 1/4 | 39,856 | 1/4 | 54,887 | 1/4 | 69,951 | 1/4 | 85,016 | 1/4 | 100,080 | 1/4 | 115,142 | 1/4 | 130,198 | 1/4 | 145,255 |
| 1/2 | 10,046 | 1/2 | 25,110 | 1/2 | 40,168 | 1/2 | 55,201 | 1/2 | 70,265 | 1/2 | 85,329 | 1/2 | 100,394 | 1/2 | 115,455 | 1/2 | 130,512 | 1/2 | 145,569 |
| 3/4 | 10,360 | 3/4 | 25,424 | 3/4 | 40,481 | 3/4 | 55,515 | 3/4 | 70,579 | 3/4 | 85,643 | 3/4 | 100,708 | 3/4 | 115,769 | 3/4 | 130,826 | 3/4 | 145,882 |
| 8 | 10,674 | 8 | 25,738 | 8 | 40,794 | 8 | 55,829 | 8 | 70,893 | 8 | 85,957 | 8 | 101,021 | 8 | 116,083 | 8 | 131,139 | 8 | 146,196 |
| 1/4 | 10,988 | 1/4 | 26,052 | 1/4 | 41,107 | 1/4 | 56,143 | 1/4 | 71,207 | 1/4 | 86,271 | 1/4 | 101,335 | 1/4 | 116,396 | 1/4 | 131,453 | 1/4 | 146,510 |
| 1/2 | 11,301 | 1/2 | 26,365 | 1/2 | 41,420 | 1/2 | 56,456 | 1/2 | 71,521 | 1/2 | 86,585 | 1/2 | 101,649 | 1/2 | 116,710 | 1/2 | 131,767 | 1/2 | 146,823 |
| 3/4 | 11,615 | 3/4 | 26,679 | 3/4 | 41,733 | 3/4 | 56,770 | 3/4 | 71,834 | 3/4 | 86,899 | 3/4 | 101,963 | 3/4 | 117,024 | 3/4 | 132,080 | 3/4 | 147,137 |
| 9 | 11,929 | 9 | 26,993 | 9 | 42,046 | 9 | 57,084 | 9 | 72,148 | 9 | 87,212 | 9 | 102,277 | 9 | 117,337 | 9 | 132,394 | 9 | 147,451 |
| 1/4 | 12,243 | 1/4 | 27,307 | 1/4 | 42,359 | 1/4 | 57,398 | 1/4 | 72,462 | 1/4 | 87,526 | 1/4 | 102,591 | 1/4 | 117,651 | 1/4 | 132,708 | 1/4 | 147,764 |
| 1/2 | 12,557 | 1/2 | 27,620 | 1/2 | 42,672 | 1/2 | 57,712 | 1/2 | 72,776 | 1/2 | 87,840 | 1/2 | 102,904 | 1/2 | 117,965 | 1/2 | 133,021 | 1/2 | 148,078 |
| 3/4 | 12,871 | 3/4 | 27,934 | 3/4 | 42,985 | 3/4 | 58,026 | 3/4 | 73,090 | 3/4 | 88,154 | 3/4 | 103,218 | 3/4 | 118,278 | 3/4 | 133,335 | 3/4 | 148,392 |
| 10 | 13,184 | 10 | 28,248 | 10 | 43,298 | 10 | 58,339 | 10 | 73,404 | 10 | 88,468 | 10 | 103,532 | 10 | 118,592 | 10 | 133,649 | 10 | 148,705 |
| 1/4 | 13,498 | 1/4 | 28,561 | 1/4 | 43,610 | 1/4 | 58,653 | 1/4 | 73,717 | 1/4 | 88,782 | 1/4 | 103,846 | 1/4 | 118,906 | 1/4 | 133,963 | 1/4 | 149,019 |
| 1/2 | 13,812 | 1/2 | 28,875 | 1/2 | 43,923 | 1/2 | 58,967 | 1/2 | 74,031 | 1/2 | 89,095 | 1/2 | 104,160 | 1/2 | 119,220 | 1/2 | 134,276 | 1/2 | 149,333 |
| 3/4 | 14,126 | 3/4 | 29,188 | 3/4 | 44,236 | 3/4 | 59,281 | 3/4 | 74,345 | 3/4 | 89,409 | 3/4 | 104,474 | 3/4 | 119,533 | 3/4 | 134,590 | 3/4 | 149,647 |
| 11 | 14,440 | 11 | 29,502 | 11 | 44,549 | 11 | 59,595 | 11 | 74,659 | 11 | 89,723 | 11 | 104,787 | 11 | 119,847 | 11 | 134,904 | 11 | 149,960 |
| 1/4 | 14,754 | 1/4 | 29,816 | 1/4 | 44,862 | 1/4 | 59,909 | 1/4 | 74,973 | 1/4 | 90,037 | 1/4 | 105,101 | 1/4 | 120,161 | 1/4 | 135,217 | 1/4 | 150,274 |
| 1/2 | 15,068 | 1/2 | 30,130 | 1/2 | 45,175 | 1/2 | 60,222 | 1/2 | 75,287 | 1/2 | 90,351 | 1/2 | 105,415 | 1/2 | 120,474 | 1/2 | 135,531 | 1/2 | 150,588 |
| 3/4 | 15,381 | 3/4 | 30,443 | 3/4 | 45,488 | 3/4 | 60,536 | 3/4 | 75,600 | 3/4 | 90,665 | 3/4 | 105,729 | 3/4 | 120,788 | 3/4 | 135,845 | 3/4 | 150,901 |

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 THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-09" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 3001"

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05"

| 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 | 151,215 | 0 | 166,272 | 0 | 181,318 | 0 | 196,323 | 0 | 211,232 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 151,529 | 1/4 | 166,585 | 1/4 | 181,630 | 1/4 | 196,636 | 1/4 | 211,512 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 151,842 | 1/2 | 166,899 | 1/2 | 181,943 | 1/2 | 196,948 | 1/2 | 211,791 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 152,156 | 3/4 | 167,213 | 3/4 | 182,255 | 3/4 | 197,261 | 3/4 | 212,071 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 152,470 | 1 | 167,526 | 1 | 182,568 | 1 | 197,574 | 1 | 212,351 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 152,783 | 1/4 | 167,840 | 1/4 | 182,881 | 1/4 | 197,886 | 1/4 | 212,582 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 153,097 | 1/2 | 168,154 | 1/2 | 183,193 | 1/2 | 198,199 | 1/2 | 212,813 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 153,411 | 3/4 | 168,467 | 3/4 | 183,506 | 3/4 | 198,511 | 3/4 | 213,045 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 153,724 | 2 | 168,781 | 2 | 183,819 | 2 | 198,824 | 2 | 213,276 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 154,038 | 1/4 | 169,095 | 1/4 | 184,131 | 1/4 | 199,137 | 1/4 | 213,455 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 154,352 | 1/2 | 169,408 | 1/2 | 184,444 | 1/2 | 199,449 | 1/2 | 213,634 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 154,665 | 3/4 | 169,722 | 3/4 | 184,756 | 3/4 | 199,762 | 3/4 | 213,813 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 154,979 | 3 | 170,036 | 3 | 185,069 | 3 | 200,075 | 3 | 213,991 | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 155,293 | 1/4 | 170,349 | 1/4 | 185,382 | 1/4 | 200,387 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 155,606 | 1/2 | 170,663 | 1/2 | 185,694 | 1/2 | 200,700 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 155,920 | 3/4 | 170,977 | 3/4 | 186,007 | 3/4 | 201,012 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 156,234 | 4 | 171,290 | 4 | 186,319 | 4 | 201,325 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 156,548 | 1/4 | 171,604 | 1/4 | 186,632 | 1/4 | 201,638 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 156,861 | 1/2 | 171,918 | 1/2 | 186,945 | 1/2 | 201,950 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 157,175 | 3/4 | 172,232 | 3/4 | 187,257 | 3/4 | 202,263 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 157,489 | 5 | 172,545 | 5 | 187,570 | 5 | 202,576 | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 157,802 | 1/4 | 172,859 | 1/4 | 187,883 | 1/4 | 202,887 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 158,116 | 1/2 | 173,173 | 1/2 | 188,195 | 1/2 | 203,198 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 158,430 | 3/4 | 173,486 | 3/4 | 188,508 | 3/4 | 203,509 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 158,743 | 6 | 173,800 | 6 | 188,820 | 6 | 203,820 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 159,057 | 1/4 | 174,114 | 1/4 | 189,133 | 1/4 | 204,129 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 159,371 | 1/2 | 174,427 | 1/2 | 189,446 | 1/2 | 204,439 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 159,684 | 3/4 | 174,741 | 3/4 | 189,758 | 3/4 | 204,748 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 159,998 | 7 | 175,055 | 7 | 190,071 | 7 | 205,058 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 160,312 | 1/4 | 175,368 | 1/4 | 190,383 | 1/4 | 205,367 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 160,625 | 1/2 | 175,682 | 1/2 | 190,696 | 1/2 | 205,677 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 160,939 | 3/4 | 175,996 | 3/4 | 191,009 | 3/4 | 205,987 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 161,253 | 8 | 176,309 | 8 | 191,321 | 8 | 206,296 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 161,566 | 1/4 | 176,623 | 1/4 | 191,634 | 1/4 | 206,606 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 161,880 | 1/2 | 176,937 | 1/2 | 191,947 | 1/2 | 206,916 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 162,194 | 3/4 | 177,250 | 3/4 | 192,259 | 3/4 | 207,225 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 162,507 | 9 | 177,564 | 9 | 192,572 | 9 | 207,535 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 162,821 | 1/4 | 177,877 | 1/4 | 192,884 | 1/4 | 207,845 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 163,135 | 1/2 | 178,190 | 1/2 | 193,197 | 1/2 | 208,154 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 163,448 | 3/4 | 178,504 | 3/4 | 193,510 | 3/4 | 208,464 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 163,762 | 10 | 178,817 | 10 | 193,822 | 10 | 208,773 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 164,076 | 1/4 | 179,129 | 1/4 | 194,135 | 1/4 | 209,083 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 164,390 | 1/2 | 179,442 | 1/2 | 194,447 | 1/2 | 209,392 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 164,703 | 3/4 | 179,755 | 3/4 | 194,760 | 3/4 | 209,701 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 165,017 | 11 | 180,067 | 11 | 195,073 | 11 | 210,010 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 165,331 | 1/4 | 180,380 | 1/4 | 195,385 | 1/4 | 210,316 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 165,644 | 1/2 | 180,692 | 1/2 | 195,698 | 1/2 | 210,621 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 165,958 | 3/4 | 181,005 | 3/4 | 196,011 | 3/4 | 210,926 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/13/2016 CL
CALCULATED: 10/13/2016 CL
PRINTED: 10/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2016

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



BARGE "HSM 3001"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05"

| 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 | 1,028 | 0 | 15,632 | 0 | 30,620 | 0 | 45,379 | 0 | 59,936 | 0 | 74,845 | 0 | 89,810 | 0 | 104,787 | 0 | 119,754 | 0 | 134,718 |
| 1/4 | 1,263 | 1/4 | 15,945 | 1/4 | 30,932 | 1/4 | 45,681 | 1/4 | 60,247 | 1/4 | 75,155 | 1/4 | 90,122 | 1/4 | 105,099 | 1/4 | 120,066 | 1/4 | 135,030 |
| 1/2 | 1,497 | 1/2 | 16,257 | 1/2 | 31,245 | 1/2 | 45,983 | 1/2 | 60,559 | 1/2 | 75,465 | 1/2 | 90,434 | 1/2 | 105,411 | 1/2 | 120,378 | 1/2 | 135,342 |
| 3/4 | 1,732 | 3/4 | 16,569 | 3/4 | 31,557 | 3/4 | 46,284 | 3/4 | 60,871 | 3/4 | 75,775 | 3/4 | 90,746 | 3/4 | 105,724 | 3/4 | 120,690 | 3/4 | 135,653 |
| 1 | 1,966 | 1 | 16,881 | 1 | 31,869 | 1 | 46,586 | 1 | 61,183 | 1 | 76,086 | 1 | 91,058 | 1 | 106,036 | 1 | 121,001 | 1 | 135,965 |
| 1/4 | 2,259 | 1/4 | 17,194 | 1/4 | 32,182 | 1/4 | 46,888 | 1/4 | 61,495 | 1/4 | 76,396 | 1/4 | 91,369 | 1/4 | 106,348 | 1/4 | 121,313 | 1/4 | 136,277 |
| 1/2 | 2,551 | 1/2 | 17,506 | 1/2 | 32,494 | 1/2 | 47,190 | 1/2 | 61,807 | 1/2 | 76,706 | 1/2 | 91,681 | 1/2 | 106,660 | 1/2 | 121,625 | 1/2 | 136,589 |
| 3/4 | 2,844 | 3/4 | 17,818 | 3/4 | 32,806 | 3/4 | 47,492 | 3/4 | 62,119 | 3/4 | 77,016 | 3/4 | 91,993 | 3/4 | 106,972 | 3/4 | 121,937 | 3/4 | 136,900 |
| 2 | 3,136 | 2 | 18,131 | 2 | 33,118 | 2 | 47,794 | 2 | 62,431 | 2 | 77,327 | 2 | 92,305 | 2 | 107,284 | 2 | 122,248 | 2 | 137,212 |
| 1/4 | 3,448 | 1/4 | 18,443 | 1/4 | 33,431 | 1/4 | 48,096 | 1/4 | 62,742 | 1/4 | 77,638 | 1/4 | 92,617 | 1/4 | 107,596 | 1/4 | 122,560 | 1/4 | 137,524 |
| 1/2 | 3,760 | 1/2 | 18,755 | 1/2 | 33,743 | 1/2 | 48,399 | 1/2 | 63,053 | 1/2 | 77,949 | 1/2 | 92,929 | 1/2 | 107,908 | 1/2 | 122,872 | 1/2 | 137,836 |
| 3/4 | 4,071 | 3/4 | 19,067 | 3/4 | 34,055 | 3/4 | 48,701 | 3/4 | 63,364 | 3/4 | 78,260 | 3/4 | 93,241 | 3/4 | 108,219 | 3/4 | 123,183 | 3/4 | 138,147 |
| 3 | 4,383 | 3 | 19,380 | 3 | 34,368 | 3 | 49,004 | 3 | 63,675 | 3 | 78,572 | 3 | 93,553 | 3 | 108,531 | 3 | 123,495 | 3 | 138,459 |
| 1/4 | 4,696 | 1/4 | 19,692 | 1/4 | 34,679 | 1/4 | 49,306 | 1/4 | 63,985 | 1/4 | 78,884 | 1/4 | 93,865 | 1/4 | 108,843 | 1/4 | 123,807 | 1/4 | 138,771 |
| 1/2 | 5,008 | 1/2 | 20,004 | 1/2 | 34,991 | 1/2 | 49,609 | 1/2 | 64,296 | 1/2 | 79,196 | 1/2 | 94,177 | 1/2 | 109,155 | 1/2 | 124,119 | 1/2 | 139,083 |
| 3/4 | 5,321 | 3/4 | 20,317 | 3/4 | 35,303 | 3/4 | 49,911 | 3/4 | 64,606 | 3/4 | 79,508 | 3/4 | 94,489 | 3/4 | 109,467 | 3/4 | 124,430 | 3/4 | 139,394 |
| 4 | 5,633 | 4 | 20,629 | 4 | 35,615 | 4 | 50,213 | 4 | 64,916 | 4 | 79,821 | 4 | 94,800 | 4 | 109,778 | 4 | 124,742 | 4 | 139,706 |
| 1/4 | 5,945 | 1/4 | 20,941 | 1/4 | 35,923 | 1/4 | 50,516 | 1/4 | 65,227 | 1/4 | 80,133 | 1/4 | 95,112 | 1/4 | 110,090 | 1/4 | 125,054 | 1/4 | 140,018 |
| 1/2 | 6,258 | 1/2 | 21,253 | 1/2 | 36,231 | 1/2 | 50,818 | 1/2 | 65,537 | 1/2 | 80,445 | 1/2 | 95,424 | 1/2 | 110,402 | 1/2 | 125,366 | 1/2 | 140,329 |
| 3/4 | 6,570 | 3/4 | 21,566 | 3/4 | 36,539 | 3/4 | 51,121 | 3/4 | 65,847 | 3/4 | 80,757 | 3/4 | 95,736 | 3/4 | 110,714 | 3/4 | 125,677 | 3/4 | 140,641 |
| 5 | 6,883 | 5 | 21,878 | 5 | 36,847 | 5 | 51,423 | 5 | 66,157 | 5 | 81,069 | 5 | 96,048 | 5 | 111,025 | 5 | 125,989 | 5 | 140,953 |
| 1/4 | 7,195 | 1/4 | 22,190 | 1/4 | 37,152 | 1/4 | 51,726 | 1/4 | 66,468 | 1/4 | 81,382 | 1/4 | 96,360 | 1/4 | 111,337 | 1/4 | 126,301 | 1/4 | 141,264 |
| 1/2 | 7,508 | 1/2 | 22,503 | 1/2 | 37,457 | 1/2 | 52,028 | 1/2 | 66,778 | 1/2 | 81,694 | 1/2 | 96,672 | 1/2 | 111,649 | 1/2 | 126,613 | 1/2 | 141,576 |
| 3/4 | 7,820 | 3/4 | 22,815 | 3/4 | 37,762 | 3/4 | 52,330 | 3/4 | 67,088 | 3/4 | 82,006 | 3/4 | 96,984 | 3/4 | 111,961 | 3/4 | 126,924 | 3/4 | 141,887 |
| 6 | 8,133 | 6 | 23,127 | 6 | 38,067 | 6 | 52,633 | 6 | 67,398 | 6 | 82,318 | 6 | 97,296 | 6 | 112,272 | 6 | 127,236 | 6 | 142,199 |
| 1/4 | 8,446 | 1/4 | 23,439 | 1/4 | 38,372 | 1/4 | 52,935 | 1/4 | 67,709 | 1/4 | 82,631 | 1/4 | 97,608 | 1/4 | 112,584 | 1/4 | 127,548 | 1/4 | 142,506 |
| 1/2 | 8,758 | 1/2 | 23,752 | 1/2 | 38,677 | 1/2 | 53,238 | 1/2 | 68,019 | 1/2 | 82,943 | 1/2 | 97,920 | 1/2 | 112,896 | 1/2 | 127,860 | 1/2 | 142,813 |
| 3/4 | 9,071 | 3/4 | 24,064 | 3/4 | 38,982 | 3/4 | 53,540 | 3/4 | 68,329 | 3/4 | 83,255 | 3/4 | 98,232 | 3/4 | 113,208 | 3/4 | 128,171 | 3/4 | 143,120 |
| 7 | 9,384 | 7 | 24,376 | 7 | 39,287 | 7 | 53,843 | 7 | 68,639 | 7 | 83,567 | 7 | 98,544 | 7 | 113,519 | 7 | 128,483 | 7 | 143,427 |
| 1/4 | 9,696 | 1/4 | 24,689 | 1/4 | 39,592 | 1/4 | 54,145 | 1/4 | 68,950 | 1/4 | 83,880 | 1/4 | 98,856 | 1/4 | 113,831 | 1/4 | 128,795 | 1/4 | 143,721 |
| 1/2 | 10,009 | 1/2 | 25,001 | 1/2 | 39,897 | 1/2 | 54,447 | 1/2 | 69,260 | 1/2 | 84,192 | 1/2 | 99,168 | 1/2 | 114,143 | 1/2 | 129,107 | 1/2 | 144,016 |
| 3/4 | 10,322 | 3/4 | 25,313 | 3/4 | 40,202 | 3/4 | 54,750 | 3/4 | 69,570 | 3/4 | 84,504 | 3/4 | 99,480 | 3/4 | 114,455 | 3/4 | 129,418 | 3/4 | 144,311 |
| 8 | 10,635 | 8 | 25,626 | 8 | 40,507 | 8 | 55,052 | 8 | 69,880 | 8 | 84,816 | 8 | 99,793 | 8 | 114,766 | 8 | 129,730 | 8 | 144,605 |
| 1/4 | 10,947 | 1/4 | 25,938 | 1/4 | 40,812 | 1/4 | 55,355 | 1/4 | 70,191 | 1/4 | 85,128 | 1/4 | 100,105 | 1/4 | 115,078 | 1/4 | 130,042 | 1/4 | 144,884 |
| 1/2 | 11,260 | 1/2 | 26,250 | 1/2 | 41,117 | 1/2 | 55,657 | 1/2 | 70,501 | 1/2 | 85,441 | 1/2 | 100,417 | 1/2 | 115,390 | 1/2 | 130,354 | 1/2 | 145,162 |
| 3/4 | 11,572 | 3/4 | 26,562 | 3/4 | 41,422 | 3/4 | 55,960 | 3/4 | 70,811 | 3/4 | 85,753 | 3/4 | 100,729 | 3/4 | 115,702 | 3/4 | 130,665 | 3/4 | 145,441 |
| 9 | 11,885 | 9 | 26,874 | 9 | 41,726 | 9 | 56,262 | 9 | 71,121 | 9 | 86,065 | 9 | 101,041 | 9 | 116,013 | 9 | 130,977 | 9 | 145,719 |
| 1/4 | 12,197 | 1/4 | 27,187 | 1/4 | 42,031 | 1/4 | 56,566 | 1/4 | 71,432 | 1/4 | 86,377 | 1/4 | 101,353 | 1/4 | 116,325 | 1/4 | 131,289 | 1/4 | 145,982 |
| 1/2 | 12,509 | 1/2 | 27,499 | 1/2 | 42,336 | 1/2 | 56,870 | 1/2 | 71,742 | 1/2 | 86,690 | 1/2 | 101,665 | 1/2 | 116,637 | 1/2 | 131,601 | 1/2 | 146,245 |
| 3/4 | 12,822 | 3/4 | 27,811 | 3/4 | 42,641 | 3/4 | 57,174 | 3/4 | 72,052 | 3/4 | 87,002 | 3/4 | 101,978 | 3/4 | 116,949 | 3/4 | 131,912 | 3/4 | 146,508 |
| 10 | 13,134 | 10 | 28,123 | 10 | 42,946 | 10 | 57,478 | 10 | 72,363 | 10 | 87,314 | 10 | 102,290 | 10 | 117,260 | 10 | 132,224 | 10 | 146,771 |
| 1/4 | 13,446 | 1/4 | 28,435 | 1/4 | 43,251 | 1/4 | 57,784 | 1/4 | 72,673 | 1/4 | 87,626 | 1/4 | 102,602 | 1/4 | 117,572 | 1/4 | 132,536 | 1/4 | 147,018 |
| 1/2 | 13,759 | 1/2 | 28,747 | 1/2 | 43,556 | 1/2 | 58,089 | 1/2 | 72,983 | 1/2 | 87,938 | 1/2 | 102,914 | 1/2 | 117,884 | 1/2 | 132,848 | 1/2 | 147,265 |
| 3/4 | 14,071 | 3/4 | 29,059 | 3/4 | 43,861 | 3/4 | 58,395 | 3/4 | 73,293 | 3/4 | 88,250 | 3/4 | 103,226 | 3/4 | 118,196 | 3/4 | 133,159 | 3/4 | 147,513 |
| 11 | 14,383 | 11 | 29,371 | 11 | 44,166 | 11 | 58,700 | 11 | 73,604 | 11 | 88,562 | 11 | 103,538 | 11 | 118,507 | 11 | 133,471 | 11 | 147,760 |
| 1/4 | 14,695 | 1/4 | 29,684 | 1/4 | 44,469 | 1/4 | 59,009 | 1/4 | 73,914 | 1/4 | 88,874 | 1/4 | 103,851 | 1/4 | 118,819 | 1/4 | 133,783 | 1/4 | 147,991 |
| 1/2 | 15,008 | 1/2 | 29,996 | 1/2 | 44,773 | 1/2 | 59,318 | 1/2 | 74,224 | 1/2 | 89,186 | 1/2 | 104,163 | 1/2 | 119,131 | 1/2 | 134,095 | 1/2 | 148,222 |
| 3/4 | 15,320 | 3/4 | 30,308 | 3/4 | 45,076 | 3/4 | 59,627 | 3/4 | 74,534 | 3/4 | 89,498 | 3/4 | 104,475 | 3/4 | 119,443 | 3/4 | 134,406 | 3/4 | 148,453 |

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 THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

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





BARGE "HSM 3001"

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05"

| 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 | 148,684 | 0 | 159,065 | 0 | 169,425 | 0 | 179,756 | 0 | 190,072 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 148,904 | 1/4 | 159,281 | 1/4 | 169,640 | 1/4 | 179,971 | 1/4 | 190,265 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 149,123 | 1/2 | 159,497 | 1/2 | 169,855 | 1/2 | 180,186 | 1/2 | 190,458 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 149,343 | 3/4 | 159,713 | 3/4 | 170,071 | 3/4 | 180,401 | 3/4 | 190,651 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 149,562 | 1 | 159,929 | 1 | 170,286 | 1 | 180,617 | 1 | 190,844 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 149,778 | 1/4 | 160,145 | 1/4 | 170,501 | 1/4 | 180,832 | 1/4 | 191,004 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 149,994 | 1/2 | 160,361 | 1/2 | 170,716 | 1/2 | 181,047 | 1/2 | 191,163 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 150,210 | 3/4 | 160,577 | 3/4 | 170,932 | 3/4 | 181,262 | 3/4 | 191,323 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 150,426 | 2 | 160,793 | 2 | 171,147 | 2 | 181,478 | 2 | 191,483 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 150,642 | 1/4 | 161,009 | 1/4 | 171,362 | 1/4 | 181,693 | 1/4 | 191,606 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 150,858 | 1/2 | 161,225 | 1/2 | 171,577 | 1/2 | 181,908 | 1/2 | 191,730 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 151,074 | 3/4 | 161,441 | 3/4 | 171,792 | 3/4 | 182,123 | 3/4 | 191,854 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 151,290 | 3 | 161,657 | 3 | 172,008 | 3 | 182,338 | 3 | 191,977 | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 151,506 | 1/4 | 161,873 | 1/4 | 172,223 | 1/4 | 182,554 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 151,722 | 1/2 | 162,089 | 1/2 | 172,438 | 1/2 | 182,769 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 151,938 | 3/4 | 162,305 | 3/4 | 172,653 | 3/4 | 182,984 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 152,154 | 4 | 162,521 | 4 | 172,869 | 4 | 183,199 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 152,370 | 1/4 | 162,737 | 1/4 | 173,084 | 1/4 | 183,415 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 152,586 | 1/2 | 162,953 | 1/2 | 173,299 | 1/2 | 183,630 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 152,802 | 3/4 | 163,169 | 3/4 | 173,514 | 3/4 | 183,845 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 153,018 | 5 | 163,385 | 5 | 173,729 | 5 | 184,060 | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 153,234 | 1/4 | 163,601 | 1/4 | 173,945 | 1/4 | 184,275 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 153,450 | 1/2 | 163,817 | 1/2 | 174,160 | 1/2 | 184,491 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 153,666 | 3/4 | 164,033 | 3/4 | 174,375 | 3/4 | 184,706 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 153,882 | 6 | 164,249 | 6 | 174,590 | 6 | 184,921 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 154,098 | 1/4 | 164,465 | 1/4 | 174,806 | 1/4 | 185,136 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 154,314 | 1/2 | 164,681 | 1/2 | 175,021 | 1/2 | 185,352 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 154,530 | 3/4 | 164,897 | 3/4 | 175,236 | 3/4 | 185,567 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 154,746 | 7 | 165,113 | 7 | 175,451 | 7 | 185,782 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 154,962 | 1/4 | 165,329 | 1/4 | 175,666 | 1/4 | 185,997 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 155,178 | 1/2 | 165,545 | 1/2 | 175,882 | 1/2 | 186,213 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 155,394 | 3/4 | 165,761 | 3/4 | 176,097 | 3/4 | 186,428 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 155,610 | 8 | 165,977 | 8 | 176,312 | 8 | 186,643 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 155,826 | 1/4 | 166,193 | 1/4 | 176,527 | 1/4 | 186,858 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 156,042 | 1/2 | 166,409 | 1/2 | 176,743 | 1/2 | 187,074 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 156,258 | 3/4 | 166,625 | 3/4 | 176,958 | 3/4 | 187,289 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 156,474 | 9 | 166,841 | 9 | 177,173 | 9 | 187,504 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 156,690 | 1/4 | 167,056 | 1/4 | 177,388 | 1/4 | 187,720 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 156,906 | 1/2 | 167,272 | 1/2 | 177,603 | 1/2 | 187,935 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 157,121 | 3/4 | 167,488 | 3/4 | 177,819 | 3/4 | 188,150 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 157,337 | 10 | 167,703 | 10 | 178,034 | 10 | 188,366 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 157,553 | 1/4 | 167,918 | 1/4 | 178,249 | 1/4 | 188,581 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 157,769 | 1/2 | 168,134 | 1/2 | 178,464 | 1/2 | 188,796 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 157,985 | 3/4 | 168,349 | 3/4 | 178,680 | 3/4 | 189,011 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 158,201 | 11 | 168,564 | 11 | 178,895 | 11 | 189,225 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 158,417 | 1/4 | 168,779 | 1/4 | 179,110 | 1/4 | 189,437 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 158,633 | 1/2 | 168,995 | 1/2 | 179,325 | 1/2 | 189,649 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 158,849 | 3/4 | 169,210 | 3/4 | 179,541 | 3/4 | 189,860 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/13/2016 CL
CALCULATED: 10/13/2016 CL
PRINTED: 10/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2016

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



BARGE "HSM 3001"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05"

| 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 | 1,028 | 0 | 15,632 | 0 | 30,620 | 0 | 45,379 | 0 | 59,936 | 0 | 74,845 | 0 | 89,810 | 0 | 104,787 | 0 | 119,754 | 0 | 134,718 |
| 1/4 | 1,263 | 1/4 | 15,945 | 1/4 | 30,932 | 1/4 | 45,681 | 1/4 | 60,247 | 1/4 | 75,155 | 1/4 | 90,122 | 1/4 | 105,099 | 1/4 | 120,066 | 1/4 | 135,030 |
| 1/2 | 1,497 | 1/2 | 16,257 | 1/2 | 31,245 | 1/2 | 45,983 | 1/2 | 60,559 | 1/2 | 75,465 | 1/2 | 90,434 | 1/2 | 105,411 | 1/2 | 120,378 | 1/2 | 135,342 |
| 3/4 | 1,732 | 3/4 | 16,569 | 3/4 | 31,557 | 3/4 | 46,284 | 3/4 | 60,871 | 3/4 | 75,775 | 3/4 | 90,746 | 3/4 | 105,724 | 3/4 | 120,690 | 3/4 | 135,653 |
| 1 | 1,966 | 1 | 16,881 | 1 | 31,869 | 1 | 46,586 | 1 | 61,183 | 1 | 76,086 | 1 | 91,058 | 1 | 106,036 | 1 | 121,001 | 1 | 135,965 |
| 1/4 | 2,259 | 1/4 | 17,194 | 1/4 | 32,182 | 1/4 | 46,888 | 1/4 | 61,495 | 1/4 | 76,396 | 1/4 | 91,369 | 1/4 | 106,348 | 1/4 | 121,313 | 1/4 | 136,277 |
| 1/2 | 2,551 | 1/2 | 17,506 | 1/2 | 32,494 | 1/2 | 47,190 | 1/2 | 61,807 | 1/2 | 76,706 | 1/2 | 91,681 | 1/2 | 106,660 | 1/2 | 121,625 | 1/2 | 136,589 |
| 3/4 | 2,844 | 3/4 | 17,818 | 3/4 | 32,806 | 3/4 | 47,492 | 3/4 | 62,119 | 3/4 | 77,016 | 3/4 | 91,993 | 3/4 | 106,972 | 3/4 | 121,937 | 3/4 | 136,900 |
| 2 | 3,136 | 2 | 18,131 | 2 | 33,118 | 2 | 47,794 | 2 | 62,431 | 2 | 77,327 | 2 | 92,305 | 2 | 107,284 | 2 | 122,248 | 2 | 137,212 |
| 1/4 | 3,448 | 1/4 | 18,443 | 1/4 | 33,431 | 1/4 | 48,096 | 1/4 | 62,742 | 1/4 | 77,638 | 1/4 | 92,617 | 1/4 | 107,596 | 1/4 | 122,560 | 1/4 | 137,524 |
| 1/2 | 3,760 | 1/2 | 18,755 | 1/2 | 33,743 | 1/2 | 48,399 | 1/2 | 63,053 | 1/2 | 77,949 | 1/2 | 92,929 | 1/2 | 107,908 | 1/2 | 122,872 | 1/2 | 137,836 |
| 3/4 | 4,071 | 3/4 | 19,067 | 3/4 | 34,055 | 3/4 | 48,701 | 3/4 | 63,364 | 3/4 | 78,260 | 3/4 | 93,241 | 3/4 | 108,219 | 3/4 | 123,183 | 3/4 | 138,147 |
| 3 | 4,383 | 3 | 19,380 | 3 | 34,368 | 3 | 49,004 | 3 | 63,675 | 3 | 78,572 | 3 | 93,553 | 3 | 108,531 | 3 | 123,495 | 3 | 138,459 |
| 1/4 | 4,696 | 1/4 | 19,692 | 1/4 | 34,679 | 1/4 | 49,306 | 1/4 | 63,985 | 1/4 | 78,884 | 1/4 | 93,865 | 1/4 | 108,843 | 1/4 | 123,807 | 1/4 | 138,771 |
| 1/2 | 5,008 | 1/2 | 20,004 | 1/2 | 34,991 | 1/2 | 49,609 | 1/2 | 64,296 | 1/2 | 79,196 | 1/2 | 94,177 | 1/2 | 109,155 | 1/2 | 124,119 | 1/2 | 139,083 |
| 3/4 | 5,321 | 3/4 | 20,317 | 3/4 | 35,303 | 3/4 | 49,911 | 3/4 | 64,606 | 3/4 | 79,508 | 3/4 | 94,489 | 3/4 | 109,467 | 3/4 | 124,430 | 3/4 | 139,394 |
| 4 | 5,633 | 4 | 20,629 | 4 | 35,615 | 4 | 50,213 | 4 | 64,916 | 4 | 79,821 | 4 | 94,800 | 4 | 109,778 | 4 | 124,742 | 4 | 139,706 |
| 1/4 | 5,945 | 1/4 | 20,941 | 1/4 | 35,923 | 1/4 | 50,516 | 1/4 | 65,227 | 1/4 | 80,133 | 1/4 | 95,112 | 1/4 | 110,090 | 1/4 | 125,054 | 1/4 | 140,018 |
| 1/2 | 6,258 | 1/2 | 21,253 | 1/2 | 36,231 | 1/2 | 50,818 | 1/2 | 65,537 | 1/2 | 80,445 | 1/2 | 95,424 | 1/2 | 110,402 | 1/2 | 125,366 | 1/2 | 140,329 |
| 3/4 | 6,570 | 3/4 | 21,566 | 3/4 | 36,539 | 3/4 | 51,121 | 3/4 | 65,847 | 3/4 | 80,757 | 3/4 | 95,736 | 3/4 | 110,714 | 3/4 | 125,677 | 3/4 | 140,641 |
| 5 | 6,883 | 5 | 21,878 | 5 | 36,847 | 5 | 51,423 | 5 | 66,157 | 5 | 81,069 | 5 | 96,048 | 5 | 111,025 | 5 | 125,989 | 5 | 140,953 |
| 1/4 | 7,195 | 1/4 | 22,190 | 1/4 | 37,152 | 1/4 | 51,726 | 1/4 | 66,468 | 1/4 | 81,382 | 1/4 | 96,360 | 1/4 | 111,337 | 1/4 | 126,301 | 1/4 | 141,264 |
| 1/2 | 7,508 | 1/2 | 22,503 | 1/2 | 37,457 | 1/2 | 52,028 | 1/2 | 66,778 | 1/2 | 81,694 | 1/2 | 96,672 | 1/2 | 111,649 | 1/2 | 126,613 | 1/2 | 141,576 |
| 3/4 | 7,820 | 3/4 | 22,815 | 3/4 | 37,762 | 3/4 | 52,330 | 3/4 | 67,088 | 3/4 | 82,006 | 3/4 | 96,984 | 3/4 | 111,961 | 3/4 | 126,924 | 3/4 | 141,887 |
| 6 | 8,133 | 6 | 23,127 | 6 | 38,067 | 6 | 52,633 | 6 | 67,398 | 6 | 82,318 | 6 | 97,296 | 6 | 112,272 | 6 | 127,236 | 6 | 142,199 |
| 1/4 | 8,446 | 1/4 | 23,439 | 1/4 | 38,372 | 1/4 | 52,935 | 1/4 | 67,709 | 1/4 | 82,631 | 1/4 | 97,608 | 1/4 | 112,584 | 1/4 | 127,548 | 1/4 | 142,506 |
| 1/2 | 8,758 | 1/2 | 23,752 | 1/2 | 38,677 | 1/2 | 53,238 | 1/2 | 68,019 | 1/2 | 82,943 | 1/2 | 97,920 | 1/2 | 112,896 | 1/2 | 127,860 | 1/2 | 142,813 |
| 3/4 | 9,071 | 3/4 | 24,064 | 3/4 | 38,982 | 3/4 | 53,540 | 3/4 | 68,329 | 3/4 | 83,255 | 3/4 | 98,232 | 3/4 | 113,208 | 3/4 | 128,171 | 3/4 | 143,120 |
| 7 | 9,384 | 7 | 24,376 | 7 | 39,287 | 7 | 53,843 | 7 | 68,639 | 7 | 83,567 | 7 | 98,544 | 7 | 113,519 | 7 | 128,483 | 7 | 143,427 |
| 1/4 | 9,696 | 1/4 | 24,689 | 1/4 | 39,592 | 1/4 | 54,145 | 1/4 | 68,950 | 1/4 | 83,880 | 1/4 | 98,856 | 1/4 | 113,831 | 1/4 | 128,795 | 1/4 | 143,721 |
| 1/2 | 10,009 | 1/2 | 25,001 | 1/2 | 39,897 | 1/2 | 54,447 | 1/2 | 69,260 | 1/2 | 84,192 | 1/2 | 99,168 | 1/2 | 114,143 | 1/2 | 129,107 | 1/2 | 144,016 |
| 3/4 | 10,322 | 3/4 | 25,313 | 3/4 | 40,202 | 3/4 | 54,750 | 3/4 | 69,570 | 3/4 | 84,504 | 3/4 | 99,480 | 3/4 | 114,455 | 3/4 | 129,418 | 3/4 | 144,311 |
| 8 | 10,635 | 8 | 25,626 | 8 | 40,507 | 8 | 55,052 | 8 | 69,880 | 8 | 84,816 | 8 | 99,793 | 8 | 114,766 | 8 | 129,730 | 8 | 144,605 |
| 1/4 | 10,947 | 1/4 | 25,938 | 1/4 | 40,812 | 1/4 | 55,355 | 1/4 | 70,191 | 1/4 | 85,128 | 1/4 | 100,105 | 1/4 | 115,078 | 1/4 | 130,042 | 1/4 | 144,884 |
| 1/2 | 11,260 | 1/2 | 26,250 | 1/2 | 41,117 | 1/2 | 55,657 | 1/2 | 70,501 | 1/2 | 85,441 | 1/2 | 100,417 | 1/2 | 115,390 | 1/2 | 130,354 | 1/2 | 145,162 |
| 3/4 | 11,572 | 3/4 | 26,562 | 3/4 | 41,422 | 3/4 | 55,960 | 3/4 | 70,811 | 3/4 | 85,753 | 3/4 | 100,729 | 3/4 | 115,702 | 3/4 | 130,665 | 3/4 | 145,441 |
| 9 | 11,885 | 9 | 26,874 | 9 | 41,726 | 9 | 56,262 | 9 | 71,121 | 9 | 86,065 | 9 | 101,041 | 9 | 116,013 | 9 | 130,977 | 9 | 145,719 |
| 1/4 | 12,197 | 1/4 | 27,187 | 1/4 | 42,031 | 1/4 | 56,566 | 1/4 | 71,432 | 1/4 | 86,377 | 1/4 | 101,353 | 1/4 | 116,325 | 1/4 | 131,289 | 1/4 | 145,982 |
| 1/2 | 12,509 | 1/2 | 27,499 | 1/2 | 42,336 | 1/2 | 56,870 | 1/2 | 71,742 | 1/2 | 86,690 | 1/2 | 101,665 | 1/2 | 116,637 | 1/2 | 131,601 | 1/2 | 146,245 |
| 3/4 | 12,822 | 3/4 | 27,811 | 3/4 | 42,641 | 3/4 | 57,174 | 3/4 | 72,052 | 3/4 | 87,002 | 3/4 | 101,978 | 3/4 | 116,949 | 3/4 | 131,912 | 3/4 | 146,508 |
| 10 | 13,134 | 10 | 28,123 | 10 | 42,946 | 10 | 57,478 | 10 | 72,363 | 10 | 87,314 | 10 | 102,290 | 10 | 117,260 | 10 | 132,224 | 10 | 146,771 |
| 1/4 | 13,446 | 1/4 | 28,435 | 1/4 | 43,251 | 1/4 | 57,784 | 1/4 | 72,673 | 1/4 | 87,626 | 1/4 | 102,602 | 1/4 | 117,572 | 1/4 | 132,536 | 1/4 | 147,018 |
| 1/2 | 13,759 | 1/2 | 28,747 | 1/2 | 43,556 | 1/2 | 58,089 | 1/2 | 72,983 | 1/2 | 87,938 | 1/2 | 102,914 | 1/2 | 117,884 | 1/2 | 132,848 | 1/2 | 147,265 |
| 3/4 | 14,071 | 3/4 | 29,059 | 3/4 | 43,861 | 3/4 | 58,395 | 3/4 | 73,293 | 3/4 | 88,250 | 3/4 | 103,226 | 3/4 | 118,196 | 3/4 | 133,159 | 3/4 | 147,513 |
| 11 | 14,383 | 11 | 29,371 | 11 | 44,166 | 11 | 58,700 | 11 | 73,604 | 11 | 88,562 | 11 | 103,538 | 11 | 118,507 | 11 | 133,471 | 11 | 147,760 |
| 1/4 | 14,695 | 1/4 | 29,684 | 1/4 | 44,469 | 1/4 | 59,009 | 1/4 | 73,914 | 1/4 | 88,874 | 1/4 | 103,851 | 1/4 | 118,819 | 1/4 | 133,783 | 1/4 | 147,991 |
| 1/2 | 15,008 | 1/2 | 29,996 | 1/2 | 44,773 | 1/2 | 59,318 | 1/2 | 74,224 | 1/2 | 89,186 | 1/2 | 104,163 | 1/2 | 119,131 | 1/2 | 134,095 | 1/2 | 148,222 |
| 3/4 | 15,320 | 3/4 | 30,308 | 3/4 | 45,076 | 3/4 | 59,627 | 3/4 | 74,534 | 3/4 | 89,498 | 3/4 | 104,475 | 3/4 | 119,443 | 3/4 | 134,406 | 3/4 | 148,453 |

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 THREADS ON "MMC" VALVE.
 GAUGE POINT: (MMC) LOCATED 10'-09" OFF CENTERLINE AND 42'-03" FORWARD OF AFT BULKHEAD.

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



BARGE "HSM 3001"

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15' 05"

| 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 | 149,669 | 0 | 160,048 | 0 | 170,404 | 0 | 180,732 | 0 | 191,045 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 149,889 | 1/4 | 160,264 | 1/4 | 170,619 | 1/4 | 180,947 | 1/4 | 191,238 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 150,108 | 1/2 | 160,480 | 1/2 | 170,834 | 1/2 | 181,162 | 1/2 | 191,431 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 150,328 | 3/4 | 160,695 | 3/4 | 171,050 | 3/4 | 181,377 | 3/4 | 191,624 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 150,547 | 1 | 160,911 | 1 | 171,265 | 1 | 181,592 | 1 | 191,817 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 150,763 | 1/4 | 161,127 | 1/4 | 171,480 | 1/4 | 181,807 | 1/4 | 191,976 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 150,979 | 1/2 | 161,343 | 1/2 | 171,695 | 1/2 | 182,023 | 1/2 | 192,136 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 151,195 | 3/4 | 161,559 | 3/4 | 171,910 | 3/4 | 182,238 | 3/4 | 192,295 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 151,411 | 2 | 161,775 | 2 | 172,125 | 2 | 182,453 | 2 | 192,455 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 151,627 | 1/4 | 161,991 | 1/4 | 172,341 | 1/4 | 182,668 | 1/4 | 192,579 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 151,843 | 1/2 | 162,207 | 1/2 | 172,556 | 1/2 | 182,883 | 1/2 | 192,702 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 152,059 | 3/4 | 162,423 | 3/4 | 172,771 | 3/4 | 183,098 | 3/4 | 192,826 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 152,275 | 3 | 162,639 | 3 | 172,986 | 3 | 183,314 | 3 | 192,949 | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 152,491 | 1/4 | 162,855 | 1/4 | 173,201 | 1/4 | 183,529 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 152,707 | 1/2 | 163,071 | 1/2 | 173,416 | 1/2 | 183,744 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 152,922 | 3/4 | 163,286 | 3/4 | 173,631 | 3/4 | 183,959 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 153,138 | 4 | 163,502 | 4 | 173,847 | 4 | 184,174 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 153,354 | 1/4 | 163,718 | 1/4 | 174,062 | 1/4 | 184,389 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 153,570 | 1/2 | 163,934 | 1/2 | 174,277 | 1/2 | 184,604 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 153,786 | 3/4 | 164,150 | 3/4 | 174,492 | 3/4 | 184,820 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 154,002 | 5 | 164,366 | 5 | 174,707 | 5 | 185,035 | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 154,218 | 1/4 | 164,582 | 1/4 | 174,922 | 1/4 | 185,250 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 154,434 | 1/2 | 164,798 | 1/2 | 175,138 | 1/2 | 185,465 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 154,650 | 3/4 | 165,014 | 3/4 | 175,353 | 3/4 | 185,680 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 154,866 | 6 | 165,230 | 6 | 175,568 | 6 | 185,895 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 155,082 | 1/4 | 165,446 | 1/4 | 175,783 | 1/4 | 186,111 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 155,298 | 1/2 | 165,662 | 1/2 | 175,998 | 1/2 | 186,326 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 155,513 | 3/4 | 165,877 | 3/4 | 176,213 | 3/4 | 186,541 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 155,729 | 7 | 166,093 | 7 | 176,429 | 7 | 186,756 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 155,945 | 1/4 | 166,309 | 1/4 | 176,644 | 1/4 | 186,971 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 156,161 | 1/2 | 166,525 | 1/2 | 176,859 | 1/2 | 187,186 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 156,377 | 3/4 | 166,741 | 3/4 | 177,074 | 3/4 | 187,402 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 156,593 | 8 | 166,957 | 8 | 177,289 | 8 | 187,617 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 156,809 | 1/4 | 167,173 | 1/4 | 177,504 | 1/4 | 187,832 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 157,025 | 1/2 | 167,389 | 1/2 | 177,719 | 1/2 | 188,047 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 157,241 | 3/4 | 167,605 | 3/4 | 177,935 | 3/4 | 188,263 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 157,457 | 9 | 167,821 | 9 | 178,150 | 9 | 188,478 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 157,673 | 1/4 | 168,036 | 1/4 | 178,365 | 1/4 | 188,693 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 157,889 | 1/2 | 168,252 | 1/2 | 178,580 | 1/2 | 188,908 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 158,104 | 3/4 | 168,467 | 3/4 | 178,795 | 3/4 | 189,124 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 158,320 | 10 | 168,683 | 10 | 179,010 | 10 | 189,339 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 158,536 | 1/4 | 168,898 | 1/4 | 179,226 | 1/4 | 189,554 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 158,752 | 1/2 | 169,113 | 1/2 | 179,441 | 1/2 | 189,769 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 158,968 | 3/4 | 169,328 | 3/4 | 179,656 | 3/4 | 189,984 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 159,184 | 11 | 169,544 | 11 | 179,871 | 11 | 190,198 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 159,400 | 1/4 | 169,759 | 1/4 | 180,086 | 1/4 | 190,410 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 159,616 | 1/2 | 169,974 | 1/2 | 180,301 | 1/2 | 190,622 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 159,832 | 3/4 | 170,189 | 3/4 | 180,517 | 3/4 | 190,833 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 10/13/2016 CL
CALCULATED: 10/13/2016 CL
PRINTED: 10/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2016

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



BARGE "HSM 3001"

PORT SLOP TANK

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06"

| 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 | 96 | 0 | 1,251 | 0 | 2,406 | 0 | 3,560 | 0 | 4,715 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 120 | 1/4 | 1,275 | 1/4 | 2,430 | 1/4 | 3,584 | 1/4 | 4,739 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 144 | 1/2 | 1,299 | 1/2 | 2,454 | 1/2 | 3,608 | 1/2 | 4,762 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 168 | 3/4 | 1,323 | 3/4 | 2,478 | 3/4 | 3,632 | 3/4 | 4,786 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 193 | 1 | 1,347 | 1 | 2,502 | 1 | 3,656 | 1 | 4,810 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 217 | 1/4 | 1,371 | 1/4 | 2,526 | 1/4 | 3,680 | 1/4 | 4,833 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 241 | 1/2 | 1,395 | 1/2 | 2,550 | 1/2 | 3,704 | 1/2 | 4,857 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 265 | 3/4 | 1,419 | 3/4 | 2,574 | 3/4 | 3,728 | 3/4 | 4,881 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 289 | 2 | 1,444 | 2 | 2,597 | 2 | 3,752 | 2 | 4,904 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 313 | 1/4 | 1,468 | 1/4 | 2,622 | 1/4 | 3,776 | 1/4 | 4,928 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 337 | 1/2 | 1,492 | 1/2 | 2,646 | 1/2 | 3,800 | 1/2 | 4,952 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 361 | 3/4 | 1,516 | 3/4 | 2,670 | 3/4 | 3,825 | 3/4 | 4,975 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 385 | 3 | 1,540 | 3 | 2,694 | 3 | 3,849 | 3 | 4,999 | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 409 | 1/4 | 1,564 | 1/4 | 2,718 | 1/4 | 3,873 | 1/4 | 5,023 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 433 | 1/2 | 1,588 | 1/2 | 2,742 | 1/2 | 3,897 | 1/2 | 5,046 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 457 | 3/4 | 1,612 | 3/4 | 2,766 | 3/4 | 3,921 | 3/4 | 5,070 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 481 | 4 | 1,636 | 4 | 2,790 | 4 | 3,945 | 4 | 5,093 | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 505 | 1/4 | 1,660 | 1/4 | 2,814 | 1/4 | 3,969 | 1/4 | 5,105 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 529 | 1/2 | 1,684 | 1/2 | 2,838 | 1/2 | 3,993 | 1/2 | 5,117 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 553 | 3/4 | 1,708 | 3/4 | 2,862 | 3/4 | 4,017 | 3/4 | 5,128 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 578 | 5 | 1,732 | 5 | 2,886 | 5 | 4,041 | 5 | 5,140 | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 602 | 1/4 | 1,756 | 1/4 | 2,910 | 1/4 | 4,065 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 626 | 1/2 | 1,780 | 1/2 | 2,934 | 1/2 | 4,089 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 650 | 3/4 | 1,805 | 3/4 | 2,958 | 3/4 | 4,113 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 674 | 6 | 1,829 | 6 | 2,982 | 6 | 4,137 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 698 | 1/4 | 1,853 | 1/4 | 3,006 | 1/4 | 4,161 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 722 | 1/2 | 1,877 | 1/2 | 3,030 | 1/2 | 4,185 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 746 | 3/4 | 1,901 | 3/4 | 3,054 | 3/4 | 4,210 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 770 | 7 | 1,925 | 7 | 3,079 | 7 | 4,234 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 794 | 1/4 | 1,949 | 1/4 | 3,103 | 1/4 | 4,258 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 818 | 1/2 | 1,973 | 1/2 | 3,127 | 1/2 | 4,282 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 842 | 3/4 | 1,997 | 3/4 | 3,151 | 3/4 | 4,306 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 866 | 8 | 2,021 | 8 | 3,175 | 8 | 4,330 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 890 | 1/4 | 2,045 | 1/4 | 3,199 | 1/4 | 4,354 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 914 | 1/2 | 2,069 | 1/2 | 3,223 | 1/2 | 4,378 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 938 | 3/4 | 2,093 | 3/4 | 3,247 | 3/4 | 4,402 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 963 | 9 | 2,117 | 9 | 3,271 | 9 | 4,426 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 987 | 1/4 | 2,141 | 1/4 | 3,295 | 1/4 | 4,450 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,011 | 1/2 | 2,165 | 1/2 | 3,319 | 1/2 | 4,474 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,035 | 3/4 | 2,190 | 3/4 | 3,343 | 3/4 | 4,498 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 1,059 | 10 | 2,214 | 10 | 3,367 | 10 | 4,522 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 1,083 | 1/4 | 2,238 | 1/4 | 3,391 | 1/4 | 4,546 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,107 | 1/2 | 2,262 | 1/2 | 3,415 | 1/2 | 4,570 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,131 | 3/4 | 2,286 | 3/4 | 3,440 | 3/4 | 4,595 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 1,155 | 11 | 2,310 | 11 | 3,464 | 11 | 4,619 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 1,179 | 1/4 | 2,334 | 1/4 | 3,488 | 1/4 | 4,643 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,203 | 1/2 | 2,358 | 1/2 | 3,512 | 1/2 | 4,667 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,227 | 3/4 | 2,382 | 3/4 | 3,536 | 3/4 | 4,691 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

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 AT GAUGE POINT.

STRAPPED: 10/13/2016 CL
 CALCULATED: 10/13/2016 CL
 PRINTED: 10/14/2016 JS

CANCELS AND SUPERCEDES
 ALL PRIOR TO 10/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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





BARGE "HSM 3001"

STBD SLOP TANK

INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06"

| 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 | 96 | 0 | 1,251 | 0 | 2,406 | 0 | 3,560 | 0 | 4,715 | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 120 | 1/4 | 1,275 | 1/4 | 2,430 | 1/4 | 3,584 | 1/4 | 4,739 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 144 | 1/2 | 1,299 | 1/2 | 2,454 | 1/2 | 3,608 | 1/2 | 4,762 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 168 | 3/4 | 1,323 | 3/4 | 2,478 | 3/4 | 3,632 | 3/4 | 4,786 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 193 | 1 | 1,347 | 1 | 2,502 | 1 | 3,656 | 1 | 4,810 | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 217 | 1/4 | 1,371 | 1/4 | 2,526 | 1/4 | 3,680 | 1/4 | 4,833 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 241 | 1/2 | 1,395 | 1/2 | 2,550 | 1/2 | 3,704 | 1/2 | 4,857 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 265 | 3/4 | 1,419 | 3/4 | 2,574 | 3/4 | 3,728 | 3/4 | 4,881 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 289 | 2 | 1,444 | 2 | 2,597 | 2 | 3,752 | 2 | 4,904 | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 313 | 1/4 | 1,468 | 1/4 | 2,622 | 1/4 | 3,776 | 1/4 | 4,928 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 337 | 1/2 | 1,492 | 1/2 | 2,646 | 1/2 | 3,800 | 1/2 | 4,952 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 361 | 3/4 | 1,516 | 3/4 | 2,670 | 3/4 | 3,825 | 3/4 | 4,975 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 385 | 3 | 1,540 | 3 | 2,694 | 3 | 3,849 | 3 | 4,999 | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 409 | 1/4 | 1,564 | 1/4 | 2,718 | 1/4 | 3,873 | 1/4 | 5,023 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 433 | 1/2 | 1,588 | 1/2 | 2,742 | 1/2 | 3,897 | 1/2 | 5,046 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 457 | 3/4 | 1,612 | 3/4 | 2,766 | 3/4 | 3,921 | 3/4 | 5,070 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 481 | 4 | 1,636 | 4 | 2,790 | 4 | 3,945 | 4 | 5,093 | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 505 | 1/4 | 1,660 | 1/4 | 2,814 | 1/4 | 3,969 | 1/4 | 5,105 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 529 | 1/2 | 1,684 | 1/2 | 2,838 | 1/2 | 3,993 | 1/2 | 5,117 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 553 | 3/4 | 1,708 | 3/4 | 2,862 | 3/4 | 4,017 | 3/4 | 5,128 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 578 | 5 | 1,732 | 5 | 2,886 | 5 | 4,041 | 5 | 5,140 | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 602 | 1/4 | 1,756 | 1/4 | 2,910 | 1/4 | 4,065 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 626 | 1/2 | 1,780 | 1/2 | 2,934 | 1/2 | 4,089 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 650 | 3/4 | 1,805 | 3/4 | 2,958 | 3/4 | 4,113 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 674 | 6 | 1,829 | 6 | 2,982 | 6 | 4,137 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 698 | 1/4 | 1,853 | 1/4 | 3,006 | 1/4 | 4,161 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 722 | 1/2 | 1,877 | 1/2 | 3,030 | 1/2 | 4,185 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 746 | 3/4 | 1,901 | 3/4 | 3,054 | 3/4 | 4,210 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 770 | 7 | 1,925 | 7 | 3,079 | 7 | 4,234 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 794 | 1/4 | 1,949 | 1/4 | 3,103 | 1/4 | 4,258 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 818 | 1/2 | 1,973 | 1/2 | 3,127 | 1/2 | 4,282 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 842 | 3/4 | 1,997 | 3/4 | 3,151 | 3/4 | 4,306 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 866 | 8 | 2,021 | 8 | 3,175 | 8 | 4,330 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 890 | 1/4 | 2,045 | 1/4 | 3,199 | 1/4 | 4,354 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 914 | 1/2 | 2,069 | 1/2 | 3,223 | 1/2 | 4,378 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 938 | 3/4 | 2,093 | 3/4 | 3,247 | 3/4 | 4,402 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 963 | 9 | 2,117 | 9 | 3,271 | 9 | 4,426 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 987 | 1/4 | 2,141 | 1/4 | 3,295 | 1/4 | 4,450 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,011 | 1/2 | 2,165 | 1/2 | 3,319 | 1/2 | 4,474 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,035 | 3/4 | 2,190 | 3/4 | 3,343 | 3/4 | 4,498 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 1,059 | 10 | 2,214 | 10 | 3,367 | 10 | 4,522 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 1,083 | 1/4 | 2,238 | 1/4 | 3,391 | 1/4 | 4,546 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,107 | 1/2 | 2,262 | 1/2 | 3,415 | 1/2 | 4,570 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,131 | 3/4 | 2,286 | 3/4 | 3,440 | 3/4 | 4,595 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 1,155 | 11 | 2,310 | 11 | 3,464 | 11 | 4,619 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 1,179 | 1/4 | 2,334 | 1/4 | 3,488 | 1/4 | 4,643 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,203 | 1/2 | 2,358 | 1/2 | 3,512 | 1/2 | 4,667 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,227 | 3/4 | 2,382 | 3/4 | 3,536 | 3/4 | 4,691 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

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 AT GAUGE POINT.

STRAPPED: 10/13/2016 CL
 CALCULATED: 10/13/2016 CL
 PRINTED: 10/14/2016 JS

CANCELS AND SUPERCEDES
 ALL PRIOR TO 10/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HSM 3001"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 4'-05 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 | 99 | 0 | 254 | 0 | 406 | 0 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| 1/4 | 1 | 1/4 | 102 | 1/4 | 257 | 1/4 | 409 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1 | 1/2 | 105 | 1/2 | 260 | 1/2 | 411 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2 | 3/4 | 108 | 3/4 | 264 | 3/4 | 414 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 3 | 1 | 111 | 1 | 267 | 1 | 417 | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| 1/4 | 4 | 1/4 | 114 | 1/4 | 270 | 1/4 | 420 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 5 | 1/2 | 117 | 1/2 | 274 | 1/2 | 422 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 6 | 3/4 | 120 | 3/4 | 277 | 3/4 | 425 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 7 | 2 | 123 | 2 | 280 | 2 | 428 | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | |
| 1/4 | 9 | 1/4 | 126 | 1/4 | 284 | 1/4 | 430 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 10 | 1/2 | 130 | 1/2 | 287 | 1/2 | 433 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 12 | 3/4 | 133 | 3/4 | 290 | 3/4 | 435 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 13 | 3 | 136 | 3 | 294 | 3 | 438 | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | |
| 1/4 | 15 | 1/4 | 139 | 1/4 | 297 | 1/4 | 441 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 17 | 1/2 | 142 | 1/2 | 300 | 1/2 | 443 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 19 | 3/4 | 145 | 3/4 | 303 | 3/4 | 445 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 20 | 4 | 148 | 4 | 307 | 4 | 448 | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| 1/4 | 22 | 1/4 | 152 | 1/4 | 310 | 1/4 | 450 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 24 | 1/2 | 155 | 1/2 | 313 | 1/2 | 452 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 26 | 3/4 | 158 | 3/4 | 317 | 3/4 | 455 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 28 | 5 | 161 | 5 | 320 | 5 | 457 | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| 1/4 | 30 | 1/4 | 164 | 1/4 | 323 | 1/4 | 459 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 32 | 1/2 | 168 | 1/2 | 326 | 1/2 | 461 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 35 | 3/4 | 171 | 3/4 | 330 | 3/4 | 464 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 37 | 6 | 174 | 6 | 333 | 6 | 466 | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 39 | 1/4 | 177 | 1/4 | 336 | 1/4 | 468 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 41 | 1/2 | 181 | 1/2 | 339 | 1/2 | 470 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 44 | 3/4 | 184 | 3/4 | 342 | 3/4 | 472 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 46 | 7 | 187 | 7 | 346 | 7 | 474 | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 48 | 1/4 | 190 | 1/4 | 349 | 1/4 | 475 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 51 | 1/2 | 194 | 1/2 | 352 | 1/2 | 477 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 53 | 3/4 | 197 | 3/4 | 355 | 3/4 | 479 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 56 | 8 | 200 | 8 | 358 | 8 | 481 | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 58 | 1/4 | 204 | 1/4 | 361 | 1/4 | 482 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 61 | 1/2 | 207 | 1/2 | 364 | 1/2 | 484 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 63 | 3/4 | 210 | 3/4 | 367 | 3/4 | 485 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 66 | 9 | 214 | 9 | 370 | 9 | 487 | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 69 | 1/4 | 217 | 1/4 | 373 | 1/4 | 488 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 71 | 1/2 | 220 | 1/2 | 376 | 1/2 | 489 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 74 | 3/4 | 224 | 3/4 | 380 | 3/4 | 490 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 77 | 10 | 227 | 10 | 383 | 10 | 491 | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 80 | 1/4 | 230 | 1/4 | 386 | 1/4 | 492 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 82 | 1/2 | 234 | 1/2 | 388 | 1/2 | 493 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 85 | 3/4 | 237 | 3/4 | 391 | 3/4 | 493 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 88 | 11 | 240 | 11 | 394 | 11 | 494 | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 91 | 1/4 | 244 | 1/4 | 397 | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 94 | 1/2 | 247 | 1/2 | 400 | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 97 | 3/4 | 250 | 3/4 | 403 | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

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 AT GAUGE POINT.

STRAPPED: 10/13/2016 CL
CALCULATED: 10/13/2016 CL
PRINTED: 10/14/2016 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2016

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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