



# BARGE "HFL 3010"

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 1'-00"  
 AFT DRAFT = 5'-00"  
 DIFF. = 4'-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"

February 14, 2017

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

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# BARGE "HFL 3010"

## STBD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06 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   | 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 | 1/4   | 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 | 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 | 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     | 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 | 1/4   | 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 | 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 | 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   | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 3   | 385   | 3   | 1,540 | 3   | 2,694 | 3   | 3,849 | 3   | 4,999 | 3   |       | 3   |       | 3   | 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 | 1/4   | 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 | 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 | 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   | 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 | 1/4   | 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 | 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 | 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   | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 6   | 674   | 6   | 1,829 | 6   | 2,982 | 6   | 4,137 | 6   |       | 6   |       | 6   |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 7   | 770   | 7   | 1,925 | 7   | 3,079 | 7   | 4,234 | 7   |       | 7   |       | 7   |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 8   | 866   | 8   | 2,021 | 8   | 3,175 | 8   | 4,330 | 8   |       | 8   |       | 8   |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 9   | 963   | 9   | 2,117 | 9   | 3,271 | 9   | 4,426 | 9   |       | 9   |       | 9   |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 10  | 1,059 | 10  | 2,214 | 10  | 3,367 | 10  | 4,522 | 10  |       | 10  |       | 10  |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 11  | 1,155 | 11  | 2,310 | 11  | 3,464 | 11  | 4,619 | 11  |       | 11  |       | 11  |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT

STRAPPED: 02/13/2017 CL  
CALCULATED: 02/14/2017 CL  
PRINTED: 02/14/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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



# BARGE "HFL 3010"

## PORT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06 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   | 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 | 1/4   | 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 | 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 | 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     | 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 | 1/4   | 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 | 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 | 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   | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 3   | 385   | 3   | 1,540 | 3   | 2,694 | 3   | 3,849 | 3   | 4,999 | 3   |       | 3   |       | 3   | 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 | 1/4   | 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 | 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 | 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   | 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 | 1/4   | 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 | 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 | 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   | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 6   | 674   | 6   | 1,829 | 6   | 2,982 | 6   | 4,137 | 6   |       | 6   |       | 6   |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 7   | 770   | 7   | 1,925 | 7   | 3,079 | 7   | 4,234 | 7   |       | 7   |       | 7   |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 8   | 866   | 8   | 2,021 | 8   | 3,175 | 8   | 4,330 | 8   |       | 8   |       | 8   |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 9   | 963   | 9   | 2,117 | 9   | 3,271 | 9   | 4,426 | 9   |       | 9   |       | 9   |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 10  | 1,059 | 10  | 2,214 | 10  | 3,367 | 10  | 4,522 | 10  |       | 10  |       | 10  |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 11  | 1,155 | 11  | 2,310 | 11  | 3,464 | 11  | 4,619 | 11  |       | 11  |       | 11  |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT

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CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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



# BARGE "HFL 3010"

## 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 |       |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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





# BARGE "HFL 3010"

## 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   | 149,696 | 0   | 160,076 | 0   | 170,434 | 0   | 180,763 | 0   | 191,078 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 149,915 | 1/4 | 160,292 | 1/4 | 170,649 | 1/4 | 180,979 | 1/4 | 191,271 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 150,135 | 1/2 | 160,508 | 1/2 | 170,865 | 1/2 | 181,194 | 1/2 | 191,464 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 150,354 | 3/4 | 160,724 | 3/4 | 171,080 | 3/4 | 181,409 | 3/4 | 191,657 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 150,574 | 1   | 160,940 | 1   | 171,295 | 1   | 181,624 | 1   | 191,850 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 150,790 | 1/4 | 161,156 | 1/4 | 171,510 | 1/4 | 181,839 | 1/4 | 192,010 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 151,006 | 1/2 | 161,372 | 1/2 | 171,725 | 1/2 | 182,055 | 1/2 | 192,170 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 151,222 | 3/4 | 161,588 | 3/4 | 171,941 | 3/4 | 182,270 | 3/4 | 192,329 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 151,438 | 2   | 161,804 | 2   | 172,156 | 2   | 182,485 | 2   | 192,489 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 151,654 | 1/4 | 162,019 | 1/4 | 172,371 | 1/4 | 182,700 | 1/4 | 192,613 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 151,870 | 1/2 | 162,235 | 1/2 | 172,586 | 1/2 | 182,915 | 1/2 | 192,736 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 152,086 | 3/4 | 162,451 | 3/4 | 172,801 | 3/4 | 183,131 | 3/4 | 192,860 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 152,302 | 3   | 162,667 | 3   | 173,016 | 3   | 183,346 | 3   | 192,983 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 152,517 | 1/4 | 162,883 | 1/4 | 173,232 | 1/4 | 183,561 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 152,733 | 1/2 | 163,099 | 1/2 | 173,447 | 1/2 | 183,776 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 152,949 | 3/4 | 163,315 | 3/4 | 173,662 | 3/4 | 183,991 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 153,165 | 4   | 163,531 | 4   | 173,877 | 4   | 184,207 | 4   |         | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 153,381 | 1/4 | 163,747 | 1/4 | 174,092 | 1/4 | 184,422 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 153,597 | 1/2 | 163,963 | 1/2 | 174,308 | 1/2 | 184,637 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 153,813 | 3/4 | 164,179 | 3/4 | 174,523 | 3/4 | 184,852 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 154,029 | 5   | 164,395 | 5   | 174,738 | 5   | 185,067 | 5   |         | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 154,245 | 1/4 | 164,611 | 1/4 | 174,953 | 1/4 | 185,283 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 154,461 | 1/2 | 164,827 | 1/2 | 175,168 | 1/2 | 185,498 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 154,677 | 3/4 | 165,043 | 3/4 | 175,384 | 3/4 | 185,713 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 154,893 | 6   | 165,259 | 6   | 175,599 | 6   | 185,928 | 6   |         | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 155,109 | 1/4 | 165,475 | 1/4 | 175,814 | 1/4 | 186,143 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 155,325 | 1/2 | 165,691 | 1/2 | 176,029 | 1/2 | 186,359 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 155,541 | 3/4 | 165,907 | 3/4 | 176,244 | 3/4 | 186,574 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 155,757 | 7   | 166,123 | 7   | 176,460 | 7   | 186,789 | 7   |         | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 155,973 | 1/4 | 166,339 | 1/4 | 176,675 | 1/4 | 187,004 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 156,189 | 1/2 | 166,555 | 1/2 | 176,890 | 1/2 | 187,219 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 156,405 | 3/4 | 166,771 | 3/4 | 177,105 | 3/4 | 187,435 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 156,621 | 8   | 166,986 | 8   | 177,320 | 8   | 187,650 | 8   |         | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 156,837 | 1/4 | 167,202 | 1/4 | 177,536 | 1/4 | 187,865 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 157,053 | 1/2 | 167,418 | 1/2 | 177,751 | 1/2 | 188,081 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 157,268 | 3/4 | 167,634 | 3/4 | 177,966 | 3/4 | 188,296 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 157,484 | 9   | 167,850 | 9   | 178,181 | 9   | 188,511 | 9   |         | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 157,700 | 1/4 | 168,066 | 1/4 | 178,396 | 1/4 | 188,726 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 157,916 | 1/2 | 168,281 | 1/2 | 178,612 | 1/2 | 188,942 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 158,132 | 3/4 | 168,497 | 3/4 | 178,827 | 3/4 | 189,157 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 158,348 | 10  | 168,713 | 10  | 179,042 | 10  | 189,372 | 10  |         | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 158,564 | 1/4 | 168,928 | 1/4 | 179,257 | 1/4 | 189,587 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 158,780 | 1/2 | 169,143 | 1/2 | 179,472 | 1/2 | 189,802 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 158,996 | 3/4 | 169,358 | 3/4 | 179,688 | 3/4 | 190,017 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 159,212 | 11  | 169,573 | 11  | 179,903 | 11  | 190,232 | 11  |         | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 159,428 | 1/4 | 169,789 | 1/4 | 180,118 | 1/4 | 190,444 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 159,644 | 1/2 | 170,004 | 1/2 | 180,333 | 1/2 | 190,655 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 159,860 | 3/4 | 170,219 | 3/4 | 180,548 | 3/4 | 190,867 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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ALL PRIOR TO 02/2017

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





# BARGE "HFL 3010"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 15'-04 3/4"

| IN  | 10 FT.  | IN  | 11 FT.  | IN  | 12 FT.  | IN  | 13 FT.  | IN  | 14 FT.  | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 148,579 | 0   | 158,953 | 0   | 169,306 | 0   | 179,629 | 0   | 189,938 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 148,799 | 1/4 | 159,169 | 1/4 | 169,521 | 1/4 | 179,844 | 1/4 | 190,131 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 149,018 | 1/2 | 159,385 | 1/2 | 169,736 | 1/2 | 180,059 | 1/2 | 190,324 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 149,237 | 3/4 | 159,601 | 3/4 | 169,951 | 3/4 | 180,274 | 3/4 | 190,517 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 149,457 | 1   | 159,817 | 1   | 170,166 | 1   | 180,489 | 1   | 190,710 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 149,673 | 1/4 | 160,032 | 1/4 | 170,381 | 1/4 | 180,704 | 1/4 | 190,869 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 149,888 | 1/2 | 160,248 | 1/2 | 170,596 | 1/2 | 180,920 | 1/2 | 191,029 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 150,104 | 3/4 | 160,464 | 3/4 | 170,811 | 3/4 | 181,135 | 3/4 | 191,188 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 150,320 | 2   | 160,680 | 2   | 171,026 | 2   | 181,350 | 2   | 191,348 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 150,536 | 1/4 | 160,896 | 1/4 | 171,241 | 1/4 | 181,565 | 1/4 | 191,471 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 150,752 | 1/2 | 161,112 | 1/2 | 171,456 | 1/2 | 181,780 | 1/2 | 191,595 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 150,968 | 3/4 | 161,327 | 3/4 | 171,671 | 3/4 | 181,995 | 3/4 | 191,718 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 151,183 | 3   | 161,543 | 3   | 171,887 | 3   | 182,210 | 3   | 191,842 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 151,399 | 1/4 | 161,759 | 1/4 | 172,102 | 1/4 | 182,425 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 151,615 | 1/2 | 161,975 | 1/2 | 172,317 | 1/2 | 182,640 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 151,831 | 3/4 | 162,191 | 3/4 | 172,532 | 3/4 | 182,855 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 152,047 | 4   | 162,407 | 4   | 172,747 | 4   | 183,070 | 4   |         | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 152,263 | 1/4 | 162,622 | 1/4 | 172,962 | 1/4 | 183,285 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 152,478 | 1/2 | 162,838 | 1/2 | 173,177 | 1/2 | 183,500 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 152,694 | 3/4 | 163,054 | 3/4 | 173,392 | 3/4 | 183,716 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 152,910 | 5   | 163,270 | 5   | 173,607 | 5   | 183,931 | 5   |         | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 153,126 | 1/4 | 163,486 | 1/4 | 173,822 | 1/4 | 184,146 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 153,342 | 1/2 | 163,702 | 1/2 | 174,037 | 1/2 | 184,361 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 153,558 | 3/4 | 163,917 | 3/4 | 174,252 | 3/4 | 184,576 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 153,773 | 6   | 164,133 | 6   | 174,467 | 6   | 184,791 | 6   |         | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 153,989 | 1/4 | 164,349 | 1/4 | 174,682 | 1/4 | 185,006 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 154,205 | 1/2 | 164,565 | 1/2 | 174,898 | 1/2 | 185,221 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 154,421 | 3/4 | 164,781 | 3/4 | 175,113 | 3/4 | 185,436 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 154,637 | 7   | 164,997 | 7   | 175,328 | 7   | 185,651 | 7   |         | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 154,853 | 1/4 | 165,212 | 1/4 | 175,543 | 1/4 | 185,866 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 155,068 | 1/2 | 165,428 | 1/2 | 175,758 | 1/2 | 186,081 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 155,284 | 3/4 | 165,644 | 3/4 | 175,973 | 3/4 | 186,297 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 155,500 | 8   | 165,860 | 8   | 176,188 | 8   | 186,512 | 8   |         | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 155,716 | 1/4 | 166,076 | 1/4 | 176,403 | 1/4 | 186,727 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 155,932 | 1/2 | 166,292 | 1/2 | 176,618 | 1/2 | 186,942 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 156,148 | 3/4 | 166,507 | 3/4 | 176,833 | 3/4 | 187,157 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 156,363 | 9   | 166,723 | 9   | 177,048 | 9   | 187,372 | 9   |         | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 156,579 | 1/4 | 166,939 | 1/4 | 177,263 | 1/4 | 187,588 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 156,795 | 1/2 | 167,154 | 1/2 | 177,478 | 1/2 | 187,803 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 157,011 | 3/4 | 167,370 | 3/4 | 177,693 | 3/4 | 188,018 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 157,227 | 10  | 167,585 | 10  | 177,909 | 10  | 188,233 | 10  |         | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 157,443 | 1/4 | 167,800 | 1/4 | 178,124 | 1/4 | 188,448 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 157,658 | 1/2 | 168,015 | 1/2 | 178,339 | 1/2 | 188,663 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 157,874 | 3/4 | 168,230 | 3/4 | 178,554 | 3/4 | 188,877 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 158,090 | 11  | 168,445 | 11  | 178,769 | 11  | 189,092 | 11  |         | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 158,306 | 1/4 | 168,660 | 1/4 | 178,984 | 1/4 | 189,304 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 158,522 | 1/2 | 168,876 | 1/2 | 179,199 | 1/2 | 189,515 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 158,737 | 3/4 | 169,091 | 3/4 | 179,414 | 3/4 | 189,727 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/13/2017 CL  
CALCULATED: 02/14/2017 CL  
PRINTED: 02/14/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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







# BARGE "HFL 3010"

## 2 STBD 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   | 151,337 | 0   | 166,406 | 0   | 181,464 | 0   | 196,482 | 0   | 211,403 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 151,651 | 1/4 | 166,720 | 1/4 | 181,777 | 1/4 | 196,795 | 1/4 | 211,683 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 151,965 | 1/2 | 167,034 | 1/2 | 182,090 | 1/2 | 197,108 | 1/2 | 211,963 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 152,279 | 3/4 | 167,348 | 3/4 | 182,403 | 3/4 | 197,421 | 3/4 | 212,243 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 152,593 | 1   | 167,662 | 1   | 182,716 | 1   | 197,733 | 1   | 212,523 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 152,907 | 1/4 | 167,976 | 1/4 | 183,029 | 1/4 | 198,046 | 1/4 | 212,754 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 153,221 | 1/2 | 168,290 | 1/2 | 183,341 | 1/2 | 198,359 | 1/2 | 212,985 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 153,535 | 3/4 | 168,604 | 3/4 | 183,654 | 3/4 | 198,672 | 3/4 | 213,217 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 153,849 | 2   | 168,918 | 2   | 183,967 | 2   | 198,985 | 2   | 213,448 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 154,163 | 1/4 | 169,231 | 1/4 | 184,280 | 1/4 | 199,298 | 1/4 | 213,627 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 154,477 | 1/2 | 169,545 | 1/2 | 184,593 | 1/2 | 199,611 | 1/2 | 213,806 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 154,791 | 3/4 | 169,859 | 3/4 | 184,906 | 3/4 | 199,924 | 3/4 | 213,985 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 155,104 | 3   | 170,173 | 3   | 185,219 | 3   | 200,236 | 3   | 214,164 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 155,418 | 1/4 | 170,487 | 1/4 | 185,532 | 1/4 | 200,549 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 155,732 | 1/2 | 170,801 | 1/2 | 185,844 | 1/2 | 200,862 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 156,046 | 3/4 | 171,115 | 3/4 | 186,157 | 3/4 | 201,175 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 156,360 | 4   | 171,429 | 4   | 186,470 | 4   | 201,488 | 4   |         | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 156,674 | 1/4 | 171,743 | 1/4 | 186,783 | 1/4 | 201,801 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 156,988 | 1/2 | 172,057 | 1/2 | 187,096 | 1/2 | 202,114 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 157,302 | 3/4 | 172,371 | 3/4 | 187,409 | 3/4 | 202,426 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 157,616 | 5   | 172,685 | 5   | 187,722 | 5   | 202,739 | 5   |         | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 157,930 | 1/4 | 172,999 | 1/4 | 188,034 | 1/4 | 203,051 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 158,244 | 1/2 | 173,313 | 1/2 | 188,347 | 1/2 | 203,362 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 158,558 | 3/4 | 173,627 | 3/4 | 188,660 | 3/4 | 203,673 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 158,872 | 6   | 173,940 | 6   | 188,973 | 6   | 203,985 | 6   |         | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 159,186 | 1/4 | 174,254 | 1/4 | 189,286 | 1/4 | 204,294 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 159,500 | 1/2 | 174,568 | 1/2 | 189,599 | 1/2 | 204,604 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 159,813 | 3/4 | 174,882 | 3/4 | 189,912 | 3/4 | 204,914 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 160,127 | 7   | 175,196 | 7   | 190,225 | 7   | 205,224 | 7   |         | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 160,441 | 1/4 | 175,510 | 1/4 | 190,537 | 1/4 | 205,534 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 160,755 | 1/2 | 175,824 | 1/2 | 190,850 | 1/2 | 205,843 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 161,069 | 3/4 | 176,138 | 3/4 | 191,163 | 3/4 | 206,153 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 161,383 | 8   | 176,452 | 8   | 191,476 | 8   | 206,463 | 8   |         | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 161,697 | 1/4 | 176,766 | 1/4 | 191,789 | 1/4 | 206,773 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 162,011 | 1/2 | 177,080 | 1/2 | 192,102 | 1/2 | 207,083 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 162,325 | 3/4 | 177,394 | 3/4 | 192,415 | 3/4 | 207,393 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 162,639 | 9   | 177,708 | 9   | 192,728 | 9   | 207,703 | 9   |         | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 162,953 | 1/4 | 178,021 | 1/4 | 193,040 | 1/4 | 208,013 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 163,267 | 1/2 | 178,334 | 1/2 | 193,353 | 1/2 | 208,323 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 163,581 | 3/4 | 178,648 | 3/4 | 193,666 | 3/4 | 208,632 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 163,895 | 10  | 178,961 | 10  | 193,979 | 10  | 208,942 | 10  |         | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 164,209 | 1/4 | 179,274 | 1/4 | 194,292 | 1/4 | 209,252 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 164,522 | 1/2 | 179,587 | 1/2 | 194,605 | 1/2 | 209,561 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 164,836 | 3/4 | 179,900 | 3/4 | 194,918 | 3/4 | 209,870 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 165,150 | 11  | 180,213 | 11  | 195,230 | 11  | 210,180 | 11  |         | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 165,464 | 1/4 | 180,526 | 1/4 | 195,543 | 1/4 | 210,486 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 165,778 | 1/2 | 180,839 | 1/2 | 195,856 | 1/2 | 210,791 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 166,092 | 3/4 | 181,151 | 3/4 | 196,169 | 3/4 | 211,097 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/13/2017 CL  
CALCULATED: 02/14/2017 CL  
PRINTED: 02/14/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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





# BARGE "HFL 3010"

## 2 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   | 150,314 | 0   | 165,394 | 0   | 180,463 | 0   | 195,492 | 0   | 210,424 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 150,629 | 1/4 | 165,708 | 1/4 | 180,776 | 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 | 197,057 | 1/4 | 211,776 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 152,199 | 1/2 | 167,279 | 1/2 | 182,342 | 1/2 | 197,371 | 1/2 | 212,007 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 152,514 | 3/4 | 167,593 | 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   | 212,470 | 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 | 183,907 | 3/4 | 198,936 | 3/4 | 213,008 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 154,084 | 3   | 169,164 | 3   | 184,220 | 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 | 169,792 | 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 | 200,188 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 155,341 | 4   | 170,421 | 4   | 185,473 | 4   | 200,501 | 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 | 155,969 | 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   | 171,677 | 5   | 186,725 | 5   | 201,754 | 5   |         | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 156,912 | 1/4 | 171,992 | 1/4 | 187,038 | 1/4 | 202,065 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 157,226 | 1/2 | 172,306 | 1/2 | 187,351 | 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 | 202,688 | 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 | 158,168 | 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 | 173,562 | 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 | 160,053 | 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   | 175,447 | 8   | 190,482 | 8   | 205,480 | 8   |         | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 160,682 | 1/4 | 175,762 | 1/4 | 190,796 | 1/4 | 205,790 | 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 | 161,938 | 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 | 193,613 | 1/2 | 208,580 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 163,823 | 3/4 | 178,898 | 3/4 | 193,926 | 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: 02/13/2017 CL  
CALCULATED: 02/14/2017 CL  
PRINTED: 02/14/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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





# BARGE "HFL 3010"

**1 STBD  
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   | 148,428 | 0   | 163,454 | 0   | 178,471 | 0   | 193,453 | 0   | 208,363 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 148,741 | 1/4 | 163,767 | 1/4 | 178,783 | 1/4 | 193,765 | 1/4 | 208,643 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 149,054 | 1/2 | 164,080 | 1/2 | 179,095 | 1/2 | 194,077 | 1/2 | 208,923 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 149,367 | 3/4 | 164,393 | 3/4 | 179,407 | 3/4 | 194,389 | 3/4 | 209,204 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 149,680 | 1   | 164,706 | 1   | 179,719 | 1   | 194,702 | 1   | 209,484 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 149,993 | 1/4 | 165,019 | 1/4 | 180,031 | 1/4 | 195,014 | 1/4 | 209,716 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 150,306 | 1/2 | 165,332 | 1/2 | 180,344 | 1/2 | 195,326 | 1/2 | 209,947 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 150,619 | 3/4 | 165,645 | 3/4 | 180,656 | 3/4 | 195,638 | 3/4 | 210,179 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 150,932 | 2   | 165,958 | 2   | 180,968 | 2   | 195,950 | 2   | 210,411 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 151,245 | 1/4 | 166,271 | 1/4 | 181,280 | 1/4 | 196,262 | 1/4 | 210,591 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 151,558 | 1/2 | 166,584 | 1/2 | 181,592 | 1/2 | 196,574 | 1/2 | 210,770 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 151,871 | 3/4 | 166,897 | 3/4 | 181,904 | 3/4 | 196,886 | 3/4 | 210,950 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 152,184 | 3   | 167,210 | 3   | 182,216 | 3   | 197,199 | 3   | 211,130 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 152,497 | 1/4 | 167,523 | 1/4 | 182,528 | 1/4 | 197,511 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 152,810 | 1/2 | 167,837 | 1/2 | 182,841 | 1/2 | 197,823 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 153,124 | 3/4 | 168,150 | 3/4 | 183,153 | 3/4 | 198,135 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 153,437 | 4   | 168,463 | 4   | 183,465 | 4   | 198,447 | 4   |         | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 153,750 | 1/4 | 168,776 | 1/4 | 183,777 | 1/4 | 198,759 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 154,063 | 1/2 | 169,089 | 1/2 | 184,089 | 1/2 | 199,071 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 154,376 | 3/4 | 169,402 | 3/4 | 184,401 | 3/4 | 199,383 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 154,689 | 5   | 169,715 | 5   | 184,713 | 5   | 199,696 | 5   |         | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 155,002 | 1/4 | 170,028 | 1/4 | 185,026 | 1/4 | 200,007 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 155,315 | 1/2 | 170,341 | 1/2 | 185,338 | 1/2 | 200,318 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 155,628 | 3/4 | 170,654 | 3/4 | 185,650 | 3/4 | 200,629 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 155,941 | 6   | 170,967 | 6   | 185,962 | 6   | 200,940 | 6   |         | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 156,254 | 1/4 | 171,280 | 1/4 | 186,274 | 1/4 | 201,250 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 156,567 | 1/2 | 171,593 | 1/2 | 186,586 | 1/2 | 201,560 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 156,880 | 3/4 | 171,906 | 3/4 | 186,898 | 3/4 | 201,870 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 157,193 | 7   | 172,219 | 7   | 187,210 | 7   | 202,180 | 7   |         | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 157,506 | 1/4 | 172,532 | 1/4 | 187,523 | 1/4 | 202,490 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 157,819 | 1/2 | 172,845 | 1/2 | 187,835 | 1/2 | 202,800 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 158,132 | 3/4 | 173,158 | 3/4 | 188,147 | 3/4 | 203,110 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 158,445 | 8   | 173,471 | 8   | 188,459 | 8   | 203,420 | 8   |         | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 158,758 | 1/4 | 173,784 | 1/4 | 188,771 | 1/4 | 203,730 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 159,071 | 1/2 | 174,097 | 1/2 | 189,083 | 1/2 | 204,040 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 159,384 | 3/4 | 174,410 | 3/4 | 189,395 | 3/4 | 204,350 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 159,697 | 9   | 174,723 | 9   | 189,707 | 9   | 204,660 | 9   |         | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 160,010 | 1/4 | 175,036 | 1/4 | 190,020 | 1/4 | 204,970 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 160,323 | 1/2 | 175,349 | 1/2 | 190,332 | 1/2 | 205,281 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 160,637 | 3/4 | 175,661 | 3/4 | 190,644 | 3/4 | 205,591 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 160,950 | 10  | 175,974 | 10  | 190,956 | 10  | 205,901 | 10  |         | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 161,263 | 1/4 | 176,286 | 1/4 | 191,268 | 1/4 | 206,210 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 161,576 | 1/2 | 176,598 | 1/2 | 191,580 | 1/2 | 206,520 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 161,889 | 3/4 | 176,910 | 3/4 | 191,892 | 3/4 | 206,829 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 162,202 | 11  | 177,222 | 11  | 192,204 | 11  | 207,139 | 11  |         | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 162,515 | 1/4 | 177,534 | 1/4 | 192,517 | 1/4 | 207,445 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 162,828 | 1/2 | 177,847 | 1/2 | 192,829 | 1/2 | 207,751 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 163,141 | 3/4 | 178,159 | 3/4 | 193,141 | 3/4 | 208,057 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/13/2017 CL  
CALCULATED: 02/14/2017 CL  
PRINTED: 02/14/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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





# BARGE "HFL 3010"

## 1 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   | 148,070 | 0   | 163,069 | 0   | 178,059 | 0   | 193,015 | 0   | 207,898 | 0   |        | 0   |        | 0   |        | 0   |        | 0   |        |
| 1/4 | 148,382 | 1/4 | 163,382 | 1/4 | 178,371 | 1/4 | 193,327 | 1/4 | 208,178 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 148,695 | 1/2 | 163,694 | 1/2 | 178,683 | 1/2 | 193,638 | 1/2 | 208,458 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 149,007 | 3/4 | 164,007 | 3/4 | 178,994 | 3/4 | 193,950 | 3/4 | 208,738 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 149,320 | 1   | 164,319 | 1   | 179,306 | 1   | 194,261 | 1   | 209,017 | 1   |        | 1   |        | 1   |        | 1   |        | 1   |        |
| 1/4 | 149,632 | 1/4 | 164,632 | 1/4 | 179,617 | 1/4 | 194,573 | 1/4 | 209,249 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 149,945 | 1/2 | 164,944 | 1/2 | 179,929 | 1/2 | 194,885 | 1/2 | 209,480 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 150,257 | 3/4 | 165,257 | 3/4 | 180,241 | 3/4 | 195,196 | 3/4 | 209,712 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 150,570 | 2   | 165,569 | 2   | 180,552 | 2   | 195,508 | 2   | 209,943 | 2   |        | 2   |        | 2   |        | 2   |        | 2   |        |
| 1/4 | 150,882 | 1/4 | 165,882 | 1/4 | 180,864 | 1/4 | 195,819 | 1/4 | 210,122 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 151,195 | 1/2 | 166,194 | 1/2 | 181,175 | 1/2 | 196,131 | 1/2 | 210,302 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 151,507 | 3/4 | 166,507 | 3/4 | 181,487 | 3/4 | 196,442 | 3/4 | 210,481 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 151,820 | 3   | 166,819 | 3   | 181,798 | 3   | 196,754 | 3   | 210,660 | 3   |        | 3   |        | 3   |        | 3   |        | 3   |        |
| 1/4 | 152,132 | 1/4 | 167,132 | 1/4 | 182,110 | 1/4 | 197,066 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 152,445 | 1/2 | 167,444 | 1/2 | 182,422 | 1/2 | 197,377 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 152,757 | 3/4 | 167,757 | 3/4 | 182,733 | 3/4 | 197,689 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 153,070 | 4   | 168,069 | 4   | 183,045 | 4   | 198,000 | 4   |         | 4   |        | 4   |        | 4   |        | 4   |        | 4   |        |
| 1/4 | 153,382 | 1/4 | 168,382 | 1/4 | 183,356 | 1/4 | 198,312 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 153,695 | 1/2 | 168,694 | 1/2 | 183,668 | 1/2 | 198,623 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 154,007 | 3/4 | 169,006 | 3/4 | 183,979 | 3/4 | 198,935 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 154,320 | 5   | 169,319 | 5   | 184,291 | 5   | 199,247 | 5   |         | 5   |        | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 154,632 | 1/4 | 169,631 | 1/4 | 184,603 | 1/4 | 199,557 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 154,945 | 1/2 | 169,944 | 1/2 | 184,914 | 1/2 | 199,868 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 155,257 | 3/4 | 170,256 | 3/4 | 185,226 | 3/4 | 200,178 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 155,570 | 6   | 170,569 | 6   | 185,537 | 6   | 200,489 | 6   |         | 6   |        | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 155,882 | 1/4 | 170,881 | 1/4 | 185,849 | 1/4 | 200,798 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 156,195 | 1/2 | 171,194 | 1/2 | 186,160 | 1/2 | 201,108 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 156,507 | 3/4 | 171,506 | 3/4 | 186,472 | 3/4 | 201,417 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 156,819 | 7   | 171,819 | 7   | 186,784 | 7   | 201,726 | 7   |         | 7   |        | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 157,132 | 1/4 | 172,131 | 1/4 | 187,095 | 1/4 | 202,036 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 157,445 | 1/2 | 172,444 | 1/2 | 187,407 | 1/2 | 202,345 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 157,757 | 3/4 | 172,756 | 3/4 | 187,718 | 3/4 | 202,655 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 158,069 | 8   | 173,069 | 8   | 188,030 | 8   | 202,964 | 8   |         | 8   |        | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 158,382 | 1/4 | 173,381 | 1/4 | 188,341 | 1/4 | 203,274 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 158,695 | 1/2 | 173,694 | 1/2 | 188,653 | 1/2 | 203,584 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 159,007 | 3/4 | 174,006 | 3/4 | 188,965 | 3/4 | 203,893 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 159,319 | 9   | 174,319 | 9   | 189,276 | 9   | 204,203 | 9   |         | 9   |        | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 159,632 | 1/4 | 174,631 | 1/4 | 189,588 | 1/4 | 204,512 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 159,945 | 1/2 | 174,943 | 1/2 | 189,899 | 1/2 | 204,822 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 160,257 | 3/4 | 175,255 | 3/4 | 190,211 | 3/4 | 205,131 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 160,569 | 10  | 175,567 | 10  | 190,523 | 10  | 205,441 | 10  |         | 10  |        | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 160,882 | 1/4 | 175,878 | 1/4 | 190,834 | 1/4 | 205,750 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 161,194 | 1/2 | 176,190 | 1/2 | 191,146 | 1/2 | 206,059 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 161,507 | 3/4 | 176,502 | 3/4 | 191,457 | 3/4 | 206,368 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 161,819 | 11  | 176,813 | 11  | 191,769 | 11  | 206,677 | 11  |         | 11  |        | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 162,132 | 1/4 | 177,125 | 1/4 | 192,080 | 1/4 | 206,982 | 1/4 |         | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 162,444 | 1/2 | 177,436 | 1/2 | 192,392 | 1/2 | 207,288 | 1/2 |         | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 162,757 | 3/4 | 177,748 | 3/4 | 192,704 | 3/4 | 207,593 | 3/4 |         | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/13/2017 CL  
CALCULATED: 02/14/2017 CL  
PRINTED: 02/14/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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





# BARGE "HFL 3010"

## 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 |       |

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 AT GAUGE POINT

STRAPPED: 02/13/2017 CL  
CALCULATED: 02/14/2017 CL  
PRINTED: 02/14/2017 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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



# BARGE "HFL 3010"

## STBD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06 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   | 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 | 1/4   | 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 | 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 | 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     | 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 | 1/4   | 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 | 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 | 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   | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 3   | 385   | 3   | 1,540 | 3   | 2,694 | 3   | 3,849 | 3   | 4,999 | 3   |       | 3   |       | 3   | 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 | 1/4   | 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 | 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 | 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   | 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 | 1/4   | 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 | 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 | 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   | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 6   | 674   | 6   | 1,829 | 6   | 2,982 | 6   | 4,137 | 6   |       | 6   |       | 6   |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 7   | 770   | 7   | 1,925 | 7   | 3,079 | 7   | 4,234 | 7   |       | 7   |       | 7   |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 8   | 866   | 8   | 2,021 | 8   | 3,175 | 8   | 4,330 | 8   |       | 8   |       | 8   |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 9   | 963   | 9   | 2,117 | 9   | 3,271 | 9   | 4,426 | 9   |       | 9   |       | 9   |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 10  | 1,059 | 10  | 2,214 | 10  | 3,367 | 10  | 4,522 | 10  |       | 10  |       | 10  |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 11  | 1,155 | 11  | 2,310 | 11  | 3,464 | 11  | 4,619 | 11  |       | 11  |       | 11  |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7  
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT

STRAPPED: 02/13/2017 CL  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 02/2017

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



# BARGE "HFL 3010"

## PORT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT 5'-06 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   | 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 | 1/4   | 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 | 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 | 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     | 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 | 1/4   | 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 | 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 | 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   | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 3   | 385   | 3   | 1,540 | 3   | 2,694 | 3   | 3,849 | 3   | 4,999 | 3   |       | 3   |       | 3   | 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 | 1/4   | 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 | 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 | 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   | 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 | 1/4   | 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 | 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 | 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   | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 6   | 674   | 6   | 1,829 | 6   | 2,982 | 6   | 4,137 | 6   |       | 6   |       | 6   |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 7   | 770   | 7   | 1,925 | 7   | 3,079 | 7   | 4,234 | 7   |       | 7   |       | 7   |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 8   | 866   | 8   | 2,021 | 8   | 3,175 | 8   | 4,330 | 8   |       | 8   |       | 8   |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 9   | 963   | 9   | 2,117 | 9   | 3,271 | 9   | 4,426 | 9   |       | 9   |       | 9   |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 10  | 1,059 | 10  | 2,214 | 10  | 3,367 | 10  | 4,522 | 10  |       | 10  |       | 10  |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |
| 11  | 1,155 | 11  | 2,310 | 11  | 3,464 | 11  | 4,619 | 11  |       | 11  |       | 11  |       | 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 | 1/4   | 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 | 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 | 3/4   | 3/4 | 3/4   |

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