



BARGE "HTCO 3082"

ULLAGE TRIM TABLE (HERMETIC)

	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	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-1/2	00-1/2
1 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-1/2	00-1/2
2 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-5/8	00-5/8
2 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-5/8	00-5/8
3 PORT	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-5/8	00-5/8
3 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-1/2	00-1/2	- 00-5/8	00-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-1/4"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/4"

LENGTH BETWEEN DRAFT MARKS: 237'-06"

March 3, 2022

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HTCO 3082"

1 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-02 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	2,541.60	0	2,185.01	0	1,828.41	0	1,471.82	0	1,115.23	0	758.64	0	400.69	0	66.82	0		0	
1/4	2,534.17	1/4	2,177.58	1/4	1,820.98	1/4	1,464.39	1/4	1,107.80	1/4	751.21	1/4	393.33	1/4	60.56	1/4		1/4	
1/2	2,526.74	1/2	2,170.15	1/2	1,813.55	1/2	1,456.96	1/2	1,100.37	1/2	743.78	1/2	385.97	1/2	54.30	1/2		1/2	
3/4	2,519.31	3/4	2,162.72	3/4	1,806.13	3/4	1,449.54	3/4	1,092.94	3/4	736.35	3/4	378.62	3/4	48.04	3/4		3/4	
1	2,511.88	1	2,155.29	1	1,798.70	1	1,442.11	1	1,085.51	1	728.92	1	371.26	1	41.78	1		1	
1/4	2,504.45	1/4	2,147.86	1/4	1,791.27	1/4	1,434.68	1/4	1,078.08	1/4	721.49	1/4	363.93	1/4	36.84	1/4		1/4	
1/2	2,497.02	1/2	2,140.43	1/2	1,783.84	1/2	1,427.25	1/2	1,070.65	1/2	714.06	1/2	356.60	1/2	31.90	1/2		1/2	
3/4	2,489.60	3/4	2,133.00	3/4	1,776.41	3/4	1,419.82	3/4	1,063.23	3/4	706.63	3/4	349.27	3/4	26.97	3/4		3/4	
2	2,482.17	2	2,125.57	2	1,768.98	2	1,412.39	2	1,055.80	2	699.20	2	341.94	2	22.03	2		2	
1/4	2,474.74	1/4	2,118.14	1/4	1,761.55	1/4	1,404.96	1/4	1,048.37	1/4	691.77	1/4	334.70	1/4	18.62	1/4		1/4	
1/2	2,467.31	1/2	2,110.71	1/2	1,754.12	1/2	1,397.53	1/2	1,040.94	1/2	684.34	1/2	327.47	1/2		1/2		1/2	
3/4	2,459.88	3/4	2,103.29	3/4	1,746.70	3/4	1,390.10	3/4	1,033.51	3/4	676.92	3/4	320.23	3/4		3/4		3/4	
3	2,452.45	3	2,095.86	3	1,739.27	3	1,382.67	3	1,026.08	3	669.49	3	313.00	3		3		3	
1/4	2,445.02	1/4	2,088.43	1/4	1,731.84	1/4	1,375.24	1/4	1,018.65	1/4	662.06	1/4	305.80	1/4		1/4		1/4	
1/2	2,437.59	1/2	2,081.00	1/2	1,724.41	1/2	1,367.81	1/2	1,011.22	1/2	654.63	1/2	298.59	1/2		1/2		1/2	
3/4	2,430.16	3/4	2,073.57	3/4	1,716.98	3/4	1,360.39	3/4	1,003.79	3/4	647.20	3/4	291.39	3/4		3/4		3/4	
4	2,422.73	4	2,066.14	4	1,709.55	4	1,352.96	4	996.36	4	639.77	4	284.19	4		4		4	
1/4	2,415.30	1/4	2,058.71	1/4	1,702.12	1/4	1,345.53	1/4	988.93	1/4	632.34	1/4	277.08	1/4		1/4		1/4	
1/2	2,407.87	1/2	2,051.28	1/2	1,694.69	1/2	1,338.10	1/2	981.50	1/2	624.91	1/2	269.97	1/2		1/2		1/2	
3/4	2,400.45	3/4	2,043.86	3/4	1,687.26	3/4	1,330.67	3/4	974.08	3/4	617.49	3/4	262.87	3/4		3/4		3/4	
5	2,393.02	5	2,036.43	5	1,679.83	5	1,323.24	5	966.65	5	610.06	5	255.76	5		5		5	
1/4	2,385.59	1/4	2,029.00	1/4	1,672.40	1/4	1,315.81	1/4	959.22	1/4	602.63	1/4	248.68	1/4		1/4		1/4	
1/2	2,378.16	1/2	2,021.57	1/2	1,664.97	1/2	1,308.38	1/2	951.79	1/2	595.20	1/2	241.60	1/2		1/2		1/2	
3/4	2,370.73	3/4	2,014.14	3/4	1,657.55	3/4	1,300.96	3/4	944.36	3/4	587.77	3/4	234.53	3/4		3/4		3/4	
6	2,363.30	6	2,006.71	6	1,650.12	6	1,293.53	6	936.93	6	580.34	6	227.45	6		6		6	
1/4	2,355.87	1/4	1,999.28	1/4	1,642.69	1/4	1,286.10	1/4	929.50	1/4	572.91	1/4	220.47	1/4		1/4		1/4	
1/2	2,348.44	1/2	1,991.85	1/2	1,635.26	1/2	1,278.67	1/2	922.07	1/2	565.48	1/2	213.48	1/2		1/2		1/2	
3/4	2,341.02	3/4	1,984.42	3/4	1,627.83	3/4	1,271.24	3/4	914.65	3/4	558.06	3/4	206.50	3/4		3/4		3/4	
7	2,333.59	7	1,976.99	7	1,620.40	7	1,263.81	7	907.22	7	550.63	7	199.52	7		7		7	
1/4	2,326.16	1/4	1,969.56	1/4	1,612.97	1/4	1,256.38	1/4	899.79	1/4	543.20	1/4	192.57	1/4		1/4		1/4	
1/2	2,318.73	1/2	1,962.13	1/2	1,605.54	1/2	1,248.95	1/2	892.36	1/2	535.77	1/2	185.61	1/2		1/2		1/2	
3/4	2,311.30	3/4	1,954.71	3/4	1,598.12	3/4	1,241.52	3/4	884.93	3/4	528.34	3/4	178.66	3/4		3/4		3/4	
8	2,303.87	8	1,947.28	8	1,590.69	8	1,234.09	8	877.50	8	520.91	8	171.71	8		8		8	
1/4	2,296.44	1/4	1,939.85	1/4	1,583.26	1/4	1,226.66	1/4	870.07	1/4	513.37	1/4	165.03	1/4		1/4		1/4	
1/2	2,289.01	1/2	1,932.42	1/2	1,575.83	1/2	1,219.23	1/2	862.64	1/2	505.83	1/2	158.35	1/2		1/2		1/2	
3/4	2,281.58	3/4	1,924.99	3/4	1,568.40	3/4	1,211.81	3/4	855.21	3/4	498.29	3/4	151.68	3/4		3/4		3/4	
9	2,274.15	9	1,917.56	9	1,560.97	9	1,204.38	9	847.78	9	490.75	9	145.00	9		9		9	
1/4	2,266.72	1/4	1,910.13	1/4	1,553.54	1/4	1,196.95	1/4	840.35	1/4	483.17	1/4	138.41	1/4		1/4		1/4	
1/2	2,259.29	1/2	1,902.70	1/2	1,546.11	1/2	1,189.52	1/2	832.92	1/2	475.59	1/2	131.83	1/2		1/2		1/2	
3/4	2,251.87	3/4	1,895.28	3/4	1,538.68	3/4	1,182.09	3/4	825.50	3/4	468.01	3/4	125.24	3/4		3/4		3/4	
10	2,244.44	10	1,887.85	10	1,531.25	10	1,174.66	10	818.07	10	460.43	10	118.66	10		10		10	
1/4	2,237.01	1/4	1,880.42	1/4	1,523.82	1/4	1,167.23	1/4	810.64	1/4	452.95	1/4	112.16	1/4		1/4		1/4	
1/2	2,229.58	1/2	1,872.99	1/2	1,516.39	1/2	1,159.80	1/2	803.21	1/2	445.46	1/2	105.67	1/2		1/2		1/2	
3/4	2,222.15	3/4	1,865.56	3/4	1,508.97	3/4	1,152.38	3/4	795.78	3/4	437.98	3/4	99.17	3/4		3/4		3/4	
11	2,214.72	11	1,858.13	11	1,501.54	11	1,144.95	11	788.35	11	430.50	11	92.68	11		11		11	
1/4	2,207.29	1/4	1,850.70	1/4	1,494.11	1/4	1,137.52	1/4	780.92	1/4	423.05	1/4	86.21	1/4		1/4		1/4	
1/2	2,199.86	1/2	1,843.27	1/2	1,486.68	1/2	1,130.09	1/2	773.49	1/2	415.59	1/2	79.75	1/2		1/2		1/2	
3/4	2,192.44	3/4	1,835.84	3/4	1,479.25	3/4	1,122.66	3/4	766.07	3/4	408.14	3/4	73.28	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/14/2011 INSP.
RECALCULATED: 03/03/2022 CL
REPRINTED: 03/03/2022 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2022

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



BARGE "HTCO 3082"

1 STBD ULLAGE TABLE

HERMETIC GAUGE HEIGHT 17'-02 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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		0	5,032.26	0	4,688.58	0	4,332.06	0	3,975.39	0	3,618.80	0	3,262.21	0	2,905.62
1/4		1/4		1/4		1/4	5,027.74	1/4	4,681.15	1/4	4,324.66	1/4	3,967.97	1/4	3,611.37	1/4	3,254.78	1/4	2,898.19
1/2		1/2		1/2		1/2	5,022.08	1/2	4,673.72	1/2	4,317.20	1/2	3,960.54	1/2	3,603.94	1/2	3,247.35	1/2	2,890.76
3/4		3/4		3/4		3/4	5,016.42	3/4	4,666.29	3/4	4,309.75	3/4	3,953.11	3/4	3,596.51	3/4	3,239.92	3/4	2,883.33
1		1		1		1	5,010.77	1	4,658.86	1	4,302.29	1	3,945.68	1	3,589.09	1	3,232.50	1	2,875.90
1/4		1/4		1/4		1/4	5,005.11	1/4	4,651.43	1/4	4,294.84	1/4	3,938.25	1/4	3,581.66	1/4	3,225.07	1/4	2,868.47
1/2		1/2		1/2		1/2	4,998.32	1/2	4,644.00	1/2	4,287.41	1/2	3,930.82	1/2	3,574.23	1/2	3,217.64	1/2	2,861.04
3/4		3/4		3/4		3/4	4,991.53	3/4	4,636.57	3/4	4,279.98	3/4	3,923.39	3/4	3,566.80	3/4	3,210.21	3/4	2,853.61
2		2		2		2	4,984.74	2	4,629.15	2	4,272.55	2	3,915.96	2	3,559.37	2	3,202.78	2	2,846.19
1/4		1/4		1/4		1/4	4,977.95	1/4	4,621.72	1/4	4,265.13	1/4	3,908.53	1/4	3,551.94	1/4	3,195.35	1/4	2,838.76
1/2		1/2		1/2		1/2	4,970.61	1/2	4,614.29	1/2	4,257.70	1/2	3,901.10	1/2	3,544.51	1/2	3,187.92	1/2	2,831.33
3/4		3/4		3/4		3/4	4,963.27	3/4	4,606.86	3/4	4,250.27	3/4	3,893.67	3/4	3,537.08	3/4	3,180.49	3/4	2,823.90
3		3		3		3	4,955.93	3	4,599.43	3	4,242.84	3	3,886.25	3	3,529.66	3	3,173.06	3	2,816.47
1/4		1/4		1/4		1/4	4,948.59	1/4	4,592.00	1/4	4,235.41	1/4	3,878.82	1/4	3,522.23	1/4	3,165.63	1/4	2,809.04
1/2		1/2		1/2		1/2	4,941.16	1/2	4,584.57	1/2	4,227.98	1/2	3,871.39	1/2	3,514.80	1/2	3,158.20	1/2	2,801.61
3/4		3/4		3/4		3/4	4,933.73	3/4	4,577.14	3/4	4,220.55	3/4	3,863.96	3/4	3,507.37	3/4	3,150.77	3/4	2,794.18
4		4		4		4	4,926.31	4	4,569.72	4	4,213.12	4	3,856.53	4	3,499.94	4	3,143.35	4	2,786.76
1/4		1/4		1/4		1/4	4,918.88	1/4	4,562.29	1/4	4,205.69	1/4	3,849.10	1/4	3,492.51	1/4	3,135.92	1/4	2,779.33
1/2		1/2		1/2		1/2	4,911.45	1/2	4,554.86	1/2	4,198.26	1/2	3,841.67	1/2	3,485.08	1/2	3,128.49	1/2	2,771.90
3/4		3/4		3/4		3/4	4,904.02	3/4	4,547.43	3/4	4,190.83	3/4	3,834.24	3/4	3,477.65	3/4	3,121.06	3/4	2,764.47
5		5		5		5	4,896.59	5	4,540.00	5	4,183.40	5	3,826.82	5	3,470.22	5	3,113.63	5	2,757.04
1/4		1/4		1/4		1/4	4,889.16	1/4	4,532.57	1/4	4,175.98	1/4	3,819.39	1/4	3,462.79	1/4	3,106.20	1/4	2,749.61
1/2		1/2		1/2		1/2	4,881.73	1/2	4,525.14	1/2	4,168.55	1/2	3,811.96	1/2	3,455.36	1/2	3,098.77	1/2	2,742.18
3/4		3/4		3/4		3/4	4,874.30	3/4	4,517.71	3/4	4,161.12	3/4	3,804.53	3/4	3,447.93	3/4	3,091.34	3/4	2,734.75
6		6		6		6	4,866.88	6	4,510.28	6	4,153.69	6	3,797.10	6	3,440.51	6	3,083.92	6	2,727.32
1/4		1/4		1/4		1/4	4,859.45	1/4	4,502.85	1/4	4,146.26	1/4	3,789.67	1/4	3,433.08	1/4	3,076.49	1/4	2,719.89
1/2		1/2		1/2		1/2	4,852.02	1/2	4,495.42	1/2	4,138.83	1/2	3,782.24	1/2	3,425.65	1/2	3,069.06	1/2	2,712.46
3/4		3/4		3/4		3/4	4,844.59	3/4	4,487.99	3/4	4,131.40	3/4	3,774.81	3/4	3,418.22	3/4	3,061.63	3/4	2,705.03
7		7		7		7	4,837.16	7	4,480.56	7	4,123.97	7	3,767.38	7	3,410.79	7	3,054.20	7	2,697.61
1/4		1/4		1/4		1/4	4,829.73	1/4	4,473.14	1/4	4,116.55	1/4	3,759.95	1/4	3,403.36	1/4	3,046.77	1/4	2,690.18
1/2		1/2		1/2		1/2	4,822.30	1/2	4,465.71	1/2	4,109.12	1/2	3,752.52	1/2	3,395.93	1/2	3,039.34	1/2	2,682.75
3/4		3/4		3/4		3/4	4,814.87	3/4	4,458.28	3/4	4,101.69	3/4	3,745.09	3/4	3,388.50	3/4	3,031.91	3/4	2,675.32
8		8		8		8	4,807.44	8	4,450.85	8	4,094.26	8	3,737.67	8	3,381.08	8	3,024.48	8	2,667.89
1/4		1/4		1/4		1/4	4,800.01	1/4	4,443.42	1/4	4,086.83	1/4	3,730.24	1/4	3,373.65	1/4	3,017.05	1/4	2,660.46
1/2		1/2		1/2		1/2	4,792.58	1/2	4,435.99	1/2	4,079.40	1/2	3,722.81	1/2	3,366.22	1/2	3,009.62	1/2	2,653.03
3/4		3/4		3/4		3/4	4,785.15	3/4	4,428.56	3/4	4,071.97	3/4	3,715.38	3/4	3,358.79	3/4	3,002.19	3/4	2,645.60
9		9		9		9	4,777.73	9	4,421.13	9	4,064.54	9	3,707.95	9	3,351.36	9	2,994.77	9	2,638.18
1/4		1/4		1/4		1/4	4,770.30	1/4	4,413.71	1/4	4,057.11	1/4	3,700.52	1/4	3,343.93	1/4	2,987.34	1/4	2,630.75
1/2		1/2		1/2		1/2	4,762.87	1/2	4,406.28	1/2	4,049.68	1/2	3,693.09	1/2	3,336.50	1/2	2,979.91	1/2	2,623.32
3/4		3/4		3/4		3/4	4,755.44	3/4	4,398.85	3/4	4,042.25	3/4	3,685.66	3/4	3,329.07	3/4	2,972.48	3/4	2,615.89
10		10		10		10	4,748.01	10	4,391.42	10	4,034.82	10	3,678.24	10	3,321.64	10	2,965.05	10	2,608.46
1/4		1/4		1/4		1/4	4,740.58	1/4	4,383.99	1/4	4,027.40	1/4	3,670.81	1/4	3,314.21	1/4	2,957.62	1/4	2,601.03
1/2		1/2		1/2		1/2	4,733.15	1/2	4,376.56	1/2	4,019.97	1/2	3,663.38	1/2	3,306.78	1/2	2,950.19	1/2	2,593.60
3/4		3/4		3/4		3/4	4,725.72	3/4	4,369.13	3/4	4,012.54	3/4	3,655.95	3/4	3,299.35	3/4	2,942.76	3/4	2,586.17
11		11		11		11	4,718.30	11	4,361.70	11	4,005.11	11	3,648.52	11	3,291.93	11	2,935.34	11	2,578.74
1/4		1/4		1/4		1/4	4,710.87	1/4	4,354.27	1/4	3,997.68	1/4	3,641.09	1/4	3,284.50	1/4	2,927.91	1/4	2,571.31
1/2		1/2		1/2		1/2	4,703.44	1/2	4,346.86	1/2	3,990.25	1/2	3,633.66	1/2	3,277.07	1/2	2,920.48	1/2	2,563.88
3/4		3/4		3/4		3/4	4,696.01	3/4	4,339.46	3/4	3,982.82	3/4	3,626.23	3/4	3,269.64	3/4	2,913.05	3/4	2,556.45

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-00" FORWARD OF AFT BULKHEAD.

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



BARGE "HTCO 3082"

1 STBD ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-02 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,549.03	0	2,192.44	0	1,835.84	0	1,479.25	0	1,122.66	0	766.07	0	408.14	0	73.28	0		0	
1/4	2,541.60	1/4	2,185.01	1/4	1,828.41	1/4	1,471.82	1/4	1,115.23	1/4	758.64	1/4	400.69	1/4	66.82	1/4		1/4	
1/2	2,534.17	1/2	2,177.58	1/2	1,820.98	1/2	1,464.39	1/2	1,107.80	1/2	751.21	1/2	393.33	1/2	60.56	1/2		1/2	
3/4	2,526.74	3/4	2,170.15	3/4	1,813.55	3/4	1,456.96	3/4	1,100.37	3/4	743.78	3/4	385.97	3/4	54.30	3/4		3/4	
1	2,519.31	1	2,162.72	1	1,806.13	1	1,449.54	1	1,092.94	1	736.35	1	378.62	1	48.04	1		1	
1/4	2,511.88	1/4	2,155.29	1/4	1,798.70	1/4	1,442.11	1/4	1,085.51	1/4	728.92	1/4	371.26	1/4	41.78	1/4		1/4	
1/2	2,504.45	1/2	2,147.86	1/2	1,791.27	1/2	1,434.68	1/2	1,078.08	1/2	721.49	1/2	363.93	1/2	36.84	1/2		1/2	
3/4	2,497.02	3/4	2,140.43	3/4	1,783.84	3/4	1,427.25	3/4	1,070.65	3/4	714.06	3/4	356.60	3/4	31.90	3/4		3/4	
2	2,489.60	2	2,133.00	2	1,776.41	2	1,419.82	2	1,063.23	2	706.63	2	349.27	2	26.97	2		2	
1/4	2,482.17	1/4	2,125.57	1/4	1,768.98	1/4	1,412.39	1/4	1,055.80	1/4	699.20	1/4	341.94	1/4	22.03	1/4		1/4	
1/2	2,474.74	1/2	2,118.14	1/2	1,761.55	1/2	1,404.96	1/2	1,048.37	1/2	691.77	1/2	334.70	1/2	18.62	1/2		1/2	
3/4	2,467.31	3/4	2,110.71	3/4	1,754.12	3/4	1,397.53	3/4	1,040.94	3/4	684.34	3/4	327.47	3/4		3/4		3/4	
3	2,459.88	3	2,103.29	3	1,746.70	3	1,390.10	3	1,033.51	3	676.92	3	320.23	3		3		3	
1/4	2,452.45	1/4	2,095.86	1/4	1,739.27	1/4	1,382.67	1/4	1,026.08	1/4	669.49	1/4	313.00	1/4		1/4		1/4	
1/2	2,445.02	1/2	2,088.43	1/2	1,731.84	1/2	1,375.24	1/2	1,018.65	1/2	662.06	1/2	305.80	1/2		1/2		1/2	
3/4	2,437.59	3/4	2,081.00	3/4	1,724.41	3/4	1,367.81	3/4	1,011.22	3/4	654.63	3/4	298.59	3/4		3/4		3/4	
4	2,430.16	4	2,073.57	4	1,716.98	4	1,360.39	4	1,003.79	4	647.20	4	291.39	4		4		4	
1/4	2,422.73	1/4	2,066.14	1/4	1,709.55	1/4	1,352.96	1/4	996.36	1/4	639.77	1/4	284.19	1/4		1/4		1/4	
1/2	2,415.30	1/2	2,058.71	1/2	1,702.12	1/2	1,345.53	1/2	988.93	1/2	632.34	1/2	277.08	1/2		1/2		1/2	
3/4	2,407.87	3/4	2,051.28	3/4	1,694.69	3/4	1,338.10	3/4	981.50	3/4	624.91	3/4	269.97	3/4		3/4		3/4	
5	2,400.45	5	2,043.86	5	1,687.26	5	1,330.67	5	974.08	5	617.49	5	262.87	5		5		5	
1/4	2,393.02	1/4	2,036.43	1/4	1,679.83	1/4	1,323.24	1/4	966.65	1/4	610.06	1/4	255.76	1/4		1/4		1/4	
1/2	2,385.59	1/2	2,029.00	1/2	1,672.40	1/2	1,315.81	1/2	959.22	1/2	602.63	1/2	248.68	1/2		1/2		1/2	
3/4	2,378.16	3/4	2,021.57	3/4	1,664.97	3/4	1,308.38	3/4	951.79	3/4	595.20	3/4	241.60	3/4		3/4		3/4	
6	2,370.73	6	2,014.14	6	1,657.55	6	1,300.96	6	944.36	6	587.77	6	234.53	6		6		6	
1/4	2,363.30	1/4	2,006.71	1/4	1,650.12	1/4	1,293.53	1/4	936.93	1/4	580.34	1/4	227.45	1/4		1/4		1/4	
1/2	2,355.87	1/2	1,999.28	1/2	1,642.69	1/2	1,286.10	1/2	929.50	1/2	572.91	1/2	220.47	1/2		1/2		1/2	
3/4	2,348.44	3/4	1,991.85	3/4	1,635.26	3/4	1,278.67	3/4	922.07	3/4	565.48	3/4	213.48	3/4		3/4		3/4	
7	2,341.02	7	1,984.42	7	1,627.83	7	1,271.24	7	914.65	7	558.06	7	206.50	7		7		7	
1/4	2,333.59	1/4	1,976.99	1/4	1,620.40	1/4	1,263.81	1/4	907.22	1/4	550.63	1/4	199.52	1/4		1/4		1/4	
1/2	2,326.16	1/2	1,969.56	1/2	1,612.97	1/2	1,256.38	1/2	899.79	1/2	543.20	1/2	192.57	1/2		1/2		1/2	
3/4	2,318.73	3/4	1,962.13	3/4	1,605.54	3/4	1,248.95	3/4	892.36	3/4	535.77	3/4	185.61	3/4		3/4		3/4	
8	2,311.30	8	1,954.71	8	1,598.12	8	1,241.52	8	884.93	8	528.34	8	178.66	8		8		8	
1/4	2,303.87	1/4	1,947.28	1/4	1,590.69	1/4	1,234.09	1/4	877.50	1/4	520.91	1/4	171.71	1/4		1/4		1/4	
1/2	2,296.44	1/2	1,939.85	1/2	1,583.26	1/2	1,226.66	1/2	870.07	1/2	513.37	1/2	165.03	1/2		1/2		1/2	
3/4	2,289.01	3/4	1,932.42	3/4	1,575.83	3/4	1,219.23	3/4	862.64	3/4	505.83	3/4	158.35	3/4		3/4		3/4	
9	2,281.58	9	1,924.99	9	1,568.40	9	1,211.81	9	855.21	9	498.29	9	151.68	9		9		9	
1/4	2,274.15	1/4	1,917.56	1/4	1,560.97	1/4	1,204.38	1/4	847.78	1/4	490.75	1/4	145.00	1/4		1/4		1/4	
1/2	2,266.72	1/2	1,910.13	1/2	1,553.54	1/2	1,196.95	1/2	840.35	1/2	483.17	1/2	138.41	1/2		1/2		1/2	
3/4	2,259.29	3/4	1,902.70	3/4	1,546.11	3/4	1,189.52	3/4	832.92	3/4	475.59	3/4	131.83	3/4		3/4		3/4	
10	2,251.87	10	1,895.28	10	1,538.68	10	1,182.09	10	825.50	10	468.01	10	125.24	10		10		10	
1/4	2,244.44	1/4	1,887.85	1/4	1,531.25	1/4	1,174.66	1/4	818.07	1/4	460.43	1/4	118.66	1/4		1/4		1/4	
1/2	2,237.01	1/2	1,880.42	1/2	1,523.82	1/2	1,167.23	1/2	810.64	1/2	452.95	1/2	112.16	1/2		1/2		1/2	
3/4	2,229.58	3/4	1,872.99	3/4	1,516.39	3/4	1,159.80	3/4	803.21	3/4	445.46	3/4	105.67	3/4		3/4		3/4	
11	2,222.15	11	1,865.56	11	1,508.97	11	1,152.38	11	795.78	11	437.98	11	99.17	11		11		11	
1/4	2,214.72	1/4	1,858.13	1/4	1,501.54	1/4	1,144.95	1/4	788.35	1/4	430.50	1/4	92.68	1/4		1/4		1/4	
1/2	2,207.29	1/2	1,850.70	1/2	1,494.11	1/2	1,137.52	1/2	780.92	1/2	423.05	1/2	86.21	1/2		1/2		1/2	
3/4	2,199.86	3/4	1,843.27	3/4	1,486.68	3/4	1,130.09	3/4	773.49	3/4	415.59	3/4	79.75	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/14/2011 INSP.
RECALCULATED: 03/03/2022 CL
REPRINTED: 03/03/2022 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2022

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



BARGE "HTCO 3082"

2 PORT ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-02 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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		0	5,082.29	0	4,753.31	0	4,395.70	0	4,035.12	0	3,674.55	0	3,313.97	0	2,953.39
1/4		1/4		1/4		1/4	5,078.03	1/4	4,746.17	1/4	4,388.19	1/4	4,027.61	1/4	3,667.04	1/4	3,306.46	1/4	2,945.88
1/2		1/2		1/2		1/2	5,072.71	1/2	4,739.03	1/2	4,380.68	1/2	4,020.12	1/2	3,659.53	1/2	3,298.95	1/2	2,938.37
3/4		3/4		3/4		3/4	5,067.38	3/4	4,731.89	3/4	4,373.17	3/4	4,012.64	3/4	3,652.02	3/4	3,291.44	3/4	2,930.86
1		1		1		1	5,062.06	1	4,724.75	1	4,365.65	1	4,005.15	1	3,644.50	1	3,283.92	1	2,923.35
1/4		1/4		1/4		1/4	5,056.73	1/4	4,717.61	1/4	4,358.14	1/4	3,997.66	1/4	3,636.99	1/4	3,276.41	1/4	2,915.84
1/2		1/2		1/2		1/2	5,050.38	1/2	4,710.38	1/2	4,350.63	1/2	3,990.13	1/2	3,629.48	1/2	3,268.65	1/2	2,908.33
3/4		3/4		3/4		3/4	5,044.03	3/4	4,703.14	3/4	4,343.12	3/4	3,982.59	3/4	3,621.97	3/4	3,260.89	3/4	2,900.82
2		2		2		2	5,037.67	2	4,695.91	2	4,335.60	2	3,975.06	2	3,614.45	2	3,253.12	2	2,893.30
1/4		1/4		1/4		1/4	5,031.32	1/4	4,688.67	1/4	4,328.09	1/4	3,967.52	1/4	3,606.94	1/4	3,245.36	1/4	2,885.79
1/2		1/2		1/2		1/2	5,024.31	1/2	4,681.16	1/2	4,320.58	1/2	3,960.01	1/2	3,599.43	1/2	3,238.10	1/2	2,878.28
3/4		3/4		3/4		3/4	5,017.31	3/4	4,673.65	3/4	4,313.07	3/4	3,952.50	3/4	3,591.92	3/4	3,230.84	3/4	2,870.77
3		3		3		3	5,010.30	3	4,666.13	3	4,305.55	3	3,944.98	3	3,584.40	3	3,223.58	3	2,863.25
1/4		1/4		1/4		1/4	5,003.29	1/4	4,658.62	1/4	4,298.04	1/4	3,937.47	1/4	3,576.89	1/4	3,216.32	1/4	2,855.74
1/2		1/2		1/2		1/2	4,996.15	1/2	4,651.11	1/2	4,290.53	1/2	3,929.96	1/2	3,569.38	1/2	3,208.81	1/2	2,848.23
3/4		3/4		3/4		3/4	4,989.01	3/4	4,643.60	3/4	4,283.02	3/4	3,922.45	3/4	3,561.87	3/4	3,201.30	3/4	2,840.72
4		4		4		4	4,981.86	4	4,636.08	4	4,275.51	4	3,914.93	4	3,554.35	4	3,193.78	4	2,833.20
1/4		1/4		1/4		1/4	4,974.72	1/4	4,628.57	1/4	4,268.00	1/4	3,907.42	1/4	3,546.84	1/4	3,186.27	1/4	2,825.69
1/2		1/2		1/2		1/2	4,967.58	1/2	4,621.06	1/2	4,260.49	1/2	3,899.91	1/2	3,539.33	1/2	3,178.76	1/2	2,818.18
3/4		3/4		3/4		3/4	4,960.44	3/4	4,613.55	3/4	4,252.98	3/4	3,892.40	3/4	3,531.82	3/4	3,171.25	3/4	2,810.67
5		5		5		5	4,953.29	5	4,606.03	5	4,245.46	5	3,884.88	5	3,524.31	5	3,163.73	5	2,803.15
1/4		1/4		1/4		1/4	4,946.15	1/4	4,598.52	1/4	4,237.95	1/4	3,877.37	1/4	3,516.80	1/4	3,156.22	1/4	2,795.64
1/2		1/2		1/2		1/2	4,939.01	1/2	4,591.01	1/2	4,230.44	1/2	3,869.86	1/2	3,509.04	1/2	3,148.71	1/2	2,788.13
3/4		3/4		3/4		3/4	4,931.87	3/4	4,583.50	3/4	4,222.93	3/4	3,862.35	3/4	3,501.28	3/4	3,141.20	3/4	2,780.62
6		6		6		6	4,924.72	6	4,575.99	6	4,215.41	6	3,854.83	6	3,493.51	6	3,133.68	6	2,773.11
1/4		1/4		1/4		1/4	4,917.58	1/4	4,568.48	1/4	4,207.90	1/4	3,847.32	1/4	3,485.75	1/4	3,126.17	1/4	2,765.60
1/2		1/2		1/2		1/2	4,910.44	1/2	4,560.97	1/2	4,200.39	1/2	3,839.81	1/2	3,478.49	1/2	3,118.66	1/2	2,758.09
3/4		3/4		3/4		3/4	4,903.30	3/4	4,553.46	3/4	4,192.88	3/4	3,832.29	3/4	3,471.23	3/4	3,111.15	3/4	2,750.58
7		7		7		7	4,896.15	7	4,545.94	7	4,185.36	7	3,824.78	7	3,463.96	7	3,103.63	7	2,743.06
1/4		1/4		1/4		1/4	4,889.01	1/4	4,538.43	1/4	4,177.85	1/4	3,817.26	1/4	3,456.70	1/4	3,096.12	1/4	2,735.55
1/2		1/2		1/2		1/2	4,881.87	1/2	4,530.92	1/2	4,170.34	1/2	3,809.75	1/2	3,449.19	1/2	3,088.61	1/2	2,728.04
3/4		3/4		3/4		3/4	4,874.73	3/4	4,523.41	3/4	4,162.83	3/4	3,802.25	3/4	3,441.68	3/4	3,081.10	3/4	2,720.53
8		8		8		8	4,867.59	8	4,515.89	8	4,155.31	8	3,794.74	8	3,434.16	8	3,073.59	8	2,713.01
1/4		1/4		1/4		1/4	4,860.45	1/4	4,508.38	1/4	4,147.80	1/4	3,787.23	1/4	3,426.65	1/4	3,066.08	1/4	2,705.50
1/2		1/2		1/2		1/2	4,853.31	1/2	4,500.87	1/2	4,140.29	1/2	3,779.72	1/2	3,419.14	1/2	3,058.57	1/2	2,697.99
3/4		3/4		3/4		3/4	4,846.17	3/4	4,493.36	3/4	4,132.78	3/4	3,772.21	3/4	3,411.63	3/4	3,051.06	3/4	2,690.48
9		9		9		9	4,839.02	9	4,485.84	9	4,125.27	9	3,764.69	9	3,404.11	9	3,043.54	9	2,682.96
1/4		1/4		1/4		1/4	4,831.88	1/4	4,478.33	1/4	4,117.76	1/4	3,757.18	1/4	3,396.60	1/4	3,036.03	1/4	2,675.45
1/2		1/2		1/2		1/2	4,824.74	1/2	4,470.82	1/2	4,110.25	1/2	3,749.67	1/2	3,389.09	1/2	3,028.52	1/2	2,667.94
3/4		3/4		3/4		3/4	4,817.60	3/4	4,463.31	3/4	4,102.74	3/4	3,742.16	3/4	3,381.58	3/4	3,021.01	3/4	2,660.43
10		10		10		10	4,810.45	10	4,455.79	10	4,095.22	10	3,734.64	10	3,374.07	10	3,013.49	10	2,652.91
1/4		1/4		1/4		1/4	4,803.31	1/4	4,448.28	1/4	4,087.71	1/4	3,727.13	1/4	3,366.56	1/4	3,005.98	1/4	2,645.40
1/2		1/2		1/2		1/2	4,796.17	1/2	4,440.77	1/2	4,080.20	1/2	3,719.62	1/2	3,359.05	1/2	2,998.47	1/2	2,637.89
3/4		3/4		3/4		3/4	4,789.03	3/4	4,433.26	3/4	4,072.69	3/4	3,712.11	3/4	3,351.54	3/4	2,990.96	3/4	2,630.38
11		11		11		11	4,781.88	11	4,425.75	11	4,065.17	11	3,704.59	11	3,344.02	11	2,983.44	11	2,622.87
1/4		1/4		1/4		1/4	4,774.74	1/4	4,418.24	1/4	4,057.66	1/4	3,697.08	1/4	3,336.51	1/4	2,975.93	1/4	2,615.36
1/2		1/2		1/2		1/2	4,767.60	1/2	4,410.73	1/2	4,050.15	1/2	3,689.57	1/2	3,329.00	1/2	2,968.42	1/2	2,607.85
3/4		3/4		3/4		3/4	4,760.46	3/4	4,403.22	3/4	4,042.64	3/4	3,682.06	3/4	3,321.49	3/4	2,960.91	3/4	2,600.34

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HTCO 3082"

2 PORT ULLAGE TABLE HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-02 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,592.82	0	2,232.24	0	1,871.67	0	1,511.09	0	1,150.51	0	789.94	0	429.36	0	76.88	0		0	
1/4	2,585.31	1/4	2,224.73	1/4	1,864.16	1/4	1,503.58	1/4	1,143.00	1/4	782.43	1/4	421.85	1/4	69.95	1/4		1/4	
1/2	2,577.80	1/2	2,217.22	1/2	1,856.65	1/2	1,496.07	1/2	1,135.49	1/2	774.92	1/2	414.34	1/2	63.14	1/2		1/2	
3/4	2,570.29	3/4	2,209.71	3/4	1,849.14	3/4	1,488.56	3/4	1,127.98	3/4	767.41	3/4	406.83	3/4	56.33	3/4		3/4	
1	2,562.77	1	2,202.19	1	1,841.62	1	1,481.04	1	1,120.47	1	759.89	1	399.31	1	49.52	1		1	
1/4	2,555.26	1/4	2,194.68	1/4	1,834.11	1/4	1,473.53	1/4	1,112.96	1/4	752.38	1/4	391.80	1/4	42.71	1/4		1/4	
1/2	2,547.75	1/2	2,187.17	1/2	1,826.60	1/2	1,466.02	1/2	1,105.45	1/2	744.87	1/2	384.29	1/2	37.43	1/2		1/2	
3/4	2,540.24	3/4	2,179.66	3/4	1,819.09	3/4	1,458.51	3/4	1,097.94	3/4	737.36	3/4	376.78	3/4	32.15	3/4		3/4	
2	2,532.72	2	2,172.15	2	1,811.57	2	1,450.99	2	1,090.42	2	729.84	2	369.27	2	26.87	2		2	
1/4	2,525.21	1/4	2,164.64	1/4	1,804.06	1/4	1,443.48	1/4	1,082.91	1/4	722.33	1/4	361.76	1/4	21.59	1/4		1/4	
1/2	2,517.70	1/2	2,157.13	1/2	1,796.55	1/2	1,435.97	1/2	1,075.40	1/2	714.82	1/2	354.25	1/2	18.06	1/2		1/2	
3/4	2,510.19	3/4	2,149.62	3/4	1,789.04	3/4	1,428.46	3/4	1,067.89	3/4	707.31	3/4	346.74	3/4		3/4		3/4	
3	2,502.67	3	2,142.10	3	1,781.52	3	1,420.95	3	1,060.37	3	699.79	3	339.22	3		3		3	
1/4	2,495.16	1/4	2,134.59	1/4	1,774.01	1/4	1,413.44	1/4	1,052.86	1/4	692.28	1/4	331.71	1/4		1/4		1/4	
1/2	2,487.65	1/2	2,127.08	1/2	1,766.50	1/2	1,405.93	1/2	1,045.35	1/2	684.77	1/2	324.20	1/2		1/2		1/2	
3/4	2,480.14	3/4	2,119.57	3/4	1,758.99	3/4	1,398.42	3/4	1,037.84	3/4	677.26	3/4	316.69	3/4		3/4		3/4	
4	2,472.63	4	2,112.05	4	1,751.47	4	1,390.90	4	1,030.32	4	669.75	4	309.17	4		4		4	
1/4	2,465.12	1/4	2,104.54	1/4	1,743.96	1/4	1,383.39	1/4	1,022.81	1/4	662.24	1/4	301.66	1/4		1/4		1/4	
1/2	2,457.61	1/2	2,097.03	1/2	1,736.45	1/2	1,375.88	1/2	1,015.30	1/2	654.73	1/2	294.15	1/2		1/2		1/2	
3/4	2,450.10	3/4	2,089.52	3/4	1,728.94	3/4	1,368.37	3/4	1,007.79	3/4	647.22	3/4	286.64	3/4		3/4		3/4	
5	2,442.58	5	2,082.00	5	1,721.43	5	1,360.85	5	1,000.27	5	639.70	5	279.12	5		5		5	
1/4	2,435.07	1/4	2,074.49	1/4	1,713.92	1/4	1,353.34	1/4	992.76	1/4	632.19	1/4	271.61	1/4		1/4		1/4	
1/2	2,427.56	1/2	2,066.98	1/2	1,706.41	1/2	1,345.83	1/2	985.25	1/2	624.68	1/2	264.10	1/2		1/2		1/2	
3/4	2,420.05	3/4	2,059.47	3/4	1,698.90	3/4	1,338.32	3/4	977.74	3/4	617.17	3/4	256.59	3/4		3/4		3/4	
6	2,412.53	6	2,051.95	6	1,691.38	6	1,330.80	6	970.23	6	609.65	6	249.07	6		6		6	
1/4	2,405.02	1/4	2,044.44	1/4	1,683.87	1/4	1,323.29	1/4	962.72	1/4	602.14	1/4	241.56	1/4		1/4		1/4	
1/2	2,397.51	1/2	2,036.93	1/2	1,676.36	1/2	1,315.78	1/2	955.21	1/2	594.63	1/2	234.05	1/2		1/2		1/2	
3/4	2,390.00	3/4	2,029.42	3/4	1,668.85	3/4	1,308.27	3/4	947.70	3/4	587.12	3/4	226.54	3/4		3/4		3/4	
7	2,382.48	7	2,021.91	7	1,661.33	7	1,300.75	7	940.18	7	579.60	7	219.03	7		7		7	
1/4	2,374.97	1/4	2,014.40	1/4	1,653.82	1/4	1,293.24	1/4	932.67	1/4	572.09	1/4	211.52	1/4		1/4		1/4	
1/2	2,367.46	1/2	2,006.89	1/2	1,646.31	1/2	1,285.73	1/2	925.16	1/2	564.58	1/2	204.01	1/2		1/2		1/2	
3/4	2,359.95	3/4	1,999.38	3/4	1,638.80	3/4	1,278.22	3/4	917.65	3/4	557.07	3/4	196.50	3/4		3/4		3/4	
8	2,352.43	8	1,991.86	8	1,631.28	8	1,270.71	8	910.13	8	549.55	8	188.98	8		8		8	
1/4	2,344.92	1/4	1,984.35	1/4	1,623.77	1/4	1,263.20	1/4	902.62	1/4	542.04	1/4	181.47	1/4		1/4		1/4	
1/2	2,337.41	1/2	1,976.84	1/2	1,616.26	1/2	1,255.69	1/2	895.11	1/2	534.53	1/2	174.39	1/2		1/2		1/2	
3/4	2,329.90	3/4	1,969.33	3/4	1,608.75	3/4	1,248.18	3/4	887.60	3/4	527.02	3/4	167.31	3/4		3/4		3/4	
9	2,322.39	9	1,961.81	9	1,601.23	9	1,240.66	9	880.08	9	519.51	9	160.23	9		9		9	
1/4	2,314.88	1/4	1,954.30	1/4	1,593.72	1/4	1,233.15	1/4	872.57	1/4	512.00	1/4	153.15	1/4		1/4		1/4	
1/2	2,307.37	1/2	1,946.79	1/2	1,586.21	1/2	1,225.64	1/2	865.06	1/2	504.49	1/2	146.22	1/2		1/2		1/2	
3/4	2,299.86	3/4	1,939.28	3/4	1,578.70	3/4	1,218.13	3/4	857.55	3/4	496.98	3/4	139.29	3/4		3/4		3/4	
10	2,292.34	10	1,931.76	10	1,571.19	10	1,210.61	10	850.03	10	489.46	10	132.35	10		10		10	
1/4	2,284.83	1/4	1,924.25	1/4	1,563.68	1/4	1,203.10	1/4	842.52	1/4	481.95	1/4	125.42	1/4		1/4		1/4	
1/2	2,277.32	1/2	1,916.74	1/2	1,556.17	1/2	1,195.59	1/2	835.01	1/2	474.44	1/2	118.49	1/2		1/2		1/2	
3/4	2,269.81	3/4	1,909.23	3/4	1,548.66	3/4	1,188.08	3/4	827.50	3/4	466.93	3/4	111.55	3/4		3/4		3/4	
11	2,262.29	11	1,901.71	11	1,541.14	11	1,180.56	11	819.99	11	459.41	11	104.62	11		11		11	
1/4	2,254.78	1/4	1,894.20	1/4	1,533.63	1/4	1,173.05	1/4	812.48	1/4	451.90	1/4	97.68	1/4		1/4		1/4	
1/2	2,247.27	1/2	1,886.69	1/2	1,526.12	1/2	1,165.54	1/2	804.97	1/2	444.39	1/2	90.75	1/2		1/2		1/2	
3/4	2,239.76	3/4	1,879.18	3/4	1,518.61	3/4	1,158.03	3/4	797.46	3/4	436.88	3/4	83.82	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/14/2011 INSP.
RECALCULATED: 03/03/2022 CL
REPRINTED: 03/03/2022 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2022

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HTCO 3082"

2 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-02 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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		0	5,082.29	0	4,753.31	0	4,395.70	0	4,035.12	0	3,674.55	0	3,313.97	0	2,953.39
1/4		1/4		1/4		1/4	5,078.03	1/4	4,746.17	1/4	4,388.19	1/4	4,027.61	1/4	3,667.04	1/4	3,306.46	1/4	2,945.88
1/2		1/2		1/2		1/2	5,072.71	1/2	4,739.03	1/2	4,380.68	1/2	4,020.12	1/2	3,659.53	1/2	3,298.95	1/2	2,938.37
3/4		3/4		3/4		3/4	5,067.38	3/4	4,731.89	3/4	4,373.17	3/4	4,012.64	3/4	3,652.02	3/4	3,291.44	3/4	2,930.86
1		1		1		1	5,062.06	1	4,724.75	1	4,365.65	1	4,005.15	1	3,644.50	1	3,283.92	1	2,923.35
1/4		1/4		1/4		1/4	5,056.73	1/4	4,717.61	1/4	4,358.14	1/4	3,997.66	1/4	3,636.99	1/4	3,276.41	1/4	2,915.84
1/2		1/2		1/2		1/2	5,050.38	1/2	4,710.38	1/2	4,350.63	1/2	3,990.13	1/2	3,629.48	1/2	3,268.65	1/2	2,908.33
3/4		3/4		3/4		3/4	5,044.03	3/4	4,703.14	3/4	4,343.12	3/4	3,982.59	3/4	3,621.97	3/4	3,260.89	3/4	2,900.82
2		2		2		2	5,037.67	2	4,695.91	2	4,335.60	2	3,975.06	2	3,614.45	2	3,253.12	2	2,893.30
1/4		1/4		1/4		1/4	5,031.32	1/4	4,688.67	1/4	4,328.09	1/4	3,967.52	1/4	3,606.94	1/4	3,245.36	1/4	2,885.79
1/2		1/2		1/2		1/2	5,024.31	1/2	4,681.16	1/2	4,320.58	1/2	3,960.01	1/2	3,599.43	1/2	3,238.10	1/2	2,878.28
3/4		3/4		3/4		3/4	5,017.31	3/4	4,673.65	3/4	4,313.07	3/4	3,952.50	3/4	3,591.92	3/4	3,230.84	3/4	2,870.77
3		3		3		3	5,010.30	3	4,666.13	3	4,305.55	3	3,944.98	3	3,584.40	3	3,223.58	3	2,863.25
1/4		1/4		1/4		1/4	5,003.29	1/4	4,658.62	1/4	4,298.04	1/4	3,937.47	1/4	3,576.89	1/4	3,216.32	1/4	2,855.74
1/2		1/2		1/2		1/2	4,996.15	1/2	4,651.11	1/2	4,290.53	1/2	3,929.96	1/2	3,569.38	1/2	3,208.81	1/2	2,848.23
3/4		3/4		3/4		3/4	4,989.01	3/4	4,643.60	3/4	4,283.02	3/4	3,922.45	3/4	3,561.87	3/4	3,201.30	3/4	2,840.72
4		4		4		4	4,981.86	4	4,636.08	4	4,275.51	4	3,914.93	4	3,554.35	4	3,193.78	4	2,833.20
1/4		1/4		1/4		1/4	4,974.72	1/4	4,628.57	1/4	4,268.00	1/4	3,907.42	1/4	3,546.84	1/4	3,186.27	1/4	2,825.69
1/2		1/2		1/2		1/2	4,967.58	1/2	4,621.06	1/2	4,260.49	1/2	3,899.91	1/2	3,539.33	1/2	3,178.76	1/2	2,818.18
3/4		3/4		3/4		3/4	4,960.44	3/4	4,613.55	3/4	4,252.98	3/4	3,892.40	3/4	3,531.82	3/4	3,171.25	3/4	2,810.67
5		5		5		5	4,953.29	5	4,606.03	5	4,245.46	5	3,884.88	5	3,524.31	5	3,163.73	5	2,803.15
1/4		1/4		1/4		1/4	4,946.15	1/4	4,598.52	1/4	4,237.95	1/4	3,877.37	1/4	3,516.80	1/4	3,156.22	1/4	2,795.64
1/2		1/2		1/2		1/2	4,939.01	1/2	4,591.01	1/2	4,230.44	1/2	3,869.86	1/2	3,509.04	1/2	3,148.71	1/2	2,788.13
3/4		3/4		3/4		3/4	4,931.87	3/4	4,583.50	3/4	4,222.93	3/4	3,862.35	3/4	3,501.28	3/4	3,141.20	3/4	2,780.62
6		6		6		6	4,924.72	6	4,575.99	6	4,215.41	6	3,854.83	6	3,493.51	6	3,133.68	6	2,773.11
1/4		1/4		1/4		1/4	4,917.58	1/4	4,568.48	1/4	4,207.90	1/4	3,847.32	1/4	3,485.75	1/4	3,126.17	1/4	2,765.60
1/2		1/2		1/2		1/2	4,910.44	1/2	4,560.97	1/2	4,200.39	1/2	3,839.81	1/2	3,478.49	1/2	3,118.66	1/2	2,758.09
3/4		3/4		3/4		3/4	4,903.30	3/4	4,553.46	3/4	4,192.88	3/4	3,832.29	3/4	3,471.23	3/4	3,111.15	3/4	2,750.58
7		7		7		7	4,896.15	7	4,545.94	7	4,185.36	7	3,824.78	7	3,463.96	7	3,103.63	7	2,743.06
1/4		1/4		1/4		1/4	4,889.01	1/4	4,538.43	1/4	4,177.85	1/4	3,817.26	1/4	3,456.70	1/4	3,096.12	1/4	2,735.55
1/2		1/2		1/2		1/2	4,881.87	1/2	4,530.92	1/2	4,170.34	1/2	3,809.75	1/2	3,449.19	1/2	3,088.61	1/2	2,728.04
3/4		3/4		3/4		3/4	4,874.73	3/4	4,523.41	3/4	4,162.83	3/4	3,802.25	3/4	3,441.68	3/4	3,081.10	3/4	2,720.53
8		8		8		8	4,867.59	8	4,515.89	8	4,155.31	8	3,794.74	8	3,434.16	8	3,073.59	8	2,713.01
1/4		1/4		1/4		1/4	4,860.45	1/4	4,508.38	1/4	4,147.80	1/4	3,787.23	1/4	3,426.65	1/4	3,066.08	1/4	2,705.50
1/2		1/2		1/2		1/2	4,853.31	1/2	4,500.87	1/2	4,140.29	1/2	3,779.72	1/2	3,419.14	1/2	3,058.57	1/2	2,697.99
3/4		3/4		3/4		3/4	4,846.17	3/4	4,493.36	3/4	4,132.78	3/4	3,772.21	3/4	3,411.63	3/4	3,051.06	3/4	2,690.48
9		9		9		9	4,839.02	9	4,485.84	9	4,125.27	9	3,764.69	9	3,404.11	9	3,043.54	9	2,682.96
1/4		1/4		1/4		1/4	4,831.88	1/4	4,478.33	1/4	4,117.76	1/4	3,757.18	1/4	3,396.60	1/4	3,036.03	1/4	2,675.45
1/2		1/2		1/2		1/2	4,824.74	1/2	4,470.82	1/2	4,110.25	1/2	3,749.67	1/2	3,389.09	1/2	3,028.52	1/2	2,667.94
3/4		3/4		3/4		3/4	4,817.60	3/4	4,463.31	3/4	4,102.74	3/4	3,742.16	3/4	3,381.58	3/4	3,021.01	3/4	2,660.43
10		10		10		10	4,810.45	10	4,455.79	10	4,095.22	10	3,734.64	10	3,374.07	10	3,013.49	10	2,652.91
1/4		1/4		1/4		1/4	4,803.31	1/4	4,448.28	1/4	4,087.71	1/4	3,727.13	1/4	3,366.56	1/4	3,005.98	1/4	2,645.40
1/2		1/2		1/2		1/2	4,796.17	1/2	4,440.77	1/2	4,080.20	1/2	3,719.62	1/2	3,359.05	1/2	2,998.47	1/2	2,637.89
3/4		3/4		3/4		3/4	4,789.03	3/4	4,433.26	3/4	4,072.69	3/4	3,712.11	3/4	3,351.54	3/4	2,990.96	3/4	2,630.38
11		11		11		11	4,781.88	11	4,425.75	11	4,065.17	11	3,704.59	11	3,344.02	11	2,983.44	11	2,622.87
1/4		1/4		1/4		1/4	4,774.74	1/4	4,418.24	1/4	4,057.66	1/4	3,697.08	1/4	3,336.51	1/4	2,975.93	1/4	2,615.36
1/2		1/2		1/2		1/2	4,767.60	1/2	4,410.73	1/2	4,050.15	1/2	3,689.57	1/2	3,329.00	1/2	2,968.42	1/2	2,607.85
3/4		3/4		3/4		3/4	4,760.46	3/4	4,403.22	3/4	4,042.64	3/4	3,682.06	3/4	3,321.49	3/4	2,960.91	3/4	2,600.34

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 41'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HTCO 3082"

2 STBD
ULLAGE TABLE
HERMETIC

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-02 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,592.82	0	2,232.24	0	1,871.67	0	1,511.09	0	1,150.51	0	789.94	0	429.36	0	76.88	0		0	
1/4	2,585.31	1/4	2,224.73	1/4	1,864.16	1/4	1,503.58	1/4	1,143.00	1/4	782.43	1/4	421.85	1/4	69.95	1/4		1/4	
1/2	2,577.80	1/2	2,217.22	1/2	1,856.65	1/2	1,496.07	1/2	1,135.49	1/2	774.92	1/2	414.34	1/2	63.14	1/2		1/2	
3/4	2,570.29	3/4	2,209.71	3/4	1,849.14	3/4	1,488.56	3/4	1,127.98	3/4	767.41	3/4	406.83	3/4	56.33	3/4		3/4	
1	2,562.77	1	2,202.19	1	1,841.62	1	1,481.04	1	1,120.47	1	759.89	1	399.31	1	49.52	1		1	
1/4	2,555.26	1/4	2,194.68	1/4	1,834.11	1/4	1,473.53	1/4	1,112.96	1/4	752.38	1/4	391.80	1/4	42.71	1/4		1/4	
1/2	2,547.75	1/2	2,187.17	1/2	1,826.60	1/2	1,466.02	1/2	1,105.45	1/2	744.87	1/2	384.29	1/2	37.43	1/2		1/2	
3/4	2,540.24	3/4	2,179.66	3/4	1,819.09	3/4	1,458.51	3/4	1,097.94	3/4	737.36	3/4	376.78	3/4	32.15	3/4		3/4	
2	2,532.72	2	2,172.15	2	1,811.57	2	1,450.99	2	1,090.42	2	729.84	2	369.27	2	26.87	2		2	
1/4	2,525.21	1/4	2,164.64	1/4	1,804.06	1/4	1,443.48	1/4	1,082.91	1/4	722.33	1/4	361.76	1/4	21.59	1/4		1/4	
1/2	2,517.70	1/2	2,157.13	1/2	1,796.55	1/2	1,435.97	1/2	1,075.40	1/2	714.82	1/2	354.25	1/2	18.06	1/2		1/2	
3/4	2,510.19	3/4	2,149.62	3/4	1,789.04	3/4	1,428.46	3/4	1,067.89	3/4	707.31	3/4	346.74	3/4		3/4		3/4	
3	2,502.67	3	2,142.10	3	1,781.52	3	1,420.95	3	1,060.37	3	699.79	3	339.22	3		3		3	
1/4	2,495.16	1/4	2,134.59	1/4	1,774.01	1/4	1,413.44	1/4	1,052.86	1/4	692.28	1/4	331.71	1/4		1/4		1/4	
1/2	2,487.65	1/2	2,127.08	1/2	1,766.50	1/2	1,405.93	1/2	1,045.35	1/2	684.77	1/2	324.20	1/2		1/2		1/2	
3/4	2,480.14	3/4	2,119.57	3/4	1,758.99	3/4	1,398.42	3/4	1,037.84	3/4	677.26	3/4	316.69	3/4		3/4		3/4	
4	2,472.63	4	2,112.05	4	1,751.47	4	1,390.90	4	1,030.32	4	669.75	4	309.17	4		4		4	
1/4	2,465.12	1/4	2,104.54	1/4	1,743.96	1/4	1,383.39	1/4	1,022.81	1/4	662.24	1/4	301.66	1/4		1/4		1/4	
1/2	2,457.61	1/2	2,097.03	1/2	1,736.45	1/2	1,375.88	1/2	1,015.30	1/2	654.73	1/2	294.15	1/2		1/2		1/2	
3/4	2,450.10	3/4	2,089.52	3/4	1,728.94	3/4	1,368.37	3/4	1,007.79	3/4	647.22	3/4	286.64	3/4		3/4		3/4	
5	2,442.58	5	2,082.00	5	1,721.43	5	1,360.85	5	1,000.27	5	639.70	5	279.12	5		5		5	
1/4	2,435.07	1/4	2,074.49	1/4	1,713.92	1/4	1,353.34	1/4	992.76	1/4	632.19	1/4	271.61	1/4		1/4		1/4	
1/2	2,427.56	1/2	2,066.98	1/2	1,706.41	1/2	1,345.83	1/2	985.25	1/2	624.68	1/2	264.10	1/2		1/2		1/2	
3/4	2,420.05	3/4	2,059.47	3/4	1,698.90	3/4	1,338.32	3/4	977.74	3/4	617.17	3/4	256.59	3/4		3/4		3/4	
6	2,412.53	6	2,051.95	6	1,691.38	6	1,330.80	6	970.23	6	609.65	6	249.07	6		6		6	
1/4	2,405.02	1/4	2,044.44	1/4	1,683.87	1/4	1,323.29	1/4	962.72	1/4	602.14	1/4	241.56	1/4		1/4		1/4	
1/2	2,397.51	1/2	2,036.93	1/2	1,676.36	1/2	1,315.78	1/2	955.21	1/2	594.63	1/2	234.05	1/2		1/2		1/2	
3/4	2,390.00	3/4	2,029.42	3/4	1,668.85	3/4	1,308.27	3/4	947.70	3/4	587.12	3/4	226.54	3/4		3/4		3/4	
7	2,382.48	7	2,021.91	7	1,661.33	7	1,300.75	7	940.18	7	579.60	7	219.03	7		7		7	
1/4	2,374.97	1/4	2,014.40	1/4	1,653.82	1/4	1,293.24	1/4	932.67	1/4	572.09	1/4	211.52	1/4		1/4		1/4	
1/2	2,367.46	1/2	2,006.89	1/2	1,646.31	1/2	1,285.73	1/2	925.16	1/2	564.58	1/2	204.01	1/2		1/2		1/2	
3/4	2,359.95	3/4	1,999.38	3/4	1,638.80	3/4	1,278.22	3/4	917.65	3/4	557.07	3/4	196.50	3/4		3/4		3/4	
8	2,352.43	8	1,991.86	8	1,631.28	8	1,270.71	8	910.13	8	549.55	8	188.98	8		8		8	
1/4	2,344.92	1/4	1,984.35	1/4	1,623.77	1/4	1,263.20	1/4	902.62	1/4	542.04	1/4	181.47	1/4		1/4		1/4	
1/2	2,337.41	1/2	1,976.84	1/2	1,616.26	1/2	1,255.69	1/2	895.11	1/2	534.53	1/2	174.39	1/2		1/2		1/2	
3/4	2,329.90	3/4	1,969.33	3/4	1,608.75	3/4	1,248.18	3/4	887.60	3/4	527.02	3/4	167.31	3/4		3/4		3/4	
9	2,322.39	9	1,961.81	9	1,601.23	9	1,240.66	9	880.08	9	519.51	9	160.23	9		9		9	
1/4	2,314.88	1/4	1,954.30	1/4	1,593.72	1/4	1,233.15	1/4	872.57	1/4	512.00	1/4	153.15	1/4		1/4		1/4	
1/2	2,307.37	1/2	1,946.79	1/2	1,586.21	1/2	1,225.64	1/2	865.06	1/2	504.49	1/2	146.22	1/2		1/2		1/2	
3/4	2,299.86	3/4	1,939.28	3/4	1,578.70	3/4	1,218.13	3/4	857.55	3/4	496.98	3/4	139.29	3/4		3/4		3/4	
10	2,292.34	10	1,931.76	10	1,571.19	10	1,210.61	10	850.03	10	489.46	10	132.35	10		10		10	
1/4	2,284.83	1/4	1,924.25	1/4	1,563.68	1/4	1,203.10	1/4	842.52	1/4	481.95	1/4	125.42	1/4		1/4		1/4	
1/2	2,277.32	1/2	1,916.74	1/2	1,556.17	1/2	1,195.59	1/2	835.01	1/2	474.44	1/2	118.49	1/2		1/2		1/2	
3/4	2,269.81	3/4	1,909.23	3/4	1,548.66	3/4	1,188.08	3/4	827.50	3/4	466.93	3/4	111.55	3/4		3/4		3/4	
11	2,262.29	11	1,901.71	11	1,541.14	11	1,180.56	11	819.99	11	459.41	11	104.62	11		11		11	
1/4	2,254.78	1/4	1,894.20	1/4	1,533.63	1/4	1,173.05	1/4	812.48	1/4	451.90	1/4	97.68	1/4		1/4		1/4	
1/2	2,247.27	1/2	1,886.69	1/2	1,526.12	1/2	1,165.54	1/2	804.97	1/2	444.39	1/2	90.75	1/2		1/2		1/2	
3/4	2,239.76	3/4	1,879.18	3/4	1,518.61	3/4	1,158.03	3/4	797.46	3/4	436.88	3/4	83.82	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/14/2011 INSP.
 RECALCULATED: 03/03/2022 CL
 REPRINTED: 03/03/2022 JS

CANCELS AND SUPERCEDES
 ALL PRIOR TO 03/2022

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



BARGE "HTCO 3082"

3 PORT ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-02 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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		0	4,668.51	0	4,425.27	0	4,171.64	0	3,918.01	0	3,664.38	0	3,349.61	0	2,986.64
1/4		1/4		1/4		1/4	4,665.38	1/4	4,419.99	1/4	4,166.36	1/4	3,912.72	1/4	3,659.09	1/4	3,342.05	1/4	2,979.08
1/2		1/2		1/2		1/2	4,661.47	1/2	4,414.71	1/2	4,161.08	1/2	3,907.44	1/2	3,653.81	1/2	3,334.49	1/2	2,971.52
3/4		3/4		3/4		3/4	4,657.56	3/4	4,409.42	3/4	4,155.79	3/4	3,902.16	3/4	3,648.53	3/4	3,326.93	3/4	2,963.96
1		1		1		1	4,653.65	1	4,404.14	1	4,150.51	1	3,896.87	1	3,643.24	1	3,319.36	1	2,956.39
1/4		1/4		1/4		1/4	4,649.74	1/4	4,398.85	1/4	4,145.22	1/4	3,891.59	1/4	3,637.96	1/4	3,311.80	1/4	2,948.83
1/2		1/2		1/2		1/2	4,645.04	1/2	4,393.57	1/2	4,139.94	1/2	3,886.31	1/2	3,632.64	1/2	3,304.24	1/2	2,941.27
3/4		3/4		3/4		3/4	4,640.35	3/4	4,388.29	3/4	4,134.65	3/4	3,881.02	3/4	3,627.33	3/4	3,296.68	3/4	2,933.71
2		2		2		2	4,635.65	2	4,383.00	2	4,129.37	2	3,875.74	2	3,622.01	2	3,289.12	2	2,926.14
1/4		1/4		1/4		1/4	4,630.95	1/4	4,377.72	1/4	4,124.08	1/4	3,870.45	1/4	3,616.69	1/4	3,281.56	1/4	2,918.58
1/2		1/2		1/2		1/2	4,625.77	1/2	4,372.44	1/2	4,118.80	1/2	3,865.17	1/2	3,611.13	1/2	3,274.00	1/2	2,911.02
3/4		3/4		3/4		3/4	4,620.58	3/4	4,367.15	3/4	4,113.52	3/4	3,859.89	3/4	3,605.57	3/4	3,266.44	3/4	2,903.46
3		3		3		3	4,615.40	3	4,361.87	3	4,108.23	3	3,854.60	3	3,600.00	3	3,258.87	3	2,895.89
1/4		1/4		1/4		1/4	4,610.21	1/4	4,356.58	1/4	4,102.95	1/4	3,849.32	1/4	3,594.44	1/4	3,251.31	1/4	2,888.33
1/2		1/2		1/2		1/2	4,604.93	1/2	4,351.30	1/2	4,097.67	1/2	3,844.04	1/2	3,588.55	1/2	3,243.75	1/2	2,880.77
3/4		3/4		3/4		3/4	4,599.65	3/4	4,346.01	3/4	4,092.38	3/4	3,838.75	3/4	3,582.66	3/4	3,236.19	3/4	2,873.21
4		4		4		4	4,594.36	4	4,340.73	4	4,087.10	4	3,833.47	4	3,576.77	4	3,228.62	4	2,865.64
1/4		1/4		1/4		1/4	4,589.08	1/4	4,335.44	1/4	4,081.81	1/4	3,828.18	1/4	3,570.88	1/4	3,221.06	1/4	2,858.08
1/2		1/2		1/2		1/2	4,583.80	1/2	4,330.16	1/2	4,076.53	1/2	3,822.90	1/2	3,564.65	1/2	3,213.50	1/2	2,850.52
3/4		3/4		3/4		3/4	4,578.51	3/4	4,324.88	3/4	4,071.25	3/4	3,817.61	3/4	3,558.41	3/4	3,205.94	3/4	2,842.96
5		5		5		5	4,573.23	5	4,319.59	5	4,065.96	5	3,812.33	5	3,552.18	5	3,198.37	5	2,835.40
1/4		1/4		1/4		1/4	4,567.94	1/4	4,314.31	1/4	4,060.68	1/4	3,807.04	1/4	3,545.94	1/4	3,190.81	1/4	2,827.84
1/2		1/2		1/2		1/2	4,562.66	1/2	4,309.03	1/2	4,055.40	1/2	3,801.76	1/2	3,539.36	1/2	3,183.25	1/2	2,820.28
3/4		3/4		3/4		3/4	4,557.37	3/4	4,303.74	3/4	4,050.11	3/4	3,796.48	3/4	3,532.78	3/4	3,175.69	3/4	2,812.72
6		6		6		6	4,552.09	6	4,298.46	6	4,044.83	6	3,791.19	6	3,526.20	6	3,168.12	6	2,805.15
1/4		1/4		1/4		1/4	4,546.80	1/4	4,293.17	1/4	4,039.54	1/4	3,785.91	1/4	3,519.62	1/4	3,160.56	1/4	2,797.59
1/2		1/2		1/2		1/2	4,541.52	1/2	4,287.89	1/2	4,034.26	1/2	3,780.63	1/2	3,512.69	1/2	3,153.00	1/2	2,790.03
3/4		3/4		3/4		3/4	4,536.24	3/4	4,282.61	3/4	4,028.97	3/4	3,775.34	3/4	3,505.77	3/4	3,145.44	3/4	2,782.47
7		7		7		7	4,530.95	7	4,277.32	7	4,023.69	7	3,770.06	7	3,498.84	7	3,137.88	7	2,774.90
1/4		1/4		1/4		1/4	4,525.67	1/4	4,272.04	1/4	4,018.40	1/4	3,764.77	1/4	3,491.91	1/4	3,130.32	1/4	2,767.34
1/2		1/2		1/2		1/2	4,520.39	1/2	4,266.76	1/2	4,013.12	1/2	3,759.49	1/2	3,484.64	1/2	3,122.76	1/2	2,759.78
3/4		3/4		3/4		3/4	4,515.10	3/4	4,261.47	3/4	4,007.84	3/4	3,754.21	3/4	3,477.36	3/4	3,115.20	3/4	2,752.22
8		8		8		8	4,509.82	8	4,256.19	8	4,002.55	8	3,748.92	8	3,470.09	8	3,107.63	8	2,744.65
1/4		1/4		1/4		1/4	4,504.53	1/4	4,250.90	1/4	3,997.27	1/4	3,743.64	1/4	3,462.81	1/4	3,100.07	1/4	2,737.09
1/2		1/2		1/2		1/2	4,499.25	1/2	4,245.62	1/2	3,991.99	1/2	3,738.36	1/2	3,455.31	1/2	3,092.51	1/2	2,729.53
3/4		3/4		3/4		3/4	4,493.97	3/4	4,240.33	3/4	3,986.70	3/4	3,733.07	3/4	3,447.81	3/4	3,084.95	3/4	2,721.97
9		9		9		9	4,488.68	9	4,235.05	9	3,981.42	9	3,727.79	9	3,440.30	9	3,077.38	9	2,714.40
1/4		1/4		1/4		1/4	4,483.40	1/4	4,229.76	1/4	3,976.13	1/4	3,722.50	1/4	3,432.80	1/4	3,069.82	1/4	2,706.84
1/2		1/2		1/2		1/2	4,478.12	1/2	4,224.48	1/2	3,970.85	1/2	3,717.22	1/2	3,425.24	1/2	3,062.26	1/2	2,699.28
3/4		3/4		3/4		3/4	4,472.83	3/4	4,219.20	3/4	3,965.57	3/4	3,711.93	3/4	3,417.68	3/4	3,054.70	3/4	2,691.72
10		10		10		10	4,467.55	10	4,213.91	10	3,960.28	10	3,706.65	10	3,410.11	10	3,047.13	10	2,684.16
1/4		1/4		1/4		1/4	4,462.26	1/4	4,208.63	1/4	3,955.00	1/4	3,701.36	1/4	3,402.55	1/4	3,039.57	1/4	2,676.60
1/2		1/2		1/2		1/2	4,456.98	1/2	4,203.35	1/2	3,949.72	1/2	3,696.08	1/2	3,394.99	1/2	3,032.01	1/2	2,669.04
3/4		3/4		3/4		3/4	4,451.69	3/4	4,198.06	3/4	3,944.44	3/4	3,690.80	3/4	3,387.43	3/4	3,024.45	3/4	2,661.48
11		11		11		11	4,446.41	11	4,192.78	11	3,939.16	11	3,685.51	11	3,379.86	11	3,016.88	11	2,653.91
1/4		1/4		1/4		1/4	4,441.12	1/4	4,187.49	1/4	3,933.88	1/4	3,680.23	1/4	3,372.30	1/4	3,009.32	1/4	2,646.35
1/2		1/2		1/2		1/2	4,435.84	1/2	4,182.21	1/2	3,928.59	1/2	3,674.95	1/2	3,364.74	1/2	3,001.76	1/2	2,638.79
3/4		3/4		3/4		3/4	4,430.56	3/4	4,176.93	3/4	3,923.30	3/4	3,669.66	3/4	3,357.18	3/4	2,994.20	3/4	2,631.23

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 40'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HTCO 3082"

3 PORT ULLAGE TABLE HERMETIC

GAUGE HEIGHT 17'-02 1/2"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,623.66	0	2,260.68	0	1,897.71	0	1,534.73	0	1,171.76	0	808.34	0	443.68	0	81.81	0		0	
1/4	2,616.10	1/4	2,253.12	1/4	1,890.15	1/4	1,527.17	1/4	1,164.20	1/4	800.76	1/4	436.07	1/4	74.44	1/4		1/4	
1/2	2,608.54	1/2	2,245.56	1/2	1,882.59	1/2	1,519.61	1/2	1,156.64	1/2	793.18	1/2	428.46	1/2	67.21	1/2		1/2	
3/4	2,600.98	3/4	2,238.00	3/4	1,875.03	3/4	1,512.05	3/4	1,149.08	3/4	785.61	3/4	420.85	3/4	59.97	3/4		3/4	
1	2,593.41	1	2,230.44	1	1,867.46	1	1,504.48	1	1,141.51	1	778.03	1	413.24	1	52.74	1		1	
1/4	2,585.85	1/4	2,222.88	1/4	1,859.90	1/4	1,496.92	1/4	1,133.95	1/4	770.45	1/4	405.63	1/4	45.50	1/4		1/4	
1/2	2,578.29	1/2	2,215.32	1/2	1,852.34	1/2	1,489.36	1/2	1,126.39	1/2	762.87	1/2	398.02	1/2	39.90	1/2		1/2	
3/4	2,570.73	3/4	2,207.76	3/4	1,844.78	3/4	1,481.80	3/4	1,118.83	3/4	755.30	3/4	390.42	3/4	34.30	3/4		3/4	
2	2,563.16	2	2,200.19	2	1,837.21	2	1,474.24	2	1,111.26	2	747.72	2	382.81	2	28.70	2		2	
1/4	2,555.60	1/4	2,192.63	1/4	1,829.65	1/4	1,466.68	1/4	1,103.70	1/4	740.14	1/4	375.20	1/4	23.10	1/4		1/4	
1/2	2,548.04	1/2	2,185.07	1/2	1,822.09	1/2	1,459.12	1/2	1,096.14	1/2	732.56	1/2	367.59	1/2	19.31	1/2		1/2	
3/4	2,540.48	3/4	2,177.51	3/4	1,814.53	3/4	1,451.56	3/4	1,088.58	3/4	724.99	3/4	359.98	3/4		3/4		3/4	
3	2,532.92	3	2,169.94	3	1,806.96	3	1,443.99	3	1,081.01	3	717.41	3	352.37	3		3		3	
1/4	2,525.36	1/4	2,162.38	1/4	1,799.40	1/4	1,436.43	1/4	1,073.45	1/4	709.83	1/4	344.76	1/4		1/4		1/4	
1/2	2,517.80	1/2	2,154.82	1/2	1,791.84	1/2	1,428.87	1/2	1,065.89	1/2	702.25	1/2	337.15	1/2		1/2		1/2	
3/4	2,510.24	3/4	2,147.26	3/4	1,784.28	3/4	1,421.31	3/4	1,058.33	3/4	694.68	3/4	329.54	3/4		3/4		3/4	
4	2,502.67	4	2,139.69	4	1,776.72	4	1,413.74	4	1,050.76	4	687.10	4	321.93	4		4		4	
1/4	2,495.11	1/4	2,132.13	1/4	1,769.16	1/4	1,406.18	1/4	1,043.20	1/4	679.52	1/4	314.32	1/4		1/4		1/4	
1/2	2,487.55	1/2	2,124.57	1/2	1,761.60	1/2	1,398.62	1/2	1,035.63	1/2	671.92	1/2	306.71	1/2		1/2		1/2	
3/4	2,479.99	3/4	2,117.01	3/4	1,754.04	3/4	1,391.06	3/4	1,028.06	3/4	664.32	3/4	299.11	3/4		3/4		3/4	
5	2,472.42	5	2,109.44	5	1,746.47	5	1,384.24	5	1,020.48	5	656.72	5	291.50	5		5		5	
1/4	2,464.86	1/4	2,101.88	1/4	1,738.91	1/4	1,376.93	1/4	1,012.91	1/4	649.12	1/4	283.89	1/4		1/4		1/4	
1/2	2,457.30	1/2	2,094.32	1/2	1,731.35	1/2	1,369.12	1/2	1,005.33	1/2	641.51	1/2	276.28	1/2		1/2		1/2	
3/4	2,449.74	3/4	2,086.76	3/4	1,723.79	3/4	1,361.31	3/4	997.76	3/4	633.90	3/4	268.67	3/4		3/4		3/4	
6	2,442.17	6	2,079.20	6	1,716.22	6	1,353.49	6	990.18	6	626.29	6	261.06	6		6		6	
1/4	2,434.61	1/4	2,071.64	1/4	1,708.66	1/4	1,345.68	1/4	982.60	1/4	618.68	1/4	253.45	1/4		1/4		1/4	
1/2	2,427.05	1/2	2,064.08	1/2	1,701.10	1/2	1,338.12	1/2	975.03	1/2	611.07	1/2	245.84	1/2		1/2		1/2	
3/4	2,419.49	3/4	2,056.52	3/4	1,693.54	3/4	1,330.56	3/4	967.45	3/4	603.47	3/4	238.24	3/4		3/4		3/4	
7	2,411.92	7	2,048.95	7	1,685.97	7	1,323.00	7	959.88	7	595.86	7	230.63	7		7		7	
1/4	2,404.36	1/4	2,041.39	1/4	1,678.41	1/4	1,315.44	1/4	952.30	1/4	588.25	1/4	223.02	1/4		1/4		1/4	
1/2	2,396.80	1/2	2,033.83	1/2	1,670.85	1/2	1,307.88	1/2	944.72	1/2	580.64	1/2	215.41	1/2		1/2		1/2	
3/4	2,389.24	3/4	2,026.27	3/4	1,663.29	3/4	1,300.32	3/4	937.15	3/4	573.03	3/4	207.80	3/4		3/4		3/4	
8	2,381.68	8	2,018.70	8	1,655.72	8	1,292.75	8	929.57	8	565.42	8	200.19	8		8		8	
1/4	2,374.12	1/4	2,011.14	1/4	1,648.16	1/4	1,285.19	1/4	921.99	1/4	557.81	1/4	192.58	1/4		1/4		1/4	
1/2	2,366.56	1/2	2,003.58	1/2	1,640.60	1/2	1,277.63	1/2	914.41	1/2	550.20	1/2	185.15	1/2		1/2		1/2	
3/4	2,359.00	3/4	1,996.02	3/4	1,633.04	3/4	1,270.07	3/4	906.84	3/4	542.60	3/4	177.72	3/4		3/4		3/4	
9	2,351.43	9	1,988.45	9	1,625.48	9	1,262.50	9	899.26	9	534.99	9	170.29	9		9		9	
1/4	2,343.87	1/4	1,980.89	1/4	1,617.92	1/4	1,254.94	1/4	891.68	1/4	527.38	1/4	162.86	1/4		1/4		1/4	
1/2	2,336.31	1/2	1,973.33	1/2	1,610.36	1/2	1,247.38	1/2	884.10	1/2	519.77	1/2	155.49	1/2		1/2		1/2	
3/4	2,328.75	3/4	1,965.77	3/4	1,602.80	3/4	1,239.82	3/4	876.53	3/4	512.16	3/4	148.13	3/4		3/4		3/4	
10	2,321.18	10	1,958.20	10	1,595.23	10	1,232.25	10	868.95	10	504.55	10	140.76	10		10		10	
1/4	2,313.62	1/4	1,950.64	1/4	1,587.67	1/4	1,224.69	1/4	861.37	1/4	496.94	1/4	133.39	1/4		1/4		1/4	
1/2	2,306.06	1/2	1,943.08	1/2	1,580.11	1/2	1,217.13	1/2	853.79	1/2	489.33	1/2	126.02	1/2		1/2		1/2	
3/4	2,298.50	3/4	1,935.52	3/4	1,572.55	3/4	1,209.57	3/4	846.22	3/4	481.72	3/4	118.65	3/4		3/4		3/4	
11	2,290.93	11	1,927.96	11	1,564.98	11	1,202.00	11	838.64	11	474.11	11	111.28	11		11		11	
1/4	2,283.37	1/4	1,920.40	1/4	1,557.42	1/4	1,194.44	1/4	831.06	1/4	466.50	1/4	103.91	1/4		1/4		1/4	
1/2	2,275.81	1/2	1,912.84	1/2	1,549.86	1/2	1,186.88	1/2	823.49	1/2	458.89	1/2	96.54	1/2		1/2		1/2	
3/4	2,268.25	3/4	1,905.28	3/4	1,542.30	3/4	1,179.32	3/4	815.91	3/4	451.29	3/4	89.18	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/14/2011 INSP.
RECALCULATED: 03/03/2022 CL
REPRINTED: 03/03/2022 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2022

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "HTCO 3082"

3 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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		0	4,665.38	0	4,419.99	0	4,166.36	0	3,912.72	0	3,659.09	0	3,342.05	0	2,979.08
1/4		1/4		1/4		1/4	4,661.47	1/4	4,414.71	1/4	4,161.08	1/4	3,907.44	1/4	3,653.81	1/4	3,334.49	1/4	2,971.52
1/2		1/2		1/2		1/2	4,657.56	1/2	4,409.42	1/2	4,155.79	1/2	3,902.16	1/2	3,648.53	1/2	3,326.93	1/2	2,963.96
3/4		3/4		3/4		3/4	4,653.65	3/4	4,404.14	3/4	4,150.51	3/4	3,896.87	3/4	3,643.24	3/4	3,319.36	3/4	2,956.39
1		1		1		1	4,649.74	1	4,398.85	1	4,145.22	1	3,891.59	1	3,637.96	1	3,311.80	1	2,948.83
1/4		1/4		1/4		1/4	4,645.04	1/4	4,393.57	1/4	4,139.94	1/4	3,886.31	1/4	3,632.64	1/4	3,304.24	1/4	2,941.27
1/2		1/2		1/2		1/2	4,640.35	1/2	4,388.29	1/2	4,134.65	1/2	3,881.02	1/2	3,627.33	1/2	3,296.68	1/2	2,933.71
3/4		3/4		3/4		3/4	4,635.65	3/4	4,383.00	3/4	4,129.37	3/4	3,875.74	3/4	3,622.01	3/4	3,289.12	3/4	2,926.14
2		2		2		2	4,630.95	2	4,377.72	2	4,124.08	2	3,870.45	2	3,616.69	2	3,281.56	2	2,918.58
1/4		1/4		1/4		1/4	4,625.77	1/4	4,372.44	1/4	4,118.80	1/4	3,865.17	1/4	3,611.13	1/4	3,274.00	1/4	2,911.02
1/2		1/2		1/2		1/2	4,620.58	1/2	4,367.15	1/2	4,113.52	1/2	3,859.89	1/2	3,605.57	1/2	3,266.44	1/2	2,903.46
3/4		3/4		3/4		3/4	4,615.40	3/4	4,361.87	3/4	4,108.23	3/4	3,854.60	3/4	3,600.00	3/4	3,258.87	3/4	2,895.89
3		3		3		3	4,610.21	3	4,356.58	3	4,102.95	3	3,849.32	3	3,594.44	3	3,251.31	3	2,888.33
1/4		1/4		1/4		1/4	4,604.93	1/4	4,351.30	1/4	4,097.67	1/4	3,844.04	1/4	3,588.55	1/4	3,243.75	1/4	2,880.77
1/2		1/2		1/2		1/2	4,599.65	1/2	4,346.01	1/2	4,092.38	1/2	3,838.75	1/2	3,582.66	1/2	3,236.19	1/2	2,873.21
3/4		3/4		3/4		3/4	4,594.36	3/4	4,340.73	3/4	4,087.10	3/4	3,833.47	3/4	3,576.77	3/4	3,228.62	3/4	2,865.64
4		4		4		4	4,589.08	4	4,335.44	4	4,081.81	4	3,828.18	4	3,570.88	4	3,221.06	4	2,858.08
1/4		1/4		1/4		1/4	4,583.80	1/4	4,330.16	1/4	4,076.53	1/4	3,822.90	1/4	3,564.65	1/4	3,213.50	1/4	2,850.52
1/2		1/2		1/2		1/2	4,578.51	1/2	4,324.88	1/2	4,071.25	1/2	3,817.61	1/2	3,558.41	1/2	3,205.94	1/2	2,842.96
3/4		3/4		3/4		3/4	4,573.23	3/4	4,319.59	3/4	4,065.96	3/4	3,812.33	3/4	3,552.18	3/4	3,198.37	3/4	2,835.40
5		5		5		5	4,567.94	5	4,314.31	5	4,060.68	5	3,807.04	5	3,545.94	5	3,190.81	5	2,827.84
1/4		1/4		1/4		1/4	4,562.66	1/4	4,309.03	1/4	4,055.40	1/4	3,801.76	1/4	3,539.36	1/4	3,183.25	1/4	2,820.28
1/2		1/2		1/2		1/2	4,557.37	1/2	4,303.74	1/2	4,050.11	1/2	3,796.48	1/2	3,532.78	1/2	3,175.69	1/2	2,812.72
3/4		3/4		3/4		3/4	4,552.09	3/4	4,298.46	3/4	4,044.83	3/4	3,791.19	3/4	3,526.20	3/4	3,168.12	3/4	2,805.15
6		6		6		6	4,546.80	6	4,293.17	6	4,039.54	6	3,785.91	6	3,519.62	6	3,160.56	6	2,797.59
1/4		1/4		1/4		1/4	4,541.52	1/4	4,287.89	1/4	4,034.26	1/4	3,780.63	1/4	3,512.69	1/4	3,153.00	1/4	2,790.03
1/2		1/2		1/2		1/2	4,536.24	1/2	4,282.61	1/2	4,028.97	1/2	3,775.34	1/2	3,505.77	1/2	3,145.44	1/2	2,782.47
3/4		3/4		3/4		3/4	4,530.95	3/4	4,277.32	3/4	4,023.69	3/4	3,770.06	3/4	3,498.84	3/4	3,137.88	3/4	2,774.90
7		7		7		7	4,525.67	7	4,272.04	7	4,018.40	7	3,764.77	7	3,491.91	7	3,130.32	7	2,767.34
1/4		1/4		1/4		1/4	4,520.39	1/4	4,266.76	1/4	4,013.12	1/4	3,759.49	1/4	3,484.64	1/4	3,122.76	1/4	2,759.78
1/2		1/2		1/2		1/2	4,515.10	1/2	4,261.47	1/2	4,007.84	1/2	3,754.21	1/2	3,477.36	1/2	3,115.20	1/2	2,752.22
3/4		3/4		3/4		3/4	4,509.82	3/4	4,256.19	3/4	4,002.55	3/4	3,748.92	3/4	3,470.09	3/4	3,107.63	3/4	2,744.65
8		8		8		8	4,504.53	8	4,250.90	8	3,997.27	8	3,743.64	8	3,462.81	8	3,100.07	8	2,737.09
1/4		1/4		1/4		1/4	4,499.25	1/4	4,245.62	1/4	3,991.99	1/4	3,738.36	1/4	3,455.31	1/4	3,092.51	1/4	2,729.53
1/2		1/2		1/2		1/2	4,493.97	1/2	4,240.33	1/2	3,986.70	1/2	3,733.07	1/2	3,447.81	1/2	3,084.95	1/2	2,721.97
3/4		3/4		3/4		3/4	4,488.68	3/4	4,235.05	3/4	3,981.42	3/4	3,727.79	3/4	3,440.30	3/4	3,077.38	3/4	2,714.40
9		9		9		9	4,483.40	9	4,229.76	9	3,976.13	9	3,722.50	9	3,432.80	9	3,069.82	9	2,706.84
1/4		1/4		1/4		1/4	4,478.12	1/4	4,224.48	1/4	3,970.85	1/4	3,717.22	1/4	3,425.24	1/4	3,062.26	1/4	2,699.28
1/2		1/2		1/2		1/2	4,472.83	1/2	4,219.20	1/2	3,965.57	1/2	3,711.93	1/2	3,417.68	1/2	3,054.70	1/2	2,691.72
3/4		3/4		3/4		3/4	4,467.55	3/4	4,213.91	3/4	3,960.28	3/4	3,706.65	3/4	3,410.11	3/4	3,047.13	3/4	2,684.16
10		10		10		10	4,462.26	10	4,208.63	10	3,955.00	10	3,701.36	10	3,402.55	10	3,039.57	10	2,676.60
1/4		1/4		1/4		1/4	4,456.98	1/4	4,203.35	1/4	3,949.72	1/4	3,696.08	1/4	3,394.99	1/4	3,032.01	1/4	2,669.04
1/2		1/2		1/2		1/2	4,451.69	1/2	4,198.06	1/2	3,944.44	1/2	3,690.80	1/2	3,387.43	1/2	3,024.45	1/2	2,661.48
3/4		3/4		3/4		3/4	4,446.41	3/4	4,192.78	3/4	3,939.16	3/4	3,685.51	3/4	3,379.86	3/4	3,016.88	3/4	2,653.91
11		11		11		11	4,441.12	11	4,187.49	11	3,933.88	11	3,680.23	11	3,372.30	11	3,009.32	11	2,646.35
1/4		1/4		1/4		1/4	4,435.84	1/4	4,182.21	1/4	3,928.59	1/4	3,674.95	1/4	3,364.74	1/4	3,001.76	1/4	2,638.79
1/2		1/2		1/2		1/2	4,430.56	1/2	4,176.93	1/2	3,923.30	1/2	3,669.66	1/2	3,357.18	1/2	2,994.20	1/2	2,631.23
3/4		3/4		3/4		3/4	4,668.51	3/4	4,425.27	3/4	4,171.64	3/4	3,918.01	3/4	3,664.38	3/4	3,349.61	3/4	2,623.66

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" DEVICE.
GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 40'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "HTCO 3082"

3 STBD

ULLAGE TABLE

HERMETIC

GAUGE HEIGHT 17'-02 1/4"

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

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	2,616.10	0	2,253.12	0	1,890.15	0	1,527.17	0	1,164.20	0	800.76	0	436.07	0	74.44	0		0	
1/4	2,608.54	1/4	2,245.56	1/4	1,882.59	1/4	1,519.61	1/4	1,156.64	1/4	793.18	1/4	428.46	1/4	67.21	1/4		1/4	
1/2	2,600.98	1/2	2,238.00	1/2	1,875.03	1/2	1,512.05	1/2	1,149.08	1/2	785.61	1/2	420.85	1/2	59.97	1/2		1/2	
3/4	2,593.41	3/4	2,230.44	3/4	1,867.46	3/4	1,504.48	3/4	1,141.51	3/4	778.03	3/4	413.24	3/4	52.74	3/4		3/4	
1	2,585.85	1	2,222.88	1	1,859.90	1	1,496.92	1	1,133.95	1	770.45	1	405.63	1	45.50	1		1	
1/4	2,578.29	1/4	2,215.32	1/4	1,852.34	1/4	1,489.36	1/4	1,126.39	1/4	762.87	1/4	398.02	1/4	39.90	1/4		1/4	
1/2	2,570.73	1/2	2,207.76	1/2	1,844.78	1/2	1,481.80	1/2	1,118.83	1/2	755.30	1/2	390.42	1/2	34.30	1/2		1/2	
3/4	2,563.16	3/4	2,200.19	3/4	1,837.21	3/4	1,474.24	3/4	1,111.26	3/4	747.72	3/4	382.81	3/4	28.70	3/4		3/4	
2	2,555.60	2	2,192.63	2	1,829.65	2	1,466.68	2	1,103.70	2	740.14	2	375.20	2	23.10	2		2	
1/4	2,548.04	1/4	2,185.07	1/4	1,822.09	1/4	1,459.12	1/4	1,096.14	1/4	732.56	1/4	367.59	1/4	19.31	1/4		1/4	
1/2	2,540.48	1/2	2,177.51	1/2	1,814.53	1/2	1,451.56	1/2	1,088.58	1/2	724.99	1/2	359.98	1/2		1/2		1/2	
3/4	2,532.92	3/4	2,169.94	3/4	1,806.96	3/4	1,443.99	3/4	1,081.01	3/4	717.41	3/4	352.37	3/4		3/4		3/4	
3	2,525.36	3	2,162.38	3	1,799.40	3	1,436.43	3	1,073.45	3	709.83	3	344.76	3		3		3	
1/4	2,517.80	1/4	2,154.82	1/4	1,791.84	1/4	1,428.87	1/4	1,065.89	1/4	702.25	1/4	337.15	1/4		1/4		1/4	
1/2	2,510.24	1/2	2,147.26	1/2	1,784.28	1/2	1,421.31	1/2	1,058.33	1/2	694.68	1/2	329.54	1/2		1/2		1/2	
3/4	2,502.67	3/4	2,139.69	3/4	1,776.72	3/4	1,413.74	3/4	1,050.76	3/4	687.10	3/4	321.93	3/4		3/4		3/4	
4	2,495.11	4	2,132.13	4	1,769.16	4	1,406.18	4	1,043.20	4	679.52	4	314.32	4		4		4	
1/4	2,487.55	1/4	2,124.57	1/4	1,761.60	1/4	1,398.62	1/4	1,035.63	1/4	671.92	1/4	306.71	1/4		1/4		1/4	
1/2	2,479.99	1/2	2,117.01	1/2	1,754.04	1/2	1,391.06	1/2	1,028.06	1/2	664.32	1/2	299.11	1/2		1/2		1/2	
3/4	2,472.42	3/4	2,109.44	3/4	1,746.47	3/4	1,383.49	3/4	1,020.48	3/4	656.72	3/4	291.50	3/4		3/4		3/4	
5	2,464.86	5	2,101.88	5	1,738.91	5	1,376.93	5	1,012.91	5	649.12	5	283.89	5		5		5	
1/4	2,457.30	1/4	2,094.32	1/4	1,731.35	1/4	1,369.36	1/4	1,005.33	1/4	641.51	1/4	276.28	1/4		1/4		1/4	
1/2	2,449.74	1/2	2,086.76	1/2	1,723.79	1/2	1,361.79	1/2	997.76	1/2	633.90	1/2	268.67	1/2		1/2		1/2	
3/4	2,442.17	3/4	2,079.20	3/4	1,716.22	3/4	1,354.22	3/4	990.18	3/4	626.29	3/4	261.06	3/4		3/4		3/4	
6	2,434.61	6	2,071.64	6	1,708.66	6	1,346.64	6	982.60	6	618.68	6	253.45	6		6		6	
1/4	2,427.05	1/4	2,064.08	1/4	1,701.10	1/4	1,339.07	1/4	975.03	1/4	611.07	1/4	245.84	1/4		1/4		1/4	
1/2	2,419.49	1/2	2,056.52	1/2	1,693.54	1/2	1,331.50	1/2	967.45	1/2	603.47	1/2	238.24	1/2		1/2		1/2	
3/4	2,411.92	3/4	2,048.95	3/4	1,685.97	3/4	1,323.93	3/4	959.88	3/4	595.86	3/4	230.63	3/4		3/4		3/4	
7	2,404.36	7	2,041.39	7	1,678.41	7	1,316.36	7	952.30	7	588.25	7	223.02	7		7		7	
1/4	2,396.80	1/4	2,033.83	1/4	1,670.85	1/4	1,308.79	1/4	944.72	1/4	580.64	1/4	215.41	1/4		1/4		1/4	
1/2	2,389.24	1/2	2,026.27	1/2	1,663.29	1/2	1,301.22	1/2	937.15	1/2	573.03	1/2	207.80	1/2		1/2		1/2	
3/4	2,381.68	3/4	2,018.70	3/4	1,655.72	3/4	1,293.65	3/4	929.57	3/4	565.42	3/4	200.19	3/4		3/4		3/4	
8	2,374.12	8	2,011.14	8	1,648.16	8	1,286.08	8	921.99	8	557.81	8	192.58	8		8		8	
1/4	2,366.56	1/4	2,003.58	1/4	1,640.60	1/4	1,278.51	1/4	914.41	1/4	550.20	1/4	185.15	1/4		1/4		1/4	
1/2	2,359.00	1/2	1,996.02	1/2	1,633.04	1/2	1,270.94	1/2	906.84	1/2	542.60	1/2	177.72	1/2		1/2		1/2	
3/4	2,351.43	3/4	1,988.45	3/4	1,625.48	3/4	1,263.37	3/4	899.26	3/4	534.99	3/4	170.29	3/4		3/4		3/4	
9	2,343.87	9	1,980.89	9	1,617.92	9	1,255.80	9	891.68	9	527.38	9	162.86	9		9		9	
1/4	2,336.31	1/4	1,973.33	1/4	1,610.36	1/4	1,248.23	1/4	884.10	1/4	519.77	1/4	155.49	1/4		1/4		1/4	
1/2	2,328.75	1/2	1,965.77	1/2	1,602.80	1/2	1,240.66	1/2	876.53	1/2	512.16	1/2	148.13	1/2		1/2		1/2	
3/4	2,321.18	3/4	1,958.20	3/4	1,595.23	3/4	1,233.09	3/4	868.95	3/4	504.55	3/4	140.76	3/4		3/4		3/4	
10	2,313.62	10	1,950.64	10	1,587.67	10	1,225.52	10	861.37	10	496.94	10	133.39	10		10		10	
1/4	2,306.06	1/4	1,943.08	1/4	1,580.11	1/4	1,217.95	1/4	853.79	1/4	489.33	1/4	126.02	1/4		1/4		1/4	
1/2	2,298.50	1/2	1,935.52	1/2	1,572.55	1/2	1,210.38	1/2	846.22	1/2	481.72	1/2	118.65	1/2		1/2		1/2	
3/4	2,290.93	3/4	1,927.96	3/4	1,564.98	3/4	1,202.81	3/4	838.64	3/4	474.11	3/4	111.28	3/4		3/4		3/4	
11	2,283.37	11	1,920.40	11	1,557.42	11	1,195.24	11	831.06	11	466.50	11	103.91	11		11		11	
1/4	2,275.81	1/4	1,912.84	1/4	1,549.86	1/4	1,187.67	1/4	823.49	1/4	458.89	1/4	96.54	1/4		1/4		1/4	
1/2	2,268.25	1/2	1,905.28	1/2	1,542.30	1/2	1,180.10	1/2	815.91	1/2	451.29	1/2	89.18	1/2		1/2		1/2	
3/4	2,260.68	3/4	1,897.71	3/4	1,534.73	3/4	1,172.53	3/4	808.34	3/4	443.68	3/4	81.81	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/14/2011 INSP.
 RECALCULATED: 03/03/2022 CL
 REPRINTED: 03/03/2022 JS

CANCELS AND SUPERCEDES
 ALL PRIOR TO 03/2022

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



BARGE "HTCO 3082"

FWD SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT: 7'-01 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	0	0	451	0	903	0	1,354	0	1,805	0		0		0		0		0	
1/4	9	1/4	461	1/4	912	1/4	1,363	1/4	1,815	1/4		1/4		1/4		1/4		1/4	
1/2	19	1/2	470	1/2	921	1/2	1,373	1/2	1,824	1/2		1/2		1/2		1/2		1/2	
3/4	28	3/4	480	3/4	931	3/4	1,382	3/4	1,834	3/4		3/4		3/4		3/4		3/4	
1	38	1	489	1	940	1	1,392	1	1,843	1		1		1		1		1	
1/4	47	1/4	498	1/4	950	1/4	1,401	1/4	1,852	1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	508	1/2	959	1/2	1,410	1/2	1,862	1/2		1/2		1/2		1/2		1/2	
3/4	66	3/4	517	3/4	968	3/4	1,420	3/4	1,871	3/4		3/4		3/4		3/4		3/4	
2	75	2	527	2	978	2	1,429	2	1,881	2		2		2		2		2	
1/4	85	1/4	536	1/4	987	1/4	1,439	1/4	1,890	1/4		1/4		1/4		1/4		1/4	
1/2	94	1/2	545	1/2	997	1/2	1,448	1/2	1,899	1/2		1/2		1/2		1/2		1/2	
3/4	103	3/4	555	3/4	1,006	3/4	1,457	3/4	1,909	3/4		3/4		3/4		3/4		3/4	
3	113	3	564	3	1,015	3	1,467	3	1,918	3		3		3		3		3	
1/4	122	1/4	574	1/4	1,025	1/4	1,476	1/4	1,928	1/4		1/4		1/4		1/4		1/4	
1/2	132	1/2	583	1/2	1,034	1/2	1,486	1/2	1,937	1/2		1/2		1/2		1/2		1/2	
3/4	141	3/4	592	3/4	1,044	3/4	1,495	3/4	1,946	3/4		3/4		3/4		3/4		3/4	
4	150	4	602	4	1,053	4	1,504	4	1,956	4		4		4		4		4	
1/4	160	1/4	611	1/4	1,062	1/4	1,514	1/4	1,965	1/4		1/4		1/4		1/4		1/4	
1/2	169	1/2	621	1/2	1,072	1/2	1,523	1/2	1,975	1/2		1/2		1/2		1/2		1/2	
3/4	179	3/4	630	3/4	1,081	3/4	1,533	3/4	1,984	3/4		3/4		3/4		3/4		3/4	
5	188	5	639	5	1,091	5	1,542	5	1,993	5		5		5		5		5	
1/4	197	1/4	649	1/4	1,100	1/4	1,551	1/4	2,003	1/4		1/4		1/4		1/4		1/4	
1/2	207	1/2	658	1/2	1,110	1/2	1,561	1/2	2,012	1/2		1/2		1/2		1/2		1/2	
3/4	216	3/4	668	3/4	1,119	3/4	1,570	3/4	2,022	3/4		3/4		3/4		3/4		3/4	
6	226	6	677	6	1,128	6	1,580	6	2,031	6		6		6		6		6	
1/4	235	1/4	686	1/4	1,138	1/4	1,589	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	244	1/2	696	1/2	1,147	1/2	1,598	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	254	3/4	705	3/4	1,157	3/4	1,608	3/4		3/4		3/4		3/4		3/4		3/4	
7	263	7	715	7	1,166	7	1,617	7		7		7		7		7		7	
1/4	273	1/4	724	1/4	1,175	1/4	1,627	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	282	1/2	733	1/2	1,185	1/2	1,636	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	291	3/4	743	3/4	1,194	3/4	1,645	3/4		3/4		3/4		3/4		3/4		3/4	
8	301	8	752	8	1,204	8	1,655	8		8		8		8		8		8	
1/4	310	1/4	762	1/4	1,213	1/4	1,664	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	320	1/2	771	1/2	1,222	1/2	1,674	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	329	3/4	780	3/4	1,232	3/4	1,683	3/4		3/4		3/4		3/4		3/4		3/4	
9	338	9	790	9	1,241	9	1,692	9		9		9		9		9		9	
1/4	348	1/4	799	1/4	1,251	1/4	1,702	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	357	1/2	809	1/2	1,260	1/2	1,711	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	367	3/4	818	3/4	1,269	3/4	1,721	3/4		3/4		3/4		3/4		3/4		3/4	
10	376	10	827	10	1,279	10	1,730	10		10		10		10		10		10	
1/4	386	1/4	837	1/4	1,288	1/4	1,739	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	395	1/2	846	1/2	1,298	1/2	1,749	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	404	3/4	856	3/4	1,307	3/4	1,758	3/4		3/4		3/4		3/4		3/4		3/4	
11	414	11	865	11	1,316	11	1,768	11		11		11		11		11		11	
1/4	423	1/4	874	1/4	1,326	1/4	1,777	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	433	1/2	884	1/2	1,335	1/2	1,786	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	442	3/4	893	3/4	1,345	3/4	1,796	3/4		3/4		3/4		3/4		3/4		3/4	

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CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.
CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES.

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PRECISION MEASUREMENT
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Pearland, Texas 77588
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BARGE "HTCO 3082"

AFT SLOP TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

GAUGE HEIGHT: 7'-01 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	0	0	451	0	903	0	1,354	0	1,805	0		0		0		0		0	
1/4	9	1/4	461	1/4	912	1/4	1,363	1/4	1,815	1/4		1/4		1/4		1/4		1/4	
1/2	19	1/2	470	1/2	921	1/2	1,373	1/2	1,824	1/2		1/2		1/2		1/2		1/2	
3/4	28	3/4	480	3/4	931	3/4	1,382	3/4	1,834	3/4		3/4		3/4		3/4		3/4	
1	38	1	489	1	940	1	1,392	1	1,843	1		1		1		1		1	
1/4	47	1/4	498	1/4	950	1/4	1,401	1/4	1,852	1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	508	1/2	959	1/2	1,410	1/2	1,862	1/2		1/2		1/2		1/2		1/2	
3/4	66	3/4	517	3/4	968	3/4	1,420	3/4	1,871	3/4		3/4		3/4		3/4		3/4	
2	75	2	527	2	978	2	1,429	2	1,881	2		2		2		2		2	
1/4	85	1/4	536	1/4	987	1/4	1,439	1/4	1,890	1/4		1/4		1/4		1/4		1/4	
1/2	94	1/2	545	1/2	997	1/2	1,448	1/2	1,899	1/2		1/2		1/2		1/2		1/2	
3/4	103	3/4	555	3/4	1,006	3/4	1,457	3/4	1,909	3/4		3/4		3/4		3/4		3/4	
3	113	3	564	3	1,015	3	1,467	3	1,918	3		3		3		3		3	
1/4	122	1/4	574	1/4	1,025	1/4	1,476	1/4	1,928	1/4		1/4		1/4		1/4		1/4	
1/2	132	1/2	583	1/2	1,034	1/2	1,486	1/2	1,937	1/2		1/2		1/2		1/2		1/2	
3/4	141	3/4	592	3/4	1,044	3/4	1,495	3/4	1,946	3/4		3/4		3/4		3/4		3/4	
4	150	4	602	4	1,053	4	1,504	4	1,956	4		4		4		4		4	
1/4	160	1/4	611	1/4	1,062	1/4	1,514	1/4	1,965	1/4		1/4		1/4		1/4		1/4	
1/2	169	1/2	621	1/2	1,072	1/2	1,523	1/2	1,975	1/2		1/2		1/2		1/2		1/2	
3/4	179	3/4	630	3/4	1,081	3/4	1,533	3/4	1,984	3/4		3/4		3/4		3/4		3/4	
5	188	5	639	5	1,091	5	1,542	5	1,993	5		5		5		5		5	
1/4	197	1/4	649	1/4	1,100	1/4	1,551	1/4	2,003	1/4		1/4		1/4		1/4		1/4	
1/2	207	1/2	658	1/2	1,110	1/2	1,561	1/2	2,012	1/2		1/2		1/2		1/2		1/2	
3/4	216	3/4	668	3/4	1,119	3/4	1,570	3/4	2,022	3/4		3/4		3/4		3/4		3/4	
6	226	6	677	6	1,128	6	1,580	6	2,031	6		6		6		6		6	
1/4	235	1/4	686	1/4	1,138	1/4	1,589	1/4	<u>2,041</u>	1/4		1/4		1/4		1/4		1/4	
1/2	244	1/2	696	1/2	1,147	1/2	1,598	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	254	3/4	705	3/4	1,157	3/4	1,608	3/4		3/4		3/4		3/4		3/4		3/4	
7	263	7	715	7	1,166	7	1,617	7		7		7		7		7		7	
1/4	273	1/4	724	1/4	1,175	1/4	1,627	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	282	1/2	733	1/2	1,185	1/2	1,636	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	291	3/4	743	3/4	1,194	3/4	1,645	3/4		3/4		3/4		3/4		3/4		3/4	
8	301	8	752	8	1,204	8	1,655	8		8		8		8		8		8	
1/4	310	1/4	762	1/4	1,213	1/4	1,664	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	320	1/2	771	1/2	1,222	1/2	1,674	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	329	3/4	780	3/4	1,232	3/4	1,683	3/4		3/4		3/4		3/4		3/4		3/4	
9	338	9	790	9	1,241	9	1,692	9		9		9		9		9		9	
1/4	348	1/4	799	1/4	1,251	1/4	1,702	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	357	1/2	809	1/2	1,260	1/2	1,711	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	367	3/4	818	3/4	1,269	3/4	1,721	3/4		3/4		3/4		3/4		3/4		3/4	
10	376	10	827	10	1,279	10	1,730	10		10		10		10		10		10	
1/4	386	1/4	837	1/4	1,288	1/4	1,739	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	395	1/2	846	1/2	1,298	1/2	1,749	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	404	3/4	856	3/4	1,307	3/4	1,758	3/4		3/4		3/4		3/4		3/4		3/4	
11	414	11	865	11	1,316	11	1,768	11		11		11		11		11		11	
1/4	423	1/4	874	1/4	1,326	1/4	1,777	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	433	1/2	884	1/2	1,335	1/2	1,786	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	442	3/4	893	3/4	1,345	3/4	1,796	3/4		3/4		3/4		3/4		3/4		3/4	

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BARGE "HTCO 3082"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

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	121	0	303	0	468	0		0		0		0		0		0	
1/4	1	1/4	124	1/4	307	1/4	470	1/4	1/4	1/4		1/4		1/4		1/4		1/4	
1/2	2	1/2	128	1/2	311	1/2	473	1/2	1/2	1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	132	3/4	314	3/4	476	3/4	3/4	3/4		3/4		3/4		3/4		3/4	
1	3	1	135	1	318	1	478	1	1	1		1		1		1		1	
1/4	5	1/4	139	1/4	322	1/4	481	1/4	1/4	1/4		1/4		1/4		1/4		1/4	
1/2	6	1/2	142	1/2	326	1/2	483	1/2	1/2	1/2		1/2		1/2		1/2		1/2	
3/4	7	3/4	146	3/4	330	3/4	486	3/4	3/4	3/4		3/4		3/4		3/4		3/4	
2	9	2	150	2	333	2	488	2	2	2		2		2		2		2	
1/4	11	1/4	153	1/4	337	1/4	490	1/4	1/4	1/4		1/4		1/4		1/4		1/4	
1/2	13	1/2	157	1/2	341	1/2	492	1/2	1/2	1/2		1/2		1/2		1/2		1/2	
3/4	14	3/4	161	3/4	345	3/4	494	3/4	3/4	3/4		3/4		3/4		3/4		3/4	
3	16	3	164	3	348	3	497	3	3	3		3		3		3		3	
1/4	18	1/4	168	1/4	352	1/4	498	1/4	1/4	1/4		1/4		1/4		1/4		1/4	
1/2	21	1/2	172	1/2	356	1/2	500	1/2	1/2	1/2		1/2		1/2		1/2		1/2	
3/4	23	3/4	176	3/4	359	3/4	502	3/4	3/4	3/4		3/4		3/4		3/4		3/4	
4	25	4	179	4	363	4	504	4	4	4		4		4		4		4	
1/4	27	1/4	183	1/4	367	1/4	505	1/4	1/4	1/4		1/4		1/4		1/4		1/4	
1/2	30	1/2	187	1/2	370	1/2	507	1/2	1/2	1/2		1/2		1/2		1/2		1/2	
3/4	32	3/4	191	3/4	374	3/4	508	3/4	3/4	3/4		3/4		3/4		3/4		3/4	
5	34	5	195	5	378	5	510	5	5	5		5		5		5		5	
1/4	37	1/4	198	1/4	381	1/4	510	1/4	1/4	1/4		1/4		1/4		1/4		1/4	
1/2	40	1/2	202	1/2	385	1/2	511	1/2	1/2	1/2		1/2		1/2		1/2		1/2	
3/4	42	3/4	206	3/4	388	3/4	512	3/4	3/4	3/4		3/4		3/4		3/4		3/4	
6	45	6	210	6	392	6	513	6	6	6		6		6		6		6	
1/4	48	1/4	214	1/4	395	1/4		1/4	1/4	1/4		1/4		1/4		1/4		1/4	
1/2	51	1/2	218	1/2	399	1/2		1/2	1/2	1/2		1/2		1/2		1/2		1/2	
3/4	53	3/4	221	3/4	402	3/4		3/4	3/4	3/4		3/4		3/4		3/4		3/4	
7	56	7	225	7	406	7		7	7	7		7		7		7		7	
1/4	59	1/4	229	1/4	409	1/4		1/4	1/4	1/4		1/4		1/4		1/4		1/4	
1/2	62	1/2	233	1/2	412	1/2		1/2	1/2	1/2		1/2		1/2		1/2		1/2	
3/4	65	3/4	237	3/4	416	3/4		3/4	3/4	3/4		3/4		3/4		3/4		3/4	
8	68	8	241	8	419	8		8	8	8		8		8		8		8	
1/4	71	1/4	245	1/4	422	1/4		1/4	1/4	1/4		1/4		1/4		1/4		1/4	
1/2	74	1/2	249	1/2	426	1/2		1/2	1/2	1/2		1/2		1/2		1/2		1/2	
3/4	77	3/4	253	3/4	429	3/4		3/4	3/4	3/4		3/4		3/4		3/4		3/4	
9	81	9	256	9	432	9		9	9	9		9		9		9		9	
1/4	84	1/4	260	1/4	435	1/4		1/4	1/4	1/4		1/4		1/4		1/4		1/4	
1/2	87	1/2	264	1/2	438	1/2		1/2	1/2	1/2		1/2		1/2		1/2		1/2	
3/4	90	3/4	268	3/4	442	3/4		3/4	3/4	3/4		3/4		3/4		3/4		3/4	
10	94	10	272	10	445	10		10	10	10		10		10		10		10	
1/4	97	1/4	276	1/4	448	1/4		1/4	1/4	1/4		1/4		1/4		1/4		1/4	
1/2	100	1/2	280	1/2	451	1/2		1/2	1/2	1/2		1/2		1/2		1/2		1/2	
3/4	104	3/4	284	3/4	454	3/4		3/4	3/4	3/4		3/4		3/4		3/4		3/4	
11	107	11	287	11	457	11		11	11	11		11		11		11		11	
1/4	111	1/4	291	1/4	459	1/4		1/4	1/4	1/4		1/4		1/4		1/4		1/4	
1/2	114	1/2	295	1/2	462	1/2		1/2	1/2	1/2		1/2		1/2		1/2		1/2	
3/4	117	3/4	299	3/4	465	3/4		3/4	3/4	3/4		3/4		3/4		3/4		3/4	

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