



# BARGE "HFL 406"

## ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

**EXAMPLE FOR ABOVE TRIM CORRECTIONS:**

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 6'-00"  
 DIFF. = 4'-00" (DOWN BY STERN)

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

September 21, 2023

**PRECISION MEASUREMENT  
& ANALYSIS, INC.**

P.O. Box 2092  
 Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HFL 406"

# 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0	4,535.90	0	4,264.27	0	3,953.85	0	3,643.42	0	3,333.01	0	3,022.59	0	2,712.16	0	2,401.75		
1/4	1/4	1/4	1/4	1/4	4,533.74	1/4	4,257.80	1/4	3,947.38	1/4	3,636.96	1/4	3,326.54	1/4	3,016.12	1/4	2,705.69	1/4	2,395.28		
1/2	1/2	1/2	1/2	1/2	4,531.59	1/2	4,251.33	1/2	3,940.92	1/2	3,630.49	1/2	3,320.07	1/2	3,009.66	1/2	2,699.23	1/2	2,388.81		
3/4	3/4	3/4	3/4	3/4	4,529.43	3/4	4,244.86	3/4	3,934.46	3/4	3,624.03	3/4	3,313.60	3/4	3,003.19	3/4	2,692.76	3/4	2,382.34		
1		1		1	4,526.19	1	4,238.40	1	3,927.99	1	3,617.56	1	3,307.13	1	2,996.72	1	2,686.29	1	2,375.87		
1/4	1/4	1/4	1/4	1/4	4,522.96	1/4	4,231.93	1/4	3,921.51	1/4	3,611.09	1/4	3,300.67	1/4	2,990.25	1/4	2,679.82	1/4	2,369.41		
1/2	1/2	1/2	1/2	1/2	4,519.72	1/2	4,225.47	1/2	3,915.04	1/2	3,604.62	1/2	3,294.21	1/2	2,983.78	1/2	2,673.35	1/2	2,362.94		
3/4	3/4	3/4	3/4	3/4	4,516.48	3/4	4,219.00	3/4	3,908.57	3/4	3,598.15	3/4	3,287.74	3/4	2,977.31	3/4	2,666.88	3/4	2,356.48		
2		2		2	4,512.17	2	4,212.53	2	3,902.11	2	3,591.68	2	3,281.27	2	2,970.85	2	2,660.42	2	2,350.01		
1/4	1/4	1/4	1/4	1/4	4,507.86	1/4	4,206.06	1/4	3,895.65	1/4	3,585.22	1/4	3,274.80	1/4	2,964.38	1/4	2,653.96	1/4	2,343.54		
1/2	1/2	1/2	1/2	1/2	4,503.55	1/2	4,199.59	1/2	3,889.18	1/2	3,578.75	1/2	3,268.33	1/2	2,957.92	1/2	2,647.49	1/2	2,337.07		
3/4	3/4	3/4	3/4	3/4	4,499.24	3/4	4,193.12	3/4	3,882.72	3/4	3,572.29	3/4	3,261.86	3/4	2,951.46	3/4	2,641.03	3/4	2,330.60		
3		3		3	4,493.85	3	4,186.66	3	3,876.25	3	3,565.82	3	3,255.40	3	2,944.99	3	2,634.56	3	2,324.13		
1/4	1/4	1/4	1/4	1/4	4,488.47	1/4	4,180.19	1/4	3,869.78	1/4	3,559.36	1/4	3,248.93	1/4	2,938.51	1/4	2,628.09	1/4	2,317.67		
1/2	1/2	1/2	1/2	1/2	4,483.08	1/2	4,173.73	1/2	3,863.31	1/2	3,552.90	1/2	3,242.47	1/2	2,932.04	1/2	2,621.62	1/2	2,311.21		
3/4	3/4	3/4	3/4	3/4	4,477.69	3/4	4,167.26	3/4	3,856.84	3/4	3,546.43	3/4	3,236.00	3/4	2,925.57	3/4	2,615.15	3/4	2,304.74		
4		4		4	4,471.22	4	4,160.80	4	3,850.37	4	3,539.96	4	3,229.53	4	2,919.11	4	2,608.68	4	2,298.27		
1/4	1/4	1/4	1/4	1/4	4,464.75	1/4	4,154.34	1/4	3,843.91	1/4	3,533.49	1/4	3,223.06	1/4	2,912.65	1/4	2,602.22	1/4	2,291.80		
1/2	1/2	1/2	1/2	1/2	4,458.28	1/2	4,147.87	1/2	3,837.44	1/2	3,527.02	1/2	3,216.59	1/2	2,906.18	1/2	2,595.75	1/2	2,285.33		
3/4	3/4	3/4	3/4	3/4	4,451.81	3/4	4,141.41	3/4	3,830.98	3/4	3,520.55	3/4	3,210.12	3/4	2,899.72	3/4	2,589.29	3/4	2,278.86		
5		5		5	4,445.35	5	4,134.94	5	3,824.51	5	3,514.09	5	3,203.66	5	2,893.25	5	2,582.82	5	2,272.40		
1/4	1/4	1/4	1/4	1/4	4,438.88	1/4	4,128.47	1/4	3,818.04	1/4	3,507.62	1/4	3,197.19	1/4	2,886.78	1/4	2,576.35	1/4	2,265.93		
1/2	1/2	1/2	1/2	1/2	4,432.42	1/2	4,122.00	1/2	3,811.57	1/2	3,501.16	1/2	3,190.73	1/2	2,880.31	1/2	2,569.88	1/2	2,259.47		
3/4	3/4	3/4	3/4	3/4	4,425.96	3/4	4,115.53	3/4	3,805.10	3/4	3,494.69	3/4	3,184.26	3/4	2,873.84	3/4	2,563.41	3/4	2,253.00		
6		6		6	4,419.49	6	4,109.06	6	3,798.63	6	3,488.22	6	3,177.79	6	2,867.37	6	2,556.94	6	2,246.53		
1/4	1/4	1/4	1/4	1/4	4,413.01	1/4	4,102.60	1/4	3,792.17	1/4	3,481.75	1/4	3,171.32	1/4	2,860.91	1/4	2,550.48	1/4	2,240.06		
1/2	1/2	1/2	1/2	1/2	4,406.54	1/2	4,096.13	1/2	3,785.71	1/2	3,475.28	1/2	3,164.85	1/2	2,854.44	1/2	2,544.01	1/2	2,233.59		
3/4	3/4	3/4	3/4	3/4	4,400.07	3/4	4,089.67	3/4	3,779.24	3/4	3,468.81	3/4	3,158.38	3/4	2,847.98	3/4	2,537.55	3/4	2,227.12		
7		7		7	4,393.61	7	4,083.20	7	3,772.77	7	3,462.35	7	3,151.92	7	2,841.51	7	2,531.08	7	2,220.66		
1/4	1/4	1/4	1/4	1/4	4,387.15	1/4	4,076.73	1/4	3,766.30	1/4	3,455.88	1/4	3,145.46	1/4	2,835.04	1/4	2,524.61	1/4	2,214.19		
1/2	1/2	1/2	1/2	1/2	4,380.68	1/2	4,070.26	1/2	3,759.83	1/2	3,449.42	1/2	3,138.99	1/2	2,828.57	1/2	2,518.14	1/2	2,207.73		
3/4	3/4	3/4	3/4	3/4	4,374.22	3/4	4,063.79	3/4	3,753.36	3/4	3,442.96	3/4	3,132.53	3/4	2,822.10	3/4	2,511.67	3/4	2,201.26		
8		8		8	4,367.75	8	4,057.32	8	3,746.90	8	3,436.49	8	3,126.06	8	2,815.63	8	2,505.21	8	2,194.79		
1/4	1/4	1/4	1/4	1/4	4,361.28	1/4	4,050.86	1/4	3,740.43	1/4	3,430.01	1/4	3,119.59	1/4	2,809.17	1/4	2,498.74	1/4	2,188.32		
1/2	1/2	1/2	1/2	1/2	4,354.81	1/2	4,044.40	1/2	3,733.97	1/2	3,423.54	1/2	3,113.12	1/2	2,802.71	1/2	2,492.28	1/2	2,181.85		
3/4	3/4	3/4	3/4	3/4	4,348.34	3/4	4,037.93	3/4	3,727.50	3/4	3,417.07	3/4	3,106.65	3/4	2,796.24	3/4	2,485.81	3/4	2,175.38		
9		9		9	4,341.87	9	4,031.46	9	3,721.03	9	3,410.61	9	3,100.18	9	2,789.77	9	2,479.34	9	2,168.92		
1/4	1/4	1/4	1/4	1/4	4,335.41	1/4	4,024.99	1/4	3,714.56	1/4	3,404.15	1/4	3,093.72	1/4	2,783.30	1/4	2,472.87	1/4	2,162.46		
1/2	1/2	1/2	1/2	1/2	4,328.94	1/2	4,018.52	1/2	3,708.09	1/2	3,397.68	1/2	3,087.25	1/2	2,776.83	1/2	2,466.40	1/2	2,155.99		
3/4	3/4	3/4	3/4	3/4	4,322.48	3/4	4,012.05	3/4	3,701.62	3/4	3,391.22	3/4	3,080.79	3/4	2,770.36	3/4	2,459.93	3/4	2,149.53		
10		10		10	4,316.01	10	4,005.59	10	3,695.16	10	3,384.75	10	3,074.32	10	2,763.90	10	2,453.47	10	2,143.06		
1/4	1/4	1/4	1/4	1/4	4,309.54	1/4	3,999.12	1/4	3,688.69	1/4	3,378.28	1/4	3,067.85	1/4	2,757.43	1/4	2,447.00	1/4	2,136.59		
1/2	1/2	1/2	1/2	1/2	4,303.07	1/2	3,992.66	1/2	3,682.23	1/2	3,371.81	1/2	3,061.38	1/2	2,750.97	1/2	2,440.54	1/2	2,130.12		
3/4	3/4	3/4	3/4	3/4	4,542.36	3/4	4,296.60	3/4	3,986.19	3/4	3,675.76	3/4	3,365.34	3/4	3,054.91	3/4	2,744.50	3/4	2,434.07	3/4	2,123.65
11		11		11	4,541.28	11	4,290.13	11	3,979.72	11	3,669.29	11	3,358.87	11	3,048.44	11	2,738.03	11	2,427.61	11	2,117.18
1/4	1/4	1/4	1/4	1/4	4,540.21	1/4	4,283.67	1/4	3,973.25	1/4	3,662.82	1/4	3,352.41	1/4	3,041.98	1/4	2,731.56	1/4	2,421.15	1/4	2,110.72
1/2	1/2	1/2	1/2	1/2	4,539.13	1/2	4,277.21	1/2	3,966.78	1/2	3,656.35	1/2	3,345.94	1/2	3,035.51	1/2	2,725.09	1/2	2,414.68	1/2	2,104.25
3/4	3/4	3/4	3/4	3/4	4,538.05	3/4	4,270.74	3/4	3,960.31	3/4	3,649.88	3/4	3,339.48	3/4	3,029.05	3/4	2,718.62	3/4	2,408.22	3/4	2,097.79

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.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON MMC VALVE.  
 GAUGE POINT: (MMC) LOCATED 11'-06" OFF CENTERLINE AND 39'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
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# BARGE "HFL 406"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	2,091.32	0	1,780.90	0	1,470.47	0	1,160.06	0	849.80	0	539.44	0	239.50	0		0		0	
1/4	2,084.85	1/4	1,774.43	1/4	1,464.00	1/4	1,153.59	1/4	843.34	1/4	532.98	1/4	233.67	1/4		1/4		1/4	
1/2	2,078.38	1/2	1,767.97	1/2	1,457.54	1/2	1,147.12	1/2	836.87	1/2	526.51	1/2	227.84	1/2		1/2		1/2	
3/4	2,071.91	3/4	1,761.50	3/4	1,451.07	3/4	1,140.65	3/4	830.41	3/4	520.05	3/4	222.00	3/4		3/4		3/4	
1	2,065.44	1	1,755.03	1	1,444.60	1	1,134.18	1	823.94	1	513.58	1	216.25	1		1		1	
1/4	2,058.98	1/4	1,748.56	1/4	1,438.13	1/4	1,127.72	1/4	817.48	1/4	507.11	1/4	210.49	1/4		1/4		1/4	
1/2	2,052.51	1/2	1,742.09	1/2	1,431.66	1/2	1,121.25	1/2	811.01	1/2	500.64	1/2	204.73	1/2		1/2		1/2	
3/4	2,046.05	3/4	1,735.62	3/4	1,425.19	3/4	1,114.79	3/4	804.55	3/4	494.17	3/4	198.98	3/4		3/4		3/4	
2	2,039.58	2	1,729.16	2	1,418.73	2	1,108.32	2	798.09	2	487.71	2	193.29	2		2		2	
1/4	2,033.11	1/4	1,722.69	1/4	1,412.26	1/4	1,101.85	1/4	791.62	1/4	481.24	1/4	187.60	1/4		1/4		1/4	
1/2	2,026.64	1/2	1,716.23	1/2	1,405.80	1/2	1,095.38	1/2	785.16	1/2	474.78	1/2	181.91	1/2		1/2		1/2	
3/4	2,020.17	3/4	1,709.76	3/4	1,399.34	3/4	1,088.91	3/4	778.69	3/4	468.31	3/4	176.22	3/4		3/4		3/4	
3	2,013.71	3	1,703.29	3	1,392.87	3	1,082.44	3	772.23	3	461.84	3	170.60	3		3		3	
1/4	2,007.24	1/4	1,696.82	1/4	1,386.40	1/4	1,075.98	1/4	765.76	1/4	455.37	1/4	164.98	1/4		1/4		1/4	
1/2	2,000.78	1/2	1,690.35	1/2	1,379.93	1/2	1,069.51	1/2	759.30	1/2	448.90	1/2	159.36	1/2		1/2		1/2	
3/4	1,994.31	3/4	1,683.88	3/4	1,373.46	3/4	1,063.05	3/4	752.84	3/4	442.43	3/4	153.74	3/4		3/4		3/4	
4	1,987.84	4	1,677.42	4	1,366.99	4	1,056.59	4	746.37	4	436.02	4	148.20	4		4		4	
1/4	1,981.37	1/4	1,670.96	1/4	1,360.53	1/4	1,050.12	1/4	739.91	1/4	429.61	1/4	142.66	1/4		1/4		1/4	
1/2	1,974.90	1/2	1,664.49	1/2	1,354.06	1/2	1,043.66	1/2	733.44	1/2	423.20	1/2	137.12	1/2		1/2		1/2	
3/4	1,968.43	3/4	1,658.03	3/4	1,347.60	3/4	1,037.19	3/4	726.98	3/4	416.79	3/4	131.57	3/4		3/4		3/4	
5	1,961.97	5	1,651.56	5	1,341.13	5	1,030.73	5	720.51	5	410.45	5	126.10	5		5		5	
1/4	1,955.50	1/4	1,645.09	1/4	1,334.66	1/4	1,024.26	1/4	714.04	1/4	404.11	1/4	120.63	1/4		1/4		1/4	
1/2	1,949.04	1/2	1,638.62	1/2	1,328.19	1/2	1,017.80	1/2	707.57	1/2	397.77	1/2	115.16	1/2		1/2		1/2	
3/4	1,942.57	3/4	1,632.15	3/4	1,321.72	3/4	1,011.34	3/4	701.10	3/4	391.43	3/4	109.69	3/4		3/4		3/4	
6	1,936.10	6	1,625.68	6	1,315.25	6	1,004.88	6	694.63	6	385.16	6	104.29	6		6		6	
1/4	1,929.63	1/4	1,619.22	1/4	1,308.79	1/4	998.42	1/4	688.17	1/4	378.90	1/4	98.90	1/4		1/4		1/4	
1/2	1,923.16	1/2	1,612.75	1/2	1,302.32	1/2	991.96	1/2	681.71	1/2	372.63	1/2	93.50	1/2		1/2		1/2	
3/4	1,916.69	3/4	1,606.29	3/4	1,295.86	3/4	985.50	3/4	675.24	3/4	366.36	3/4	88.10	3/4		3/4		3/4	
7	1,910.23	7	1,599.82	7	1,289.40	7	979.04	7	668.78	7	360.16	7	82.77	7		7		7	
1/4	1,903.76	1/4	1,593.35	1/4	1,282.93	1/4	972.57	1/4	662.31	1/4	353.97	1/4	77.44	1/4		1/4		1/4	
1/2	1,897.30	1/2	1,586.88	1/2	1,276.47	1/2	966.11	1/2	655.85	1/2	347.77	1/2	72.12	1/2		1/2		1/2	
3/4	1,890.84	3/4	1,580.41	3/4	1,270.00	3/4	959.65	3/4	649.38	3/4	341.57	3/4	66.79	3/4		3/4		3/4	
8	1,884.37	8	1,573.94	8	1,263.53	8	953.19	8	642.91	8	335.45	8	61.53	8		8		8	
1/4	1,877.91	1/4	1,567.48	1/4	1,257.06	1/4	946.73	1/4	636.44	1/4	329.32	1/4	56.28	1/4		1/4		1/4	
1/2	1,871.44	1/2	1,561.01	1/2	1,250.59	1/2	940.27	1/2	629.97	1/2	323.20	1/2	51.02	1/2		1/2		1/2	
3/4	1,864.98	3/4	1,554.55	3/4	1,244.12	3/4	933.81	3/4	623.50	3/4	317.07	3/4	45.76	3/4		3/4		3/4	
9	1,858.51	9	1,548.08	9	1,237.66	9	927.35	9	617.04	9	311.03	9	41.20	9		9		9	
1/4	1,852.04	1/4	1,541.61	1/4	1,231.19	1/4	920.88	1/4	610.57	1/4	304.98	1/4	36.63	1/4		1/4		1/4	
1/2	1,845.57	1/2	1,535.14	1/2	1,224.73	1/2	914.42	1/2	604.11	1/2	298.93	1/2	32.07	1/2		1/2		1/2	
3/4	1,839.10	3/4	1,528.67	3/4	1,218.26	3/4	907.96	3/4	597.65	3/4	292.88	3/4	27.50	3/4		3/4		3/4	
10	1,832.63	10	1,522.21	10	1,211.79	10	901.50	10	591.18	10	286.91	10	24.24	10		10		10	
1/4	1,826.17	1/4	1,515.74	1/4	1,205.32	1/4	895.04	1/4	584.72	1/4	280.93	1/4	20.98	1/4		1/4		1/4	
1/2	1,819.71	1/2	1,509.28	1/2	1,198.85	1/2	888.58	1/2	578.25	1/2	274.95	1/2	17.72	1/2		1/2		1/2	
3/4	1,813.24	3/4	1,502.81	3/4	1,192.38	3/4	882.12	3/4	571.79	3/4	268.98	3/4	14.46	3/4		3/4		3/4	
11	1,806.77	11	1,496.34	11	1,185.92	11	875.66	11	565.32	11	263.07	11		11		11		11	
1/4	1,800.30	1/4	1,489.87	1/4	1,179.46	1/4	869.19	1/4	558.85	1/4	257.16	1/4		1/4		1/4		1/4	
1/2	1,793.83	1/2	1,483.40	1/2	1,172.99	1/2	862.73	1/2	552.38	1/2	251.25	1/2		1/2		1/2		1/2	
3/4	1,787.36	3/4	1,476.93	3/4	1,166.53	3/4	856.26	3/4	545.91	3/4	245.34	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2008 CB  
RECALCULATED: 09/04/2018  
VERIFIED: 09/21/2023 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2023

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



# BARGE "HFL 406"

# 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4		1/4		1/4	4,533.21	1/4	4,266.19	1/4	3,956.09	1/4	3,646.00	1/4	3,335.90	1/4	3,025.81	1/4	2,715.73	1/4	2,405.64		
1/2		1/2		1/2	4,531.06	1/2	4,259.73	1/2	3,949.63	1/2	3,639.54	1/2	3,329.44	1/2	3,019.35	1/2	2,709.27	1/2	2,399.17		
3/4		3/4		3/4	4,528.90	3/4	4,253.27	3/4	3,943.17	3/4	3,633.08	3/4	3,322.98	3/4	3,012.89	3/4	2,702.81	3/4	2,392.71		
1	1	1	1	1	4,526.75	1	4,246.81	1	3,936.72	1	3,626.62	1	3,316.53	1	3,006.43	1	2,696.34	1	2,386.25		
1/4		1/4		1/4	4,524.59	1/4	4,240.35	1/4	3,930.26	1/4	3,620.16	1/4	3,310.07	1/4	2,999.97	1/4	2,688.88	1/4	2,379.78		
1/2		1/2		1/2	4,521.36	1/2	4,233.89	1/2	3,923.79	1/2	3,613.70	1/2	3,303.61	1/2	2,993.51	1/2	2,683.42	1/2	2,373.32		
3/4		3/4		3/4	4,518.13	3/4	4,227.42	3/4	3,917.33	3/4	3,607.25	3/4	3,297.15	3/4	2,987.06	3/4	2,676.96	3/4	2,366.87		
2	2	2	2	2	4,514.90	2	4,220.96	2	3,910.87	2	3,600.79	2	3,290.69	2	2,980.60	2	2,670.50	2	2,360.41		
1/4		1/4		1/4	4,511.66	1/4	4,214.50	1/4	3,904.40	1/4	3,594.33	1/4	3,284.23	1/4	2,974.14	1/4	2,664.04	1/4	2,353.95		
1/2		1/2		1/2	4,507.36	1/2	4,208.04	1/2	3,897.94	1/2	3,587.87	1/2	3,277.77	1/2	2,967.68	1/2	2,657.59	1/2	2,347.49		
3/4		3/4		3/4	4,503.06	3/4	4,201.58	3/4	3,891.48	3/4	3,581.40	3/4	3,271.31	3/4	2,961.22	3/4	2,651.13	3/4	2,341.03		
3	3	3	3	3	4,498.75	3	4,195.12	3	3,885.03	3	3,574.94	3	3,264.84	3	2,954.76	3	2,644.67	3	2,334.57		
1/4		1/4		1/4	4,494.45	1/4	4,188.66	1/4	3,878.57	1/4	3,568.47	1/4	3,258.38	1/4	2,948.31	1/4	2,638.21	1/4	2,328.12		
1/2		1/2		1/2	4,489.06	1/2	4,182.20	1/2	3,872.11	1/2	3,562.01	1/2	3,251.92	1/2	2,941.84	1/2	2,631.75	1/2	2,321.66		
3/4		3/4		3/4	4,483.67	3/4	4,175.75	3/4	3,865.65	3/4	3,555.56	3/4	3,245.46	3/4	2,935.38	3/4	2,625.28	3/4	2,315.20		
4	4	4	4	4	4,478.29	4	4,169.29	4	3,859.19	4	3,549.10	4	3,239.00	4	2,928.91	4	2,618.82	4	2,308.74		
1/4		1/4		1/4	4,472.90	1/4	4,162.83	1/4	3,852.73	1/4	3,542.64	1/4	3,232.54	1/4	2,922.45	1/4	2,612.35	1/4	2,302.28		
1/2		1/2		1/2	4,466.44	1/2	4,156.37	1/2	3,846.27	1/2	3,536.18	1/2	3,226.09	1/2	2,915.99	1/2	2,605.89	1/2	2,295.82		
3/4		3/4		3/4	4,459.98	3/4	4,149.90	3/4	3,839.81	3/4	3,529.72	3/4	3,219.63	3/4	2,909.53	3/4	2,599.44	3/4	2,289.35		
5	5	5	5	5	4,453.53	5	4,143.44	5	3,833.34	5	3,523.26	5	3,213.17	5	2,903.07	5	2,592.98	5	2,282.89		
1/4		1/4		1/4	4,447.07	1/4	4,136.97	1/4	3,826.88	1/4	3,516.81	1/4	3,206.71	1/4	2,896.62	1/4	2,586.52	1/4	2,276.42		
1/2		1/2		1/2	4,440.61	1/2	4,130.51	1/2	3,820.42	1/2	3,510.34	1/2	3,200.25	1/2	2,890.16	1/2	2,580.06	1/2	2,269.97		
3/4		3/4		3/4	4,434.15	3/4	4,124.06	3/4	3,813.96	3/4	3,503.88	3/4	3,193.78	3/4	2,883.70	3/4	2,573.60	3/4	2,263.51		
6	6	6	6	6	4,427.69	6	4,117.60	6	3,807.50	6	3,497.41	6	3,187.32	6	2,877.24	6	2,567.15	6	2,257.05		
1/4		1/4		1/4	4,421.23	1/4	4,111.14	1/4	3,801.04	1/4	3,490.95	1/4	3,180.85	1/4	2,870.78	1/4	2,560.69	1/4	2,250.59		
1/2		1/2		1/2	4,414.77	1/2	4,104.68	1/2	3,794.59	1/2	3,484.49	1/2	3,174.39	1/2	2,864.32	1/2	2,554.22	1/2	2,244.13		
3/4		3/4		3/4	4,408.31	3/4	4,098.22	3/4	3,788.13	3/4	3,478.03	3/4	3,167.94	3/4	2,857.85	3/4	2,547.76	3/4	2,237.67		
7	7	7	7	7	4,401.84	7	4,091.76	7	3,781.67	7	3,471.57	7	3,161.48	7	2,851.39	7	2,541.29	7	2,231.22		
1/4		1/4		1/4	4,395.38	1/4	4,085.31	1/4	3,775.21	1/4	3,465.12	1/4	3,155.02	1/4	2,844.92	1/4	2,534.83	1/4	2,224.76		
1/2		1/2		1/2	4,388.92	1/2	4,078.84	1/2	3,768.75	1/2	3,458.66	1/2	3,148.56	1/2	2,838.47	1/2	2,528.37	1/2	2,218.29		
3/4		3/4		3/4	4,382.46	3/4	4,072.38	3/4	3,762.28	3/4	3,452.20	3/4	3,142.10	3/4	2,832.01	3/4	2,521.91	3/4	2,211.83		
8	8	8	8	8	4,376.00	8	4,065.91	8	3,755.82	8	3,445.74	8	3,135.65	8	2,825.55	8	2,515.45	8	2,205.37		
1/4		1/4		1/4	4,369.54	1/4	4,059.45	1/4	3,749.35	1/4	3,439.28	1/4	3,129.19	1/4	2,819.09	1/4	2,509.00	1/4	2,198.90		
1/2		1/2		1/2	4,363.09	1/2	4,052.99	1/2	3,742.89	1/2	3,432.82	1/2	3,122.72	1/2	2,812.63	1/2	2,502.54	1/2	2,192.44		
3/4		3/4		3/4	4,356.63	3/4	4,046.53	3/4	3,736.44	3/4	3,426.35	3/4	3,116.26	3/4	2,806.17	3/4	2,496.08	3/4	2,185.98		
9	9	9	9	9	4,350.17	9	4,040.07	9	3,729.98	9	3,419.89	9	3,109.79	9	2,799.72	9	2,489.62	9	2,179.53		
1/4		1/4		1/4	4,343.71	1/4	4,033.62	1/4	3,723.52	1/4	3,413.42	1/4	3,103.33	1/4	2,793.26	1/4	2,483.16	1/4	2,173.07		
1/2		1/2		1/2	4,337.25	1/2	4,027.16	1/2	3,717.06	1/2	3,406.97	1/2	3,096.87	1/2	2,786.79	1/2	2,476.70	1/2	2,166.61		
3/4		3/4		3/4	4,330.78	3/4	4,020.70	3/4	3,710.60	3/4	3,400.51	3/4	3,090.41	3/4	2,780.33	3/4	2,470.23	3/4	2,160.15		
10	10	10	10	10	4,324.32	10	4,014.24	10	3,704.15	10	3,394.05	10	3,083.95	10	2,773.87	10	2,463.77	10	2,153.69		
1/4		1/4		1/4	4,317.85	1/4	4,007.78	1/4	3,697.69	1/4	3,387.59	1/4	3,077.50	1/4	2,767.40	1/4	2,457.31	1/4	2,147.23		
1/2		1/2		1/2	4,311.39	1/2	4,001.32	1/2	3,691.22	1/2	3,381.13	1/2	3,071.04	1/2	2,760.94	1/2	2,450.85	1/2	2,140.77		
3/4		3/4		3/4	4,304.94	3/4	3,994.85	3/4	3,684.76	3/4	3,374.67	3/4	3,064.58	3/4	2,754.48	3/4	2,444.39	3/4	2,134.31		
11	11	11	11	11	4,298.48	11	3,988.39	11	3,678.29	11	3,368.22	11	3,058.12	11	2,748.03	11	2,437.93	11	2,127.84		
1/4		1/4		1/4	4,537.52	1/4	4,292.02	1/4	3,981.93	1/4	3,671.83	1/4	3,361.76	1/4	3,051.66	1/4	2,741.57	1/4	2,431.47		
1/2		1/2		1/2	4,536.44	1/2	4,285.56	1/2	3,975.47	1/2	3,665.37	1/2	3,355.29	1/2	3,045.20	1/2	2,735.11	1/2	2,425.01		
3/4		3/4		3/4	4,535.37	3/4	4,279.10	3/4	3,969.01	3/4	3,658.91	3/4	3,348.83	3/4	3,038.73	3/4	2,728.65	3/4	2,418.56		
12	12	12	12	12	4,534.29	12	4,272.64	12	3,962.55	12	3,652.45	12	3,342.37	12	3,032.27	12	2,722.19	12	2,412.10		

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.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON MMC VALVE.

GAUGE POINT: (MMC) LOCATED 11'-06" OFF CENTERLINE AND 39'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "HFL 406"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11"

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	2,095.54	0	1,785.45	0	1,475.35	0	1,165.26	0	855.35	0	545.33	0	245.07	0		0		0	
1/4	2,089.09	1/4	1,778.99	1/4	1,468.89	1/4	1,158.80	1/4	848.89	1/4	538.87	1/4	239.25	1/4		1/4		1/4	
1/2	2,082.63	1/2	1,772.53	1/2	1,462.44	1/2	1,152.34	1/2	842.44	1/2	532.40	1/2	233.42	1/2		1/2		1/2	
3/4	2,076.17	3/4	1,766.07	3/4	1,455.98	3/4	1,145.88	3/4	835.98	3/4	525.94	3/4	227.60	3/4		3/4		3/4	
1	2,069.71	1	1,759.62	1	1,449.52	1	1,139.42	1	829.52	1	519.47	1	221.78	1		1		1	
1/4	2,063.25	1/4	1,753.15	1/4	1,443.06	1/4	1,132.97	1/4	823.06	1/4	513.01	1/4	216.03	1/4		1/4		1/4	
1/2	2,056.78	1/2	1,746.69	1/2	1,436.60	1/2	1,126.51	1/2	816.60	1/2	506.56	1/2	210.27	1/2		1/2		1/2	
3/4	2,050.32	3/4	1,740.22	3/4	1,430.15	3/4	1,120.05	3/4	810.14	3/4	500.10	3/4	204.51	3/4		3/4		3/4	
2	2,043.85	2	1,733.76	2	1,423.69	2	1,113.59	2	803.69	2	493.64	2	198.76	2		2		2	
1/4	2,037.39	1/4	1,727.30	1/4	1,417.22	1/4	1,107.13	1/4	797.23	1/4	487.18	1/4	193.07	1/4		1/4		1/4	
1/2	2,030.94	1/2	1,720.84	1/2	1,410.76	1/2	1,100.66	1/2	790.77	1/2	480.72	1/2	187.39	1/2		1/2		1/2	
3/4	2,024.48	3/4	1,714.38	3/4	1,404.29	3/4	1,094.20	3/4	784.31	3/4	474.26	3/4	181.70	3/4		3/4		3/4	
3	2,018.02	3	1,707.92	3	1,397.83	3	1,087.73	3	777.85	3	467.81	3	176.02	3		3		3	
1/4	2,011.56	1/4	1,701.47	1/4	1,391.37	1/4	1,081.28	1/4	771.39	1/4	461.35	1/4	170.41	1/4		1/4		1/4	
1/2	2,005.10	1/2	1,695.01	1/2	1,384.91	1/2	1,074.83	1/2	764.94	1/2	454.89	1/2	164.79	1/2		1/2		1/2	
3/4	1,998.65	3/4	1,688.55	3/4	1,378.45	3/4	1,068.38	3/4	758.48	3/4	448.43	3/4	159.18	3/4		3/4		3/4	
4	1,992.19	4	1,682.09	4	1,372.00	4	1,061.92	4	752.02	4	441.97	4	153.57	4		4		4	
1/4	1,985.72	1/4	1,675.63	1/4	1,365.54	1/4	1,055.47	1/4	745.56	1/4	435.56	1/4	148.03	1/4		1/4		1/4	
1/2	1,979.26	1/2	1,669.17	1/2	1,359.08	1/2	1,049.01	1/2	739.10	1/2	429.15	1/2	142.50	1/2		1/2		1/2	
3/4	1,972.79	3/4	1,662.72	3/4	1,352.62	3/4	1,042.55	3/4	732.64	3/4	422.74	3/4	136.96	3/4		3/4		3/4	
5	1,966.33	5	1,656.26	5	1,346.16	5	1,036.09	5	726.19	5	416.33	5	131.42	5		5		5	
1/4	1,959.87	1/4	1,649.79	1/4	1,339.70	1/4	1,029.63	1/4	719.73	1/4	410.00	1/4	125.96	1/4		1/4		1/4	
1/2	1,953.41	1/2	1,643.33	1/2	1,333.23	1/2	1,023.17	1/2	713.27	1/2	403.66	1/2	120.50	1/2		1/2		1/2	
3/4	1,946.95	3/4	1,636.87	3/4	1,326.77	3/4	1,016.72	3/4	706.81	3/4	397.33	3/4	115.03	3/4		3/4		3/4	
6	1,940.50	6	1,630.40	6	1,320.31	6	1,010.26	6	700.35	6	391.00	6	109.57	6		6		6	
1/4	1,934.04	1/4	1,623.94	1/4	1,313.85	1/4	1,003.81	1/4	693.89	1/4	384.74	1/4	104.17	1/4		1/4		1/4	
1/2	1,927.58	1/2	1,617.48	1/2	1,307.39	1/2	997.35	1/2	687.44	1/2	378.48	1/2	98.78	1/2		1/2		1/2	
3/4	1,921.12	3/4	1,611.03	3/4	1,300.93	3/4	990.90	3/4	680.98	3/4	372.23	3/4	93.39	3/4		3/4		3/4	
7	1,914.66	7	1,604.57	7	1,294.47	7	984.45	7	674.52	7	365.97	7	88.00	7		7		7	
1/4	1,908.20	1/4	1,598.11	1/4	1,288.01	1/4	977.99	1/4	668.06	1/4	359.78	1/4	82.67	1/4		1/4		1/4	
1/2	1,901.73	1/2	1,591.65	1/2	1,281.56	1/2	971.53	1/2	661.60	1/2	353.59	1/2	77.35	1/2		1/2		1/2	
3/4	1,895.27	3/4	1,585.19	3/4	1,275.10	3/4	965.07	3/4	655.15	3/4	347.40	3/4	72.03	3/4		3/4		3/4	
8	1,888.81	8	1,578.73	8	1,268.64	8	958.62	8	648.69	8	341.21	8	66.71	8		8		8	
1/4	1,882.35	1/4	1,572.27	1/4	1,262.17	1/4	952.16	1/4	642.22	1/4	335.09	1/4	61.46	1/4		1/4		1/4	
1/2	1,875.89	1/2	1,565.81	1/2	1,255.71	1/2	945.71	1/2	635.76	1/2	328.97	1/2	56.21	1/2		1/2		1/2	
3/4	1,869.43	3/4	1,559.34	3/4	1,249.25	3/4	939.26	3/4	629.29	3/4	322.85	3/4	50.96	3/4		3/4		3/4	
9	1,862.97	9	1,552.88	9	1,242.78	9	932.81	9	622.83	9	316.73	9	45.71	9		9		9	
1/4	1,856.51	1/4	1,546.42	1/4	1,236.32	1/4	926.35	1/4	616.37	1/4	310.69	1/4	41.15	1/4		1/4		1/4	
1/2	1,850.06	1/2	1,539.96	1/2	1,229.87	1/2	919.89	1/2	609.91	1/2	304.65	1/2	36.59	1/2		1/2		1/2	
3/4	1,843.60	3/4	1,533.50	3/4	1,223.41	3/4	913.43	3/4	603.45	3/4	298.61	3/4	32.03	3/4		3/4		3/4	
10	1,837.14	10	1,527.04	10	1,216.95	10	906.97	10	597.00	10	292.57	10	27.47	10		10		10	
1/4	1,830.67	1/4	1,520.59	1/4	1,210.49	1/4	900.52	1/4	590.54	1/4	286.60	1/4	24.21	1/4		1/4		1/4	
1/2	1,824.21	1/2	1,514.13	1/2	1,204.03	1/2	894.07	1/2	584.08	1/2	280.63	1/2	20.95	1/2		1/2		1/2	
3/4	1,817.75	3/4	1,507.67	3/4	1,197.57	3/4	887.61	3/4	577.62	3/4	274.66	3/4	17.69	3/4		3/4		3/4	
11	1,811.28	11	1,501.21	11	1,191.12	11	881.16	11	571.16	11	268.69	11	14.42	11		11		11	
1/4	1,804.82	1/4	1,494.75	1/4	1,184.65	1/4	874.71	1/4	564.70	1/4	262.78	1/4		1/4		1/4		1/4	
1/2	1,798.37	1/2	1,488.28	1/2	1,178.19	1/2	868.26	1/2	558.25	1/2	256.88	1/2		1/2		1/2		1/2	
3/4	1,791.91	3/4	1,481.82	3/4	1,171.72	3/4	861.80	3/4	551.79	3/4	250.97	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2008 CB  
RECALCULATED: 09/04/2018  
VERIFIED: 09/21/2023 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2023

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



# BARGE "HFL 406"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0	5,293.86	0	4,980.48	0	4,621.62	0	4,262.77	0	3,903.93	0	3,545.08	0	3,186.22	0	2,827.39		
1/4	1/4	1/4	1/4	1/4	5,291.68	1/4	4,973.00	1/4	4,614.15	1/4	4,255.29	1/4	3,896.46	1/4	3,537.60	1/4	3,178.74	1/4	2,819.91		
1/2	1/2	1/2	1/2	1/2	5,289.50	1/2	4,965.53	1/2	4,606.67	1/2	4,247.81	1/2	3,888.98	1/2	3,530.12	1/2	3,171.27	1/2	2,812.43		
3/4	3/4	3/4	3/4	3/4	5,286.08	3/4	4,958.05	3/4	4,599.19	3/4	4,240.34	3/4	3,881.50	3/4	3,522.65	3/4	3,163.79	3/4	2,804.96		
1		1		1	5,282.65	1	4,950.58	1	4,591.72	1	4,232.86	1	3,874.03	1	3,515.17	1	3,156.31	1	2,797.48		
1/4	1/4	1/4	1/4	1/4	5,279.22	1/4	4,943.10	1/4	4,584.24	1/4	4,225.38	1/4	3,866.55	1/4	3,507.69	1/4	3,148.84	1/4	2,790.00		
1/2	1/2	1/2	1/2	1/2	5,275.79	1/2	4,935.62	1/2	4,576.77	1/2	4,217.91	1/2	3,859.08	1/2	3,500.22	1/2	3,141.36	1/2	2,782.53		
3/4	3/4	3/4	3/4	3/4	5,271.12	3/4	4,928.15	3/4	4,569.29	3/4	4,210.43	3/4	3,851.60	3/4	3,492.74	3/4	3,133.88	3/4	2,775.05		
2		2		2	5,266.44	2	4,920.67	2	4,561.81	2	4,202.96	2	3,844.12	2	3,485.27	2	3,126.41	2	2,767.58		
1/4	1/4	1/4	1/4	1/4	5,261.77	1/4	4,913.20	1/4	4,554.34	1/4	4,195.48	1/4	3,836.65	1/4	3,477.79	1/4	3,118.93	1/4	2,760.10		
1/2	1/2	1/2	1/2	1/2	5,257.10	1/2	4,905.72	1/2	4,546.86	1/2	4,188.00	1/2	3,829.17	1/2	3,470.31	1/2	3,111.46	1/2	2,752.62		
3/4	3/4	3/4	3/4	3/4	5,251.18	3/4	4,898.24	3/4	4,539.39	3/4	4,180.53	3/4	3,821.69	3/4	3,462.84	3/4	3,103.99	3/4	2,745.15		
3		3		3	5,245.25	3	4,890.77	3	4,531.91	3	4,173.05	3	3,814.22	3	3,455.36	3	3,096.52	3	2,737.67		
1/4	1/4	1/4	1/4	1/4	5,239.33	1/4	4,883.29	1/4	4,524.43	1/4	4,165.57	1/4	3,806.74	1/4	3,447.88	1/4	3,089.05	1/4	2,730.19		
1/2	1/2	1/2	1/2	1/2	5,233.41	1/2	4,875.81	1/2	4,516.96	1/2	4,158.10	1/2	3,799.27	1/2	3,440.41	1/2	3,081.58	1/2	2,722.72		
3/4	3/4	3/4	3/4	3/4	5,226.25	3/4	4,868.34	3/4	4,509.48	3/4	4,150.63	3/4	3,791.79	3/4	3,432.93	3/4	3,074.10	3/4	2,715.24		
4		4		4	5,219.09	4	4,860.86	4	4,502.00	4	4,143.16	4	3,784.31	4	3,425.46	4	3,066.62	4	2,707.77		
1/4	1/4	1/4	1/4	1/4	5,211.93	1/4	4,853.39	1/4	4,494.53	1/4	4,135.69	1/4	3,776.84	1/4	3,417.98	1/4	3,059.15	1/4	2,700.29		
1/2	1/2	1/2	1/2	1/2	5,204.77	1/2	4,845.91	1/2	4,487.05	1/2	4,128.22	1/2	3,769.36	1/2	3,410.50	1/2	3,051.67	1/2	2,692.81		
3/4	3/4	3/4	3/4	3/4	5,197.29	3/4	4,838.43	3/4	4,479.58	3/4	4,120.74	3/4	3,761.89	3/4	3,403.03	3/4	3,044.19	3/4	2,685.34		
5		5		5	5,189.81	5	4,830.96	5	4,472.10	5	4,113.27	5	3,754.41	5	3,395.55	5	3,036.72	5	2,677.86		
1/4	1/4	1/4	1/4	1/4	5,182.34	1/4	4,823.48	1/4	4,464.62	1/4	4,105.79	1/4	3,746.93	1/4	3,388.08	1/4	3,029.24	1/4	2,670.38		
1/2	1/2	1/2	1/2	1/2	5,174.86	1/2	4,816.00	1/2	4,457.15	1/2	4,098.31	1/2	3,739.46	1/2	3,380.60	1/2	3,021.77	1/2	2,662.91		
3/4	3/4	3/4	3/4	3/4	5,167.39	3/4	4,808.53	3/4	4,449.67	3/4	4,090.84	3/4	3,731.98	3/4	3,373.12	3/4	3,014.29	3/4	2,655.43		
6		6		6	5,159.91	6	4,801.05	6	4,442.19	6	4,083.36	6	3,724.50	6	3,365.65	6	3,006.81	6	2,647.96		
1/4	1/4	1/4	1/4	1/4	5,152.43	1/4	4,793.58	1/4	4,434.72	1/4	4,075.89	1/4	3,717.03	1/4	3,358.17	1/4	2,999.34	1/4	2,640.48		
1/2	1/2	1/2	1/2	1/2	5,144.96	1/2	4,786.10	1/2	4,427.24	1/2	4,068.41	1/2	3,709.55	1/2	3,350.69	1/2	2,991.86	1/2	2,633.00		
3/4	3/4	3/4	3/4	3/4	5,137.48	3/4	4,778.62	3/4	4,419.77	3/4	4,060.93	3/4	3,702.08	3/4	3,343.22	3/4	2,984.39	3/4	2,625.53		
7		7		7	5,130.00	7	4,771.15	7	4,412.29	7	4,053.46	7	3,694.60	7	3,335.74	7	2,976.91	7	2,618.05		
1/4	1/4	1/4	1/4	1/4	5,122.53	1/4	4,763.67	1/4	4,404.81	1/4	4,045.98	1/4	3,687.12	1/4	3,328.27	1/4	2,969.43	1/4	2,610.58		
1/2	1/2	1/2	1/2	1/2	5,115.05	1/2	4,756.19	1/2	4,397.34	1/2	4,038.50	1/2	3,679.65	1/2	3,320.79	1/2	2,961.96	1/2	2,603.10		
3/4	3/4	3/4	3/4	3/4	5,107.58	3/4	4,748.72	3/4	4,389.86	3/4	4,031.03	3/4	3,672.17	3/4	3,313.31	3/4	2,954.48	3/4	2,595.62		
8		8		8	5,100.10	8	4,741.24	8	4,382.38	8	4,023.55	8	3,664.69	8	3,305.84	8	2,947.00	8	2,588.15		
1/4	1/4	1/4	1/4	1/4	5,092.62	1/4	4,733.77	1/4	4,374.91	1/4	4,016.08	1/4	3,657.22	1/4	3,298.36	1/4	2,939.53	1/4	2,580.67		
1/2	1/2	1/2	1/2	1/2	5,085.15	1/2	4,726.29	1/2	4,367.43	1/2	4,008.60	1/2	3,649.74	1/2	3,290.88	1/2	2,932.05	1/2	2,573.19		
3/4	3/4	3/4	3/4	3/4	5,077.67	3/4	4,718.81	3/4	4,359.96	3/4	4,001.12	3/4	3,642.27	3/4	3,283.41	3/4	2,924.58	3/4	2,565.72		
9		9		9	5,070.20	9	4,711.34	9	4,352.48	9	3,993.65	9	3,634.79	9	3,275.93	9	2,917.10	9	2,558.24		
1/4	1/4	1/4	1/4	1/4	5,062.72	1/4	4,703.86	1/4	4,345.00	1/4	3,986.17	1/4	3,627.31	1/4	3,268.46	1/4	2,909.62	1/4	2,550.77		
1/2	1/2	1/2	1/2	1/2	5,055.24	1/2	4,696.39	1/2	4,337.53	1/2	3,978.70	1/2	3,619.84	1/2	3,260.98	1/2	2,902.15	1/2	2,543.29		
3/4	3/4	3/4	3/4	3/4	5,047.77	3/4	4,688.91	3/4	4,330.05	3/4	3,971.22	3/4	3,612.36	3/4	3,253.50	3/4	2,894.67	3/4	2,535.81		
10		10		10	5,040.29	10	4,681.43	10	4,322.58	10	3,963.74	10	3,604.89	10	3,246.03	10	2,887.19	10	2,528.34		
1/4	1/4	1/4	1/4	1/4	5,032.81	1/4	4,673.96	1/4	4,315.10	1/4	3,956.27	1/4	3,597.41	1/4	3,238.55	1/4	2,879.72	1/4	2,520.86		
1/2	1/2	1/2	1/2	1/2	5,301.98	1/2	5,025.34	1/2	4,666.48	1/2	4,307.62	1/2	3,948.79	1/2	3,589.93	1/2	3,231.08	1/2	2,872.24	1/2	2,513.38
3/4	3/4	3/4	3/4	3/4	5,301.04	3/4	5,017.86	3/4	4,659.00	3/4	4,300.15	3/4	3,941.31	3/4	3,582.46	3/4	3,223.60	3/4	2,864.77	3/4	2,505.91
11		11		11	5,300.10	11	5,010.39	11	4,651.53	11	4,292.67	11	3,933.84	11	3,574.98	11	3,216.12	11	2,857.29	11	2,498.43
1/4	1/4	1/4	1/4	1/4	5,299.16	1/4	5,002.91	1/4	4,644.05	1/4	4,285.19	1/4	3,926.36	1/4	3,567.50	1/4	3,208.65	1/4	2,849.81	1/4	2,490.96
1/2	1/2	1/2	1/2	1/2	5,298.22	1/2	4,995.43	1/2	4,636.58	1/2	4,277.72	1/2	3,918.89	1/2	3,560.03	1/2	3,201.17	1/2	2,842.34	1/2	2,483.48
3/4	3/4	3/4	3/4	3/4	5,296.04	3/4	4,987.96	3/4	4,629.10	3/4	4,270.24	3/4	3,911.41	3/4	3,552.55	3/4	3,193.69	3/4	2,834.86	3/4	2,476.00

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.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON MMC VALVE.  
 GAUGE POINT: (MMC) LOCATED 11'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "HFL 406"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	2,468.53	0	2,109.67	0	1,750.84	0	1,391.98	0	1,035.41	0	676.74	0	317.91	0		0		0	
1/4	2,461.05	1/4	2,102.19	1/4	1,743.36	1/4	1,384.50	1/4	1,028.00	1/4	669.27	1/4	310.43	1/4	1/4	1/4		1/4	1/4
1/2	2,453.58	1/2	2,094.72	1/2	1,735.89	1/2	1,377.03	1/2	1,020.60	1/2	661.79	1/2	302.96	1/2	1/2	1/2		1/2	1/2
3/4	2,446.10	3/4	2,087.24	3/4	1,728.41	3/4	1,369.55	3/4	1,013.12	3/4	654.31	3/4	295.49	3/4	3/4	3/4		3/4	3/4
1	2,438.62	1	2,079.77	1	1,720.93	1	1,362.08	1	1,005.65	1	646.84	1	288.02	1	1	1		1	1
1/4	2,431.15	1/4	2,072.29	1/4	1,713.46	1/4	1,354.60	1/4	998.17	1/4	639.36	1/4	280.54	1/4	1/4	1/4		1/4	1/4
1/2	2,423.67	1/2	2,064.81	1/2	1,705.98	1/2	1,347.12	1/2	990.69	1/2	631.88	1/2	273.07	1/2	1/2	1/2		1/2	1/2
3/4	2,416.19	3/4	2,057.34	3/4	1,698.50	3/4	1,339.65	3/4	983.22	3/4	624.41	3/4	265.60	3/4	3/4	3/4		3/4	3/4
2	2,408.72	2	2,049.86	2	1,691.03	2	1,332.17	2	975.74	2	616.93	2	258.13	2	2	2		2	2
1/4	2,401.24	1/4	2,042.38	1/4	1,683.55	1/4	1,324.69	1/4	968.27	1/4	609.46	1/4	250.66	1/4	1/4	1/4		1/4	1/4
1/2	2,393.77	1/2	2,034.91	1/2	1,676.08	1/2	1,317.22	1/2	960.79	1/2	601.98	1/2	243.19	1/2	1/2	1/2		1/2	1/2
3/4	2,386.29	3/4	2,027.44	3/4	1,668.60	3/4	1,309.78	3/4	953.32	3/4	594.50	3/4	235.72	3/4	3/4	3/4		3/4	3/4
3	2,378.81	3	2,019.97	3	1,661.12	3	1,302.34	3	945.85	3	587.03	3	228.24	3	3	3		3	3
1/4	2,371.34	1/4	2,012.50	1/4	1,653.65	1/4	1,294.90	1/4	938.38	1/4	579.55	1/4	220.77	1/4	1/4	1/4		1/4	1/4
1/2	2,363.86	1/2	2,005.03	1/2	1,646.17	1/2	1,287.46	1/2	930.91	1/2	572.08	1/2	213.29	1/2	1/2	1/2		1/2	1/2
3/4	2,356.40	3/4	1,997.55	3/4	1,638.69	3/4	1,280.01	3/4	923.43	3/4	564.60	3/4	205.82	3/4	3/4	3/4		3/4	3/4
4	2,348.93	4	1,990.08	4	1,631.22	4	1,272.56	4	915.96	4	557.12	4	198.35	4	4	4		4	4
1/4	2,341.47	1/4	1,982.60	1/4	1,623.74	1/4	1,265.12	1/4	908.48	1/4	549.65	1/4	190.88	1/4	1/4	1/4		1/4	1/4
1/2	2,334.00	1/2	1,975.12	1/2	1,616.27	1/2	1,257.67	1/2	901.00	1/2	542.17	1/2	183.41	1/2	1/2	1/2		1/2	1/2
3/4	2,326.52	3/4	1,967.65	3/4	1,608.79	3/4	1,250.27	3/4	893.53	3/4	534.69	3/4	175.94	3/4	3/4	3/4		3/4	3/4
5	2,319.03	5	1,960.17	5	1,601.31	5	1,242.86	5	886.05	5	527.22	5	168.47	5	5	5		5	5
1/4	2,311.54	1/4	1,952.69	1/4	1,593.84	1/4	1,235.46	1/4	878.57	1/4	519.74	1/4	161.00	1/4	1/4	1/4		1/4	1/4
1/2	2,304.05	1/2	1,945.22	1/2	1,586.36	1/2	1,228.05	1/2	871.10	1/2	512.27	1/2	153.53	1/2	1/2	1/2		1/2	1/2
3/4	2,296.58	3/4	1,937.74	3/4	1,578.88	3/4	1,220.64	3/4	863.62	3/4	504.79	3/4	146.05	3/4	3/4	3/4		3/4	3/4
6	2,289.10	6	1,930.27	6	1,571.41	6	1,213.23	6	856.15	6	497.31	6	138.57	6	6	6		6	6
1/4	2,281.62	1/4	1,922.79	1/4	1,563.93	1/4	1,205.82	1/4	848.67	1/4	489.84	1/4	131.10	1/4	1/4	1/4		1/4	1/4
1/2	2,274.15	1/2	1,915.31	1/2	1,556.46	1/2	1,198.41	1/2	841.19	1/2	482.36	1/2	123.62	1/2	1/2	1/2		1/2	1/2
3/4	2,266.67	3/4	1,907.84	3/4	1,548.98	3/4	1,191.00	3/4	833.72	3/4	474.88	3/4	116.15	3/4	3/4	3/4		3/4	3/4
7	2,259.19	7	1,900.36	7	1,541.50	7	1,183.59	7	826.24	7	467.41	7	108.68	7	7	7		7	7
1/4	2,251.72	1/4	1,892.89	1/4	1,534.03	1/4	1,176.18	1/4	818.77	1/4	459.93	1/4	101.21	1/4	1/4	1/4		1/4	1/4
1/2	2,244.24	1/2	1,885.41	1/2	1,526.55	1/2	1,168.77	1/2	811.29	1/2	452.46	1/2	93.74	1/2	1/2	1/2		1/2	1/2
3/4	2,236.77	3/4	1,877.93	3/4	1,519.08	3/4	1,161.36	3/4	803.81	3/4	444.98	3/4	86.27	3/4	3/4	3/4		3/4	3/4
8	2,229.29	8	1,870.46	8	1,511.60	8	1,153.96	8	796.34	8	437.50	8	78.80	8	8	8		8	8
1/4	2,221.81	1/4	1,862.98	1/4	1,504.12	1/4	1,146.55	1/4	788.86	1/4	430.03	1/4	71.33	1/4	1/4	1/4		1/4	1/4
1/2	2,214.34	1/2	1,855.50	1/2	1,496.65	1/2	1,139.15	1/2	781.38	1/2	422.55	1/2	63.86	1/2	1/2	1/2		1/2	1/2
3/4	2,206.86	3/4	1,848.03	3/4	1,489.17	3/4	1,131.74	3/4	773.91	3/4	415.07	3/4	57.32	3/4	3/4	3/4		3/4	3/4
9	2,199.38	9	1,840.55	9	1,481.69	9	1,124.32	9	766.43	9	407.60	9	50.78	9	9	9		9	9
1/4	2,191.91	1/4	1,833.08	1/4	1,474.22	1/4	1,116.91	1/4	758.96	1/4	400.12	1/4	44.24	1/4	1/4	1/4		1/4	1/4
1/2	2,184.43	1/2	1,825.60	1/2	1,466.74	1/2	1,109.50	1/2	751.48	1/2	392.65	1/2	37.69	1/2	1/2	1/2		1/2	1/2
3/4	2,176.96	3/4	1,818.12	3/4	1,459.27	3/4	1,102.09	3/4	744.01	3/4	385.17	3/4	33.02	3/4	3/4	3/4		3/4	3/4
10	2,169.48	10	1,810.65	10	1,451.79	10	1,094.68	10	736.54	10	377.69	10	28.35	10	10	10		10	10
1/4	2,162.00	1/4	1,803.17	1/4	1,444.31	1/4	1,087.27	1/4	729.07	1/4	370.22	1/4	23.68	1/4	1/4	1/4		1/4	1/4
1/2	2,154.53	1/2	1,795.69	1/2	1,436.84	1/2	1,079.86	1/2	721.60	1/2	362.74	1/2	19.00	1/2	1/2	1/2		1/2	1/2
3/4	2,147.05	3/4	1,788.22	3/4	1,429.36	3/4	1,072.45	3/4	714.12	3/4	355.27	3/4		3/4	3/4	3/4		3/4	3/4
11	2,139.58	11	1,780.74	11	1,421.88	11	1,065.04	11	706.65	11	347.80	11		11	11	11		11	11
1/4	2,132.10	1/4	1,773.27	1/4	1,414.41	1/4	1,057.63	1/4	699.17	1/4	340.33	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,124.62	1/2	1,765.79	1/2	1,406.93	1/2	1,050.22	1/2	691.69	1/2	332.86	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,117.15	3/4	1,758.31	3/4	1,399.46	3/4	1,042.81	3/4	684.22	3/4	325.38	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2008 CB  
RECALCULATED: 09/04/2018  
VERIFIED: 09/21/2023 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2023

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



# BARGE "HFL 406"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0	5,294.67	0	4,992.07	0	4,633.48	0	4,274.86	0	3,916.26	0	3,557.64	0	3,199.02	0	2,840.43		
1/4		1/4		1/4	5,292.49	1/4	4,984.60	1/4	4,626.01	1/4	4,267.39	1/4	3,908.79	1/4	3,550.17	1/4	3,191.55	1/4	2,832.96		
1/2		1/2		1/2	5,290.31	1/2	4,977.13	1/2	4,618.54	1/2	4,259.92	1/2	3,901.31	1/2	3,542.70	1/2	3,184.08	1/2	2,825.49		
3/4		3/4		3/4	5,288.13	3/4	4,969.66	3/4	4,611.07	3/4	4,252.45	3/4	3,893.83	3/4	3,535.23	3/4	3,176.61	3/4	2,818.02		
1		1		1	5,285.95	1	4,962.19	1	4,603.60	1	4,244.98	1	3,886.36	1	3,527.76	1	3,169.14	1	2,810.55		
1/4		1/4		1/4	5,282.53	1/4	4,954.72	1/4	4,596.12	1/4	4,237.51	1/4	3,878.89	1/4	3,520.29	1/4	3,161.67	1/4	2,803.08		
1/2		1/2		1/2	5,279.10	1/2	4,947.25	1/2	4,588.64	1/2	4,230.04	1/2	3,871.42	1/2	3,512.82	1/2	3,154.20	1/2	2,795.61		
3/4		3/4		3/4	5,275.67	3/4	4,939.78	3/4	4,581.17	3/4	4,222.57	3/4	3,863.95	3/4	3,505.35	3/4	3,146.73	3/4	2,788.14		
2		2		2	5,272.24	2	4,932.31	2	4,573.69	2	4,215.10	2	3,856.48	2	3,497.88	2	3,139.26	2	2,780.67		
1/4		1/4		1/4	5,267.57	1/4	4,924.84	1/4	4,566.22	1/4	4,207.63	1/4	3,849.01	1/4	3,490.41	1/4	3,131.79	1/4	2,773.19		
1/2		1/2		1/2	5,262.91	1/2	4,917.37	1/2	4,558.75	1/2	4,200.16	1/2	3,841.54	1/2	3,482.94	1/2	3,124.32	1/2	2,765.72		
3/4		3/4		3/4	5,258.24	3/4	4,909.90	3/4	4,551.28	3/4	4,192.69	3/4	3,834.07	3/4	3,475.47	3/4	3,116.85	3/4	2,758.24		
3		3		3	5,253.57	3	4,902.43	3	4,543.81	3	4,185.22	3	3,826.60	3	3,468.00	3	3,109.38	3	2,750.76		
1/4		1/4		1/4	5,247.66	1/4	4,894.96	1/4	4,536.34	1/4	4,177.75	1/4	3,819.13	1/4	3,460.53	1/4	3,101.91	1/4	2,743.29		
1/2		1/2		1/2	5,241.74	1/2	4,887.49	1/2	4,528.87	1/2	4,170.28	1/2	3,811.66	1/2	3,453.05	1/2	3,094.44	1/2	2,735.82		
3/4		3/4		3/4	5,235.82	3/4	4,880.02	3/4	4,521.40	3/4	4,162.81	3/4	3,804.19	3/4	3,445.57	3/4	3,086.97	3/4	2,728.35		
4		4		4	5,229.91	4	4,872.55	4	4,513.93	4	4,155.33	4	3,796.72	4	3,438.10	4	3,079.50	4	2,720.88		
1/4		1/4		1/4	5,222.75	1/4	4,865.08	1/4	4,506.46	1/4	4,147.86	1/4	3,789.25	1/4	3,430.63	1/4	3,072.03	1/4	2,713.41		
1/2		1/2		1/2	5,215.58	1/2	4,857.61	1/2	4,498.99	1/2	4,140.38	1/2	3,781.77	1/2	3,423.16	1/2	3,064.56	1/2	2,705.94		
3/4		3/4		3/4	5,208.42	3/4	4,850.14	3/4	4,491.52	3/4	4,132.91	3/4	3,774.30	3/4	3,415.69	3/4	3,057.09	3/4	2,698.47		
5		5		5	5,201.26	5	4,842.67	5	4,484.05	5	4,125.43	5	3,766.83	5	3,408.21	5	3,049.62	5	2,691.00		
1/4		1/4		1/4	5,193.79	1/4	4,835.19	1/4	4,476.58	1/4	4,117.96	1/4	3,759.36	1/4	3,400.74	1/4	3,042.15	1/4	2,683.53		
1/2		1/2		1/2	5,186.32	1/2	4,827.72	1/2	4,469.11	1/2	4,110.49	1/2	3,751.89	1/2	3,393.27	1/2	3,034.68	1/2	2,676.06		
3/4		3/4		3/4	5,178.85	3/4	4,820.24	3/4	4,461.64	3/4	4,103.02	3/4	3,744.42	3/4	3,385.80	3/4	3,027.21	3/4	2,668.59		
6		6		6	5,171.38	6	4,812.76	6	4,454.17	6	4,095.55	6	3,736.95	6	3,378.33	6	3,019.74	6	2,661.12		
1/4		1/4		1/4	5,163.91	1/4	4,805.29	1/4	4,446.70	1/4	4,088.08	1/4	3,729.48	1/4	3,370.86	1/4	3,012.26	1/4	2,653.65		
1/2		1/2		1/2	5,156.44	1/2	4,797.82	1/2	4,439.23	1/2	4,080.61	1/2	3,722.01	1/2	3,363.39	1/2	3,004.79	1/2	2,646.18		
3/4		3/4		3/4	5,148.97	3/4	4,790.35	3/4	4,431.76	3/4	4,073.14	3/4	3,714.54	3/4	3,355.92	3/4	2,997.31	3/4	2,638.71		
7		7		7	5,141.50	7	4,782.88	7	4,424.29	7	4,065.67	7	3,707.07	7	3,348.45	7	2,989.83	7	2,631.24		
1/4		1/4		1/4	5,134.03	1/4	4,775.41	1/4	4,416.82	1/4	4,058.20	1/4	3,699.60	1/4	3,340.98	1/4	2,982.36	1/4	2,623.77		
1/2		1/2		1/2	5,126.56	1/2	4,767.94	1/2	4,409.35	1/2	4,050.73	1/2	3,692.13	1/2	3,333.51	1/2	2,974.89	1/2	2,616.30		
3/4		3/4		3/4	5,119.09	3/4	4,760.47	3/4	4,401.88	3/4	4,043.26	3/4	3,684.66	3/4	3,326.04	3/4	2,967.42	3/4	2,608.83		
8		8		8	5,111.62	8	4,753.00	8	4,394.41	8	4,035.79	8	3,677.19	8	3,318.57	8	2,959.95	8	2,601.36		
1/4		1/4		1/4	5,104.15	1/4	4,745.53	1/4	4,386.94	1/4	4,028.32	1/4	3,669.72	1/4	3,311.10	1/4	2,952.48	1/4	2,593.89		
1/2		1/2		1/2	5,096.68	1/2	4,738.06	1/2	4,379.47	1/2	4,020.85	1/2	3,662.24	1/2	3,303.63	1/2	2,945.01	1/2	2,586.42		
3/4		3/4		3/4	5,089.21	3/4	4,730.59	3/4	4,372.00	3/4	4,013.38	3/4	3,654.76	3/4	3,296.16	3/4	2,937.54	3/4	2,578.95		
9		9		9	5,081.74	9	4,723.12	9	4,364.53	9	4,005.91	9	3,647.29	9	3,288.69	9	2,930.07	9	2,571.48		
1/4		1/4		1/4	5,074.27	1/4	4,715.65	1/4	4,357.05	1/4	3,998.44	1/4	3,639.82	1/4	3,281.22	1/4	2,922.60	1/4	2,564.01		
1/2		1/2		1/2	5,066.80	1/2	4,708.18	1/2	4,349.57	1/2	3,990.97	1/2	3,632.35	1/2	3,273.75	1/2	2,915.13	1/2	2,556.54		
3/4		3/4		3/4	5,059.33	3/4	4,700.71	3/4	4,342.10	3/4	3,983.50	3/4	3,624.88	3/4	3,266.28	3/4	2,907.66	3/4	2,549.07		
10		10		10	5,051.86	10	4,693.24	10	4,334.62	10	3,976.02	10	3,617.41	10	3,258.81	10	2,900.19	10	2,541.60		
1/4		1/4		1/4	5,044.38	1/4	4,685.77	1/4	4,327.15	1/4	3,968.55	1/4	3,609.94	1/4	3,251.34	1/4	2,892.72	1/4	2,534.12		
1/2		1/2		1/2	5,036.91	1/2	4,678.30	1/2	4,319.68	1/2	3,961.08	1/2	3,602.47	1/2	3,243.87	1/2	2,885.25	1/2	2,526.64		
3/4		3/4		3/4	5,029.43	3/4	4,670.83	3/4	4,312.21	3/4	3,953.61	3/4	3,595.00	3/4	3,236.40	3/4	2,877.78	3/4	2,519.17		
11		11		11	5,298.43	11	5,021.95	11	4,663.36	11	4,304.74	11	3,946.14	11	3,587.52	11	3,228.93	11	2,870.31	11	2,511.69
1/4		1/4		1/4	5,297.49	1/4	5,014.48	1/4	4,655.89	1/4	4,297.27	1/4	3,938.67	1/4	3,580.05	1/4	3,221.45	1/4	2,862.84	1/4	2,504.22
1/2		1/2		1/2	5,296.55	1/2	5,007.01	1/2	4,648.42	1/2	4,289.80	1/2	3,931.20	1/2	3,572.58	1/2	3,213.98	1/2	2,855.37	1/2	2,496.75
3/4		3/4		3/4	5,295.61	3/4	4,999.54	3/4	4,640.95	3/4	4,282.33	3/4	3,923.73	3/4	3,565.11	3/4	3,206.50	3/4	2,847.90	3/4	2,489.28

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.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON MMC VALVE.

GAUGE POINT: (MMC) LOCATED 11'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>





# BARGE "HFL 406"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11"

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	2,481.81	0	2,123.22	0	1,764.60	0	1,406.00	0	1,049.52	0	691.22	0	332.62	0		0		0	
1/4	2,474.34	1/4	2,115.75	1/4	1,757.13	1/4	1,398.53	1/4	1,042.12	1/4	683.74	1/4	325.16	1/4	1/4		1/4		1/4
1/2	2,466.87	1/2	2,108.28	1/2	1,749.66	1/2	1,391.05	1/2	1,034.72	1/2	676.27	1/2	317.69	1/2	1/2		1/2		1/2
3/4	2,459.40	3/4	2,100.80	3/4	1,742.19	3/4	1,383.57	3/4	1,027.31	3/4	668.80	3/4	310.23	3/4	3/4		3/4		3/4
1	2,451.93	1	2,093.33	1	1,734.72	1	1,376.10	1	1,019.91	1	661.33	1	302.76	1	1		1		1
1/4	2,444.46	1/4	2,085.86	1/4	1,727.24	1/4	1,368.63	1/4	1,012.44	1/4	653.86	1/4	295.29	1/4	1/4		1/4		1/4
1/2	2,436.99	1/2	2,078.38	1/2	1,719.77	1/2	1,361.16	1/2	1,004.97	1/2	646.39	1/2	287.82	1/2	1/2		1/2		1/2
3/4	2,429.52	3/4	2,070.91	3/4	1,712.30	3/4	1,353.69	3/4	997.49	3/4	638.92	3/4	280.35	3/4	3/4		3/4		3/4
2	2,422.05	2	2,063.43	2	1,704.83	2	1,346.22	2	990.02	2	631.45	2	272.88	2	2		2		2
1/4	2,414.58	1/4	2,055.96	1/4	1,697.36	1/4	1,338.75	1/4	982.55	1/4	623.98	1/4	265.42	1/4	1/4		1/4		1/4
1/2	2,407.11	1/2	2,048.49	1/2	1,689.89	1/2	1,331.28	1/2	975.08	1/2	616.51	1/2	257.95	1/2	1/2		1/2		1/2
3/4	2,399.64	3/4	2,041.02	3/4	1,682.42	3/4	1,323.80	3/4	967.61	3/4	609.04	3/4	250.49	3/4	3/4		3/4		3/4
3	2,392.17	3	2,033.55	3	1,674.95	3	1,316.33	3	960.14	3	601.57	3	243.03	3	3		3		3
1/4	2,384.70	1/4	2,026.08	1/4	1,667.48	1/4	1,308.90	1/4	952.67	1/4	594.10	1/4	235.55	1/4	1/4		1/4		1/4
1/2	2,377.23	1/2	2,018.61	1/2	1,660.01	1/2	1,301.47	1/2	945.20	1/2	586.63	1/2	228.08	1/2	1/2		1/2		1/2
3/4	2,369.76	3/4	2,011.14	3/4	1,652.54	3/4	1,294.03	3/4	937.73	3/4	579.16	3/4	220.61	3/4	3/4		3/4		3/4
4	2,362.29	4	2,003.67	4	1,645.07	4	1,286.60	4	930.26	4	571.69	4	213.14	4	4		4		4
1/4	2,354.82	1/4	1,996.20	1/4	1,637.60	1/4	1,279.16	1/4	922.80	1/4	564.22	1/4	205.68	1/4	1/4		1/4		1/4
1/2	2,347.35	1/2	1,988.73	1/2	1,630.12	1/2	1,271.72	1/2	915.33	1/2	556.74	1/2	198.22	1/2	1/2		1/2		1/2
3/4	2,339.88	3/4	1,981.26	3/4	1,622.64	3/4	1,264.28	3/4	907.87	3/4	549.26	3/4	190.75	3/4	3/4		3/4		3/4
5	2,332.41	5	1,973.79	5	1,615.17	5	1,256.84	5	900.41	5	541.79	5	183.29	5	5		5		5
1/4	2,324.93	1/4	1,966.32	1/4	1,607.70	1/4	1,249.43	1/4	892.94	1/4	534.32	1/4	175.82	1/4	1/4		1/4		1/4
1/2	2,317.45	1/2	1,958.85	1/2	1,600.23	1/2	1,242.03	1/2	885.47	1/2	526.85	1/2	168.35	1/2	1/2		1/2		1/2
3/4	2,309.98	3/4	1,951.38	3/4	1,592.76	3/4	1,234.62	3/4	877.99	3/4	519.38	3/4	160.88	3/4	3/4		3/4		3/4
6	2,302.50	6	1,943.91	6	1,585.29	6	1,227.22	6	870.52	6	511.91	6	153.41	6	6		6		6
1/4	2,295.03	1/4	1,936.44	1/4	1,577.82	1/4	1,219.81	1/4	863.05	1/4	504.43	1/4	145.94	1/4	1/4		1/4		1/4
1/2	2,287.56	1/2	1,928.97	1/2	1,570.35	1/2	1,212.41	1/2	855.58	1/2	496.96	1/2	138.48	1/2	1/2		1/2		1/2
3/4	2,280.09	3/4	1,921.49	3/4	1,562.88	3/4	1,205.00	3/4	848.11	3/4	489.49	3/4	131.01	3/4	3/4		3/4		3/4
7	2,272.62	7	1,914.02	7	1,555.41	7	1,197.60	7	840.64	7	482.02	7	123.55	7	7		7		7
1/4	2,265.15	1/4	1,906.55	1/4	1,547.94	1/4	1,190.19	1/4	833.17	1/4	474.55	1/4	116.08	1/4	1/4		1/4		1/4
1/2	2,257.68	1/2	1,899.08	1/2	1,540.47	1/2	1,182.79	1/2	825.70	1/2	467.08	1/2	108.61	1/2	1/2		1/2		1/2
3/4	2,250.21	3/4	1,891.61	3/4	1,532.99	3/4	1,175.38	3/4	818.23	3/4	459.61	3/4	101.14	3/4	3/4		3/4		3/4
8	2,242.74	8	1,884.14	8	1,525.52	8	1,167.98	8	810.76	8	452.14	8	93.67	8	8		8		8
1/4	2,235.27	1/4	1,876.67	1/4	1,518.05	1/4	1,160.58	1/4	803.29	1/4	444.67	1/4	86.20	1/4	1/4		1/4		1/4
1/2	2,227.80	1/2	1,869.20	1/2	1,510.58	1/2	1,153.18	1/2	795.81	1/2	437.20	1/2	78.74	1/2	1/2		1/2		1/2
3/4	2,220.33	3/4	1,861.73	3/4	1,503.11	3/4	1,145.78	3/4	788.33	3/4	429.73	3/4	71.28	3/4	3/4		3/4		3/4
9	2,212.86	9	1,854.26	9	1,495.64	9	1,138.38	9	780.86	9	422.26	9	63.81	9	9		9		9
1/4	2,205.39	1/4	1,846.79	1/4	1,488.17	1/4	1,130.98	1/4	773.39	1/4	414.79	1/4	57.28	1/4	1/4		1/4		1/4
1/2	2,197.92	1/2	1,839.31	1/2	1,480.70	1/2	1,123.57	1/2	765.92	1/2	407.32	1/2	50.74	1/2	1/2		1/2		1/2
3/4	2,190.45	3/4	1,831.83	3/4	1,473.23	3/4	1,116.17	3/4	758.45	3/4	399.85	3/4	44.20	3/4	3/4		3/4		3/4
10	2,182.98	10	1,824.36	10	1,465.76	10	1,108.76	10	750.98	10	392.38	10	37.67	10	10		10		10
1/4	2,175.51	1/4	1,816.89	1/4	1,458.29	1/4	1,101.36	1/4	743.51	1/4	384.91	1/4	33.00	1/4	1/4		1/4		1/4
1/2	2,168.04	1/2	1,809.42	1/2	1,450.82	1/2	1,093.95	1/2	736.04	1/2	377.44	1/2	28.32	1/2	1/2		1/2		1/2
3/4	2,160.57	3/4	1,801.95	3/4	1,443.35	3/4	1,086.55	3/4	728.57	3/4	369.97	3/4	23.65	3/4	3/4		3/4		3/4
11	2,153.10	11	1,794.48	11	1,435.88	11	1,079.14	11	721.10	11	362.50	11	18.98	11	11		11		11
1/4	2,145.63	1/4	1,787.01	1/4	1,428.41	1/4	1,071.74	1/4	713.63	1/4	355.03	1/4		1/4	1/4		1/4		1/4
1/2	2,138.16	1/2	1,779.54	1/2	1,420.94	1/2	1,064.33	1/2	706.16	1/2	347.56	1/2		1/2	1/2		1/2		1/2
3/4	2,130.69	3/4	1,772.07	3/4	1,413.47	3/4	1,056.93	3/4	698.69	3/4	340.09	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2008 CB  
RECALCULATED: 09/04/2018  
VERIFIED: 09/21/2023 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2023

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



# BARGE "HFL 406"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0	4,845.38	0	4,635.44	0	4,372.27	0	4,109.10	0	3,845.93	0	3,578.79	0	3,219.78	0	2,860.77		
1/4	1/4	1/4	1/4	1/4	4,844.81	1/4	4,629.95	1/4	4,366.79	1/4	4,103.62	1/4	3,840.45	1/4	3,571.31	1/4	3,212.31	1/4	2,853.29		
1/2	1/2	1/2	1/2	1/2	4,844.23	1/2	4,624.47	1/2	4,361.30	1/2	4,098.14	1/2	3,834.97	1/2	3,563.83	1/2	3,204.83	1/2	2,845.81		
3/4	3/4	3/4	3/4	3/4	4,842.75	3/4	4,618.99	3/4	4,355.82	3/4	4,092.66	3/4	3,829.49	3/4	3,556.35	3/4	3,197.35	3/4	2,838.33		
1		1		1	4,841.26	1	4,613.51	1	4,350.34	1	4,087.17	1	3,824.01	1	3,548.88	1	3,189.86	1	2,830.85		
1/4	1/4	1/4	1/4	1/4	4,839.77	1/4	4,608.03	1/4	4,344.86	1/4	4,081.69	1/4	3,818.52	1/4	3,541.40	1/4	3,182.38	1/4	2,823.38		
1/2	1/2	1/2	1/2	1/2	4,838.28	1/2	4,602.54	1/2	4,339.38	1/2	4,076.21	1/2	3,813.04	1/2	3,533.92	1/2	3,174.90	1/2	2,815.90		
3/4	3/4	3/4	3/4	3/4	4,835.88	3/4	4,597.05	3/4	4,333.89	3/4	4,070.73	3/4	3,807.56	3/4	3,526.44	3/4	3,167.42	3/4	2,808.42		
2		2		2	4,833.48	2	4,591.57	2	4,328.41	2	4,065.24	2	3,802.08	2	3,518.96	2	3,159.95	2	2,800.94		
1/4	1/4	1/4	1/4	1/4	4,831.09	1/4	4,586.08	1/4	4,322.93	1/4	4,059.76	1/4	3,796.60	1/4	3,511.48	1/4	3,152.47	1/4	2,793.45		
1/2	1/2	1/2	1/2	1/2	4,828.69	1/2	4,580.59	1/2	4,317.45	1/2	4,054.28	1/2	3,791.11	1/2	3,504.00	1/2	3,145.00	1/2	2,785.97		
3/4	3/4	3/4	3/4	3/4	4,825.38	3/4	4,575.11	3/4	4,311.97	3/4	4,048.80	3/4	3,785.63	3/4	3,496.52	3/4	3,137.51	3/4	2,778.50		
3		3		3	4,822.07	3	4,569.62	3	4,306.48	3	4,043.32	3	3,780.15	3	3,489.04	3	3,130.03	3	2,771.02		
1/4	1/4	1/4	1/4	1/4	4,818.76	1/4	4,564.14	1/4	4,301.00	1/4	4,037.83	1/4	3,774.67	1/4	3,481.57	1/4	3,122.55	1/4	2,763.54		
1/2	1/2	1/2	1/2	1/2	4,815.45	1/2	4,558.66	1/2	4,295.52	1/2	4,032.35	1/2	3,769.19	1/2	3,474.09	1/2	3,115.07	1/2	2,756.07		
3/4	3/4	3/4	3/4	3/4	4,811.22	3/4	4,553.18	3/4	4,290.04	3/4	4,026.87	3/4	3,763.70	3/4	3,466.61	3/4	3,107.59	3/4	2,748.59		
4		4		4	4,807.00	4	4,547.70	4	4,284.56	4	4,021.39	4	3,758.22	4	3,459.13	4	3,100.12	4	2,741.10		
1/4	1/4	1/4	1/4	1/4	4,802.77	1/4	4,542.21	1/4	4,279.07	1/4	4,015.91	1/4	3,752.74	1/4	3,451.64	1/4	3,092.64	1/4	2,733.62		
1/2	1/2	1/2	1/2	1/2	4,798.54	1/2	4,536.73	1/2	4,273.59	1/2	4,010.42	1/2	3,747.26	1/2	3,444.16	1/2	3,085.16	1/2	2,726.14		
3/4	3/4	3/4	3/4	3/4	4,793.40	3/4	4,531.25	3/4	4,268.11	3/4	4,004.94	3/4	3,741.77	3/4	3,436.68	3/4	3,077.68	3/4	2,718.66		
5		5		5	4,788.26	5	4,526.77	5	4,262.63	5	3,999.46	5	3,736.29	5	3,429.20	5	3,070.20	5	2,711.19		
1/4	1/4	1/4	1/4	1/4	4,783.11	1/4	4,520.29	1/4	4,257.14	1/4	3,993.98	1/4	3,730.81	1/4	3,421.72	1/4	3,062.72	1/4	2,703.71		
1/2	1/2	1/2	1/2	1/2	4,777.97	1/2	4,514.80	1/2	4,251.66	1/2	3,988.50	1/2	3,725.33	1/2	3,414.23	1/2	3,055.23	1/2	2,696.23		
3/4	3/4	3/4	3/4	3/4	4,772.49	3/4	4,509.32	3/4	4,246.17	3/4	3,983.01	3/4	3,719.85	3/4	3,406.76	3/4	3,047.76	3/4	2,688.75		
6		6		6	4,767.01	6	4,503.84	6	4,240.69	6	3,977.53	6	3,714.36	6	3,399.28	6	3,040.28	6	2,681.27		
1/4	1/4	1/4	1/4	1/4	4,761.52	1/4	4,498.36	1/4	4,235.20	1/4	3,972.05	1/4	3,708.88	1/4	3,391.81	1/4	3,032.81	1/4	2,673.79		
1/2	1/2	1/2	1/2	1/2	4,756.04	1/2	4,492.88	1/2	4,229.71	1/2	3,966.57	1/2	3,703.40	1/2	3,384.33	1/2	3,025.33	1/2	2,666.31		
3/4	3/4	3/4	3/4	3/4	4,750.56	3/4	4,487.39	3/4	4,224.23	3/4	3,961.08	3/4	3,697.92	3/4	3,376.85	3/4	3,017.85	3/4	2,658.83		
7		7		7	4,745.08	7	4,481.91	7	4,218.74	7	3,955.60	7	3,692.44	7	3,369.36	7	3,010.36	7	2,651.35		
1/4	1/4	1/4	1/4	1/4	4,739.60	1/4	4,476.43	1/4	4,213.26	1/4	3,950.12	1/4	3,686.95	1/4	3,361.88	1/4	3,002.88	1/4	2,643.88		
1/2	1/2	1/2	1/2	1/2	4,734.11	1/2	4,470.95	1/2	4,207.78	1/2	3,944.64	1/2	3,681.47	1/2	3,354.40	1/2	2,995.40	1/2	2,636.40		
3/4	3/4	3/4	3/4	3/4	4,728.63	3/4	4,465.46	3/4	4,202.30	3/4	3,939.16	3/4	3,675.99	3/4	3,346.92	3/4	2,987.92	3/4	2,628.92		
8		8		8	4,723.15	8	4,459.98	8	4,196.81	8	3,933.67	8	3,670.51	8	3,339.45	8	2,980.45	8	2,621.44		
1/4	1/4	1/4	1/4	1/4	4,717.67	1/4	4,454.50	1/4	4,191.33	1/4	3,928.19	1/4	3,665.03	1/4	3,331.97	1/4	2,972.97	1/4	2,613.95		
1/2	1/2	1/2	1/2	1/2	4,712.19	1/2	4,449.02	1/2	4,185.85	1/2	3,922.71	1/2	3,659.54	1/2	3,324.50	1/2	2,965.50	1/2	2,606.47		
3/4	3/4	3/4	3/4	3/4	4,706.70	3/4	4,443.54	3/4	4,180.37	3/4	3,917.23	3/4	3,654.06	3/4	3,317.01	3/4	2,958.01	3/4	2,599.00		
9		9		9	4,701.22	9	4,438.05	9	4,174.89	9	3,911.75	9	3,648.58	9	3,309.53	9	2,950.53	9	2,591.52		
1/4	1/4	1/4	1/4	1/4	4,695.74	1/4	4,432.57	1/4	4,169.40	1/4	3,906.26	1/4	3,643.10	1/4	3,302.05	1/4	2,943.05	1/4	2,584.04		
1/2	1/2	1/2	1/2	1/2	4,690.26	1/2	4,427.09	1/2	4,163.92	1/2	3,900.78	1/2	3,637.61	1/2	3,294.57	1/2	2,935.57	1/2	2,576.57		
3/4	3/4	3/4	3/4	3/4	4,684.78	3/4	4,421.61	3/4	4,158.44	3/4	3,895.29	3/4	3,632.13	3/4	3,287.09	3/4	2,928.09	3/4	2,569.09		
10		10		10	4,679.29	10	4,416.13	10	4,152.96	10	3,889.80	10	3,626.65	10	3,279.62	10	2,920.60	10	2,561.60		
1/4	1/4	1/4	1/4	1/4	4,673.81	1/4	4,410.64	1/4	4,147.48	1/4	3,884.32	1/4	3,621.17	1/4	3,272.14	1/4	2,913.12	1/4	2,554.12		
1/2	1/2	1/2	1/2	1/2	4,668.33	1/2	4,405.16	1/2	4,141.99	1/2	3,878.83	1/2	3,615.69	1/2	3,264.66	1/2	2,905.64	1/2	2,546.64		
3/4	3/4	3/4	3/4	3/4	4,662.85	3/4	4,399.68	3/4	4,136.51	3/4	3,873.35	3/4	3,610.20	3/4	3,257.18	3/4	2,898.16	3/4	2,539.16		
11		11		11	4,657.36	11	4,394.20	11	4,131.03	11	3,867.86	11	3,604.72	11	3,249.70	11	2,890.69	11	2,531.69		
1/4	1/4	1/4	1/4	1/4	4,651.88	1/4	4,388.72	1/4	4,125.55	1/4	3,862.38	1/4	3,599.24	1/4	3,242.22	1/4	2,883.21	1/4	2,524.21		
1/2	1/2	1/2	1/2	1/2	4,846.52	1/2	4,646.40	1/2	4,383.23	1/2	4,120.07	1/2	3,856.90	1/2	3,593.76	1/2	3,234.73	1/2	2,875.73	1/2	2,516.73
3/4	3/4	3/4	3/4	3/4	4,845.95	3/4	4,640.92	3/4	4,377.75	3/4	4,114.58	3/4	3,851.42	3/4	3,586.28	3/4	3,227.26	3/4	2,868.25	3/4	2,509.25

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.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON MMC VALVE.  
 GAUGE POINT: (MMC) LOCATED 11'-06" OFF CENTERLINE AND 45'-00" FORWARD OF AFT BULKHEAD.

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



# BARGE "HFL 406"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11 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	2,501.77	0	2,142.76	0	1,783.75	0	1,424.73	0	1,065.85	0	706.91	0	347.92	0		0		0	
1/4	2,494.29	1/4	2,135.28	1/4	1,776.26	1/4	1,417.26	1/4	1,058.38	1/4	699.43	1/4	340.45	1/4	1/4	1/4		1/4	1/4
1/2	2,486.81	1/2	2,127.81	1/2	1,768.78	1/2	1,409.78	1/2	1,050.90	1/2	691.95	1/2	332.97	1/2	1/2	1/2		1/2	1/2
3/4	2,479.32	3/4	2,120.32	3/4	1,761.31	3/4	1,402.30	3/4	1,043.42	3/4	684.47	3/4	325.50	3/4	3/4	3/4		3/4	3/4
1	2,471.84	1	2,112.84	1	1,753.83	1	1,394.82	1	1,035.95	1	677.00	1	318.02	1	1	1		1	1
1/4	2,464.36	1/4	2,105.36	1/4	1,746.35	1/4	1,387.34	1/4	1,028.47	1/4	669.52	1/4	310.54	1/4	1/4	1/4		1/4	1/4
1/2	2,456.88	1/2	2,097.88	1/2	1,738.88	1/2	1,379.85	1/2	1,021.00	1/2	662.04	1/2	303.07	1/2	1/2	1/2		1/2	1/2
3/4	2,449.40	3/4	2,090.40	3/4	1,731.39	3/4	1,372.38	3/4	1,013.52	3/4	654.56	3/4	295.59	3/4	3/4	3/4		3/4	3/4
2	2,441.92	2	2,082.92	2	1,723.91	2	1,364.90	2	1,006.04	2	647.08	2	288.12	2	2	2		2	2
1/4	2,434.45	1/4	2,075.45	1/4	1,716.43	1/4	1,357.42	1/4	998.57	1/4	639.60	1/4	280.64	1/4	1/4	1/4		1/4	1/4
1/2	2,426.97	1/2	2,067.97	1/2	1,708.95	1/2	1,349.95	1/2	991.09	1/2	632.12	1/2	273.16	1/2	1/2	1/2		1/2	1/2
3/4	2,419.49	3/4	2,060.49	3/4	1,701.47	3/4	1,342.47	3/4	983.61	3/4	624.64	3/4	265.69	3/4	3/4	3/4		3/4	3/4
3	2,412.01	3	2,053.01	3	1,694.00	3	1,334.98	3	976.14	3	617.16	3	258.22	3	3	3		3	3
1/4	2,404.53	1/4	2,045.53	1/4	1,686.52	1/4	1,327.50	1/4	968.66	1/4	609.69	1/4	250.75	1/4	1/4	1/4		1/4	1/4
1/2	2,397.04	1/2	2,038.04	1/2	1,679.04	1/2	1,320.02	1/2	961.19	1/2	602.21	1/2	243.28	1/2	1/2	1/2		1/2	1/2
3/4	2,389.57	3/4	2,030.57	3/4	1,671.56	3/4	1,312.54	3/4	953.70	3/4	594.73	3/4	235.81	3/4	3/4	3/4		3/4	3/4
4	2,382.09	4	2,023.09	4	1,664.08	4	1,305.07	4	946.22	4	587.25	4	228.33	4	4	4		4	4
1/4	2,374.61	1/4	2,015.62	1/4	1,656.60	1/4	1,297.59	1/4	938.74	1/4	579.76	1/4	220.85	1/4	1/4	1/4		1/4	1/4
1/2	2,367.14	1/2	2,008.14	1/2	1,649.12	1/2	1,290.12	1/2	931.26	1/2	572.28	1/2	213.38	1/2	1/2	1/2		1/2	1/2
3/4	2,359.66	3/4	2,000.66	3/4	1,641.64	3/4	1,282.64	3/4	923.78	3/4	564.81	3/4	205.90	3/4	3/4	3/4		3/4	3/4
5	2,352.17	5	1,993.17	5	1,634.16	5	1,275.16	5	916.31	5	557.33	5	198.42	5	5	5		5	5
1/4	2,344.69	1/4	1,985.69	1/4	1,626.69	1/4	1,267.69	1/4	908.83	1/4	549.85	1/4	190.95	1/4	1/4	1/4		1/4	1/4
1/2	2,337.21	1/2	1,978.21	1/2	1,619.21	1/2	1,260.21	1/2	901.35	1/2	542.38	1/2	183.47	1/2	1/2	1/2		1/2	1/2
3/4	2,329.73	3/4	1,970.73	3/4	1,611.73	3/4	1,252.73	3/4	893.88	3/4	534.89	3/4	176.00	3/4	3/4	3/4		3/4	3/4
6	2,322.26	6	1,963.25	6	1,604.25	6	1,245.26	6	886.40	6	527.41	6	168.52	6	6	6		6	6
1/4	2,314.78	1/4	1,955.76	1/4	1,596.76	1/4	1,237.78	1/4	878.92	1/4	519.93	1/4	161.04	1/4	1/4	1/4		1/4	1/4
1/2	2,307.31	1/2	1,948.28	1/2	1,589.28	1/2	1,230.31	1/2	871.45	1/2	512.45	1/2	153.57	1/2	1/2	1/2		1/2	1/2
3/4	2,299.82	3/4	1,940.81	3/4	1,581.81	3/4	1,222.83	3/4	863.97	3/4	504.97	3/4	146.09	3/4	3/4	3/4		3/4	3/4
7	2,292.34	7	1,933.33	7	1,574.33	7	1,215.35	7	856.50	7	497.50	7	138.62	7	7	7		7	7
1/4	2,284.86	1/4	1,925.85	1/4	1,566.85	1/4	1,207.88	1/4	849.02	1/4	490.02	1/4	131.14	1/4	1/4	1/4		1/4	1/4
1/2	2,277.38	1/2	1,918.38	1/2	1,559.38	1/2	1,200.40	1/2	841.54	1/2	482.54	1/2	123.66	1/2	1/2	1/2		1/2	1/2
3/4	2,269.90	3/4	1,910.89	3/4	1,551.89	3/4	1,192.92	3/4	834.06	3/4	475.06	3/4	116.19	3/4	3/4	3/4		3/4	3/4
8	2,262.42	8	1,903.41	8	1,544.41	8	1,185.45	8	826.58	8	467.58	8	108.71	8	8	8		8	8
1/4	2,254.95	1/4	1,895.93	1/4	1,536.93	1/4	1,177.97	1/4	819.10	1/4	460.10	1/4	101.23	1/4	1/4	1/4		1/4	1/4
1/2	2,247.47	1/2	1,888.45	1/2	1,529.45	1/2	1,170.50	1/2	811.62	1/2	452.62	1/2	93.76	1/2	1/2	1/2		1/2	1/2
3/4	2,239.99	3/4	1,880.97	3/4	1,521.97	3/4	1,163.03	3/4	804.14	3/4	445.14	3/4	86.29	3/4	3/4	3/4		3/4	3/4
9	2,232.51	9	1,873.50	9	1,514.48	9	1,155.56	9	796.66	9	437.66	9	78.82	9	9	9		9	9
1/4	2,225.03	1/4	1,866.02	1/4	1,507.00	1/4	1,148.09	1/4	789.19	1/4	430.19	1/4	71.35	1/4	1/4	1/4		1/4	1/4
1/2	2,217.54	1/2	1,858.54	1/2	1,499.52	1/2	1,140.62	1/2	781.71	1/2	422.71	1/2	63.88	1/2	1/2	1/2		1/2	1/2
3/4	2,210.07	3/4	1,851.06	3/4	1,492.04	3/4	1,133.14	3/4	774.23	3/4	415.23	3/4	57.33	3/4	3/4	3/4		3/4	3/4
10	2,202.59	10	1,843.58	10	1,484.57	10	1,125.66	10	766.75	10	407.75	10	50.78	10	10	10		10	10
1/4	2,195.11	1/4	1,836.10	1/4	1,477.09	1/4	1,118.19	1/4	759.26	1/4	400.26	1/4	44.23	1/4	1/4	1/4		1/4	1/4
1/2	2,187.64	1/2	1,828.62	1/2	1,469.62	1/2	1,110.71	1/2	751.78	1/2	392.78	1/2	37.69	1/2	1/2	1/2		1/2	1/2
3/4	2,180.16	3/4	1,821.14	3/4	1,462.13	3/4	1,103.23	3/4	744.31	3/4	385.31	3/4	33.01	3/4	3/4	3/4		3/4	3/4
11	2,172.67	11	1,813.66	11	1,454.65	11	1,095.76	11	736.83	11	377.83	11	28.34	11	11	11		11	11
1/4	2,165.19	1/4	1,806.19	1/4	1,447.17	1/4	1,088.28	1/4	729.35	1/4	370.35	1/4	23.67	1/4	1/4	1/4		1/4	1/4
1/2	2,157.71	1/2	1,798.71	1/2	1,439.69	1/2	1,080.81	1/2	721.88	1/2	362.88	1/2	19.00	1/2	1/2	1/2		1/2	1/2
3/4	2,150.23	3/4	1,791.23	3/4	1,432.21	3/4	1,073.33	3/4	714.39	3/4	355.40	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2008 CB  
RECALCULATED: 09/04/2018  
VERIFIED: 09/21/2023 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2023

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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# BARGE "HFL 406"

# 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0		0	4,841.36	0	4,626.64	0	4,363.67	0	4,100.69	0	3,837.72	0	3,568.76	0	3,210.02	0	2,851.26		
1/4	1/4	1/4	1/4	1/4	4,840.78	1/4	4,621.17	1/4	4,358.19	1/4	4,095.21	1/4	3,832.24	1/4	3,561.28	1/4	3,202.55	1/4	2,843.78		
1/2	1/2	1/2	1/2	1/2	4,839.30	1/2	4,615.69	1/2	4,352.71	1/2	4,089.74	1/2	3,826.76	1/2	3,553.81	1/2	3,195.07	1/2	2,836.31		
3/4	3/4	3/4	3/4	3/4	4,837.81	3/4	4,610.21	3/4	4,347.24	3/4	4,084.26	3/4	3,821.28	3/4	3,546.34	3/4	3,187.59	3/4	2,828.83		
1		1		1	4,836.32	1	4,604.74	1	4,341.76	1	4,078.78	1	3,815.81	1	3,538.87	1	3,180.12	1	2,821.36		
1/4	1/4	1/4	1/4	1/4	4,834.83	1/4	4,599.26	1/4	4,336.28	1/4	4,073.31	1/4	3,810.33	1/4	3,531.40	1/4	3,172.64	1/4	2,813.88		
1/2	1/2	1/2	1/2	1/2	4,832.43	1/2	4,593.78	1/2	4,330.80	1/2	4,067.83	1/2	3,804.86	1/2	3,523.93	1/2	3,165.17	1/2	2,806.41		
3/4	3/4	3/4	3/4	3/4	4,830.03	3/4	4,588.30	3/4	4,325.32	3/4	4,062.36	3/4	3,799.38	3/4	3,516.45	3/4	3,157.69	3/4	2,798.94		
2		2		2	4,827.64	2	4,582.81	2	4,319.84	2	4,056.88	2	3,793.90	2	3,508.97	2	3,150.21	2	2,791.47		
1/4	1/4	1/4	1/4	1/4	4,825.24	1/4	4,577.33	1/4	4,314.36	1/4	4,051.40	1/4	3,788.43	1/4	3,501.50	1/4	3,142.74	1/4	2,784.00		
1/2	1/2	1/2	1/2	1/2	4,821.93	1/2	4,571.86	1/2	4,308.88	1/2	4,045.92	1/2	3,782.95	1/2	3,494.02	1/2	3,135.27	1/2	2,776.52		
3/4	3/4	3/4	3/4	3/4	4,818.62	3/4	4,566.38	3/4	4,303.40	3/4	4,040.44	3/4	3,777.46	3/4	3,486.55	3/4	3,127.80	3/4	2,769.05		
3		3		3	4,815.31	3	4,560.90	3	4,297.93	3	4,034.96	3	3,771.98	3	3,479.07	3	3,120.33	3	2,761.57		
1/4	1/4	1/4	1/4	1/4	4,812.00	1/4	4,555.43	1/4	4,292.45	1/4	4,029.47	1/4	3,766.50	1/4	3,471.59	1/4	3,112.86	1/4	2,754.09		
1/2	1/2	1/2	1/2	1/2	4,807.78	1/2	4,549.95	1/2	4,286.97	1/2	4,024.00	1/2	3,761.02	1/2	3,464.12	1/2	3,105.38	1/2	2,746.62		
3/4	3/4	3/4	3/4	3/4	4,803.56	3/4	4,544.46	3/4	4,281.50	3/4	4,018.52	3/4	3,755.55	3/4	3,456.65	3/4	3,097.90	3/4	2,739.15		
4		4		4	4,799.34	4	4,538.98	4	4,276.02	4	4,013.05	4	3,750.07	4	3,449.18	4	3,090.43	4	2,731.68		
1/4	1/4	1/4	1/4	1/4	4,795.12	1/4	4,533.50	1/4	4,270.55	1/4	4,007.57	1/4	3,744.59	1/4	3,441.71	1/4	3,082.95	1/4	2,724.21		
1/2	1/2	1/2	1/2	1/2	4,789.98	1/2	4,528.02	1/2	4,265.06	1/2	4,002.09	1/2	3,739.11	1/2	3,434.24	1/2	3,075.48	1/2	2,716.74		
3/4	3/4	3/4	3/4	3/4	4,784.84	3/4	4,522.55	3/4	4,259.58	3/4	3,996.61	3/4	3,733.63	3/4	3,426.76	3/4	3,068.01	3/4	2,709.26		
5		5		5	4,779.71	5	4,517.07	5	4,254.10	5	3,991.12	5	3,728.15	5	3,419.28	5	3,060.54	5	2,701.78		
1/4	1/4	1/4	1/4	1/4	4,774.57	1/4	4,511.59	1/4	4,248.62	1/4	3,985.64	1/4	3,722.67	1/4	3,411.81	1/4	3,053.07	1/4	2,694.31		
1/2	1/2	1/2	1/2	1/2	4,769.09	1/2	4,506.12	1/2	4,243.14	1/2	3,980.17	1/2	3,717.19	1/2	3,404.34	1/2	3,045.59	1/2	2,686.83		
3/4	3/4	3/4	3/4	3/4	4,763.61	3/4	4,500.64	3/4	4,237.67	3/4	3,974.69	3/4	3,711.71	3/4	3,396.87	3/4	3,038.12	3/4	2,679.36		
6		6		6	4,758.12	6	4,495.17	6	4,232.19	6	3,969.21	6	3,706.24	6	3,389.40	6	3,030.64	6	2,671.88		
1/4	1/4	1/4	1/4	1/4	4,752.64	1/4	4,489.69	1/4	4,226.71	1/4	3,963.74	1/4	3,700.76	1/4	3,381.93	1/4	3,023.17	1/4	2,664.40		
1/2	1/2	1/2	1/2	1/2	4,747.17	1/2	4,484.21	1/2	4,221.23	1/2	3,958.25	1/2	3,695.28	1/2	3,374.45	1/2	3,015.69	1/2	2,656.93		
3/4	3/4	3/4	3/4	3/4	4,741.69	3/4	4,478.72	3/4	4,215.75	3/4	3,952.77	3/4	3,689.81	3/4	3,366.97	3/4	3,008.21	3/4	2,649.46		
7		7		7	4,736.21	7	4,473.24	7	4,210.27	7	3,947.29	7	3,684.33	7	3,359.50	7	3,000.74	7	2,641.99		
1/4	1/4	1/4	1/4	1/4	4,730.74	1/4	4,467.76	1/4	4,204.78	1/4	3,941.81	1/4	3,678.86	1/4	3,352.02	1/4	2,993.26	1/4	2,634.52		
1/2	1/2	1/2	1/2	1/2	4,725.26	1/2	4,462.28	1/2	4,199.31	1/2	3,936.33	1/2	3,673.37	1/2	3,344.55	1/2	2,985.79	1/2	2,627.05		
3/4	3/4	3/4	3/4	3/4	4,719.78	3/4	4,456.81	3/4	4,193.83	3/4	3,930.86	3/4	3,667.89	3/4	3,337.07	3/4	2,978.32	3/4	2,619.57		
8		8		8	4,714.31	8	4,451.33	8	4,188.36	8	3,925.38	8	3,662.41	8	3,329.59	8	2,970.85	8	2,612.09		
1/4	1/4	1/4	1/4	1/4	4,708.83	1/4	4,445.86	1/4	4,182.88	1/4	3,919.90	1/4	3,656.93	1/4	3,322.12	1/4	2,963.38	1/4	2,604.62		
1/2	1/2	1/2	1/2	1/2	4,703.35	1/2	4,440.37	1/2	4,177.40	1/2	3,914.43	1/2	3,651.45	1/2	3,314.65	1/2	2,955.90	1/2	2,597.14		
3/4	3/4	3/4	3/4	3/4	4,697.87	3/4	4,434.89	3/4	4,171.93	3/4	3,908.95	3/4	3,645.97	3/4	3,307.18	3/4	2,948.43	3/4	2,589.67		
9		9		9	4,692.39	9	4,429.41	9	4,166.45	9	3,903.47	9	3,640.50	9	3,299.71	9	2,940.95	9	2,582.19		
1/4	1/4	1/4	1/4	1/4	4,686.90	1/4	4,423.93	1/4	4,160.97	1/4	3,898.00	1/4	3,635.02	1/4	3,292.24	1/4	2,933.47	1/4	2,574.71		
1/2	1/2	1/2	1/2	1/2	4,681.43	1/2	4,418.45	1/2	4,155.49	1/2	3,892.52	1/2	3,629.54	1/2	3,284.76	1/2	2,926.00	1/2	2,567.24		
3/4	3/4	3/4	3/4	3/4	4,675.95	3/4	4,412.97	3/4	4,150.01	3/4	3,887.03	3/4	3,624.06	3/4	3,277.28	3/4	2,918.52	3/4	2,559.77		
10		10		10	4,670.47	10	4,407.50	10	4,144.53	10	3,881.55	10	3,618.58	10	3,269.81	10	2,911.05	10	2,552.30		
1/4	1/4	1/4	1/4	1/4	4,665.00	1/4	4,402.02	1/4	4,139.05	1/4	3,876.07	1/4	3,613.09	1/4	3,262.33	1/4	2,903.57	1/4	2,544.83		
1/2	1/2	1/2	1/2	1/2	4,659.52	1/2	4,396.55	1/2	4,133.57	1/2	3,870.59	1/2	3,607.62	1/2	3,254.86	1/2	2,896.10	1/2	2,537.36		
3/4	3/4	3/4	3/4	3/4	4,654.03	3/4	4,391.07	3/4	4,128.09	3/4	3,865.12	3/4	3,602.14	3/4	3,247.38	3/4	2,888.63	3/4	2,529.88		
11		11		11	4,648.55	11	4,385.59	11	4,122.62	11	3,859.64	11	3,596.67	11	3,239.90	11	2,881.16	11	2,522.40		
1/4	1/4	1/4	1/4	1/4	4,843.07	1/4	4,643.07	1/4	4,380.12	1/4	4,117.14	1/4	3,854.17	1/4	3,591.19	1/4	3,232.43	1/4	2,873.69	1/4	2,514.93
1/2	1/2	1/2	1/2	1/2	4,842.50	1/2	4,637.59	1/2	4,374.64	1/2	4,111.66	1/2	3,848.68	1/2	3,583.71	1/2	3,224.96	1/2	2,866.21	1/2	2,507.46
3/4	3/4	3/4	3/4	3/4	4,841.93	3/4	4,632.12	3/4	4,369.15	3/4	4,106.18	3/4	3,843.20	3/4	3,576.24	3/4	3,217.49	3/4	2,858.74	3/4	2,499.99

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.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF THREADS ON MMC VALVE.  
 GAUGE POINT: (MMC) LOCATED 11'-06" OFF CENTERLINE AND 45'-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 "HFL 406"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11 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	2,492.52	0	2,133.76	0	1,775.00	0	1,416.25	0	1,057.61	0	698.93	0	340.21	0		0		0	
1/4	2,485.05	1/4	2,126.28	1/4	1,767.52	1/4	1,408.78	1/4	1,050.14	1/4	691.45	1/4	332.74	1/4	1/4	1/4		1/4	1/4
1/2	2,477.57	1/2	2,118.81	1/2	1,760.05	1/2	1,401.31	1/2	1,042.67	1/2	683.98	1/2	325.27	1/2	1/2	1/2		1/2	1/2
3/4	2,470.09	3/4	2,111.33	3/4	1,752.58	3/4	1,393.83	3/4	1,035.20	3/4	676.51	3/4	317.80	3/4	3/4	3/4		3/4	3/4
1	2,462.62	1	2,103.86	1	1,745.11	1	1,386.36	1	1,027.73	1	669.04	1	310.33	1	1	1		1	1
1/4	2,455.14	1/4	2,096.38	1/4	1,737.64	1/4	1,378.88	1/4	1,020.26	1/4	661.57	1/4	302.86	1/4	1/4	1/4		1/4	1/4
1/2	2,447.67	1/2	2,088.90	1/2	1,730.17	1/2	1,371.40	1/2	1,012.79	1/2	654.09	1/2	295.38	1/2	1/2	1/2		1/2	1/2
3/4	2,440.19	3/4	2,081.43	3/4	1,722.69	3/4	1,363.93	3/4	1,005.32	3/4	646.62	3/4	287.91	3/4	3/4	3/4		3/4	3/4
2	2,432.71	2	2,073.95	2	1,715.21	2	1,356.45	2	997.85	2	639.14	2	280.44	2	2	2		2	2
1/4	2,425.24	1/4	2,066.47	1/4	1,707.74	1/4	1,348.98	1/4	990.38	1/4	631.67	1/4	272.97	1/4	1/4	1/4		1/4	1/4
1/2	2,417.77	1/2	2,059.00	1/2	1,700.26	1/2	1,341.50	1/2	982.91	1/2	624.19	1/2	265.50	1/2	1/2	1/2		1/2	1/2
3/4	2,410.30	3/4	2,051.53	3/4	1,692.78	3/4	1,334.03	3/4	975.44	3/4	616.72	3/4	258.03	3/4	3/4	3/4		3/4	3/4
3	2,402.83	3	2,044.06	3	1,685.31	3	1,326.56	3	967.97	3	609.25	3	250.56	3	3	3		3	3
1/4	2,395.36	1/4	2,036.59	1/4	1,677.83	1/4	1,319.09	1/4	960.50	1/4	601.78	1/4	243.09	1/4	1/4	1/4		1/4	1/4
1/2	2,387.88	1/2	2,029.12	1/2	1,670.36	1/2	1,311.62	1/2	953.02	1/2	594.31	1/2	235.62	1/2	1/2	1/2		1/2	1/2
3/4	2,380.40	3/4	2,021.64	3/4	1,662.89	3/4	1,304.15	3/4	945.55	3/4	586.83	3/4	228.15	3/4	3/4	3/4		3/4	3/4
4	2,372.93	4	2,014.17	4	1,655.42	4	1,296.68	4	938.07	4	579.36	4	220.68	4	4	4		4	4
1/4	2,365.45	1/4	2,006.69	1/4	1,647.95	1/4	1,289.21	1/4	930.59	1/4	571.88	1/4	213.21	1/4	1/4	1/4		1/4	1/4
1/2	2,357.97	1/2	1,999.22	1/2	1,640.47	1/2	1,281.74	1/2	923.12	1/2	564.41	1/2	205.74	1/2	1/2	1/2		1/2	1/2
3/4	2,350.50	3/4	1,991.75	3/4	1,633.00	3/4	1,274.26	3/4	915.65	3/4	556.94	3/4	198.27	3/4	3/4	3/4		3/4	3/4
5	2,343.02	5	1,984.28	5	1,625.52	5	1,266.78	5	908.18	5	549.47	5	190.80	5	5	5		5	5
1/4	2,335.55	1/4	1,976.81	1/4	1,618.05	1/4	1,259.31	1/4	900.71	1/4	542.00	1/4	183.33	1/4	1/4	1/4		1/4	1/4
1/2	2,328.08	1/2	1,969.33	1/2	1,610.57	1/2	1,251.84	1/2	893.24	1/2	534.52	1/2	175.87	1/2	1/2	1/2		1/2	1/2
3/4	2,320.61	3/4	1,961.86	3/4	1,603.09	3/4	1,244.37	3/4	885.77	3/4	527.05	3/4	168.40	3/4	3/4	3/4		3/4	3/4
6	2,313.14	6	1,954.38	6	1,595.62	6	1,236.90	6	878.30	6	519.57	6	160.94	6	6	6		6	6
1/4	2,305.67	1/4	1,946.90	1/4	1,588.14	1/4	1,229.43	1/4	870.83	1/4	512.09	1/4	153.47	1/4	1/4	1/4		1/4	1/4
1/2	2,298.19	1/2	1,939.43	1/2	1,580.67	1/2	1,221.96	1/2	863.36	1/2	504.62	1/2	146.00	1/2	1/2	1/2		1/2	1/2
3/4	2,290.71	3/4	1,931.95	3/4	1,573.20	3/4	1,214.49	3/4	855.88	3/4	497.14	3/4	138.53	3/4	3/4	3/4		3/4	3/4
7	2,283.24	7	1,924.47	7	1,565.73	7	1,207.02	7	848.40	7	489.67	7	131.06	7	7	7		7	7
1/4	2,275.76	1/4	1,917.00	1/4	1,558.26	1/4	1,199.55	1/4	840.93	1/4	482.19	1/4	123.59	1/4	1/4	1/4		1/4	1/4
1/2	2,268.28	1/2	1,909.53	1/2	1,550.78	1/2	1,192.07	1/2	833.46	1/2	474.72	1/2	116.12	1/2	1/2	1/2		1/2	1/2
3/4	2,260.81	3/4	1,902.06	3/4	1,543.31	3/4	1,184.60	3/4	825.99	3/4	467.25	3/4	108.65	3/4	3/4	3/4		3/4	3/4
8	2,253.33	8	1,894.59	8	1,535.83	8	1,177.13	8	818.52	8	459.78	8	101.18	8	8	8		8	8
1/4	2,245.86	1/4	1,887.12	1/4	1,528.36	1/4	1,169.66	1/4	811.05	1/4	452.31	1/4	93.71	1/4	1/4	1/4		1/4	1/4
1/2	2,238.39	1/2	1,879.64	1/2	1,520.89	1/2	1,162.19	1/2	803.57	1/2	444.83	1/2	86.24	1/2	1/2	1/2		1/2	1/2
3/4	2,230.92	3/4	1,872.17	3/4	1,513.42	3/4	1,154.72	3/4	796.09	3/4	437.36	3/4	78.77	3/4	3/4	3/4		3/4	3/4
9	2,223.44	9	1,864.69	9	1,505.94	9	1,147.25	9	788.62	9	429.88	9	71.30	9	9	9		9	9
1/4	2,215.97	1/4	1,857.21	1/4	1,498.47	1/4	1,139.78	1/4	781.14	1/4	422.40	1/4	63.83	1/4	1/4	1/4		1/4	1/4
1/2	2,208.50	1/2	1,849.74	1/2	1,491.00	1/2	1,132.31	1/2	773.67	1/2	414.93	1/2	57.29	1/2	1/2	1/2		1/2	1/2
3/4	2,201.02	3/4	1,842.27	3/4	1,483.52	3/4	1,124.84	3/4	766.20	3/4	407.46	3/4	50.75	3/4	3/4	3/4		3/4	3/4
10	2,193.55	10	1,834.80	10	1,476.05	10	1,117.37	10	758.73	10	399.99	10	44.21	10	10	10		10	10
1/4	2,186.07	1/4	1,827.33	1/4	1,468.57	1/4	1,109.90	1/4	751.26	1/4	392.52	1/4	37.67	1/4	1/4	1/4		1/4	1/4
1/2	2,178.60	1/2	1,819.86	1/2	1,461.09	1/2	1,102.43	1/2	743.78	1/2	385.05	1/2	32.99	1/2	1/2	1/2		1/2	1/2
3/4	2,171.13	3/4	1,812.38	3/4	1,453.62	3/4	1,094.96	3/4	736.31	3/4	377.57	3/4	28.32	3/4	3/4	3/4		3/4	3/4
11	2,163.66	11	1,804.90	11	1,446.14	11	1,087.49	11	728.83	11	370.09	11	23.65	11	11	11		11	11
1/4	2,156.19	1/4	1,797.43	1/4	1,438.67	1/4	1,080.02	1/4	721.36	1/4	362.62	1/4	18.98	1/4	1/4	1/4		1/4	1/4
1/2	2,148.71	1/2	1,789.95	1/2	1,431.19	1/2	1,072.55	1/2	713.88	1/2	355.15	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,141.24	3/4	1,782.47	3/4	1,423.72	3/4	1,065.08	3/4	706.40	3/4	347.68	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/31/2008 CB  
RECALCULATED: 09/04/2018  
VERIFIED: 09/21/2023 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 09/2023

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



# BARGE "HFL 406"

# FUEL TANK

## INNAGE

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	96	0	227	0	358	0	482	0		0		0		0		0	
1/4	1	1/4	99	1/4	229	1/4	360	1/4	484	1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	101	1/2	232	1/2	363	1/2	486	1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	104	3/4	235	3/4	366	3/4	489	3/4		3/4		3/4		3/4		3/4	
1	3	1	107	1	238	1	369	1	491	1		1		1		1		1	
1/4	4	1/4	109	1/4	240	1/4	371	1/4	493	1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	112	1/2	243	1/2	374	1/2	495	1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	115	3/4	246	3/4	377	3/4	497	3/4		3/4		3/4		3/4		3/4	
2	7	2	118	2	249	2	379	2	498	2		2		2		2		2	
1/4	9	1/4	120	1/4	251	1/4	382	1/4	500	1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	123	1/2	254	1/2	385	1/2	502	1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	126	3/4	257	3/4	388	3/4	504	3/4		3/4		3/4		3/4		3/4	
3	13	3	129	3	259	3	390	3	505	3		3		3		3		3	
1/4	15	1/4	131	1/4	262	1/4	393	1/4	507	1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	134	1/2	265	1/2	396	1/2	508	1/2		1/2		1/2		1/2		1/2	
3/4	19	3/4	137	3/4	268	3/4	399	3/4	510	3/4		3/4		3/4		3/4		3/4	
4	20	4	139	4	270	4	401	4	511	4		4		4		4		4	
1/4	22	1/4	142	1/4	273	1/4	404	1/4	513	1/4		1/4		1/4		1/4		1/4	
1/2	24	1/2	145	1/2	276	1/2	407	1/2	514	1/2		1/2		1/2		1/2		1/2	
3/4	26	3/4	148	3/4	279	3/4	409	3/4	515	3/4		3/4		3/4		3/4		3/4	
5	28	5	150	5	281	5	412	5	516	5		5		5		5		5	
1/4	30	1/4	153	1/4	284	1/4	415	1/4	517	1/4		1/4		1/4		1/4		1/4	
1/2	32	1/2	156	1/2	287	1/2	417	1/2	518	1/2		1/2		1/2		1/2		1/2	
3/4	34	3/4	159	3/4	289	3/4	420	3/4	518	3/4		3/4		3/4		3/4		3/4	
6	37	6	161	6	292	6	423	6	519	6		6		6		6		6	
1/4	39	1/4	164	1/4	295	1/4	425	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	41	1/2	167	1/2	298	1/2	428	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	43	3/4	169	3/4	300	3/4	431	3/4		3/4		3/4		3/4		3/4		3/4	
7	46	7	172	7	303	7	433	7		7		7		7		7		7	
1/4	48	1/4	175	1/4	306	1/4	436	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	50	1/2	178	1/2	309	1/2	439	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	53	3/4	180	3/4	311	3/4	441	3/4		3/4		3/4		3/4		3/4		3/4	
8	55	8	183	8	314	8	444	8		8		8		8		8		8	
1/4	57	1/4	186	1/4	317	1/4	446	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	60	1/2	189	1/2	319	1/2	449	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	62	3/4	191	3/4	322	3/4	451	3/4		3/4		3/4		3/4		3/4		3/4	
9	65	9	194	9	325	9	454	9		9		9		9		9		9	
1/4	67	1/4	197	1/4	328	1/4	456	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	70	1/2	199	1/2	330	1/2	459	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	72	3/4	202	3/4	333	3/4	461	3/4		3/4		3/4		3/4		3/4		3/4	
10	75	10	205	10	336	10	464	10		10		10		10		10		10	
1/4	78	1/4	208	1/4	339	1/4	466	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	80	1/2	210	1/2	341	1/2	469	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	83	3/4	213	3/4	344	3/4	471	3/4		3/4		3/4		3/4		3/4		3/4	
11	85	11	216	11	347	11	473	11		11		11		11		11		11	
1/4	88	1/4	219	1/4	349	1/4	476	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	91	1/2	221	1/2	352	1/2	478	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	93	3/4	224	3/4	355	3/4	480	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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

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CANCELS AND SUPERCEDES  
 ALL PRIOR TO 09/2023

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



# BARGE "HFL 406"

## PORT SLOP TANK INNAGE

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	986	0	1,972	0	2,958	0	3,943	0		0		0		0		0	
1/4	21	1/4	1,006	1/4	1,992	1/4	2,978	1/4	3,964	1/4		1/4		1/4		1/4		1/4	
1/2	41	1/2	1,027	1/2	2,013	1/2	2,999	1/2	3,985	1/2		1/2		1/2		1/2		1/2	
3/4	62	3/4	1,047	3/4	2,033	3/4	3,019	3/4	4,005	3/4		3/4		3/4		3/4		3/4	
1	82	1	1,068	1	2,054	1	3,040	1	4,026	1		1		1		1		1	
1/4	103	1/4	1,089	1/4	2,074	1/4	3,060	1/4	4,046	1/4		1/4		1/4		1/4		1/4	
1/2	123	1/2	1,109	1/2	2,095	1/2	3,081	1/2	4,067	1/2		1/2		1/2		1/2		1/2	
3/4	144	3/4	1,130	3/4	2,115	3/4	3,101	3/4	4,087	3/4		3/4		3/4		3/4		3/4	
2	164	2	1,150	2	2,136	2	3,122	2	4,108	2		2		2		2		2	
1/4	185	1/4	1,171	1/4	2,157	1/4	3,142	1/4	4,128	1/4		1/4		1/4		1/4		1/4	
1/2	205	1/2	1,191	1/2	2,177	1/2	3,163	1/2	4,149	1/2		1/2		1/2		1/2		1/2	
3/4	226	3/4	1,212	3/4	2,198	3/4	3,184	3/4	4,169	3/4		3/4		3/4		3/4		3/4	
3	246	3	1,232	3	2,218	3	3,204	3	4,190	3		3		3		3		3	
1/4	267	1/4	1,253	1/4	2,239	1/4	3,225	1/4	4,210	1/4		1/4		1/4		1/4		1/4	
1/2	288	1/2	1,273	1/2	2,259	1/2	3,245	1/2	4,231	1/2		1/2		1/2		1/2		1/2	
3/4	308	3/4	1,294	3/4	2,280	3/4	3,266	3/4	4,252	3/4		3/4		3/4		3/4		3/4	
4	329	4	1,314	4	2,300	4	3,286	4	4,272	4		4		4		4		4	
1/4	349	1/4	1,335	1/4	2,321	1/4	3,307	1/4	4,293	1/4		1/4		1/4		1/4		1/4	
1/2	370	1/2	1,356	1/2	2,341	1/2	3,327	1/2	4,313	1/2		1/2		1/2		1/2		1/2	
3/4	390	3/4	1,376	3/4	2,362	3/4	3,348	3/4	4,334	3/4		3/4		3/4		3/4		3/4	
5	411	5	1,397	5	2,383	5	3,368	5	4,354	5		5		5		5		5	
1/4	431	1/4	1,417	1/4	2,403	1/4	3,389	1/4	4,375	1/4		1/4		1/4		1/4		1/4	
1/2	452	1/2	1,438	1/2	2,424	1/2	3,409	1/2	4,395	1/2		1/2		1/2		1/2		1/2	
3/4	472	3/4	1,458	3/4	2,444	3/4	3,430	3/4	4,416	3/4		3/4		3/4		3/4		3/4	
6	493	6	1,479	6	2,465	6	3,451	6	4,436	6		6		6		6		6	
1/4	513	1/4	1,499	1/4	2,485	1/4	3,471	1/4	4,457	1/4		1/4		1/4		1/4		1/4	
1/2	534	1/2	1,520	1/2	2,506	1/2	3,492	1/2	4,477	1/2		1/2		1/2		1/2		1/2	
3/4	555	3/4	1,540	3/4	2,526	3/4	3,512	3/4	4,498	3/4		3/4		3/4		3/4		3/4	
7	575	7	1,561	7	2,547	7	3,533	7	4,519	7		7		7		7		7	
1/4	596	1/4	1,581	1/4	2,567	1/4	3,553	1/4	4,539	1/4		1/4		1/4		1/4		1/4	
1/2	616	1/2	1,602	1/2	2,588	1/2	3,574	1/2	4,560	1/2		1/2		1/2		1/2		1/2	
3/4	637	3/4	1,623	3/4	2,608	3/4	3,594	3/4	4,580	3/4		3/4		3/4		3/4		3/4	
8	657	8	1,643	8	2,629	8	3,615	8	4,601	8		8		8		8		8	
1/4	678	1/4	1,664	1/4	2,650	1/4	3,635	1/4	4,621	1/4		1/4		1/4		1/4		1/4	
1/2	698	1/2	1,684	1/2	2,670	1/2	3,656	1/2	4,642	1/2		1/2		1/2		1/2		1/2	
3/4	719	3/4	1,705	3/4	2,691	3/4	3,676	3/4	4,662	3/4		3/4		3/4		3/4		3/4	
9	739	9	1,725	9	2,711	9	3,697	9	4,683	9		9		9		9		9	
1/4	760	1/4	1,746	1/4	2,732	1/4	3,718	1/4	4,703	1/4		1/4		1/4		1/4		1/4	
1/2	780	1/2	1,766	1/2	2,752	1/2	3,738	1/2	4,724	1/2		1/2		1/2		1/2		1/2	
3/4	801	3/4	1,787	3/4	2,773	3/4	3,759	3/4	4,744	3/4		3/4		3/4		3/4		3/4	
10	822	10	1,807	10	2,793	10	3,779	10	4,765	10		10		10		10		10	
1/4	842	1/4	1,828	1/4	2,814	1/4	3,800	1/4	4,786	1/4		1/4		1/4		1/4		1/4	
1/2	863	1/2	1,848	1/2	2,834	1/2	3,820	1/2	4,806	1/2		1/2		1/2		1/2		1/2	
3/4	883	3/4	1,869	3/4	2,855	3/4	3,841	3/4	4,827	3/4		3/4		3/4		3/4		3/4	
11	904	11	1,890	11	2,875	11	3,861	11	4,847	11		11		11		11		11	
1/4	924	1/4	1,910	1/4	2,896	1/4	3,882	1/4	4,868	1/4		1/4		1/4		1/4		1/4	
1/2	945	1/2	1,931	1/2	2,917	1/2	3,902	1/2	4,888	1/2		1/2		1/2		1/2		1/2	
3/4	965	3/4	1,951	3/4	2,937	3/4	3,923	3/4	4,909	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.  
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# BARGE "HFL 406"

**STBD  
SLOP TANK**

**INNAGE**

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	985	0	1,969	0	2,954	0	3,938	0		0		0		0		0	
1/4	21	1/4	1,005	1/4	1,990	1/4	2,974	1/4	3,959	1/4		1/4		1/4		1/4		1/4	
1/2	41	1/2	1,026	1/2	2,010	1/2	2,995	1/2	3,979	1/2		1/2		1/2		1/2		1/2	
3/4	62	3/4	1,046	3/4	2,031	3/4	3,015	3/4	4,000	3/4		3/4		3/4		3/4		3/4	
1	82	1	1,067	1	2,051	1	3,036	1	4,020	1		1		1		1		1	
1/4	103	1/4	1,087	1/4	2,072	1/4	3,056	1/4	4,041	1/4		1/4		1/4		1/4		1/4	
1/2	123	1/2	1,108	1/2	2,092	1/2	3,077	1/2	4,062	1/2		1/2		1/2		1/2		1/2	
3/4	144	3/4	1,128	3/4	2,113	3/4	3,097	3/4	4,082	3/4		3/4		3/4		3/4		3/4	
2	164	2	1,149	2	2,133	2	3,118	2	4,103	2		2		2		2		2	
1/4	185	1/4	1,169	1/4	2,154	1/4	3,138	1/4	4,123	1/4		1/4		1/4		1/4		1/4	
1/2	205	1/2	1,190	1/2	2,174	1/2	3,159	1/2	4,144	1/2		1/2		1/2		1/2		1/2	
3/4	226	3/4	1,210	3/4	2,195	3/4	3,179	3/4	4,164	3/4		3/4		3/4		3/4		3/4	
3	246	3	1,231	3	2,215	3	3,200	3	4,185	3		3		3		3		3	
1/4	267	1/4	1,251	1/4	2,236	1/4	3,220	1/4	4,205	1/4		1/4		1/4		1/4		1/4	
1/2	287	1/2	1,272	1/2	2,256	1/2	3,241	1/2	4,226	1/2		1/2		1/2		1/2		1/2	
3/4	308	3/4	1,292	3/4	2,277	3/4	3,262	3/4	4,246	3/4		3/4		3/4		3/4		3/4	
4	328	4	1,313	4	2,297	4	3,282	4	4,267	4		4		4		4		4	
1/4	349	1/4	1,333	1/4	2,318	1/4	3,303	1/4	4,287	1/4		1/4		1/4		1/4		1/4	
1/2	369	1/2	1,354	1/2	2,338	1/2	3,323	1/2	4,308	1/2		1/2		1/2		1/2		1/2	
3/4	390	3/4	1,374	3/4	2,359	3/4	3,344	3/4	4,328	3/4		3/4		3/4		3/4		3/4	
5	410	5	1,395	5	2,379	5	3,364	5	4,349	5		5		5		5		5	
1/4	431	1/4	1,415	1/4	2,400	1/4	3,385	1/4	4,369	1/4		1/4		1/4		1/4		1/4	
1/2	451	1/2	1,436	1/2	2,420	1/2	3,405	1/2	4,390	1/2		1/2		1/2		1/2		1/2	
3/4	472	3/4	1,456	3/4	2,441	3/4	3,426	3/4	4,410	3/4		3/4		3/4		3/4		3/4	
6	492	6	1,477	6	2,462	6	3,446	6	4,431	6		6		6		6		6	
1/4	513	1/4	1,497	1/4	2,482	1/4	3,467	1/4	4,451	1/4		1/4		1/4		1/4		1/4	
1/2	533	1/2	1,518	1/2	2,503	1/2	3,487	1/2	4,472	1/2		1/2		1/2		1/2		1/2	
3/4	554	3/4	1,538	3/4	2,523	3/4	3,508	3/4	4,492	3/4		3/4		3/4		3/4		3/4	
7	574	7	1,559	7	2,544	7	3,528	7	4,513	7		7		7		7		7	
1/4	595	1/4	1,579	1/4	2,564	1/4	3,549	1/4	4,533	1/4		1/4		1/4		1/4		1/4	
1/2	615	1/2	1,600	1/2	2,585	1/2	3,569	1/2	4,554	1/2		1/2		1/2		1/2		1/2	
3/4	636	3/4	1,621	3/4	2,605	3/4	3,590	3/4	4,574	3/4		3/4		3/4		3/4		3/4	
8	656	8	1,641	8	2,626	8	3,610	8	4,595	8		8		8		8		8	
1/4	677	1/4	1,662	1/4	2,646	1/4	3,631	1/4	4,615	1/4		1/4		1/4		1/4		1/4	
1/2	697	1/2	1,682	1/2	2,667	1/2	3,651	1/2	4,636	1/2		1/2		1/2		1/2		1/2	
3/4	718	3/4	1,703	3/4	2,687	3/4	3,672	3/4	4,656	3/4		3/4		3/4		3/4		3/4	
9	738	9	1,723	9	2,708	9	3,692	9	4,677	9		9		9		9		9	
1/4	759	1/4	1,744	1/4	2,728	1/4	3,713	1/4	4,697	1/4		1/4		1/4		1/4		1/4	
1/2	779	1/2	1,764	1/2	2,749	1/2	3,733	1/2	4,718	1/2		1/2		1/2		1/2		1/2	
3/4	800	3/4	1,785	3/4	2,769	3/4	3,754	3/4	4,738	3/4		3/4		3/4		3/4		3/4	
10	821	10	1,805	10	2,790	10	3,774	10	4,759	10		10		10		10		10	
1/4	841	1/4	1,826	1/4	2,810	1/4	3,795	1/4	4,779	1/4		1/4		1/4		1/4		1/4	
1/2	862	1/2	1,846	1/2	2,831	1/2	3,815	1/2	4,800	1/2		1/2		1/2		1/2		1/2	
3/4	882	3/4	1,867	3/4	2,851	3/4	3,836	3/4	4,820	3/4		3/4		3/4		3/4		3/4	
11	903	11	1,887	11	2,872	11	3,856	11	4,841	11		11		11		11		11	
1/4	923	1/4	1,908	1/4	2,892	1/4	3,877	1/4	4,862	1/4		1/4		1/4		1/4		1/4	
1/2	944	1/2	1,928	1/2	2,913	1/2	3,897	1/2	4,882	1/2		1/2		1/2		1/2		1/2	
3/4	964	3/4	1,949	3/4	2,933	3/4	3,918	3/4	4,903	3/4		3/4		3/4		3/4		3/4	

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