

BARRELS



### BARGE "HFL 100" ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN	BOW	STERN
1 CENTER	00-0/8	-00-0/8	00-0/8	-00-0/8	00-0/8	-00-0/8	00-0/8	-00-0/8	00-1/8	-00-1/8	00-1/8	-00-1/8
2 CENTER	00-1/8	-00-1/8	00-1/8	-00-1/8	00-1/4	-00-1/4	00-3/8	-00-3/8	00-3/8	-00-3/8	00-1/2	-00-1/2
3 CENTER	00-1/8	-00-1/8	00-1/4	-00-1/4	00-1/4	-00-1/4	00-3/8	-00-3/8	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 2 CENTER IS - 00-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 CENTER, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 176'-09"

August 19, 2019

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

<http://www.pmacorp.net>



# BARGE "HFL 100"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-04 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	
0	0	0	0	0	3,684.06	0	3,484.75	0	3,285.45	0	3,086.15	0	2,848.45	0	2,540.40	0	2,232.49	0	1,924.43	
1/4	1/4	1/4	1/4	1/4	3,679.90	1/4	3,480.60	1/4	3,281.30	1/4	3,082.00	1/4	2,842.03	1/4	2,533.98	1/4	2,226.07	1/4	1,918.02	
1/2	1/2	1/2	1/2	1/2	3,675.75	1/2	3,476.45	1/2	3,277.15	1/2	3,077.85	1/2	2,837.61	1/2	2,529.57	1/2	2,221.65	1/2	1,913.60	
3/4	3/4	3/4	3/4	3/4	3,671.60	3/4	3,472.30	3/4	3,273.00	3/4	3,073.70	3/4	2,833.19	3/4	2,525.16	3/4	2,217.24	3/4	1,909.18	
1	1	1	1	1	3,667.45	1	3,468.15	1	3,268.85	1	3,069.54	1	2,829.78	1	2,521.75	1	2,213.82	1	1,905.76	
1/4	1/4	3,837.41	1/4	3,663.30	1/4	3,463.99	1/4	3,264.69	1/4	3,065.39	1/4	2,816.36	1/4	2,508.33	1/4	2,200.40	1/4	1,892.35	1/4	1,584.30
1/2	1/2	3,836.87	1/2	3,659.14	1/2	3,459.84	1/2	3,260.54	1/2	3,061.24	1/2	2,809.94	1/2	2,501.92	1/2	2,193.98	1/2	1,885.93	1/2	1,577.88
3/4	3/4	3,836.34	3/4	3,654.99	3/4	3,455.69	3/4	3,256.39	3/4	3,057.09	3/4	2,803.52	3/4	2,495.51	3/4	2,187.56	3/4	1,879.51	3/4	1,571.76
2	2	3,834.19	2	3,650.84	2	3,451.54	2	3,252.24	2	3,052.94	2	2,797.10	2	2,489.09	2	2,181.15	2	1,873.09	2	1,569.84
1/4	1/4	3,832.05	1/4	3,646.69	1/4	3,447.39	1/4	3,248.09	1/4	3,048.78	1/4	2,790.69	1/4	2,482.68	1/4	2,174.73	1/4	1,866.67	1/4	1,565.62
1/2	1/2	3,829.91	1/2	3,642.53	1/2	3,443.23	1/2	3,243.93	1/2	3,044.63	1/2	2,784.27	1/2	2,476.27	1/2	2,168.31	1/2	1,860.26	1/2	1,562.57
3/4	3/4	3,827.78	3/4	3,638.38	3/4	3,439.08	3/4	3,239.78	3/4	3,040.48	3/4	2,777.85	3/4	2,469.85	3/4	2,161.89	3/4	1,853.84	3/4	1,559.52
3	3	3,825.76	3	3,634.23	3	3,434.93	3	3,235.63	3	3,036.33	3	2,771.43	3	2,463.44	3	2,155.48	3	1,847.42	3	1,556.47
1/4	1/4	3,823.74	1/4	3,630.08	1/4	3,430.78	1/4	3,231.48	1/4	3,032.18	1/4	2,765.02	1/4	2,457.03	1/4	2,149.06	1/4	1,841.00	1/4	1,553.41
1/2	1/2	3,821.74	1/2	3,625.93	1/2	3,426.63	1/2	3,227.32	1/2	3,028.02	1/2	2,758.60	1/2	2,450.61	1/2	2,142.64	1/2	1,833.59	1/2	1,550.39
3/4	3/4	3,819.73	3/4	3,621.77	3/4	3,422.47	3/4	3,223.17	3/4	3,023.87	3/4	2,752.18	3/4	2,444.20	3/4	2,136.22	3/4	1,828.17	3/4	1,547.39
4	4	3,815.88	4	3,617.62	4	3,418.32	4	3,219.02	4	3,019.72	4	2,745.76	4	2,437.79	4	2,129.80	4	1,821.75	4	1,544.30
1/4	1/4	3,812.03	1/4	3,613.47	1/4	3,414.17	1/4	3,214.87	1/4	3,015.57	1/4	2,739.34	1/4	2,431.37	1/4	2,123.39	1/4	1,815.33	1/4	1,541.30
1/2	1/2	3,808.18	1/2	3,609.32	1/2	3,410.02	1/2	3,210.72	1/2	3,011.42	1/2	2,732.93	1/2	2,424.96	1/2	2,116.97	1/2	1,808.91	1/2	1,538.25
3/4	3/4	3,804.33	3/4	3,605.17	3/4	3,405.87	3/4	3,206.56	3/4	3,007.26	3/4	2,726.51	3/4	2,418.55	3/4	2,110.55	3/4	1,802.50	3/4	1,535.20
5	5	3,800.21	5	3,601.01	5	3,401.71	5	3,202.41	5	3,003.11	5	2,720.09	5	2,412.14	5	2,104.13	5	1,796.08	5	1,532.15
1/4	1/4	3,796.09	1/4	3,596.86	1/4	3,397.56	1/4	3,198.26	1/4	2,998.96	1/4	2,713.67	1/4	2,405.72	1/4	2,097.72	1/4	1,789.66	1/4	1,529.10
1/2	1/2	3,791.96	1/2	3,592.71	1/2	3,393.41	1/2	3,194.11	1/2	2,994.81	1/2	2,707.26	1/2	2,399.31	1/2	2,091.30	1/2	1,783.24	1/2	1,526.04
3/4	3/4	3,787.84	3/4	3,588.58	3/4	3,389.28	3/4	3,189.98	3/4	2,990.68	3/4	2,700.84	3/4	2,392.90	3/4	2,084.86	3/4	1,778.83	3/4	1,523.00
6	6	3,783.69	6	3,584.41	6	3,385.10	6	3,185.80	6	2,986.52	6	2,694.42	6	2,386.48	6	2,078.46	6	1,770.41	6	1,519.84
1/4	1/4	3,779.54	1/4	3,580.25	1/4	3,380.95	1/4	3,181.65	1/4	2,982.38	1/4	2,688.00	1/4	2,380.07	1/4	2,072.04	1/4	1,763.99	1/4	1,516.78
1/2	1/2	3,775.40	1/2	3,576.10	1/2	3,376.80	1/2	3,177.50	1/2	2,978.24	1/2	2,681.58	1/2	2,373.66	1/2	2,065.63	1/2	1,757.57	1/2	1,513.62
3/4	3/4	3,771.25	3/4	3,571.95	3/4	3,372.65	3/4	3,173.35	3/4	2,974.11	3/4	2,675.17	3/4	2,367.24	3/4	2,059.21	3/4	1,751.45	3/4	1,510.46
7	7	3,767.10	7	3,567.80	7	3,368.50	7	3,169.20	7	2,969.97	7	2,668.75	7	2,360.83	7	2,052.79	7	1,744.75	7	1,507.30
1/4	1/4	3,762.95	1/4	3,563.64	1/4	3,364.34	1/4	3,165.04	1/4	2,965.83	1/4	2,662.33	1/4	2,354.42	1/4	2,046.37	1/4	1,738.35	1/4	1,504.15
1/2	1/2	3,758.79	1/2	3,559.49	1/2	3,360.19	1/2	3,160.89	1/2	2,961.69	1/2	2,655.91	1/2	2,348.00	1/2	2,039.95	1/2	1,731.94	1/2	1,501.00
3/4	3/4	3,754.64	3/4	3,555.34	3/4	3,356.04	3/4	3,156.74	3/4	2,957.55	3/4	2,649.50	3/4	2,341.59	3/4	2,031.94	3/4	1,725.54	3/4	1,497.85
8	8	3,750.49	8	3,551.19	8	3,351.89	8	3,152.59	8	2,951.13	8	2,643.08	8	2,335.17	8	2,027.12	8	1,719.14	8	1,494.70
1/4	1/4	3,746.34	1/4	3,547.04	1/4	3,347.74	1/4	3,148.43	1/4	2,944.71	1/4	2,636.66	1/4	2,328.76	1/4	2,020.70	1/4	1,712.73	1/4	1,491.55
1/2	1/2	3,742.19	1/2	3,542.88	1/2	3,343.58	1/2	3,144.28	1/2	2,938.30	1/2	2,630.24	1/2	2,322.34	1/2	2,014.28	1/2	1,705.33	1/2	1,488.40
3/4	3/4	3,738.03	3/4	3,538.73	3/4	3,339.43	3/4	3,140.13	3/4	2,931.88	3/4	2,623.82	3/4	2,315.92	3/4	2,007.87	3/4	1,699.93	3/4	1,485.25
9	9	3,733.88	9	3,534.58	9	3,335.28	9	3,135.98	9	2,925.46	9	2,617.41	9	2,309.50	9	2,001.45	9	1,693.52	9	1,482.10
1/4	1/4	3,729.73	1/4	3,530.43	1/4	3,331.13	1/4	3,131.83	1/4	2,919.04	1/4	2,610.99	1/4	2,303.08	1/4	1,995.03	1/4	1,687.12	1/4	1,479.00
1/2	1/2	3,725.58	1/2	3,526.28	1/2	3,326.98	1/2	3,127.67	1/2	2,912.63	1/2	2,604.57	1/2	2,296.67	1/2	1,988.61	1/2	1,680.72	1/2	1,475.85
3/4	3/4	3,721.42	3/4	3,522.12	3/4	3,322.82	3/4	3,123.52	3/4	2,906.21	3/4	2,598.15	3/4	2,290.25	3/4	1,982.19	3/4	1,674.31	3/4	1,472.58
10	10	3,717.27	10	3,517.97	10	3,318.67	10	3,119.37	10	2,899.79	10	2,591.74	10	2,283.83	10	1,975.78	10	1,667.91	10	1,469.45
1/4	1/4	3,713.12	1/4	3,513.82	1/4	3,314.52	1/4	3,115.22	1/4	2,893.37	1/4	2,585.32	1/4	2,277.41	1/4	1,969.36	1/4	1,661.50	1/4	1,466.30
1/2	1/2	3,708.97	1/2	3,509.67	1/2	3,310.37	1/2	3,111.07	1/2	2,886.95	1/2	2,578.90	1/2	2,271.00	1/2	1,962.94	1/2	1,655.10	1/2	1,463.15
3/4	3/4	3,704.82	3/4	3,505.52	3/4	3,306.21	3/4	3,106.91	3/4	2,880.54	3/4	2,572.48	3/4	2,264.58	3/4	1,956.52	3/4	1,648.70	3/4	1,459.80
11	11	3,700.66	11	3,501.36	11	3,302.06	11	3,102.76	11	2,874.12	11	2,566.06	11	2,258.16	11	1,950.11	11	1,642.29	11	1,456.45
1/4	1/4	3,696.51	1/4	3,497.21	1/4	3,297.91	1/4	3,098.61	1/4	2,867.70	1/4	2,559.65	1/4	2,251.74	1/4	1,943.69	1/4	1,635.89	1/4	1,453.10
1/2	1/2	3,692.36	1/2	3,493.06	1/2	3,293.76	1/2	3,094.46	1/2	2,861.28	1/2	2,553.23	1/2	2,245.32	1/2	1,937.27	1/2	1,629.49	1/2	1,449.75
3/4	3/4	3,688.21	3/4	3,488.91	3/4	3,289.61	3/4	3,090.31	3/4	2,854.87	3/4	2,546.81	3/4	2,238.91	3/4	1,930.85	3/4	1,623.08	3/4	1,446.40

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 TO TOP OF 2" DIAMETER "HERMETIC" VALVE  
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-03" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "HFL 100"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-04 3/4"

	10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN
0	1,616.66	0	1,308.99	0	1,001.08	0	699.54	0	391.41	0	83.44	0	0	0	0	0	0	0	0	0
1/4	1,610.28	1/4	1,302.57	1/4	994.67	1/4	693.12	1/4	384.99	1/4	77.08	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,603.87	1/2	1,296.16	1/2	988.25	1/2	686.70	1/2	378.57	1/2	70.73	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,597.47	3/4	1,289.74	3/4	981.84	3/4	680.28	3/4	372.16	3/4	64.37	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,591.07	1	1,283.33	1	975.55	1	673.86	1	365.74	1	58.07	1	1	1	1	1	1	1	1	1
1 1/4	1,584.66	1 1/4	1,276.91	1 1/4	969.26	1 1/4	667.44	1 1/4	359.32	1 1/4	51.78	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,578.26	1 1/2	1,270.50	1 1/2	962.97	1 1/2	661.02	1 1/2	352.90	1 1/2	45.48	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,571.86	3/4	1,264.08	3/4	956.57	3/4	654.60	3/4	346.48	3/4	39.18	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,565.45	2	1,257.67	2	950.38	2	648.19	2	340.06	2	33.83	2	2	2	2	2	2	2	2	2
1 1/4	1,559.05	1 1/4	1,251.26	1 1/4	944.09	1 1/4	641.77	1 1/4	333.64	1 1/4	28.48	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,552.65	1 1/2	1,244.84	1 1/2	937.80	1 1/2	635.35	1 1/2	327.22	1 1/2	23.13	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,546.24	3/4	1,238.43	3/4	931.51	3/4	628.93	3/4	320.80	3/4	17.78	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,539.84	3	1,232.01	3	925.27	3	622.51	3	314.38	3	14.56	3	3	3	3	3	3	3	3	3
1 1/4	1,533.43	1 1/4	1,225.60	1 1/4	919.02	1 1/4	616.09	1 1/4	307.96	1 1/4	11.35	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,527.03	1 1/2	1,219.18	1 1/2	912.77	1 1/2	609.67	1 1/2	301.54	1 1/2	8.13	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,520.63	3/4	1,212.77	3/4	906.53	3/4	603.25	3/4	295.12	3/4	4.92	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,514.22	4	1,206.35	4	900.28	4	596.83	4	288.70	4	3.85	4	4	4	4	4	4	4	4	4
1 1/4	1,507.82	1 1/4	1,199.94	1 1/4	894.03	1 1/4	590.41	1 1/4	282.28	1 1/4	2.77	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,501.42	1 1/2	1,193.52	1 1/2	887.79	1 1/2	583.99	1 1/2	275.86	1 1/2	1.70	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,495.01	3/4	1,187.11	3/4	881.54	3/4	577.57	3/4	269.45	3/4	0.63	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,488.60	5	1,180.69	5	875.30	5	571.15	5	263.03	5		5	5	5	5	5	5	5	5	5
1 1/4	1,482.18	1 1/4	1,174.28	1 1/4	869.05	1 1/4	564.73	1 1/4	256.61	1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,475.77	1 1/2	1,167.86	1 1/2	862.80	1 1/2	558.32	1 1/2	250.19	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,469.36	3/4	1,161.45	3/4	856.56	3/4	551.90	3/4	243.77	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,462.94	6	1,155.03	6	850.31	6	545.48	6	237.34	6		6	6	6	6	6	6	6	6	6
1 1/4	1,456.53	1 1/4	1,148.62	1 1/4	844.07	1 1/4	539.06	1 1/4	230.92	1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,450.11	1 1/2	1,142.21	1 1/2	837.82	1 1/2	532.64	1 1/2	224.49	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,443.70	3/4	1,135.79	3/4	831.57	3/4	526.22	3/4	218.07	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,437.28	7	1,129.38	7	825.33	7	519.80	7	211.64	7		7	7	7	7	7	7	7	7	7
1 1/4	1,430.87	1 1/4	1,122.96	1 1/4	819.08	1 1/4	513.38	1 1/4	205.22	1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,424.45	1 1/2	1,116.55	1 1/2	812.84	1 1/2	506.96	1 1/2	198.79	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,418.04	3/4	1,110.13	3/4	806.59	3/4	500.54	3/4	192.36	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,411.62	8	1,103.72	8	800.34	8	494.12	8	185.94	8		8	8	8	8	8	8	8	8	8
1 1/4	1,405.21	1 1/4	1,097.30	1 1/4	794.10	1 1/4	487.70	1 1/4	179.52	1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,398.79	1 1/2	1,090.89	1 1/2	787.85	1 1/2	481.28	1 1/2	173.10	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,392.38	3/4	1,084.47	3/4	781.51	3/4	474.86	3/4	166.68	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,385.96	9	1,078.06	9	775.36	9	468.44	9	160.26	9		9	9	9	9	9	9	9	9	9
1 1/4	1,379.55	1 1/4	1,071.64	1 1/4	769.11	1 1/4	462.03	1 1/4	153.84	1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,373.13	1 1/2	1,065.23	1 1/2	762.87	1 1/2	455.61	1 1/2	147.42	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,366.72	3/4	1,058.81	3/4	756.62	3/4	449.19	3/4	141.00	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,360.31	10	1,052.40	10	750.37	10	442.77	10	134.59	10		10	10	10	10	10	10	10	10	10
1 1/4	1,353.89	1 1/4	1,045.98	1 1/4	744.13	1 1/4	436.35	1 1/4	128.18	1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,347.48	1 1/2	1,039.57	1 1/2	737.88	1 1/2	429.93	1 1/2	121.77	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,341.06	3/4	1,033.16	3/4	731.64	3/4	423.51	3/4	115.36	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,334.65	11	1,026.74	11	725.22	11	417.09	11	108.97	11		11	11	11	11	11	11	11	11	11
1 1/4	1,328.23	1 1/4	1,020.33	1 1/4	718.80	1 1/4	410.67	1 1/4	102.58	1 1/4		1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
1 1/2	1,321.82	1 1/2	1,013.91	1 1/2	712.38	1 1/2	404.25	1 1/2	96.19	1 1/2		1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
3/4	1,315.40	3/4	1,007.50	3/4	705.96	3/4	397.83	3/4	89.80	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

RESTRAPPED: 05/03/2019 JS  
 RECALCULATED: 05/04/2019 CL  
 REPRINTED: 09/19/2019 CL

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 08/2019

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



# BARGE "HFL 100"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 16'-02 1/2"

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	4,136.40	0	3,880.61	0	3,584.89	0	3,269.26	0	2,973.64	0	2,678.02	0	2,382.40	0	2,086.77	0	1,791.15	
1/4	1/4	4,136.35	1/4	3,884.35	1/4	3,588.73	1/4	3,263.10	1/4	2,967.48	1/4	2,671.86	1/4	2,376.24	1/4	2,080.61	1/4	1,784.99	
1/2	1/2	4,134.30	1/2	3,888.19	1/2	3,582.57	1/2	3,256.95	1/2	2,961.32	1/2	2,665.70	1/2	2,370.08	1/2	2,074.46	1/2	1,778.83	
3/4	3/4	4,130.19	3/4	3,842.03	3/4	3,546.41	3/4	3,250.79	3/4	2,955.16	3/4	2,659.54	3/4	2,363.92	3/4	2,068.30	3/4	1,772.67	
1	1	4,126.09	1	3,835.87	1	3,540.25	1	3,244.63	1	2,949.01	1	2,653.38	1	2,357.76	1	2,062.14	1	1,766.52	
1/4	1/4	4,121.98	1/4	3,829.71	1/4	3,534.09	1/4	3,238.47	1/4	2,943.39	1/4	2,647.22	1/4	2,351.60	1/4	2,055.98	1/4	1,760.36	
1/2	1/2	4,117.87	1/2	3,823.55	1/2	3,527.93	1/2	3,232.31	1/2	2,936.69	1/2	2,641.07	1/2	2,345.44	1/2	2,049.82	1/2	1,754.20	
3/4	3/4	4,112.01	3/4	3,817.40	3/4	3,521.77	3/4	3,226.15	3/4	2,930.53	3/4	2,634.91	3/4	2,339.28	3/4	2,043.66	3/4	1,748.04	
2	2	4,106.14	2	3,811.24	2	3,515.61	2	3,219.99	2	2,924.37	2	2,628.75	2	2,333.13	2	2,037.50	2	1,741.88	
1/4	1/4	4,100.27	1/4	3,805.08	1/4	3,509.46	1/4	3,213.83	1/4	2,918.21	1/4	2,622.59	1/4	2,326.97	1/4	2,031.34	1/4	1,735.72	
1/2	1/2	4,094.40	1/2	3,798.92	1/2	3,503.30	1/2	3,207.67	1/2	2,912.05	1/2	2,616.43	1/2	2,320.81	1/2	2,025.19	1/2	1,729.56	
3/4	3/4	4,088.27	3/4	3,792.76	3/4	3,497.14	3/4	3,201.52	3/4	2,905.89	3/4	2,610.27	3/4	2,314.65	3/4	2,019.03	3/4	1,723.40	
3	3	4,082.14	3	3,786.60	3	3,490.98	3	3,195.36	3	2,899.73	3	2,604.11	3	2,308.49	3	2,012.87	3	1,717.25	
1/4	1/4	4,076.01	1/4	3,780.44	1/4	3,484.82	1/4	3,189.20	1/4	2,893.58	1/4	2,597.95	1/4	2,302.33	1/4	2,006.71	1/4	1,711.09	
1/2	1/2	4,069.88	1/2	3,774.28	1/2	3,478.66	1/2	3,183.04	1/2	2,887.42	1/2	2,591.79	1/2	2,296.17	1/2	2,000.55	1/2	1,704.93	
3/4	3/4	4,063.73	3/4	3,768.13	3/4	3,472.50	3/4	3,177.88	3/4	2,881.26	3/4	2,585.64	3/4	2,290.01	3/4	1,994.38	3/4	1,698.77	
4	4	4,057.57	4	3,761.97	4	3,466.34	4	3,170.72	4	2,875.10	4	2,579.48	4	2,283.85	4	1,988.23	4	1,692.61	
1/4	1/4	4,051.42	1/4	3,755.81	1/4	3,460.19	1/4	3,164.56	1/4	2,868.94	1/4	2,573.32	1/4	2,277.70	1/4	1,982.07	1/4	1,686.45	
1/2	1/2	4,045.27	1/2	3,749.65	1/2	3,454.03	1/2	3,158.40	1/2	2,862.78	1/2	2,567.18	1/2	2,271.54	1/2	1,975.91	1/2	1,680.29	
3/4	3/4	4,039.11	3/4	3,743.49	3/4	3,447.87	3/4	3,152.25	3/4	2,856.62	3/4	2,561.00	3/4	2,265.38	3/4	1,969.76	3/4	1,674.13	
5	5	4,032.95	5	3,737.33	5	3,441.71	5	3,146.09	5	2,850.46	5	2,554.84	5	2,259.22	5	1,963.60	5	1,667.97	
1/4	1/4	4,026.80	1/4	3,731.17	1/4	3,435.55	1/4	3,139.93	1/4	2,844.31	1/4	2,548.68	1/4	2,253.06	1/4	1,957.44	1/4	1,661.82	
1/2	1/2	4,020.64	1/2	3,725.01	1/2	3,429.39	1/2	3,133.77	1/2	2,838.15	1/2	2,542.52	1/2	2,246.90	1/2	1,951.28	1/2	1,655.66	
3/4	3/4	4,014.48	3/4	3,718.86	3/4	3,423.23	3/4	3,127.61	3/4	2,831.99	3/4	2,536.37	3/4	2,240.74	3/4	1,945.12	3/4	1,649.50	
6	6	4,008.32	6	3,712.70	6	3,417.07	6	3,121.45	6	2,825.83	6	2,530.21	6	2,234.58	6	1,938.96	6	1,643.34	
1/4	1/4	4,002.16	1/4	3,706.54	1/4	3,410.92	1/4	3,115.29	1/4	2,819.67	1/4	2,524.05	1/4	2,228.43	1/4	1,932.80	1/4	1,637.18	
1/2	1/2	3,996.00	1/2	3,700.38	1/2	3,404.76	1/2	3,109.13	1/2	2,813.51	1/2	2,517.89	1/2	2,222.27	1/2	1,926.64	1/2	1,631.02	
3/4	3/4	3,989.84	3/4	3,694.22	3/4	3,398.60	3/4	3,102.98	3/4	2,807.35	3/4	2,511.73	3/4	2,216.11	3/4	1,920.49	3/4	1,624.86	
7	7	3,983.68	7	3,688.06	7	3,392.44	7	3,096.82	7	2,801.19	7	2,505.57	7	2,209.95	7	1,914.33	7	1,618.70	
1/4	1/4	3,977.52	1/4	3,681.90	1/4	3,386.28	1/4	3,090.66	1/4	2,795.04	1/4	2,499.41	1/4	2,203.79	1/4	1,908.17	1/4	1,612.55	
1/2	1/2	3,971.37	1/2	3,675.74	1/2	3,380.12	1/2	3,084.50	1/2	2,788.88	1/2	2,493.25	1/2	2,197.63	1/2	1,902.01	1/2	1,606.39	
3/4	3/4	3,965.21	3/4	3,669.58	3/4	3,373.96	3/4	3,078.34	3/4	2,782.72	3/4	2,487.10	3/4	2,191.47	3/4	1,895.85	3/4	1,600.23	
8	8	3,959.05	8	3,663.43	8	3,367.80	8	3,072.18	8	2,776.58	8	2,480.94	8	2,185.31	8	1,889.69	8	1,594.07	
1/4	1/4	3,952.89	1/4	3,657.27	1/4	3,361.64	1/4	3,066.02	1/4	2,770.40	1/4	2,474.78	1/4	2,179.16	1/4	1,883.53	1/4	1,587.91	
1/2	1/2	3,946.73	1/2	3,651.11	1/2	3,355.49	1/2	3,059.86	1/2	2,764.24	1/2	2,468.62	1/2	2,173.00	1/2	1,877.37	1/2	1,581.75	
3/4	3/4	3,940.57	3/4	3,644.95	3/4	3,349.33	3/4	3,053.70	3/4	2,758.08	3/4	2,462.46	3/4	2,166.84	3/4	1,871.22	3/4	1,575.59	
9	9	3,934.41	9	3,638.79	9	3,343.17	9	3,047.55	9	2,751.92	9	2,456.30	9	2,160.68	9	1,865.06	9	1,569.43	
1/4	1/4	3,928.25	1/4	3,632.63	1/4	3,337.01	1/4	3,041.39	1/4	2,745.76	1/4	2,450.14	1/4	2,154.52	1/4	1,858.90	1/4	1,563.28	
1/2	1/2	3,922.10	1/2	3,626.47	1/2	3,330.85	1/2	3,035.23	1/2	2,739.61	1/2	2,443.98	1/2	2,148.36	1/2	1,852.74	1/2	1,557.12	
3/4	3/4	3,915.94	3/4	3,620.31	3/4	3,324.69	3/4	3,029.07	3/4	2,733.45	3/4	2,437.82	3/4	2,142.20	3/4	1,846.58	3/4	1,550.96	
10	10	3,909.78	10	3,614.16	10	3,318.53	10	3,022.91	10	2,727.29	10	2,431.67	10	2,136.04	10	1,840.42	10	1,544.80	
1/4	1/4	3,903.62	1/4	3,608.00	1/4	3,312.37	1/4	3,016.75	1/4	2,721.13	1/4	2,425.51	1/4	2,129.88	1/4	1,834.26	1/4	1,538.64	
1/2	1/2	3,897.46	1/2	3,601.84	1/2	3,306.22	1/2	3,010.59	1/2	2,714.97	1/2	2,419.35	1/2	2,123.73	1/2	1,828.10	1/2	1,532.48	
3/4	3/4	3,891.30	3/4	3,595.68	3/4	3,300.06	3/4	3,004.43	3/4	2,708.81	3/4	2,413.19	3/4	2,117.57	3/4	1,821.94	3/4	1,526.32	
11	11	3,885.14	11	3,589.52	11	3,293.90	11	2,998.28	11	2,702.65	11	2,407.03	11	2,111.41	11	1,815.79	11	1,520.16	
1/4	1/4	3,878.98	1/4	3,583.36	1/4	3,287.74	1/4	2,992.12	1/4	2,696.49	1/4	2,400.87	1/4	2,105.25	1/4	1,809.63	1/4	1,514.00	
1/2	1/2	3,872.83	1/2	3,577.20	1/2	3,281.58	1/2	2,985.96	1/2	2,690.34	1/2	2,394.71	1/2	2,099.09	1/2	1,803.47	1/2	1,507.85	
3/4	3/4	3,866.67	3/4	3,571.04	3/4	3,275.42	3/4	2,979.80	3/4	2,684.18	3/4	2,388.55	3/4	2,092.93	3/4	1,797.31	3/4	1,501.69	

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 TO TOP OF 2" DIAMETER "HERMETIC" VALVE  
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD

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



# BARGE "HFL 100"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-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	1,495.53	0	1,199.91	0	905.28	0	615.39	0	319.78	0	27.29	0		0					
1/4	1,489.37	1/4	1,193.75	1/4	899.29	1/4	609.23	1/4	313.62	1/4	22.17	1/4		1/4		1/4		1/4	
1/2	1,483.21	1/2	1,187.59	1/2	893.30	1/2	603.07	1/2	307.46	1/2	17.05	1/2		1/2		1/2		1/2	
3/4	1,477.05	3/4	1,181.43	3/4	887.31	3/4	596.91	3/4	301.30	3/4	13.97	3/4		3/4		3/4		3/4	
1	1,470.89	1	1,175.27	1	881.32	1	590.76	1	295.14	1	10.89	1		1		1		1	
1 1/4	1,464.73	1 1/4	1,169.11	1 1/4	875.33	1 1/4	584.60	1 1/4	288.98	1 1/4	7.81	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,458.58	1 1/2	1,162.95	1 1/2	869.34	1 1/2	578.44	1 1/2	282.83	1 1/2	4.73	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,452.42	3/4	1,156.79	3/4	863.35	3/4	572.28	3/4	276.67	3/4	3.71	3/4		3/4		3/4		3/4	
2	1,446.26	2	1,150.64	2	857.36	2	566.12	2	270.51	2	2.68	2		2		2		2	
1 1/4	1,440.10	1 1/4	1,144.48	1 1/4	851.37	1 1/4	559.96	1 1/4	264.35	1 1/4	1.65	1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,433.94	1 1/2	1,138.32	1 1/2	845.38	1 1/2	553.80	1 1/2	258.19	1 1/2	0.63	1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,427.78	3/4	1,132.16	3/4	839.39	3/4	547.65	3/4	252.03	3/4		3/4		3/4		3/4		3/4	
3	1,421.62	3	1,126.00	3	833.40	3	541.49	3	245.87	3		3		3		3		3	
1 1/4	1,415.46	1 1/4	1,119.84	1 1/4	827.41	1 1/4	535.33	1 1/4	239.72	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,409.31	1 1/2	1,113.68	1 1/2	821.42	1 1/2	529.17	1 1/2	233.56	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,403.15	3/4	1,107.52	3/4	815.43	3/4	523.01	3/4	227.40	3/4		3/4		3/4		3/4		3/4	
4	1,396.99	4	1,101.37	4	809.44	4	516.85	4	221.24	4	4	4		4		4		4	
1 1/4	1,390.83	1 1/4	1,095.21	1 1/4	803.45	1 1/4	510.69	1 1/4	215.08	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,384.67	1 1/2	1,089.05	1 1/2	797.46	1 1/2	504.54	1 1/2	208.92	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,378.51	3/4	1,082.89	3/4	791.47	3/4	498.38	3/4	202.76	3/4		3/4		3/4		3/4		3/4	
5	1,372.35	5	1,076.73	5	785.47	5	492.22	5	196.61	5		5		5		5		5	
1 1/4	1,366.19	1 1/4	1,070.57	1 1/4	779.48	1 1/4	486.06	1 1/4	190.45	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,360.03	1 1/2	1,064.41	1 1/2	773.49	1 1/2	479.90	1 1/2	184.29	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,353.88	3/4	1,058.25	3/4	767.50	3/4	473.74	3/4	178.13	3/4		3/4		3/4		3/4		3/4	
6	1,347.72	6	1,052.09	6	761.51	6	467.58	6	171.97	6		6		6		6		6	
1 1/4	1,341.56	1 1/4	1,045.94	1 1/4	755.52	1 1/4	461.43	1 1/4	165.82	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,335.40	1 1/2	1,039.78	1 1/2	749.53	1 1/2	455.27	1 1/2	159.66	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,329.24	3/4	1,033.62	3/4	743.54	3/4	449.11	3/4	153.51	3/4		3/4		3/4		3/4		3/4	
7	1,323.08	7	1,027.46	7	737.55	7	442.95	7	147.36	7		7		7		7		7	
1 1/4	1,316.92	1 1/4	1,021.30	1 1/4	731.56	1 1/4	436.79	1 1/4	141.20	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,310.76	1 1/2	1,015.14	1 1/2	725.57	1 1/2	430.63	1 1/2	135.05	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,304.61	3/4	1,008.98	3/4	719.58	3/4	424.47	3/4	128.91	3/4		3/4		3/4		3/4		3/4	
8	1,298.45	8	1,002.82	8	713.59	8	418.32	8	122.77	8		8		8		8		8	
1 1/4	1,292.29	1 1/4	996.67	1 1/4	707.60	1 1/4	412.16	1 1/4	116.63	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,286.13	1 1/2	990.51	1 1/2	701.61	1 1/2	406.00	1 1/2	110.49	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,279.97	3/4	984.35	3/4	695.45	3/4	399.84	3/4	104.37	3/4		3/4		3/4		3/4		3/4	
9	1,273.81	9	978.19	9	689.29	9	393.68	9	98.25	9		9		9		9		9	
1 1/4	1,267.65	1 1/4	972.03	1 1/4	683.13	1 1/4	387.52	1 1/4	92.13	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,261.49	1 1/2	965.87	1 1/2	676.98	1 1/2	381.36	1 1/2	86.01	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,255.34	3/4	959.71	3/4	670.82	3/4	375.20	3/4	79.93	3/4		3/4		3/4		3/4		3/4	
10	1,249.18	10	953.55	10	664.66	10	369.05	10	73.84	10		10		10		10		10	
1 1/4	1,243.02	1 1/4	947.40	1 1/4	658.50	1 1/4	362.89	1 1/4	67.75	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,236.86	1 1/2	941.24	1 1/2	652.34	1 1/2	356.73	1 1/2	61.67	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,230.70	3/4	935.24	3/4	646.18	3/4	350.57	3/4	55.53	3/4		3/4		3/4		3/4		3/4	
11	1,224.54	11	929.25	11	640.02	11	344.41	11	49.60	11		11		11		11		11	
1 1/4	1,218.38	1 1/4	923.26	1 1/4	633.87	1 1/4	338.25	1 1/4	43.57	1 1/4		1 1/4		1 1/4		1 1/4		1 1/4	
1 1/2	1,212.22	1 1/2	917.27	1 1/2	627.71	1 1/2	332.09	1 1/2	37.54	1 1/2		1 1/2		1 1/2		1 1/2		1 1/2	
3/4	1,206.06	3/4	911.28	3/4	621.55	3/4	325.94	3/4	32.42	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

RESTRAPPED: 06/03/2019 JS  
RECALCULATED: 05/04/2019 CL  
REPRINTED: 08/18/2019 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 03/2019

PRECISION MEASUREMENT  
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# BARGE "HFL 100"

# 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	
0	0	4,116.31	0	3,844.54	0	3,551.09	0	3,257.64	0	2,964.18	0	2,670.73	0	2,377.28	0	2,083.83	0	1,790.37		
1/4	1/4	4,114.27	1/4	3,838.43	1/4	3,544.98	1/4	3,251.52	1/4	2,958.07	1/4	2,664.62	1/4	2,371.16	1/4	2,077.71	1/4	1,784.26		
1/2	1/2	4,112.23	1/2	3,832.32	1/2	3,538.86	1/2	3,245.41	1/2	2,951.96	1/2	2,658.50	1/2	2,365.05	1/2	2,071.60	1/2	1,778.15		
3/4	3/4	4,110.20	3/4	3,826.20	3/4	3,532.75	3/4	3,239.30	3/4	2,945.84	3/4	2,652.39	3/4	2,358.54	3/4	2,065.48	3/4	1,772.03		
1	1	4,106.12	1	3,820.09	1	3,526.64	1	3,233.18	1	2,939.73	1	2,646.28	1	2,352.82	1	2,059.37	1	1,765.92		
1/4	1/4	4,102.04	1/4	3,813.97	1/4	3,520.52	1/4	3,227.07	1/4	2,933.62	1/4	2,640.16	1/4	2,346.71	1/4	2,053.26	1/4	1,759.80		
1/2	1/2	4,097.97	1/2	3,807.86	1/2	3,514.41	1/2	3,220.96	1/2	2,927.50	1/2	2,634.05	1/2	2,340.80	1/2	2,047.14	1/2	1,753.69		
3/4	3/4	4,093.89	3/4	3,801.75	3/4	3,508.29	3/4	3,214.84	3/4	2,921.39	3/4	2,627.94	3/4	2,334.48	3/4	2,041.03	3/4	1,747.58		
2	2	4,088.07	2	3,795.63	2	3,502.18	2	3,208.73	2	2,915.28	2	2,621.82	2	2,328.37	2	2,034.92	2	1,741.46		
1/4	1/4	4,082.24	1/4	3,789.52	1/4	3,496.07	1/4	3,202.61	1/4	2,909.16	1/4	2,615.71	1/4	2,322.26	1/4	2,028.80	1/4	1,735.35		
1/2	1/2	4,076.42	1/2	3,783.41	1/2	3,489.95	1/2	3,196.50	1/2	2,903.05	1/2	2,609.60	1/2	2,316.14	1/2	2,022.69	1/2	1,729.24		
3/4	3/4	4,070.59	3/4	3,777.29	3/4	3,483.84	3/4	3,190.39	3/4	2,896.93	3/4	2,603.48	3/4	2,310.03	3/4	2,016.58	3/4	1,723.12		
3	3	4,064.51	3	3,771.18	3	3,477.73	3	3,184.27	3	2,890.82	3	2,597.37	3	2,303.92	3	2,010.46	3	1,717.01		
1/4	1/4	4,058.42	1/4	3,765.07	1/4	3,471.61	1/4	3,178.16	1/4	2,884.71	1/4	2,591.25	1/4	2,297.80	1/4	2,004.35	1/4	1,710.90		
1/2	1/2	4,052.33	1/2	3,758.95	1/2	3,465.50	1/2	3,172.05	1/2	2,878.59	1/2	2,585.14	1/2	2,291.69	1/2	1,998.24	1/2	1,704.78		
3/4	3/4	4,046.25	3/4	3,752.84	3/4	3,459.39	3/4	3,165.93	3/4	2,872.48	3/4	2,579.03	3/4	2,285.57	3/4	1,992.12	3/4	1,698.67		
4	4	4,040.14	4	3,746.72	4	3,453.27	4	3,159.82	4	2,866.37	4	2,572.91	4	2,279.46	4	1,986.01	4	1,692.56		
1/4	1/4	4,034.04	1/4	3,740.61	1/4	3,447.16	1/4	3,153.71	1/4	2,860.26	1/4	2,566.80	1/4	2,273.35	1/4	1,979.89	1/4	1,686.44		
1/2	1/2	4,027.94	1/2	3,734.50	1/2	3,441.04	1/2	3,147.59	1/2	2,854.14	1/2	2,560.69	1/2	2,267.23	1/2	1,973.78	1/2	1,680.33		
3/4	3/4	4,021.84	3/4	3,728.38	3/4	3,434.93	3/4	3,141.48	3/4	2,848.03	3/4	2,554.57	3/4	2,261.12	3/4	1,967.67	3/4	1,674.21		
5	5	4,015.72	5	3,722.27	5	3,428.82	5	3,135.36	5	2,841.91	5	2,548.46	5	2,255.01	5	1,961.55	5	1,668.10		
1/4	1/4	4,009.61	1/4	3,716.16	1/4	3,422.70	1/4	3,129.25	1/4	2,835.80	1/4	2,542.35	1/4	2,248.89	1/4	1,955.44	1/4	1,661.99		
1/2	1/2	4,003.50	1/2	3,710.04	1/2	3,416.59	1/2	3,123.14	1/2	2,829.68	1/2	2,536.23	1/2	2,242.78	1/2	1,949.33	1/2	1,655.87		
3/4	3/4	3,997.38	3/4	3,703.93	3/4	3,410.48	3/4	3,117.02	3/4	2,823.57	3/4	2,530.12	3/4	2,236.87	3/4	1,943.21	3/4	1,649.76		
6	6	3,991.27	6	3,697.82	6	3,404.36	6	3,110.91	6	2,817.46	6	2,524.00	6	2,230.55	6	1,937.10	6	1,643.65		
1/4	1/4	3,985.16	1/4	3,691.70	1/4	3,398.25	1/4	3,104.80	1/4	2,811.34	1/4	2,517.89	1/4	2,224.44	1/4	1,930.99	1/4	1,637.53		
1/2	1/2	3,979.04	1/2	3,685.59	1/2	3,392.14	1/2	3,098.68	1/2	2,805.23	1/2	2,511.78	1/2	2,218.32	1/2	1,924.87	1/2	1,631.42		
3/4	3/4	3,972.93	3/4	3,679.48	3/4	3,386.02	3/4	3,092.57	3/4	2,799.12	3/4	2,505.66	3/4	2,212.21	3/4	1,918.76	3/4	1,625.31		
7	7	3,966.81	7	3,673.36	7	3,379.91	7	3,086.46	7	2,793.00	7	2,499.55	7	2,206.10	7	1,912.64	7	1,619.19		
1/4	1/4	3,960.70	1/4	3,667.25	1/4	3,373.80	1/4	3,080.34	1/4	2,786.89	1/4	2,493.44	1/4	2,199.98	1/4	1,906.53	1/4	1,613.08		
1/2	1/2	3,954.59	1/2	3,661.13	1/2	3,367.68	1/2	3,074.23	1/2	2,780.78	1/2	2,487.32	1/2	2,193.87	1/2	1,900.42	1/2	1,606.96		
3/4	3/4	3,948.47	3/4	3,655.02	3/4	3,361.57	3/4	3,068.12	3/4	2,774.66	3/4	2,481.21	3/4	2,187.76	3/4	1,894.30	3/4	1,600.85		
8	8	3,942.38	8	3,648.91	8	3,358.45	8	3,062.00	8	2,768.55	8	2,475.10	8	2,181.84	8	1,888.19	8	1,594.74		
1/4	1/4	3,936.25	1/4	3,642.79	1/4	3,349.34	1/4	3,055.89	1/4	2,762.44	1/4	2,468.98	1/4	2,175.53	1/4	1,882.08	1/4	1,588.62		
1/2	1/2	3,930.13	1/2	3,636.68	1/2	3,343.23	1/2	3,049.77	1/2	2,756.32	1/2	2,462.87	1/2	2,169.42	1/2	1,875.96	1/2	1,582.51		
3/4	3/4	3,924.02	3/4	3,630.57	3/4	3,337.11	3/4	3,043.66	3/4	2,750.21	3/4	2,456.76	3/4	2,163.30	3/4	1,869.85	3/4	1,576.40		
9	9	3,917.91	9	3,624.45	9	3,331.00	9	3,037.55	9	2,744.09	9	2,450.64	9	2,157.19	9	1,863.74	9	1,570.28		
1/4	1/4	3,911.79	1/4	3,618.34	1/4	3,324.89	1/4	3,031.43	1/4	2,737.98	1/4	2,444.53	1/4	2,151.08	1/4	1,857.62	1/4	1,564.17		
1/2	1/2	3,905.68	1/2	3,612.23	1/2	3,318.77	1/2	3,025.32	1/2	2,731.87	1/2	2,438.41	1/2	2,144.96	1/2	1,851.51	1/2	1,558.08		
3/4	3/4	3,899.56	3/4	3,606.11	3/4	3,312.66	3/4	3,019.21	3/4	2,725.75	3/4	2,432.30	3/4	2,138.85	3/4	1,845.40	3/4	1,551.94		
10	10	3,893.45	10	3,600.00	10	3,306.55	10	3,013.09	10	2,719.64	10	2,426.19	10	2,132.73	10	1,839.28	10	1,545.83		
1/4	1/4	3,887.34	1/4	3,593.88	1/4	3,300.43	1/4	3,008.98	1/4	2,713.53	1/4	2,420.07	1/4	2,126.82	1/4	1,833.17	1/4	1,539.72		
1/2	1/2	3,881.22	1/2	3,587.77	1/2	3,294.32	1/2	3,000.87	1/2	2,707.41	1/2	2,413.96	1/2	2,120.51	1/2	1,827.05	1/2	1,533.60		
3/4	3/4	3,875.11	3/4	3,581.66	3/4	3,288.20	3/4	2,994.75	3/4	2,701.30	3/4	2,407.85	3/4	2,114.39	3/4	1,820.94	3/4	1,527.49		
11	11	3,869.00	11	3,575.54	11	3,282.09	11	2,988.64	11	2,695.19	11	2,401.73	11	2,108.28	11	1,814.83	11	1,521.37		
1/4	1/4	4,119.37	1/4	3,862.88	1/4	3,569.43	1/4	3,275.98	1/4	2,982.52	1/4	2,689.07	1/4	2,395.62	1/4	2,102.17	1/4	1,808.71	1/4	1,515.26
1/2	1/2	4,118.86	1/2	3,856.77	1/2	3,563.32	1/2	3,269.86	1/2	2,976.41	1/2	2,682.96	1/2	2,389.51	1/2	2,096.05	1/2	1,802.60	1/2	1,509.15
3/4	3/4	4,118.35	3/4	3,850.66	3/4	3,557.20	3/4	3,263.75	3/4	2,970.30	3/4	2,676.84	3/4	2,383.39	3/4	2,089.94	3/4	1,796.49	3/4	1,503.03

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 TO TOP OF 2" DIAMETER "HERMETIC" VALVE  
GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD

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



# BARGE "HFL 100"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,486.92	0	1,203.47	0	910.06	0	616.58	0	323.54	0	32.18	0		0					
1/4	1,480.81	1/4	1,197.35	1/4	903.95	1/4	610.87	1/4	317.43	1/4	27.10	1/4		1/4					1/4
1/2	1,484.69	1/2	1,191.24	1/2	897.85	1/2	604.76	1/2	311.32	1/2	22.01	1/2		1/2					1/2
3/4	1,478.58	3/4	1,185.13	3/4	891.75	3/4	598.64	3/4	305.20	3/4	16.93	3/4		3/4					3/4
1	1,472.47	1	1,179.01	1	885.65	1	592.53	1	299.09	1	13.87	1		1					1
1 1/4	1,466.35	1 1/4	1,172.90	1 1/4	879.54	1 1/4	586.42	1 1/4	292.98	1 1/4	10.81	1 1/4		1 1/4					1 1/4
1 1/2	1,460.24	1 1/2	1,166.79	1 1/2	873.44	1 1/2	580.30	1 1/2	286.86	1 1/2	7.76	1 1/2		1 1/2					1 1/2
3/4	1,454.12	3/4	1,160.67	3/4	867.34	3/4	574.19	3/4	280.75	3/4	4.70	3/4		3/4					3/4
2	1,448.01	2	1,154.56	2	861.23	2	568.08	2	274.64	2	3.68	2		2					2
2 1/4	1,441.90	2 1/4	1,148.44	2 1/4	855.13	2 1/4	561.96	2 1/4	268.52	2 1/4	2.66	2 1/4		2 1/4					2 1/4
1/2	1,435.78	1/2	1,142.33	1/2	849.03	1/2	555.85	1/2	262.41	1/2	1.64	1/2		1/2					1/2
3/4	1,429.67	3/4	1,136.22	3/4	842.93	3/4	549.74	3/4	256.30	3/4	0.62	3/4		3/4					3/4
3	1,423.56	3	1,130.10	3	836.82	3	543.62	3	250.19	3		3		3					3
1 1/4	1,417.44	1 1/4	1,123.99	1 1/4	830.72	1 1/4	537.51	1 1/4	244.07	1 1/4		1 1/4		1 1/4					1 1/4
1 1/2	1,411.33	1 1/2	1,117.88	1 1/2	824.62	1 1/2	531.40	1 1/2	237.95	1 1/2		1 1/2		1 1/2					1 1/2
3/4	1,405.22	3/4	1,111.76	3/4	818.51	3/4	525.28	3/4	231.85	3/4		3/4		3/4					3/4
4	1,399.10	4	1,105.65	4	812.41	4	519.17	4	225.73	4		4		4					4
1 1/4	1,392.99	1 1/4	1,099.54	1 1/4	806.31	1 1/4	513.06	1 1/4	219.62	1 1/4		1 1/4		1 1/4					1 1/4
1/2	1,386.88	1/2	1,093.42	1/2	800.21	1/2	506.94	1/2	213.51	1/2		1/2		1/2					1/2
3/4	1,380.76	3/4	1,087.31	3/4	794.10	3/4	500.83	3/4	207.39	3/4		3/4		3/4					3/4
5	1,374.65	5	1,081.20	5	788.00	5	494.72	5	201.28	5		5		5					5
1 1/4	1,368.53	1 1/4	1,075.08	1 1/4	781.90	1 1/4	488.60	1 1/4	195.17	1 1/4		1 1/4		1 1/4					1 1/4
1 1/2	1,362.42	1 1/2	1,068.97	1 1/2	775.79	1 1/2	482.49	1 1/2	189.05	1 1/2		1 1/2		1 1/2					1 1/2
3/4	1,356.31	3/4	1,062.85	3/4	769.69	3/4	476.38	3/4	182.94	3/4		3/4		3/4					3/4
6	1,350.19	6	1,056.74	6	763.59	6	470.26	6	176.83	6		6		6					6
1 1/4	1,344.08	1 1/4	1,050.63	1 1/4	757.48	1 1/4	464.15	1 1/4	170.72	1 1/4		1 1/4		1 1/4					1 1/4
1 1/2	1,337.97	1 1/2	1,044.51	1 1/2	751.38	1 1/2	458.04	1 1/2	164.60	1 1/2		1 1/2		1 1/2					1 1/2
3/4	1,331.85	3/4	1,038.40	3/4	745.28	3/4	451.92	3/4	158.49	3/4		3/4		3/4					3/4
7	1,325.74	7	1,032.29	7	739.18	7	445.81	7	152.38	7		7		7					7
1 1/4	1,319.63	1 1/4	1,026.17	1 1/4	733.07	1 1/4	439.70	1 1/4	146.28	1 1/4		1 1/4		1 1/4					1 1/4
1/2	1,313.51	1/2	1,020.06	1/2	726.97	1/2	433.58	1/2	140.17	1/2		1/2		1/2					1/2
3/4	1,307.40	3/4	1,013.95	3/4	720.87	3/4	427.47	3/4	134.06	3/4		3/4		3/4					3/4
8	1,301.28	8	1,007.83	8	714.76	8	421.36	8	127.97	8		8		8					8
1 1/4	1,295.17	1 1/4	1,001.72	1 1/4	708.66	1 1/4	415.24	1 1/4	121.87	1 1/4		1 1/4		1 1/4					1 1/4
1 1/2	1,289.06	1 1/2	995.60	1 1/2	702.56	1 1/2	409.13	1 1/2	115.78	1 1/2		1 1/2		1 1/2					1 1/2
3/4	1,282.94	3/4	989.49	3/4	696.46	3/4	403.02	3/4	109.68	3/4		3/4		3/4					3/4
9	1,276.83	9	983.38	9	690.34	9	396.90	9	103.61	9		9		9					9
1 1/4	1,270.72	1 1/4	977.26	1 1/4	684.23	1 1/4	390.79	1 1/4	97.54	1 1/4		1 1/4		1 1/4					1 1/4
1 1/2	1,264.60	1 1/2	971.15	1 1/2	678.12	1 1/2	384.68	1 1/2	91.46	1 1/2		1 1/2		1 1/2					1 1/2
3/4	1,258.49	3/4	965.04	3/4	672.00	3/4	378.56	3/4	85.39	3/4		3/4		3/4					3/4
10	1,252.38	10	958.92	10	665.89	10	372.45	10	79.34	10		10		10					10
1 1/4	1,246.26	1 1/4	952.81	1 1/4	659.78	1 1/4	366.34	1 1/4	73.30	1 1/4		1 1/4		1 1/4					1 1/4
1 1/2	1,240.15	1 1/2	946.70	1 1/2	653.66	1 1/2	360.22	1 1/2	67.26	1 1/2		1 1/2		1 1/2					1 1/2
3/4	1,234.04	3/4	940.58	3/4	647.55	3/4	354.11	3/4	61.22	3/4		3/4		3/4					3/4
11	1,227.92	11	934.48	11	641.44	11	348.00	11	55.23	11		11		11					11
1 1/4	1,221.81	1 1/4	928.37	1 1/4	635.32	1 1/4	341.88	1 1/4	49.24	1 1/4		1 1/4		1 1/4					1 1/4
1 1/2	1,215.69	1 1/2	922.27	1 1/2	629.21	1 1/2	335.77	1 1/2	43.25	1 1/2		1 1/2		1 1/2					1 1/2
3/4	1,209.58	3/4	916.17	3/4	623.10	3/4	329.65	3/4	37.27	3/4		3/4		3/4					3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

RESTRAPPED: 06/03/2019 JS  
 RECALCULATED: 06/04/2019 CL  
 REPRINTED: 08/19/2019 CL

CANCELS AND SUPERCEDES  
 ALL PRIOR TO 08/2019

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