



# BARGE "HFL 216S"

## 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 CENTER	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4
2 CENTER	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4
3 CENTER	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

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

LENGTH BETWEEN DRAFT MARKS: 162'-03"

June 17, 2021

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

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# BARGE "HFL 216S"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-09 1/4"

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	3,287.68	0	3,070.33	0	2,852.98	0	2,631.22	0	2,383.71	0	2,136.17	0	1,888.59	0	1,641.01		
1/4	1/4	1/4	1/4	1/4	3,283.15	1/4	3,065.80	1/4	2,848.45	1/4	2,626.06	1/4	2,378.56	1/4	2,131.02	1/4	1,883.43	1/4	1,635.85		
1/2	1/2	1/2	1/2	1/2	3,278.62	1/2	3,061.27	1/2	2,843.92	1/2	2,620.91	1/2	2,373.40	1/2	2,125.86	1/2	1,878.27	1/2	1,630.69		
3/4	3/4	3/4	3/4	3/4	3,274.09	3/4	3,056.74	3/4	2,839.40	3/4	2,615.75	3/4	2,368.25	3/4	2,120.70	3/4	1,873.12	3/4	1,625.53		
1	1	1	1	1	3,269.56	1	3,052.22	1	2,834.87	1	2,610.59	1	2,363.10	1	2,115.54	1	1,867.96	1	1,620.37		
1/4	1/4	1/4	1/4	1/4	3,265.04	1/4	3,047.69	1/4	2,830.34	1/4	2,605.44	1/4	2,357.94	1/4	2,110.38	1/4	1,862.80	1/4	1,615.22		
1/2	1/2	1/2	1/2	1/2	3,260.51	1/2	3,043.16	1/2	2,825.81	1/2	2,600.28	1/2	2,352.79	1/2	2,105.23	1/2	1,857.64	1/2	1,610.06		
3/4	3/4	3/4	3/4	3/4	3,450.85	3/4	3,255.98	3/4	3,038.63	3/4	2,821.28	3/4	2,595.12	3/4	2,347.63	3/4	2,100.07	3/4	1,852.48	3/4	1,604.90
2	2	2	2	2	3,251.45	2	3,034.10	2	2,816.75	2	2,589.96	2	2,342.48	2	2,094.91	2	1,847.33	2	1,599.74		
1/4	1/4	1/4	1/4	1/4	3,450.41	1/4	3,246.92	1/4	3,029.58	1/4	2,812.23	1/4	2,584.81	1/4	2,337.33	1/4	2,089.75	1/4	1,842.17	1/4	1,594.58
1/2	1/2	1/2	1/2	1/2	3,448.47	1/2	3,242.40	1/2	3,025.05	1/2	2,807.70	1/2	2,579.65	1/2	2,332.17	1/2	2,084.59	1/2	1,837.01	1/2	1,589.43
3/4	3/4	3/4	3/4	3/4	3,446.53	3/4	3,237.87	3/4	3,020.52	3/4	2,803.17	3/4	2,574.49	3/4	2,327.02	3/4	2,079.44	3/4	1,831.85	3/4	1,584.27
3	3	3	3	3	3,444.59	3	3,233.34	3	3,015.99	3	2,798.64	3	2,569.33	3	2,321.87	3	2,074.28	3	1,826.69	3	1,579.11
1/4	1/4	1/4	1/4	1/4	3,442.64	1/4	3,228.81	1/4	3,011.46	1/4	2,794.11	1/4	2,564.18	1/4	2,316.71	1/4	2,069.12	1/4	1,821.54	1/4	1,573.95
1/2	1/2	1/2	1/2	1/2	3,438.98	1/2	3,224.28	1/2	3,006.93	1/2	2,789.59	1/2	2,559.02	1/2	2,311.55	1/2	2,063.96	1/2	1,816.38	1/2	1,568.79
3/4	3/4	3/4	3/4	3/4	3,435.31	3/4	3,219.76	3/4	3,002.41	3/4	2,785.06	3/4	2,553.86	3/4	2,306.40	3/4	2,058.80	3/4	1,811.22	3/4	1,563.64
4	4	4	4	4	3,431.65	4	3,215.23	4	2,997.88	4	2,780.53	4	2,548.70	4	2,301.24	4	2,053.65	4	1,806.06	4	1,558.48
1/4	1/4	1/4	1/4	1/4	3,427.98	1/4	3,210.70	1/4	2,993.35	1/4	2,776.00	1/4	2,543.55	1/4	2,296.08	1/4	2,048.49	1/4	1,800.90	1/4	1,553.32
1/2	1/2	1/2	1/2	1/2	3,423.47	1/2	3,206.17	1/2	2,988.82	1/2	2,771.47	1/2	2,538.39	1/2	2,290.92	1/2	2,043.33	1/2	1,795.75	1/2	1,548.16
3/4	3/4	3/4	3/4	3/4	3,418.96	3/4	3,201.64	3/4	2,984.29	3/4	2,766.95	3/4	2,533.23	3/4	2,285.76	3/4	2,038.17	3/4	1,790.59	3/4	1,543.00
5	5	5	5	5	3,414.45	5	3,197.12	5	2,979.77	5	2,762.42	5	2,528.08	5	2,280.60	5	2,033.01	5	1,785.43	5	1,537.85
1/4	1/4	1/4	1/4	1/4	3,409.94	1/4	3,192.59	1/4	2,975.24	1/4	2,757.89	1/4	2,522.92	1/4	2,275.45	1/4	2,027.86	1/4	1,780.27	1/4	1,532.69
1/2	1/2	1/2	1/2	1/2	3,405.41	1/2	3,188.06	1/2	2,970.71	1/2	2,753.36	1/2	2,517.76	1/2	2,270.29	1/2	2,022.70	1/2	1,775.11	1/2	1,527.53
3/4	3/4	3/4	3/4	3/4	3,400.88	3/4	3,183.53	3/4	2,966.18	3/4	2,748.83	3/4	2,512.60	3/4	2,265.13	3/4	2,017.54	3/4	1,769.96	3/4	1,522.37
6	6	6	6	6	3,396.35	6	3,179.00	6	2,961.65	6	2,744.31	6	2,507.45	6	2,259.97	6	2,012.38	6	1,764.80	6	1,517.21
1/4	1/4	1/4	1/4	1/4	3,391.82	1/4	3,174.47	1/4	2,957.13	1/4	2,739.78	1/4	2,502.29	1/4	2,254.81	1/4	2,007.22	1/4	1,759.64	1/4	1,512.06
1/2	1/2	1/2	1/2	1/2	3,387.30	1/2	3,169.95	1/2	2,952.60	1/2	2,735.25	1/2	2,497.13	1/2	2,249.65	1/2	2,002.07	1/2	1,754.48	1/2	1,506.90
3/4	3/4	3/4	3/4	3/4	3,382.77	3/4	3,165.42	3/4	2,948.07	3/4	2,730.72	3/4	2,491.97	3/4	2,244.50	3/4	1,996.91	3/4	1,749.32	3/4	1,501.74
7	7	7	7	7	3,378.24	7	3,160.89	7	2,943.54	7	2,726.19	7	2,486.82	7	2,239.34	7	1,991.75	7	1,744.17	7	1,496.58
1/4	1/4	1/4	1/4	1/4	3,373.71	1/4	3,156.36	1/4	2,939.01	1/4	2,721.66	1/4	2,481.66	1/4	2,234.18	1/4	1,986.59	1/4	1,739.01	1/4	1,491.42
1/2	1/2	1/2	1/2	1/2	3,369.18	1/2	3,151.83	1/2	2,934.49	1/2	2,717.14	1/2	2,476.50	1/2	2,229.02	1/2	1,981.43	1/2	1,733.85	1/2	1,486.27
3/4	3/4	3/4	3/4	3/4	3,364.65	3/4	3,147.31	3/4	2,929.96	3/4	2,712.61	3/4	2,471.35	3/4	2,223.86	3/4	1,976.28	3/4	1,728.69	3/4	1,481.11
8	8	8	8	8	3,360.13	8	3,142.78	8	2,925.43	8	2,708.08	8	2,466.19	8	2,218.70	8	1,971.12	8	1,723.53	8	1,475.95
1/4	1/4	1/4	1/4	1/4	3,355.60	1/4	3,138.25	1/4	2,920.90	1/4	2,703.55	1/4	2,461.03	1/4	2,213.54	1/4	1,965.96	1/4	1,718.38	1/4	1,470.79
1/2	1/2	1/2	1/2	1/2	3,351.07	1/2	3,133.72	1/2	2,916.37	1/2	2,699.02	1/2	2,455.87	1/2	2,208.39	1/2	1,960.80	1/2	1,713.22	1/2	1,465.63
3/4	3/4	3/4	3/4	3/4	3,346.54	3/4	3,129.19	3/4	2,911.84	3/4	2,694.50	3/4	2,450.72	3/4	2,203.23	3/4	1,955.64	3/4	1,708.06	3/4	1,460.48
9	9	9	9	9	3,342.01	9	3,124.67	9	2,907.32	9	2,689.97	9	2,445.56	9	2,198.07	9	1,950.49	9	1,702.90	9	1,455.32
1/4	1/4	1/4	1/4	1/4	3,337.49	1/4	3,120.14	1/4	2,902.79	1/4	2,685.44	1/4	2,440.40	1/4	2,192.91	1/4	1,945.33	1/4	1,697.74	1/4	1,450.16
1/2	1/2	1/2	1/2	1/2	3,332.96	1/2	3,115.61	1/2	2,898.26	1/2	2,680.91	1/2	2,435.25	1/2	2,187.75	1/2	1,940.17	1/2	1,692.59	1/2	1,445.00
3/4	3/4	3/4	3/4	3/4	3,328.43	3/4	3,111.08	3/4	2,893.73	3/4	2,676.38	3/4	2,430.09	3/4	2,182.60	3/4	1,935.01	3/4	1,687.43	3/4	1,439.84
10	10	10	10	10	3,323.90	10	3,106.55	10	2,889.20	10	2,671.86	10	2,424.94	10	2,177.44	10	1,929.85	10	1,682.27	10	1,434.69
1/4	1/4	1/4	1/4	1/4	3,319.37	1/4	3,102.03	1/4	2,884.68	1/4	2,667.33	1/4	2,419.79	1/4	2,172.28	1/4	1,924.70	1/4	1,677.11	1/4	1,429.53
1/2	1/2	1/2	1/2	1/2	3,314.85	1/2	3,097.50	1/2	2,880.15	1/2	2,662.17	1/2	2,414.63	1/2	2,167.12	1/2	1,919.54	1/2	1,671.95	1/2	1,424.37
3/4	3/4	3/4	3/4	3/4	3,310.32	3/4	3,092.97	3/4	2,875.62	3/4	2,657.01	3/4	2,409.48	3/4	2,161.96	3/4	1,914.38	3/4	1,666.80	3/4	1,419.21
11	11	11	11	11	3,305.79	11	3,088.44	11	2,871.09	11	2,651.85	11	2,404.33	11	2,156.81	11	1,909.22	11	1,661.64	11	1,414.05
1/4	1/4	1/4	1/4	1/4	3,301.26	1/4	3,083.91	1/4	2,866.56	1/4	2,646.69	1/4	2,399.17	1/4	2,151.65	1/4	1,904.06	1/4	1,656.48	1/4	1,408.90
1/2	1/2	1/2	1/2	1/2	3,296.73	1/2	3,079.38	1/2	2,862.04	1/2	2,641.54	1/2	2,394.02	1/2	2,146.49	1/2	1,898.91	1/2	1,651.32	1/2	1,403.74
3/4	3/4	3/4	3/4	3/4	3,292.21	3/4	3,074.86	3/4	2,857.51	3/4	2,636.38	3/4	2,388.86	3/4	2,141.33	3/4	1,893.75	3/4	1,646.16	3/4	1,398.58

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 "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 25'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
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# BARGE "HFL 216S"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-09 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	1,393.42	0	1,145.84	0	898.26	0	650.55	0	406.15	0	160.99	0		0		0		0	
1/4	1,388.26	1/4	1,140.68	1/4	893.10	1/4	645.38	1/4	401.15	1/4	155.82	1/4		1/4		1/4		1/4	
1/2	1,383.11	1/2	1,135.52	1/2	887.94	1/2	640.21	1/2	396.15	1/2	150.65	1/2		1/2		1/2		1/2	
3/4	1,377.95	3/4	1,130.36	3/4	882.78	3/4	635.04	3/4	391.15	3/4	145.48	3/4		3/4		3/4		3/4	
1	1,372.79	1	1,125.21	1	877.62	1	877.62	1	386.15	1	140.31	1		1		1		1	
1/4	1,367.63	1/4	1,120.05	1/4	872.47	1/4	872.47	1/4	381.15	1/4	135.14	1/4		1/4		1/4		1/4	
1/2	1,362.47	1/2	1,114.89	1/2	867.31	1/2	867.31	1/2	376.12	1/2	129.97	1/2		1/2		1/2		1/2	
3/4	1,357.32	3/4	1,109.73	3/4	862.15	3/4	862.15	3/4	371.09	3/4	124.80	3/4		3/4		3/4		3/4	
2	1,352.16	2	1,104.57	2	856.99	2	856.99	2	366.06	2	119.62	2		2		2		2	
1/4	1,347.00	1/4	1,099.42	1/4	851.83	1/4	851.83	1/4	361.03	1/4	114.45	1/4		1/4		1/4		1/4	
1/2	1,341.84	1/2	1,094.26	1/2	846.68	1/2	846.68	1/2	356.00	1/2	109.28	1/2		1/2		1/2		1/2	
3/4	1,336.68	3/4	1,089.10	3/4	841.52	3/4	841.52	3/4	350.97	3/4	104.11	3/4		3/4		3/4		3/4	
3	1,331.53	3	1,083.94	3	836.36	3	836.36	3	345.93	3	98.94	3		3		3		3	
1/4	1,326.37	1/4	1,078.78	1/4	831.20	1/4	831.20	1/4	340.90	1/4	93.77	1/4		1/4		1/4		1/4	
1/2	1,321.21	1/2	1,073.63	1/2	826.04	1/2	826.04	1/2	335.79	1/2	88.60	1/2		1/2		1/2		1/2	
3/4	1,316.05	3/4	1,068.47	3/4	820.89	3/4	820.89	3/4	330.67	3/4	83.43	3/4		3/4		3/4		3/4	
4	1,310.89	4	1,063.31	4	815.73	4	815.73	4	325.56	4	78.26	4		4		4		4	
1/4	1,305.74	1/4	1,058.15	1/4	810.57	1/4	810.57	1/4	320.44	1/4	73.09	1/4		1/4		1/4		1/4	
1/2	1,300.58	1/2	1,052.99	1/2	805.41	1/2	805.41	1/2	315.32	1/2	67.93	1/2		1/2		1/2		1/2	
3/4	1,295.42	3/4	1,047.84	3/4	800.26	3/4	800.26	3/4	310.21	3/4	62.77	3/4		3/4		3/4		3/4	
5	1,290.26	5	1,042.68	5	795.10	5	795.10	5	305.09	5	57.62	5		5		5		5	
1/4	1,285.10	1/4	1,037.52	1/4	789.94	1/4	789.94	1/4	299.98	1/4	52.46	1/4		1/4		1/4		1/4	
1/2	1,279.95	1/2	1,032.36	1/2	784.78	1/2	784.78	1/2	294.84	1/2	47.33	1/2		1/2		1/2		1/2	
3/4	1,274.79	3/4	1,027.20	3/4	779.62	3/4	779.62	3/4	289.71	3/4	42.21	3/4		3/4		3/4		3/4	
6	1,269.63	6	1,022.05	6	774.47	6	774.47	6	284.57	6	37.08	6		6		6		6	
1/4	1,264.47	1/4	1,016.89	1/4	769.31	1/4	769.31	1/4	279.44	1/4	31.95	1/4		1/4		1/4		1/4	
1/2	1,259.31	1/2	1,011.73	1/2	764.15	1/2	764.15	1/2	274.30	1/2	27.65	1/2		1/2		1/2		1/2	
3/4	1,254.16	3/4	1,006.57	3/4	758.99	3/4	758.99	3/4	269.17	3/4	23.34	3/4		3/4		3/4		3/4	
7	1,249.00	7	1,001.41	7	753.83	7	753.83	7	264.03	7	19.03	7		7		7		7	
1/4	1,243.84	1/4	996.26	1/4	748.68	1/4	748.68	1/4	258.90	1/4	14.72	1/4		1/4		1/4		1/4	
1/2	1,238.68	1/2	991.10	1/2	743.52	1/2	743.52	1/2	253.78	1/2	12.14	1/2		1/2		1/2		1/2	
3/4	1,233.52	3/4	985.94	3/4	738.36	3/4	738.36	3/4	248.66	3/4	9.55	3/4		3/4		3/4		3/4	
8	1,228.37	8	980.78	8	733.20	8	733.20	8	243.54	8	6.97	8		8		8		8	
1/4	1,223.21	1/4	975.62	1/4	728.04	1/4	728.04	1/4	238.42	1/4	4.38	1/4		1/4		1/4		1/4	
1/2	1,218.05	1/2	970.47	1/2	722.89	1/2	722.89	1/2	233.29	1/2	3.52	1/2		1/2		1/2		1/2	
3/4	1,212.89	3/4	965.31	3/4	717.73	3/4	717.73	3/4	228.15	3/4	2.66	3/4		3/4		3/4		3/4	
9	1,207.73	9	960.15	9	712.57	9	712.57	9	223.01	9	1.80	9		9		9		9	
1/4	1,202.58	1/4	954.99	1/4	707.41	1/4	707.41	1/4	217.88	1/4	0.94	1/4		1/4		1/4		1/4	
1/2	1,197.42	1/2	949.83	1/2	702.24	1/2	702.24	1/2	212.70	1/2		1/2		1/2		1/2		1/2	
3/4	1,192.26	3/4	944.68	3/4	697.07	3/4	697.07	3/4	207.53	3/4		3/4		3/4		3/4		3/4	
10	1,187.10	10	939.52	10	691.90	10	691.90	10	202.36	10		10		10		10		10	
1/4	1,181.94	1/4	934.36	1/4	686.74	1/4	686.74	1/4	197.19	1/4		1/4		1/4		1/4		1/4	
1/2	1,176.79	1/2	929.20	1/2	681.57	1/2	681.57	1/2	192.02	1/2		1/2		1/2		1/2		1/2	
3/4	1,171.63	3/4	924.04	3/4	676.40	3/4	676.40	3/4	186.85	3/4		3/4		3/4		3/4		3/4	
11	1,166.47	11	918.89	11	671.23	11	671.23	11	181.68	11		11		11		11		11	
1/4	1,161.31	1/4	913.73	1/4	666.06	1/4	666.06	1/4	176.51	1/4		1/4		1/4		1/4		1/4	
1/2	1,156.15	1/2	908.57	1/2	660.89	1/2	660.89	1/2	171.34	1/2		1/2		1/2		1/2		1/2	
3/4	1,151.00	3/4	903.41	3/4	655.72	3/4	655.72	3/4	166.16	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/17/2021 CL  
CALCULATED: 06/17/2021 CL  
PRINTED: 06/17/2021 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021

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



# BARGE "HFL 216S"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-09 1/4"

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	3,776.01	0	3,498.80	0	3,221.59	0	2,944.38	0	2,667.17	0	2,389.96	0	2,112.75	0	1,835.54		
1/4		1/4		1/4	3,770.24	1/4	3,493.03	1/4	3,215.82	1/4	2,938.61	1/4	2,661.40	1/4	2,384.19	1/4	2,106.98	1/4	1,829.77		
1/2		1/2		1/2	3,764.46	1/2	3,487.25	1/2	3,210.04	1/2	2,932.83	1/2	2,655.62	1/2	2,378.41	1/2	2,101.20	1/2	1,823.99		
3/4		3/4		3/4	3,758.69	3/4	3,481.48	3/4	3,204.27	3/4	2,927.06	3/4	2,649.85	3/4	2,372.64	3/4	2,095.43	3/4	1,818.22		
1		1		1	3,752.91	1	3,475.70	1	3,198.49	1	2,921.28	1	2,644.07	1	2,366.86	1	2,089.65	1	1,812.44		
1/4		1/4		1/4	3,747.14	1/4	3,469.93	1/4	3,192.72	1/4	2,915.51	1/4	2,638.30	1/4	2,361.09	1/4	2,083.88	1/4	1,806.67		
1/2		1/2		1/2	3,741.36	1/2	3,464.15	1/2	3,186.94	1/2	2,909.73	1/2	2,632.52	1/2	2,355.31	1/2	2,078.10	1/2	1,800.89		
3/4		3/4		3/4	3,987.68	3/4	3,735.58	3/4	3,458.38	3/4	3,181.17	3/4	2,903.96	3/4	2,626.75	3/4	2,349.54	3/4	2,072.33	3/4	1,795.12
2		2		2	3,986.71	2	3,729.81	2	3,452.60	2	3,175.39	2	2,898.18	2	2,620.97	2	2,343.76	2	2,066.55	2	1,789.34
1/4		1/4		1/4	3,985.75	1/4	3,724.03	1/4	3,446.82	1/4	3,169.62	1/4	2,892.41	1/4	2,615.20	1/4	2,337.99	1/4	2,060.78	1/4	1,783.57
1/2		1/2		1/2	3,982.86	1/2	3,718.26	1/2	3,441.05	1/2	3,163.84	1/2	2,886.63	1/2	2,609.42	1/2	2,332.21	1/2	2,055.00	1/2	1,777.79
3/4		3/4		3/4	3,979.97	3/4	3,712.48	3/4	3,435.27	3/4	3,158.06	3/4	2,880.85	3/4	2,603.65	3/4	2,326.44	3/4	2,049.23	3/4	1,772.02
3		3		3	3,977.09	3	3,709.71	3	3,429.50	3	3,152.29	3	2,875.08	3	2,597.87	3	2,320.66	3	2,043.45	3	1,766.24
1/4		1/4		1/4	3,974.20	1/4	3,700.93	1/4	3,423.72	1/4	3,146.51	1/4	2,869.30	1/4	2,592.09	1/4	2,314.89	1/4	2,037.68	1/4	1,760.47
1/2		1/2		1/2	3,969.39	1/2	3,695.16	1/2	3,417.95	1/2	3,140.74	1/2	2,863.53	1/2	2,586.32	1/2	2,309.11	1/2	2,031.90	1/2	1,754.69
3/4		3/4		3/4	3,964.58	3/4	3,689.38	3/4	3,412.17	3/4	3,134.96	3/4	2,857.75	3/4	2,580.54	3/4	2,303.33	3/4	2,026.13	3/4	1,748.92
4		4		4	3,959.76	4	3,683.61	4	3,406.40	4	3,129.19	4	2,851.98	4	2,574.77	4	2,297.56	4	2,020.35	4	1,743.14
1/4		1/4		1/4	3,954.95	1/4	3,677.83	1/4	3,400.62	1/4	3,123.41	1/4	2,846.20	1/4	2,568.99	1/4	2,291.78	1/4	2,014.57	1/4	1,737.37
1/2		1/2		1/2	3,949.20	1/2	3,672.06	1/2	3,394.85	1/2	3,117.64	1/2	2,840.43	1/2	2,563.22	1/2	2,286.01	1/2	2,008.80	1/2	1,731.59
3/4		3/4		3/4	3,943.45	3/4	3,666.28	3/4	3,389.07	3/4	3,111.86	3/4	2,834.65	3/4	2,557.44	3/4	2,280.23	3/4	2,003.02	3/4	1,725.81
5		5		5	3,937.69	5	3,660.51	5	3,383.30	5	3,106.09	5	2,828.88	5	2,551.67	5	2,274.46	5	1,997.25	5	1,720.04
1/4		1/4		1/4	3,931.94	1/4	3,654.73	1/4	3,377.52	1/4	3,100.31	1/4	2,823.10	1/4	2,545.89	1/4	2,268.68	1/4	1,991.47	1/4	1,714.26
1/2		1/2		1/2	3,926.17	1/2	3,648.96	1/2	3,371.75	1/2	3,094.54	1/2	2,817.33	1/2	2,540.12	1/2	2,262.91	1/2	1,985.70	1/2	1,708.49
3/4		3/4		3/4	3,920.39	3/4	3,643.18	3/4	3,365.97	3/4	3,088.76	3/4	2,811.55	3/4	2,534.34	3/4	2,257.13	3/4	1,979.92	3/4	1,702.71
6		6		6	3,914.62	6	3,637.41	6	3,360.20	6	3,082.99	6	2,805.78	6	2,528.57	6	2,251.36	6	1,974.15	6	1,696.94
1/4		1/4		1/4	3,908.84	1/4	3,631.63	1/4	3,354.42	1/4	3,077.21	1/4	2,800.00	1/4	2,522.79	1/4	2,245.58	1/4	1,968.37	1/4	1,691.16
1/2		1/2		1/2	3,903.07	1/2	3,625.86	1/2	3,348.65	1/2	3,071.44	1/2	2,794.23	1/2	2,517.02	1/2	2,239.81	1/2	1,962.60	1/2	1,685.39
3/4		3/4		3/4	3,897.29	3/4	3,620.08	3/4	3,342.87	3/4	3,065.66	3/4	2,788.45	3/4	2,511.24	3/4	2,234.03	3/4	1,956.82	3/4	1,679.61
7		7		7	3,891.52	7	3,614.31	7	3,337.10	7	3,059.89	7	2,782.68	7	2,505.47	7	2,228.26	7	1,951.05	7	1,673.84
1/4		1/4		1/4	3,885.74	1/4	3,608.53	1/4	3,331.32	1/4	3,054.11	1/4	2,776.90	1/4	2,499.69	1/4	2,222.48	1/4	1,945.27	1/4	1,668.06
1/2		1/2		1/2	3,879.96	1/2	3,602.76	1/2	3,325.55	1/2	3,048.34	1/2	2,771.13	1/2	2,493.92	1/2	2,216.71	1/2	1,939.50	1/2	1,662.29
3/4		3/4		3/4	3,874.19	3/4	3,596.98	3/4	3,319.77	3/4	3,042.56	3/4	2,765.35	3/4	2,488.14	3/4	2,210.93	3/4	1,933.72	3/4	1,656.51
8		8		8	3,868.41	8	3,591.20	8	3,314.00	8	3,036.79	8	2,759.58	8	2,482.37	8	2,205.16	8	1,927.95	8	1,650.74
1/4		1/4		1/4	3,862.64	1/4	3,585.43	1/4	3,308.22	1/4	3,031.01	1/4	2,753.80	1/4	2,476.59	1/4	2,199.38	1/4	1,922.17	1/4	1,644.96
1/2		1/2		1/2	3,856.86	1/2	3,579.65	1/2	3,302.44	1/2	3,025.23	1/2	2,748.03	1/2	2,470.82	1/2	2,193.61	1/2	1,916.40	1/2	1,639.19
3/4		3/4		3/4	3,851.09	3/4	3,573.88	3/4	3,296.67	3/4	3,019.46	3/4	2,742.25	3/4	2,465.04	3/4	2,187.83	3/4	1,910.62	3/4	1,633.41
9		9		9	3,845.31	9	3,568.10	9	3,290.89	9	3,013.68	9	2,736.47	9	2,459.27	9	2,182.06	9	1,904.85	9	1,627.64
1/4		1/4		1/4	3,839.54	1/4	3,562.33	1/4	3,285.12	1/4	3,007.91	1/4	2,730.70	1/4	2,453.49	1/4	2,176.28	1/4	1,899.07	1/4	1,621.86
1/2		1/2		1/2	3,833.76	1/2	3,556.55	1/2	3,279.34	1/2	3,002.13	1/2	2,724.92	1/2	2,447.71	1/2	2,170.51	1/2	1,893.30	1/2	1,616.09
3/4		3/4		3/4	3,827.99	3/4	3,550.78	3/4	3,273.57	3/4	2,996.36	3/4	2,719.15	3/4	2,441.94	3/4	2,164.73	3/4	1,887.52	3/4	1,610.31
10		10		10	3,822.21	10	3,545.00	10	3,267.79	10	2,990.58	10	2,713.37	10	2,436.16	10	2,158.95	10	1,881.75	10	1,604.54
1/4		1/4		1/4	3,816.44	1/4	3,539.23	1/4	3,262.02	1/4	2,984.81	1/4	2,707.60	1/4	2,430.39	1/4	2,153.18	1/4	1,875.97	1/4	1,598.76
1/2		1/2		1/2	3,810.66	1/2	3,533.45	1/2	3,256.24	1/2	2,979.03	1/2	2,701.82	1/2	2,424.61	1/2	2,147.40	1/2	1,870.19	1/2	1,592.99
3/4		3/4		3/4	3,804.89	3/4	3,527.68	3/4	3,250.47	3/4	2,973.26	3/4	2,696.05	3/4	2,418.84	3/4	2,141.63	3/4	1,864.42	3/4	1,587.21
11		11		11	3,799.11	11	3,521.90	11	3,244.69	11	2,967.48	11	2,690.27	11	2,413.06	11	2,135.85	11	1,858.64	11	1,581.43
1/4		1/4		1/4	3,793.34	1/4	3,516.13	1/4	3,238.92	1/4	2,961.71	1/4	2,684.50	1/4	2,407.29	1/4	2,130.08	1/4	1,852.87	1/4	1,575.66
1/2		1/2		1/2	3,787.56	1/2	3,510.35	1/2	3,233.14	1/2	2,955.93	1/2	2,678.72	1/2	2,401.51	1/2	2,124.30	1/2	1,847.09	1/2	1,569.88
3/4		3/4		3/4	3,781.79	3/4	3,504.58	3/4	3,227.37	3/4	2,950.16	3/4	2,672.95	3/4	2,395.74	3/4	2,118.53	3/4	1,841.32	3/4	1,564.11

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 "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 31'-09" 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 216S"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-09 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 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	1,552.56	1/4	1,275.35	1/4	998.14	1/4	720.93	1/4	446.63	1/4	173.91	1/4		1/4		1/4		1/4		1/4	
1/2	1,546.78	1/2	1,269.57	1/2	992.36	1/2	715.15	1/2	441.04	1/2	168.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,541.01	3/4	1,263.80	3/4	986.59	3/4	709.38	3/4	435.45	3/4	162.36	3/4		3/4		3/4		3/4		3/4	
1	1,535.23	1	1,258.02	1	980.81	1	703.60	1	429.86	1	156.58	1		1		1		1		1	
1/4	1,529.46	1/4	1,252.25	1/4	975.04	1/4	697.83	1/4	424.27	1/4	150.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,523.68	1/2	1,246.47	1/2	969.26	1/2	692.05	1/2	418.69	1/2	145.03	1/2		1/2		1/2		1/2		1/2	
3/4	1,517.91	3/4	1,240.70	3/4	963.49	3/4	686.28	3/4	413.10	3/4	139.26	3/4		3/4		3/4		3/4		3/4	
2	1,512.13	2	1,234.92	2	957.71	2	680.50	2	407.51	2	133.48	2		2		2		2		2	
1/4	1,506.36	1/4	1,229.15	1/4	951.94	1/4	674.73	1/4	401.92	1/4	127.71	1/4		1/4		1/4		1/4		1/4	
1/2	1,500.58	1/2	1,223.37	1/2	946.16	1/2	668.95	1/2	396.33	1/2	121.93	1/2		1/2		1/2		1/2		1/2	
3/4	1,494.81	3/4	1,217.60	3/4	940.39	3/4	663.18	3/4	390.74	3/4	116.16	3/4		3/4		3/4		3/4		3/4	
3	1,489.03	3	1,211.82	3	934.61	3	657.40	3	385.16	3	110.38	3		3		3		3		3	
1/4	1,483.26	1/4	1,206.05	1/4	928.84	1/4	651.63	1/4	379.57	1/4	104.61	1/4		1/4		1/4		1/4		1/4	
1/2	1,477.48	1/2	1,200.27	1/2	923.06	1/2	645.85	1/2	373.98	1/2	98.84	1/2		1/2		1/2		1/2		1/2	
3/4	1,471.71	3/4	1,194.50	3/4	917.29	3/4	640.08	3/4	368.39	3/4	93.06	3/4		3/4		3/4		3/4		3/4	
4	1,465.93	4	1,188.72	4	911.51	4	634.30	4	362.80	4	87.29	4		4		4		4		4	
1/4	1,460.16	1/4	1,182.95	1/4	905.74	1/4	628.53	1/4	357.21	1/4	81.52	1/4		1/4		1/4		1/4		1/4	
1/2	1,454.38	1/2	1,177.17	1/2	899.96	1/2	622.75	1/2	351.62	1/2	75.76	1/2		1/2		1/2		1/2		1/2	
3/4	1,448.61	3/4	1,171.40	3/4	894.19	3/4	616.98	3/4	346.04	3/4	70.00	3/4		3/4		3/4		3/4		3/4	
5	1,442.83	5	1,165.62	5	888.41	5	611.20	5	340.45	5	64.24	5		5		5		5		5	
1/4	1,437.05	1/4	1,159.85	1/4	882.64	1/4	605.43	1/4	334.86	1/4	58.48	1/4		1/4		1/4		1/4		1/4	
1/2	1,431.28	1/2	1,154.07	1/2	876.86	1/2	599.65	1/2	329.27	1/2	52.75	1/2		1/2		1/2		1/2		1/2	
3/4	1,425.50	3/4	1,148.29	3/4	871.09	3/4	593.88	3/4	323.68	3/4	47.03	3/4		3/4		3/4		3/4		3/4	
6	1,419.73	6	1,142.52	6	865.31	6	588.10	6	318.09	6	41.30	6		6		6		6		6	
1/4	1,413.95	1/4	1,136.74	1/4	859.53	1/4	582.33	1/4	312.51	1/4	35.57	1/4		1/4		1/4		1/4		1/4	
1/2	1,408.18	1/2	1,130.97	1/2	853.76	1/2	576.55	1/2	306.73	1/2	30.76	1/2		1/2		1/2		1/2		1/2	
3/4	1,402.40	3/4	1,125.19	3/4	847.98	3/4	570.77	3/4	300.96	3/4	25.95	3/4		3/4		3/4		3/4		3/4	
7	1,396.63	7	1,119.42	7	842.21	7	565.00	7	295.18	7	21.14	7		7		7		7		7	
1/4	1,390.85	1/4	1,113.64	1/4	836.43	1/4	559.22	1/4	289.41	1/4	16.33	1/4		1/4		1/4		1/4		1/4	
1/2	1,385.08	1/2	1,107.87	1/2	830.66	1/2	553.45	1/2	283.63	1/2	13.45	1/2		1/2		1/2		1/2		1/2	
3/4	1,379.30	3/4	1,102.09	3/4	824.88	3/4	547.67	3/4	277.86	3/4	10.56	3/4		3/4		3/4		3/4		3/4	
8	1,373.53	8	1,096.32	8	819.11	8	541.90	8	272.08	8	7.67	8		8		8		8		8	
1/4	1,367.75	1/4	1,090.54	1/4	813.33	1/4	536.12	1/4	266.31	1/4	4.79	1/4		1/4		1/4		1/4		1/4	
1/2	1,361.98	1/2	1,084.77	1/2	807.56	1/2	530.53	1/2	260.53	1/2	3.82	1/2		1/2		1/2		1/2		1/2	
3/4	1,356.20	3/4	1,078.99	3/4	801.78	3/4	524.93	3/4	254.76	3/4	2.86	3/4		3/4		3/4		3/4		3/4	
9	1,350.43	9	1,073.22	9	796.01	9	519.33	9	248.98	9	1.90	9		9		9		9		9	
1/4	1,344.65	1/4	1,067.44	1/4	790.23	1/4	513.73	1/4	243.21	1/4	0.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,338.88	1/2	1,061.67	1/2	784.46	1/2	508.13	1/2	237.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,333.10	3/4	1,055.89	3/4	778.68	3/4	502.53	3/4	231.66	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,327.33	10	1,050.12	10	772.91	10	496.93	10	225.88	10		10		10		10		10		10	
1/4	1,321.55	1/4	1,044.34	1/4	767.13	1/4	491.33	1/4	220.11	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,315.78	1/2	1,038.57	1/2	761.36	1/2	485.75	1/2	214.33	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,310.00	3/4	1,032.79	3/4	755.58	3/4	480.16	3/4	208.56	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,304.23	11	1,027.02	11	749.81	11	474.57	11	202.78	11		11		11		11		11		11	
1/4	1,298.45	1/4	1,021.24	1/4	744.03	1/4	468.98	1/4	197.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,292.67	1/2	1,015.47	1/2	738.26	1/2	463.39	1/2	191.23	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,286.90	3/4	1,009.69	3/4	732.48	3/4	457.80	3/4	185.46	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/17/2021 CL  
CALCULATED: 06/17/2021 CL  
PRINTED: 06/17/2021 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021

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



# BARGE "HFL 216S"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-08 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			
0		0		0	3,330.03	0	3,084.52	0	2,839.00	0	2,593.49	0	2,347.97	0	2,102.46	0	1,856.94	0	1,611.43		
1/4		1/4		1/4	3,324.92	1/4	3,079.40	1/4	2,833.89	1/4	2,588.37	1/4	2,342.86	1/4	2,097.34	1/4	1,851.83	1/4	1,606.31		
1/2		1/2		1/2	3,319.80	1/2	3,074.29	1/2	2,828.77	1/2	2,583.26	1/2	2,337.74	1/2	2,092.23	1/2	1,846.71	1/2	1,601.20		
3/4		3/4		3/4	3,314.69	3/4	3,069.17	3/4	2,823.66	3/4	2,578.14	3/4	2,332.63	3/4	2,087.11	3/4	1,841.60	3/4	1,596.08		
1		1		1	3,537.14	1	3,309.57	1	3,064.06	1	2,818.54	1	2,573.03	1	2,327.51	1	2,082.00	1	1,836.48	1	1,591.97
1/4		1/4		1/4	3,536.28	1/4	3,304.46	1/4	3,058.94	1/4	2,813.43	1/4	2,567.91	1/4	2,322.40	1/4	2,076.88	1/4	1,831.37	1/4	1,585.85
1/2		1/2		1/2	3,533.73	1/2	3,299.34	1/2	3,053.83	1/2	2,808.31	1/2	2,562.80	1/2	2,317.28	1/2	2,071.77	1/2	1,826.25	1/2	1,580.74
3/4		3/4		3/4	3,531.17	3/4	3,294.23	3/4	3,048.71	3/4	2,803.20	3/4	2,557.68	3/4	2,312.17	3/4	2,066.65	3/4	1,821.14	3/4	1,575.62
2		2		2	3,528.61	2	3,289.11	2	3,043.60	2	2,798.08	2	2,552.57	2	2,307.05	2	2,061.54	2	1,816.02	2	1,570.51
1/4		1/4		1/4	3,526.05	1/4	3,284.00	1/4	3,038.48	1/4	2,792.97	1/4	2,547.45	1/4	2,301.94	1/4	2,056.42	1/4	1,810.91	1/4	1,565.39
1/2		1/2		1/2	3,521.79	1/2	3,278.88	1/2	3,033.37	1/2	2,787.85	1/2	2,542.34	1/2	2,296.82	1/2	2,051.31	1/2	1,805.79	1/2	1,560.28
3/4		3/4		3/4	3,517.53	3/4	3,273.77	3/4	3,028.25	3/4	2,782.74	3/4	2,537.22	3/4	2,291.71	3/4	2,046.19	3/4	1,800.68	3/4	1,555.16
3		3		3	3,513.27	3	3,268.65	3	3,023.14	3	2,777.62	3	2,532.11	3	2,286.59	3	2,041.08	3	1,795.56	3	1,550.05
1/4		1/4		1/4	3,509.01	1/4	3,263.54	1/4	3,018.02	1/4	2,772.51	1/4	2,526.99	1/4	2,281.48	1/4	2,035.96	1/4	1,790.45	1/4	1,544.93
1/2		1/2		1/2	3,503.90	1/2	3,258.42	1/2	3,012.91	1/2	2,767.39	1/2	2,521.88	1/2	2,276.36	1/2	2,030.85	1/2	1,785.33	1/2	1,539.82
3/4		3/4		3/4	3,498.80	3/4	3,253.31	3/4	3,007.79	3/4	2,762.28	3/4	2,516.76	3/4	2,271.25	3/4	2,025.73	3/4	1,780.22	3/4	1,534.70
4		4		4	3,493.70	4	3,248.19	4	3,002.68	4	2,757.16	4	2,511.65	4	2,266.13	4	2,020.62	4	1,775.10	4	1,529.59
1/4		1/4		1/4	3,488.59	1/4	3,243.08	1/4	2,997.56	1/4	2,752.05	1/4	2,506.53	1/4	2,261.02	1/4	2,015.50	1/4	1,769.99	1/4	1,524.47
1/2		1/2		1/2	3,483.48	1/2	3,237.96	1/2	2,992.45	1/2	2,746.93	1/2	2,501.42	1/2	2,255.90	1/2	2,010.39	1/2	1,764.87	1/2	1,519.36
3/4		3/4		3/4	3,478.36	3/4	3,232.85	3/4	2,987.33	3/4	2,741.82	3/4	2,496.30	3/4	2,250.79	3/4	2,005.27	3/4	1,759.76	3/4	1,514.24
5		5		5	3,473.25	5	3,227.73	5	2,982.22	5	2,736.70	5	2,491.19	5	2,245.67	5	2,000.16	5	1,754.64	5	1,509.13
1/4		1/4		1/4	3,468.13	1/4	3,222.62	1/4	2,977.10	1/4	2,731.59	1/4	2,486.07	1/4	2,240.56	1/4	1,995.04	1/4	1,749.53	1/4	1,504.01
1/2		1/2		1/2	3,463.02	1/2	3,217.50	1/2	2,971.99	1/2	2,726.47	1/2	2,480.96	1/2	2,235.44	1/2	1,989.93	1/2	1,744.41	1/2	1,498.90
3/4		3/4		3/4	3,457.90	3/4	3,212.39	3/4	2,966.87	3/4	2,721.36	3/4	2,475.84	3/4	2,230.33	3/4	1,984.81	3/4	1,739.30	3/4	1,493.78
6		6		6	3,452.79	6	3,207.27	6	2,961.76	6	2,716.24	6	2,470.73	6	2,225.21	6	1,979.70	6	1,734.18	6	1,488.67
1/4		1/4		1/4	3,447.68	1/4	3,202.16	1/4	2,956.64	1/4	2,711.13	1/4	2,465.61	1/4	2,220.10	1/4	1,974.58	1/4	1,729.07	1/4	1,483.55
1/2		1/2		1/2	3,442.56	1/2	3,197.04	1/2	2,951.53	1/2	2,706.01	1/2	2,460.50	1/2	2,214.98	1/2	1,969.47	1/2	1,723.95	1/2	1,478.44
3/4		3/4		3/4	3,437.45	3/4	3,191.93	3/4	2,946.41	3/4	2,700.90	3/4	2,455.38	3/4	2,209.87	3/4	1,964.35	3/4	1,718.84	3/4	1,473.32
7		7		7	3,432.33	7	3,186.82	7	2,941.30	7	2,695.78	7	2,450.27	7	2,204.75	7	1,959.24	7	1,713.72	7	1,468.21
1/4		1/4		1/4	3,427.22	1/4	3,181.70	1/4	2,936.19	1/4	2,690.67	1/4	2,445.15	1/4	2,199.64	1/4	1,954.12	1/4	1,708.61	1/4	1,463.09
1/2		1/2		1/2	3,422.10	1/2	3,176.59	1/2	2,931.07	1/2	2,685.55	1/2	2,440.04	1/2	2,194.52	1/2	1,949.01	1/2	1,703.49	1/2	1,457.98
3/4		3/4		3/4	3,416.99	3/4	3,171.47	3/4	2,925.96	3/4	2,680.44	3/4	2,434.92	3/4	2,189.41	3/4	1,943.89	3/4	1,698.38	3/4	1,452.86
8		8		8	3,411.87	8	3,166.36	8	2,920.84	8	2,675.33	8	2,429.81	8	2,184.29	8	1,938.78	8	1,693.26	8	1,447.75
1/4		1/4		1/4	3,406.76	1/4	3,161.24	1/4	2,915.73	1/4	2,670.21	1/4	2,424.69	1/4	2,179.18	1/4	1,933.66	1/4	1,688.15	1/4	1,442.63
1/2		1/2		1/2	3,401.64	1/2	3,156.13	1/2	2,910.61	1/2	2,665.10	1/2	2,419.58	1/2	2,174.06	1/2	1,928.55	1/2	1,683.03	1/2	1,437.52
3/4		3/4		3/4	3,396.53	3/4	3,151.01	3/4	2,905.50	3/4	2,659.98	3/4	2,414.47	3/4	2,168.95	3/4	1,923.43	3/4	1,677.92	3/4	1,432.40
9		9		9	3,391.41	9	3,145.90	9	2,900.38	9	2,654.87	9	2,409.35	9	2,163.84	9	1,918.32	9	1,672.80	9	1,427.29
1/4		1/4		1/4	3,386.30	1/4	3,140.78	1/4	2,895.27	1/4	2,649.75	1/4	2,404.24	1/4	2,158.72	1/4	1,913.20	1/4	1,667.69	1/4	1,422.17
1/2		1/2		1/2	3,381.18	1/2	3,135.67	1/2	2,890.15	1/2	2,644.64	1/2	2,399.12	1/2	2,153.61	1/2	1,908.09	1/2	1,662.57	1/2	1,417.06
3/4		3/4		3/4	3,376.07	3/4	3,130.55	3/4	2,885.04	3/4	2,639.52	3/4	2,394.01	3/4	2,148.49	3/4	1,902.98	3/4	1,657.46	3/4	1,411.94
10		10		10	3,370.95	10	3,125.44	10	2,879.92	10	2,634.41	10	2,388.89	10	2,143.38	10	1,897.86	10	1,652.35	10	1,406.83
1/4		1/4		1/4	3,365.84	1/4	3,120.32	1/4	2,874.81	1/4	2,629.29	1/4	2,383.78	1/4	2,138.26	1/4	1,892.75	1/4	1,647.23	1/4	1,401.71
1/2		1/2		1/2	3,360.72	1/2	3,115.21	1/2	2,869.69	1/2	2,624.18	1/2	2,378.66	1/2	2,133.15	1/2	1,887.63	1/2	1,642.12	1/2	1,396.60
3/4		3/4		3/4	3,355.61	3/4	3,110.09	3/4	2,864.58	3/4	2,619.06	3/4	2,373.55	3/4	2,128.03	3/4	1,882.52	3/4	1,637.00	3/4	1,391.49
11		11		11	3,350.49	11	3,104.98	11	2,859.46	11	2,613.95	11	2,368.43	11	2,122.92	11	1,877.40	11	1,631.89	11	1,386.37
1/4		1/4		1/4	3,345.38	1/4	3,099.86	1/4	2,854.35	1/4	2,608.83	1/4	2,363.32	1/4	2,117.80	1/4	1,872.29	1/4	1,626.77	1/4	1,381.26
1/2		1/2		1/2	3,340.26	1/2	3,094.75	1/2	2,849.23	1/2	2,603.72	1/2	2,358.20	1/2	2,112.69	1/2	1,867.17	1/2	1,621.66	1/2	1,376.14
3/4		3/4		3/4	3,335.15	3/4	3,089.63	3/4	2,844.12	3/4	2,598.60	3/4	2,353.09	3/4	2,107.57	3/4	1,862.06	3/4	1,616.54	3/4	1,371.03

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 "MMC" VALVE.  
GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 25'-09" 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 216S"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-08 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	1,365.91	0	1,120.40	0	874.88	0	629.37	0	384.04	0	138.79	0		0		0		0	
1/4	1,360.80	1/4	1,115.28	1/4	869.77	1/4	624.25	1/4	378.94	1/4	133.67	1/4		1/4		1/4		1/4	
1/2	1,355.68	1/2	1,110.17	1/2	864.65	1/2	619.14	1/2	373.84	1/2	128.56	1/2		1/2		1/2		1/2	
3/4	1,350.57	3/4	1,105.05	3/4	859.54	3/4	614.02	3/4	368.73	3/4	123.44	3/4		3/4		3/4		3/4	
1	1,345.45	1	1,099.94	1	854.42	1	608.91	1	363.63	1	118.33	1		1		1		1	
1/4	1,340.34	1/4	1,094.82	1/4	849.31	1/4	603.79	1/4	358.53	1/4	113.22	1/4		1/4		1/4		1/4	
1/2	1,335.22	1/2	1,089.71	1/2	844.19	1/2	598.68	1/2	353.43	1/2	108.10	1/2		1/2		1/2		1/2	
3/4	1,330.11	3/4	1,084.59	3/4	839.08	3/4	593.56	3/4	348.32	3/4	102.99	3/4		3/4		3/4		3/4	
2	1,324.99	2	1,079.48	2	833.96	2	588.45	2	343.22	2	97.87	2		2		2		2	
1/4	1,319.88	1/4	1,074.36	1/4	828.85	1/4	583.33	1/4	338.12	1/4	92.76	1/4		1/4		1/4		1/4	
1/2	1,314.76	1/2	1,069.25	1/2	823.73	1/2	578.22	1/2	333.02	1/2	87.64	1/2		1/2		1/2		1/2	
3/4	1,309.65	3/4	1,064.13	3/4	818.62	3/4	573.10	3/4	327.91	3/4	82.53	3/4		3/4		3/4		3/4	
3	1,304.53	3	1,059.02	3	813.50	3	567.99	3	322.81	3	77.42	3		3		3		3	
1/4	1,299.42	1/4	1,053.90	1/4	808.39	1/4	562.87	1/4	317.71	1/4	72.30	1/4		1/4		1/4		1/4	
1/2	1,294.30	1/2	1,048.79	1/2	803.27	1/2	557.76	1/2	312.60	1/2	67.20	1/2		1/2		1/2		1/2	
3/4	1,289.19	3/4	1,043.67	3/4	798.16	3/4	552.64	3/4	307.50	3/4	62.10	3/4		3/4		3/4		3/4	
4	1,284.07	4	1,038.56	4	793.04	4	547.53	4	302.40	4	57.00	4		4		4		4	
1/4	1,278.96	1/4	1,033.44	1/4	787.93	1/4	542.41	1/4	297.30	1/4	51.90	1/4		1/4		1/4		1/4	
1/2	1,273.84	1/2	1,028.33	1/2	782.81	1/2	537.30	1/2	292.19	1/2	46.83	1/2		1/2		1/2		1/2	
3/4	1,268.73	3/4	1,023.21	3/4	777.70	3/4	532.18	3/4	287.09	3/4	41.76	3/4		3/4		3/4		3/4	
5	1,263.61	5	1,018.10	5	772.58	5	527.07	5	281.99	5	36.69	5		5		5		5	
1/4	1,258.50	1/4	1,012.98	1/4	767.47	1/4	521.95	1/4	276.89	1/4	31.61	1/4		1/4		1/4		1/4	
1/2	1,253.38	1/2	1,007.87	1/2	762.35	1/2	516.84	1/2	271.77	1/2	27.35	1/2		1/2		1/2		1/2	
3/4	1,248.27	3/4	1,002.75	3/4	757.24	3/4	511.72	3/4	266.66	3/4	23.09	3/4		3/4		3/4		3/4	
6	1,243.15	6	997.64	6	752.12	6	506.61	6	261.54	6	18.83	6		6		6		6	
1/4	1,238.04	1/4	992.52	1/4	747.01	1/4	501.49	1/4	256.43	1/4	14.57	1/4		1/4		1/4		1/4	
1/2	1,232.92	1/2	987.41	1/2	741.89	1/2	496.38	1/2	251.31	1/2	12.02	1/2		1/2		1/2		1/2	
3/4	1,227.81	3/4	982.29	3/4	736.78	3/4	491.26	3/4	246.20	3/4	9.46	3/4		3/4		3/4		3/4	
7	1,222.69	7	977.18	7	731.66	7	486.15	7	241.08	7	6.90	7		7		7		7	
1/4	1,217.58	1/4	972.06	1/4	726.55	1/4	481.03	1/4	235.97	1/4	4.34	1/4		1/4		1/4		1/4	
1/2	1,212.46	1/2	966.95	1/2	721.43	1/2	475.93	1/2	230.85	1/2	3.49	1/2		1/2		1/2		1/2	
3/4	1,207.35	3/4	961.83	3/4	716.32	3/4	470.82	3/4	225.74	3/4	2.64	3/4		3/4		3/4		3/4	
8	1,202.23	8	956.72	8	711.20	8	465.71	8	220.62	8	1.79	8		8		8		8	
1/4	1,197.12	1/4	951.60	1/4	706.09	1/4	460.60	1/4	215.51	1/4	0.94	1/4		1/4		1/4		1/4	
1/2	1,192.00	1/2	946.49	1/2	700.97	1/2	455.49	1/2	210.39	1/2		1/2		1/2		1/2		1/2	
3/4	1,186.89	3/4	941.37	3/4	695.86	3/4	450.39	3/4	205.28	3/4		3/4		3/4		3/4		3/4	
9	1,181.77	9	936.26	9	690.74	9	445.28	9	200.17	9		9		9		9		9	
1/4	1,176.66	1/4	931.14	1/4	685.63	1/4	440.17	1/4	195.05	1/4		1/4		1/4		1/4		1/4	
1/2	1,171.54	1/2	926.03	1/2	680.51	1/2	435.07	1/2	189.94	1/2		1/2		1/2		1/2		1/2	
3/4	1,166.43	3/4	920.91	3/4	675.40	3/4	429.97	3/4	184.82	3/4		3/4		3/4		3/4		3/4	
10	1,161.31	10	915.80	10	670.28	10	424.86	10	179.71	10		10		10		10		10	
1/4	1,156.20	1/4	910.68	1/4	665.17	1/4	419.76	1/4	174.59	1/4		1/4		1/4		1/4		1/4	
1/2	1,151.08	1/2	905.57	1/2	660.05	1/2	414.66	1/2	169.48	1/2		1/2		1/2		1/2		1/2	
3/4	1,145.97	3/4	900.45	3/4	654.94	3/4	409.56	3/4	164.36	3/4		3/4		3/4		3/4		3/4	
11	1,140.86	11	895.34	11	649.82	11	404.45	11	159.25	11		11		11		11		11	
1/4	1,135.74	1/4	890.22	1/4	644.71	1/4	399.35	1/4	154.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,130.63	1/2	885.11	1/2	639.59	1/2	394.25	1/2	149.02	1/2		1/2		1/2		1/2		1/2	
3/4	1,125.51	3/4	880.00	3/4	634.48	3/4	389.15	3/4	143.90	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/17/2021 CL  
CALCULATED: 06/17/2021 CL  
PRINTED: 06/17/2021 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 06/2021

PRECISION MEASUREMENT  
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