



# BARGE "HFL 214"

## INNAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 CENTER	00-1/8	- 00-1/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	01-0/8	- 01-0/8
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	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-2/8	- 00-2/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2

(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 - 00-3/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED INNAGE IS 3'-11 5/8"

LENGTH BETWEEN DRAFT MARKS: 162'-03"

January 6, 2021

PRECISION MEASUREMENT  
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# BARGE "HFL 214"

## 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-09 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	0.93	0	213.56	0	452.15	0	693.26	0	935.91	0	1,178.56	0	1,421.21	0	1,663.87	0	1,906.52	0	2,149.18
1/4	1.78	1/4	218.60	1/4	457.09	1/4	698.31	1/4	940.96	1/4	1,183.61	1/4	1,426.27	1/4	1,668.92	1/4	1,911.58	1/4	2,154.23
1/2	2.62	1/2	223.63	1/2	462.02	1/2	703.37	1/2	946.02	1/2	1,188.67	1/2	1,431.32	1/2	1,673.98	1/2	1,916.63	1/2	2,159.29
3/4	3.47	3/4	228.67	3/4	466.96	3/4	708.42	3/4	951.07	3/4	1,193.73	3/4	1,436.38	3/4	1,679.03	3/4	1,921.69	3/4	2,164.34
1	4.31	1	233.70	1	471.90	1	713.48	1	956.13	1	1,198.78	1	1,441.43	1	1,684.09	1	1,926.74	1	2,169.40
1/4	6.85	1/4	238.72	1/4	476.83	1/4	718.53	1/4	961.18	1/4	1,203.84	1/4	1,446.49	1/4	1,689.14	1/4	1,931.80	1/4	2,174.45
1/2	9.38	1/2	243.73	1/2	481.77	1/2	723.59	1/2	966.24	1/2	1,208.89	1/2	1,451.55	1/2	1,694.20	1/2	1,936.85	1/2	2,179.51
3/4	11.91	3/4	248.75	3/4	486.70	3/4	728.64	3/4	971.29	3/4	1,213.95	3/4	1,456.60	3/4	1,699.26	3/4	1,941.91	3/4	2,184.57
2	14.45	2	253.77	2	491.64	2	733.70	2	976.35	2	1,219.00	2	1,461.66	2	1,704.31	2	1,946.96	2	2,189.62
1/4	18.67	1/4	258.80	1/4	496.57	1/4	738.75	1/4	981.40	1/4	1,224.06	1/4	1,466.71	1/4	1,709.37	1/4	1,952.02	1/4	2,194.68
1/2	22.89	1/2	263.83	1/2	501.51	1/2	743.81	1/2	986.46	1/2	1,229.11	1/2	1,471.77	1/2	1,714.42	1/2	1,957.08	1/2	2,199.73
3/4	27.11	3/4	268.86	3/4	506.44	3/4	748.86	3/4	991.51	3/4	1,234.17	3/4	1,476.82	3/4	1,719.48	3/4	1,962.13	3/4	2,204.79
3	31.33	3	273.89	3	511.38	3	753.92	3	996.57	3	1,239.22	3	1,481.88	3	1,724.53	3	1,967.19	3	2,209.84
1/4	36.36	1/4	278.93	1/4	516.31	1/4	758.97	1/4	1,001.62	1/4	1,244.28	1/4	1,486.93	1/4	1,729.59	1/4	1,972.24	1/4	2,214.90
1/2	41.38	1/2	283.96	1/2	521.25	1/2	764.03	1/2	1,006.68	1/2	1,249.33	1/2	1,491.99	1/2	1,734.64	1/2	1,977.30	1/2	2,219.95
3/4	46.41	3/4	288.99	3/4	526.18	3/4	769.08	3/4	1,011.73	3/4	1,254.39	3/4	1,497.04	3/4	1,739.70	3/4	1,982.35	3/4	2,225.01
4	51.43	4	294.02	4	531.12	4	774.14	4	1,016.79	4	1,259.44	4	1,502.10	4	1,744.75	4	1,987.41	4	2,230.06
1/4	56.49	1/4	299.03	1/4	536.19	1/4	779.19	1/4	1,021.84	1/4	1,264.50	1/4	1,507.15	1/4	1,749.81	1/4	1,992.46	1/4	2,235.12
1/2	61.54	1/2	304.05	1/2	541.25	1/2	784.25	1/2	1,026.90	1/2	1,269.55	1/2	1,512.21	1/2	1,754.86	1/2	1,997.52	1/2	2,240.18
3/4	66.60	3/4	309.06	3/4	546.32	3/4	789.31	3/4	1,031.96	3/4	1,274.61	3/4	1,517.26	3/4	1,759.92	3/4	2,002.57	3/4	2,245.23
5	71.65	5	314.07	5	551.39	5	794.36	5	1,037.01	5	1,279.67	5	1,522.32	5	1,764.97	5	2,007.63	5	2,250.29
1/4	76.72	1/4	319.09	1/4	556.45	1/4	799.42	1/4	1,042.07	1/4	1,284.72	1/4	1,527.37	1/4	1,770.03	1/4	2,012.68	1/4	2,255.34
1/2	81.79	1/2	324.10	1/2	561.52	1/2	804.47	1/2	1,047.12	1/2	1,289.78	1/2	1,532.43	1/2	1,775.08	1/2	2,017.74	1/2	2,260.40
3/4	86.85	3/4	329.11	3/4	566.59	3/4	809.53	3/4	1,052.18	3/4	1,294.83	3/4	1,537.49	3/4	1,780.14	3/4	2,022.79	3/4	2,265.45
6	91.92	6	334.13	6	571.65	6	814.58	6	1,057.23	6	1,299.89	6	1,542.54	6	1,785.20	6	2,027.85	6	2,270.51
1/4	96.99	1/4	339.06	1/4	576.72	1/4	819.64	1/4	1,062.29	1/4	1,304.94	1/4	1,547.60	1/4	1,790.25	1/4	2,032.90	1/4	2,275.56
1/2	102.06	1/2	343.98	1/2	581.79	1/2	824.69	1/2	1,067.34	1/2	1,310.00	1/2	1,552.65	1/2	1,795.31	1/2	2,037.96	1/2	2,280.61
3/4	107.13	3/4	348.91	3/4	586.85	3/4	829.75	3/4	1,072.40	3/4	1,315.05	3/4	1,557.71	3/4	1,800.36	3/4	2,043.02	3/4	2,285.66
7	112.20	7	353.84	7	591.92	7	834.80	7	1,077.45	7	1,320.11	7	1,562.76	7	1,805.42	7	2,048.07	7	2,290.71
1/4	117.26	1/4	358.77	1/4	596.99	1/4	839.86	1/4	1,082.51	1/4	1,325.16	1/4	1,567.82	1/4	1,810.47	1/4	2,053.13	1/4	2,295.76
1/2	122.33	1/2	363.70	1/2	602.05	1/2	844.91	1/2	1,087.56	1/2	1,330.22	1/2	1,572.87	1/2	1,815.53	1/2	2,058.18	1/2	2,300.81
3/4	127.40	3/4	368.62	3/4	607.12	3/4	849.97	3/4	1,092.62	3/4	1,335.27	3/4	1,577.93	3/4	1,820.58	3/4	2,063.24	3/4	2,305.87
8	132.47	8	373.55	8	612.19	8	855.02	8	1,097.67	8	1,340.33	8	1,582.98	8	1,825.64	8	2,068.29	8	2,310.92
1/4	137.54	1/4	378.45	1/4	617.25	1/4	860.08	1/4	1,102.73	1/4	1,345.38	1/4	1,588.04	1/4	1,830.69	1/4	2,073.35	1/4	2,315.97
1/2	142.61	1/2	383.35	1/2	622.32	1/2	865.13	1/2	1,107.79	1/2	1,350.44	1/2	1,593.09	1/2	1,835.75	1/2	2,078.40	1/2	2,321.02
3/4	147.67	3/4	388.25	3/4	627.39	3/4	870.19	3/4	1,112.84	3/4	1,355.49	3/4	1,598.15	3/4	1,840.80	3/4	2,083.46	3/4	2,326.07
9	152.74	9	393.15	9	632.45	9	875.24	9	1,117.90	9	1,360.55	9	1,603.20	9	1,845.86	9	2,088.51	9	2,331.12
1/4	157.81	1/4	398.05	1/4	637.52	1/4	880.30	1/4	1,122.95	1/4	1,365.61	1/4	1,608.26	1/4	1,850.91	1/4	2,093.57	1/4	2,336.17
1/2	162.88	1/2	402.95	1/2	642.59	1/2	885.35	1/2	1,128.01	1/2	1,370.66	1/2	1,613.32	1/2	1,855.97	1/2	2,098.62	1/2	2,341.22
3/4	167.95	3/4	407.84	3/4	647.66	3/4	890.41	3/4	1,133.06	3/4	1,375.72	3/4	1,618.37	3/4	1,861.02	3/4	2,103.68	3/4	2,346.27
10	173.02	10	412.74	10	652.72	10	895.46	10	1,138.12	10	1,380.77	10	1,623.43	10	1,866.08	10	2,108.73	10	2,351.32
1/4	178.08	1/4	417.66	1/4	657.79	1/4	900.52	1/4	1,143.17	1/4	1,385.83	1/4	1,628.48	1/4	1,871.14	1/4	2,113.79	1/4	2,356.38
1/2	183.15	1/2	422.58	1/2	662.86	1/2	905.57	1/2	1,148.23	1/2	1,390.88	1/2	1,633.54	1/2	1,876.19	1/2	2,118.85	1/2	2,361.43
3/4	188.22	3/4	427.50	3/4	667.92	3/4	910.63	3/4	1,153.28	3/4	1,395.94	3/4	1,638.59	3/4	1,881.25	3/4	2,123.90	3/4	2,366.48
11	193.29	11	432.41	11	672.99	11	915.69	11	1,158.34	11	1,400.99	11	1,643.65	11	1,886.30	11	2,128.96	11	2,371.53
1/4	198.36	1/4	437.35	1/4	678.06	1/4	920.74	1/4	1,163.39	1/4	1,406.05	1/4	1,648.70	1/4	1,891.36	1/4	2,134.01	1/4	2,376.58
1/2	203.43	1/2	442.28	1/2	683.12	1/2	925.80	1/2	1,168.45	1/2	1,411.10	1/2	1,653.76	1/2	1,896.41	1/2	2,139.07	1/2	2,381.63
3/4	208.49	3/4	447.22	3/4	688.19	3/4	930.85	3/4	1,173.50	3/4	1,416.16	3/4	1,658.81	3/4	1,901.47	3/4	2,144.12	3/4	2,386.68

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 INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 24'-03" 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 214"

## 1 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-09 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	2,391.73	0	2,631.73	0	2,842.80	0	3,053.87	0	3,264.94	0		0		0		0		0	
1/4	2,396.79	1/4	2,636.13	1/4	2,847.20	1/4	3,058.27	1/4	3,269.34	1/4		1/4		1/4		1/4		1/4	
1/2	2,401.84	1/2	2,640.52	1/2	2,851.59	1/2	3,062.66	1/2	3,273.73	1/2		1/2		1/2		1/2		1/2	
3/4	2,406.90	3/4	2,644.92	3/4	2,855.99	3/4	3,067.06	3/4	3,278.13	3/4		3/4		3/4		3/4		3/4	
1	2,411.95	1	2,649.32	1	2,860.39	1	3,071.46	1	3,282.53	1		1		1		1		1	
1/4	2,417.01	1/4	2,653.71	1/4	2,864.78	1/4	3,075.86	1/4	3,286.93	1/4		1/4		1/4		1/4		1/4	
1/2	2,422.06	1/2	2,658.11	1/2	2,869.18	1/2	3,080.25	1/2	3,291.32	1/2		1/2		1/2		1/2		1/2	
3/4	2,427.11	3/4	2,662.51	3/4	2,873.58	3/4	3,084.65	3/4	3,295.72	3/4		3/4		3/4		3/4		3/4	
2	2,432.17	2	2,666.91	2	2,877.98	2	3,089.05	2	3,300.12	2		2		2		2		2	
1/4	2,437.22	1/4	2,671.30	1/4	2,882.37	1/4	3,093.44	1/4	3,304.51	1/4		1/4		1/4		1/4		1/4	
1/2	2,442.28	1/2	2,675.70	1/2	2,886.77	1/2	3,097.84	1/2	3,308.91	1/2		1/2		1/2		1/2		1/2	
3/4	2,447.33	3/4	2,680.10	3/4	2,891.17	3/4	3,102.24	3/4	3,313.31	3/4		3/4		3/4		3/4		3/4	
3	2,452.39	3	2,684.50	3	2,895.57	3	3,106.64	3	3,317.71	3		3		3		3		3	
1/4	2,457.44	1/4	2,688.89	1/4	2,899.96	1/4	3,111.03	1/4	3,322.10	1/4		1/4		1/4		1/4		1/4	
1/2	2,462.50	1/2	2,693.29	1/2	2,904.36	1/2	3,115.43	1/2	3,326.50	1/2		1/2		1/2		1/2		1/2	
3/4	2,467.55	3/4	2,697.69	3/4	2,908.76	3/4	3,119.83	3/4	3,330.90	3/4		3/4		3/4		3/4		3/4	
4	2,472.61	4	2,702.08	4	2,913.16	4	3,124.23	4	3,335.30	4		4		4		4		4	
1/4	2,477.66	1/4	2,706.48	1/4	2,917.55	1/4	3,128.62	1/4	3,339.68	1/4		1/4		1/4		1/4		1/4	
1/2	2,482.72	1/2	2,710.88	1/2	2,921.95	1/2	3,133.02	1/2	3,344.06	1/2		1/2		1/2		1/2		1/2	
3/4	2,487.77	3/4	2,715.28	3/4	2,926.35	3/4	3,137.42	3/4	3,348.45	3/4		3/4		3/4		3/4		3/4	
5	2,492.82	5	2,719.67	5	2,930.74	5	3,141.81	5	3,352.83	5		5		5		5		5	
1/4	2,497.88	1/4	2,724.07	1/4	2,935.14	1/4	3,146.21	1/4	3,356.38	1/4		1/4		1/4		1/4		1/4	
1/2	2,502.93	1/2	2,728.47	1/2	2,939.54	1/2	3,150.61	1/2	3,359.93	1/2		1/2		1/2		1/2		1/2	
3/4	2,507.99	3/4	2,732.87	3/4	2,943.94	3/4	3,155.01	3/4	3,363.49	3/4		3/4		3/4		3/4		3/4	
6	2,513.04	6	2,737.26	6	2,948.33	6	3,159.40	6	3,367.04	6		6		6		6		6	
1/4	2,518.10	1/4	2,741.66	1/4	2,952.73	1/4	3,163.80	1/4	3,368.90	1/4		1/4		1/4		1/4		1/4	
1/2	2,523.15	1/2	2,746.06	1/2	2,957.13	1/2	3,168.20	1/2	3,370.76	1/2		1/2		1/2		1/2		1/2	
3/4	2,528.21	3/4	2,750.46	3/4	2,961.53	3/4	3,172.60	3/4	3,372.63	3/4		3/4		3/4		3/4		3/4	
7	2,533.26	7	2,754.85	7	2,965.92	7	3,176.99	7	3,374.49	7		7		7		7		7	
1/4	2,538.32	1/4	2,759.25	1/4	2,970.32	1/4	3,181.39	1/4	3,374.66	1/4		1/4		1/4		1/4		1/4	
1/2	2,543.37	1/2	2,763.65	1/2	2,974.72	1/2	3,185.79	1/2	3,374.84	1/2		1/2		1/2		1/2		1/2	
3/4	2,548.43	3/4	2,768.04	3/4	2,979.11	3/4	3,190.19	3/4	3,375.01	3/4		3/4		3/4		3/4		3/4	
8	2,553.48	8	2,772.44	8	2,983.51	8	3,194.58	8	3,375.18	8		8		8		8		8	
1/4	2,558.53	1/4	2,776.84	1/4	2,987.91	1/4	3,198.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,563.59	1/2	2,781.24	1/2	2,992.31	1/2	3,203.38	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,568.64	3/4	2,785.63	3/4	2,996.70	3/4	3,207.77	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,573.70	9	2,790.03	9	3,001.10	9	3,212.17	9		9		9		9		9		9	
1/4	2,578.75	1/4	2,794.43	1/4	3,005.50	1/4	3,216.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,583.81	1/2	2,798.83	1/2	3,009.90	1/2	3,220.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,588.86	3/4	2,803.22	3/4	3,014.29	3/4	3,225.36	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,593.92	10	2,807.62	10	3,018.69	10	3,229.76	10		10		10		10		10		10	
1/4	2,598.97	1/4	2,812.02	1/4	3,023.09	1/4	3,234.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,604.03	1/2	2,816.41	1/2	3,027.49	1/2	3,238.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,609.08	3/4	2,820.81	3/4	3,031.88	3/4	3,242.95	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,614.14	11	2,825.21	11	3,036.28	11	3,247.35	11		11		11		11		11		11	
1/4	2,618.54	1/4	2,829.61	1/4	3,040.68	1/4	3,251.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,622.93	1/2	2,834.00	1/2	3,045.07	1/2	3,256.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,627.33	3/4	2,838.40	3/4	3,049.47	3/4	3,260.54	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/06/2021 JS  
CALCULATED: 01/06/2021 CL  
PRINTED: 01/06/2021 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2021

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



# BARGE "HFL 214"

## 2 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0.94	0	246.68	0	521.18	0	801.67	0	1,082.85	0	1,364.04	0	1,645.23	0	1,926.42	0	2,207.61	0	2,488.80
1/4	1.91	1/4	252.54	1/4	526.86	1/4	807.52	1/4	1,088.71	1/4	1,369.90	1/4	1,651.09	1/4	1,932.28	1/4	2,213.47	1/4	2,494.66
1/2	2.89	1/2	258.40	1/2	532.55	1/2	813.38	1/2	1,094.57	1/2	1,375.76	1/2	1,656.95	1/2	1,938.14	1/2	2,219.33	1/2	2,500.52
3/4	3.86	3/4	264.26	3/4	538.23	3/4	819.24	3/4	1,100.43	3/4	1,381.62	3/4	1,662.81	3/4	1,944.00	3/4	2,225.18	3/4	2,506.37
1	4.84	1	270.12	1	543.91	1	825.10	1	1,106.29	1	1,387.48	1	1,668.66	1	1,949.85	1	2,231.04	1	2,512.23
1/4	7.77	1/4	275.97	1/4	549.77	1/4	830.96	1/4	1,112.15	1/4	1,393.33	1/4	1,674.52	1/4	1,955.71	1/4	2,236.90	1/4	2,518.09
1/2	10.70	1/2	281.83	1/2	555.63	1/2	836.81	1/2	1,118.00	1/2	1,399.19	1/2	1,680.38	1/2	1,961.57	1/2	2,242.76	1/2	2,523.95
3/4	13.63	3/4	287.69	3/4	561.48	3/4	842.67	3/4	1,123.86	3/4	1,405.05	3/4	1,686.24	3/4	1,967.43	3/4	2,248.62	3/4	2,529.81
2	16.56	2	293.55	2	567.34	2	848.53	2	1,129.72	2	1,410.91	2	1,692.10	2	1,973.29	2	2,254.47	2	2,535.66
1/4	21.44	1/4	299.41	1/4	573.20	1/4	854.39	1/4	1,135.58	1/4	1,416.77	1/4	1,697.96	1/4	1,979.14	1/4	2,260.33	1/4	2,541.52
1/2	26.31	1/2	305.26	1/2	579.06	1/2	860.25	1/2	1,141.44	1/2	1,422.62	1/2	1,703.81	1/2	1,985.00	1/2	2,266.19	1/2	2,547.38
3/4	31.19	3/4	311.12	3/4	584.92	3/4	866.11	3/4	1,147.29	3/4	1,428.48	3/4	1,709.67	3/4	1,990.86	3/4	2,272.05	3/4	2,553.24
3	36.07	3	316.98	3	590.77	3	871.96	3	1,153.15	3	1,434.34	3	1,715.53	3	1,996.72	3	2,277.91	3	2,559.10
1/4	41.88	1/4	322.65	1/4	596.63	1/4	877.82	1/4	1,159.01	1/4	1,440.20	1/4	1,721.39	1/4	2,002.58	1/4	2,283.77	1/4	2,564.95
1/2	47.69	1/2	328.32	1/2	602.49	1/2	883.68	1/2	1,164.87	1/2	1,446.06	1/2	1,727.25	1/2	2,008.43	1/2	2,289.62	1/2	2,570.81
3/4	53.49	3/4	333.99	3/4	608.35	3/4	889.54	3/4	1,170.73	3/4	1,451.92	3/4	1,733.10	3/4	2,014.29	3/4	2,295.48	3/4	2,576.67
4	59.30	4	339.66	4	614.21	4	895.40	4	1,176.58	4	1,457.77	4	1,738.96	4	2,020.15	4	2,301.34	4	2,582.53
1/4	65.14	1/4	345.33	1/4	620.07	1/4	901.25	1/4	1,182.44	1/4	1,463.63	1/4	1,744.82	1/4	2,026.01	1/4	2,307.20	1/4	2,588.39
1/2	70.99	1/2	351.01	1/2	625.92	1/2	907.11	1/2	1,188.30	1/2	1,469.49	1/2	1,750.68	1/2	2,031.87	1/2	2,313.06	1/2	2,594.24
3/4	76.83	3/4	356.68	3/4	631.78	3/4	912.97	3/4	1,194.16	3/4	1,475.35	3/4	1,756.54	3/4	2,037.73	3/4	2,318.91	3/4	2,600.10
5	82.67	5	362.35	5	637.64	5	918.83	5	1,200.02	5	1,481.21	5	1,762.39	5	2,043.58	5	2,324.77	5	2,605.96
1/4	88.53	1/4	368.02	1/4	643.50	1/4	924.69	1/4	1,205.88	1/4	1,487.06	1/4	1,768.25	1/4	2,049.44	1/4	2,330.63	1/4	2,611.82
1/2	94.39	1/2	373.69	1/2	649.36	1/2	930.54	1/2	1,211.73	1/2	1,492.92	1/2	1,774.11	1/2	2,055.30	1/2	2,336.49	1/2	2,617.68
3/4	100.24	3/4	379.36	3/4	655.21	3/4	936.40	3/4	1,217.59	3/4	1,498.78	3/4	1,779.97	3/4	2,061.16	3/4	2,342.35	3/4	2,623.54
6	106.10	6	385.03	6	661.07	6	942.26	6	1,223.45	6	1,504.64	6	1,785.83	6	2,067.02	6	2,348.20	6	2,629.39
1/4	111.96	1/4	390.70	1/4	666.93	1/4	948.12	1/4	1,229.31	1/4	1,510.50	1/4	1,791.68	1/4	2,072.87	1/4	2,354.06	1/4	2,635.25
1/2	117.81	1/2	396.38	1/2	672.79	1/2	953.98	1/2	1,235.17	1/2	1,516.35	1/2	1,797.54	1/2	2,078.73	1/2	2,359.92	1/2	2,641.11
3/4	123.67	3/4	402.05	3/4	678.65	3/4	959.83	3/4	1,241.02	3/4	1,522.21	3/4	1,803.40	3/4	2,084.59	3/4	2,365.78	3/4	2,646.97
7	129.53	7	407.72	7	684.50	7	965.69	7	1,246.88	7	1,528.07	7	1,809.26	7	2,090.45	7	2,371.64	7	2,652.83
1/4	135.39	1/4	413.39	1/4	690.36	1/4	971.55	1/4	1,252.74	1/4	1,533.93	1/4	1,815.12	1/4	2,096.31	1/4	2,377.49	1/4	2,658.68
1/2	141.24	1/2	419.06	1/2	696.22	1/2	977.41	1/2	1,258.60	1/2	1,539.79	1/2	1,820.98	1/2	2,102.16	1/2	2,383.35	1/2	2,664.54
3/4	147.10	3/4	424.73	3/4	702.08	3/4	983.27	3/4	1,264.46	3/4	1,545.64	3/4	1,826.83	3/4	2,108.02	3/4	2,389.21	3/4	2,670.40
8	152.96	8	430.40	8	707.94	8	989.13	8	1,270.31	8	1,551.50	8	1,832.69	8	2,113.88	8	2,395.07	8	2,676.26
1/4	158.82	1/4	436.07	1/4	713.79	1/4	994.98	1/4	1,276.17	1/4	1,557.36	1/4	1,838.55	1/4	2,119.74	1/4	2,400.93	1/4	2,682.12
1/2	164.68	1/2	441.74	1/2	719.65	1/2	1,000.84	1/2	1,282.03	1/2	1,563.22	1/2	1,844.41	1/2	2,125.60	1/2	2,406.79	1/2	2,687.97
3/4	170.53	3/4	447.42	3/4	725.51	3/4	1,006.70	3/4	1,287.89	3/4	1,569.08	3/4	1,850.27	3/4	2,131.45	3/4	2,412.64	3/4	2,693.83
9	176.39	9	453.09	9	731.37	9	1,012.56	9	1,293.75	9	1,574.94	9	1,856.12	9	2,137.31	9	2,418.50	9	2,699.69
1/4	182.25	1/4	458.76	1/4	737.23	1/4	1,018.42	1/4	1,299.60	1/4	1,580.79	1/4	1,861.98	1/4	2,143.17	1/4	2,424.36	1/4	2,705.55
1/2	188.11	1/2	464.43	1/2	743.09	1/2	1,024.27	1/2	1,305.46	1/2	1,586.65	1/2	1,867.84	1/2	2,149.03	1/2	2,430.22	1/2	2,711.41
3/4	193.96	3/4	470.10	3/4	748.94	3/4	1,030.13	3/4	1,311.32	3/4	1,592.51	3/4	1,873.70	3/4	2,154.89	3/4	2,436.08	3/4	2,717.26
10	199.82	10	475.77	10	754.80	10	1,035.99	10	1,317.18	10	1,598.37	10	1,879.56	10	2,160.75	10	2,441.93	10	2,723.12
1/4	205.68	1/4	481.44	1/4	760.66	1/4	1,041.85	1/4	1,323.04	1/4	1,604.23	1/4	1,885.41	1/4	2,166.60	1/4	2,447.79	1/4	2,728.98
1/2	211.54	1/2	487.11	1/2	766.52	1/2	1,047.71	1/2	1,328.90	1/2	1,610.08	1/2	1,891.27	1/2	2,172.46	1/2	2,453.65	1/2	2,734.84
3/4	217.40	3/4	492.79	3/4	772.38	3/4	1,053.56	3/4	1,334.75	3/4	1,615.94	3/4	1,897.13	3/4	2,178.32	3/4	2,459.51	3/4	2,740.70
11	223.25	11	498.46	11	778.23	11	1,059.42	11	1,340.61	11	1,621.80	11	1,902.99	11	2,184.18	11	2,465.37	11	2,746.56
1/4	229.11	1/4	504.14	1/4	784.09	1/4	1,065.28	1/4	1,346.47	1/4	1,627.66	1/4	1,908.85	1/4	2,190.04	1/4	2,471.22	1/4	2,752.41
1/2	234.97	1/2	509.82	1/2	789.95	1/2	1,071.14	1/2	1,352.33	1/2	1,633.52	1/2	1,914.71	1/2	2,195.89	1/2	2,477.08	1/2	2,758.27
3/4	240.83	3/4	515.50	3/4	795.81	3/4	1,077.00	3/4	1,358.19	3/4	1,639.37	3/4	1,920.56	3/4	2,201.75	3/4	2,482.94	3/4	2,764.13

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 INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 32'-00" 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 214"

## 2 CENTER INNAGE 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.	
0	2,769.99	0	3,051.18	0	3,332.37	0	3,613.55	0	3,894.74	0		0		0		0		0	
1/4	2,775.85	1/4	3,057.03	1/4	3,338.22	1/4	3,619.41	1/4	3,900.60	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,781.70	1/2	3,062.89	1/2	3,344.08	1/2	3,625.27	1/2	3,906.46	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,787.56	3/4	3,068.75	3/4	3,349.94	3/4	3,631.13	3/4	3,912.32	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	2,793.42	1	3,074.61	1	3,355.80	1	3,636.99	1	3,918.18	1	1	1	1	1	1	1	1	1	1
1/4	2,799.28	1/4	3,080.47	1/4	3,361.66	1/4	3,642.84	1/4	3,924.03	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,805.14	1/2	3,086.33	1/2	3,367.51	1/2	3,648.70	1/2	3,929.89	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,810.99	3/4	3,092.18	3/4	3,373.37	3/4	3,654.56	3/4	3,935.75	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	2,816.85	2	3,098.04	2	3,379.23	2	3,660.42	2	3,941.61	2	2	2	2	2	2	2	2	2	2
1/4	2,822.71	1/4	3,103.90	1/4	3,385.09	1/4	3,666.28	1/4	3,947.47	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,828.57	1/2	3,109.76	1/2	3,390.95	1/2	3,672.14	1/2	3,953.32	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,834.43	3/4	3,115.62	3/4	3,396.80	3/4	3,677.99	3/4	3,959.18	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	2,840.28	3	3,121.47	3	3,402.66	3	3,683.85	3	3,965.04	3	3	3	3	3	3	3	3	3	3
1/4	2,846.14	1/4	3,127.33	1/4	3,408.52	1/4	3,689.71	1/4	3,970.90	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,852.00	1/2	3,133.19	1/2	3,414.38	1/2	3,695.57	1/2	3,976.76	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,857.86	3/4	3,139.05	3/4	3,420.24	3/4	3,701.43	3/4	3,982.61	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	2,863.72	4	3,144.91	4	3,426.09	4	3,707.28	4	3,988.47	4	4	4	4	4	4	4	4	4	4
1/4	2,869.58	1/4	3,150.76	1/4	3,431.95	1/4	3,713.14	1/4	3,994.31	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,875.43	1/2	3,156.62	1/2	3,437.81	1/2	3,719.00	1/2	4,000.14	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,881.29	3/4	3,162.48	3/4	3,443.67	3/4	3,724.86	3/4	4,005.97	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	2,887.15	5	3,168.34	5	3,449.53	5	3,730.72	5	4,011.80	5	5	5	5	5	5	5	5	5	5
1/4	2,893.01	1/4	3,174.20	1/4	3,455.39	1/4	3,736.57	1/4	4,016.68	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,898.87	1/2	3,180.05	1/2	3,461.24	1/2	3,742.43	1/2	4,021.57	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,904.72	3/4	3,185.91	3/4	3,467.10	3/4	3,748.29	3/4	4,026.45	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	2,910.58	6	3,191.77	6	3,472.96	6	3,754.15	6	4,031.33	6	6	6	6	6	6	6	6	6	6
1/4	2,916.44	1/4	3,197.63	1/4	3,478.82	1/4	3,760.01	1/4	4,034.26	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,922.30	1/2	3,203.49	1/2	3,484.68	1/2	3,765.86	1/2	4,037.19	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,928.16	3/4	3,209.35	3/4	3,490.53	3/4	3,771.72	3/4	4,040.11	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	2,934.01	7	3,215.20	7	3,496.39	7	3,777.58	7	4,043.04	7	7	7	7	7	7	7	7	7	7
1/4	2,939.87	1/4	3,221.06	1/4	3,502.25	1/4	3,783.44	1/4	4,044.02	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,945.73	1/2	3,226.92	1/2	3,508.11	1/2	3,789.30	1/2	4,045.00	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,951.59	3/4	3,232.78	3/4	3,513.97	3/4	3,795.16	3/4	4,045.97	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	2,957.45	8	3,238.64	8	3,519.82	8	3,801.01	8	4,046.95	8	8	8	8	8	8	8	8	8	8
1/4	2,963.30	1/4	3,244.49	1/4	3,525.68	1/4	3,806.87	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,969.16	1/2	3,250.35	1/2	3,531.54	1/2	3,812.73	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,975.02	3/4	3,256.21	3/4	3,537.40	3/4	3,818.59	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	2,980.88	9	3,262.07	9	3,543.26	9	3,824.45	9		9	9	9	9	9	9	9	9	9	9
1/4	2,986.74	1/4	3,267.93	1/4	3,549.11	1/4	3,830.30	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,992.60	1/2	3,273.78	1/2	3,554.97	1/2	3,836.16	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,998.45	3/4	3,279.64	3/4	3,560.83	3/4	3,842.02	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	3,004.31	10	3,285.50	10	3,566.69	10	3,847.88	10		10	10	10	10	10	10	10	10	10	10
1/4	3,010.17	1/4	3,291.36	1/4	3,572.55	1/4	3,853.74	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,016.03	1/2	3,297.22	1/2	3,578.41	1/2	3,859.59	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,021.89	3/4	3,303.07	3/4	3,584.26	3/4	3,865.45	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	3,027.74	11	3,308.93	11	3,590.12	11	3,871.31	11		11	11	11	11	11	11	11	11	11	11
1/4	3,033.60	1/4	3,314.79	1/4	3,595.98	1/4	3,877.17	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	3,039.46	1/2	3,320.65	1/2	3,601.84	1/2	3,883.03	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	3,045.32	3/4	3,326.51	3/4	3,607.70	3/4	3,888.88	3/4		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.

STRAPPED: 01/06/2021 JS  
CALCULATED: 01/06/2021 CL  
PRINTED: 01/06/2021 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2021

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



# BARGE "HFL 214"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-09"

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	0.93	0	214.87	0	459.23	0	703.98	0	948.76	0	1,193.54	0	1,438.32	0	1,683.10	0	1,927.89	0	2,172.67
1/4	1.78	1/4	219.97	1/4	464.32	1/4	709.08	1/4	953.86	1/4	1,198.64	1/4	1,443.42	1/4	1,688.20	1/4	1,932.98	1/4	2,177.77
1/2	2.63	1/2	225.06	1/2	469.41	1/2	714.18	1/2	958.96	1/2	1,203.74	1/2	1,448.52	1/2	1,693.30	1/2	1,938.08	1/2	2,182.87
3/4	3.48	3/4	230.16	3/4	474.51	3/4	719.28	3/4	964.06	3/4	1,208.84	3/4	1,453.62	3/4	1,698.40	3/4	1,943.18	3/4	2,187.96
1	4.33	1	235.26	1	479.60	1	724.38	1	969.16	1	1,213.94	1	1,458.72	1	1,703.50	1	1,948.28	1	2,193.06
1/4	6.88	1/4	240.36	1/4	484.70	1/4	729.48	1/4	974.26	1/4	1,219.04	1/4	1,463.82	1/4	1,708.60	1/4	1,953.38	1/4	2,198.16
1/2	9.43	1/2	245.46	1/2	489.80	1/2	734.58	1/2	979.36	1/2	1,224.14	1/2	1,468.92	1/2	1,713.70	1/2	1,958.48	1/2	2,203.26
3/4	11.98	3/4	250.56	3/4	494.90	3/4	739.68	3/4	984.46	3/4	1,229.24	3/4	1,474.02	3/4	1,718.80	3/4	1,963.58	3/4	2,208.36
2	14.53	2	255.66	2	500.00	2	744.78	2	989.56	2	1,234.34	2	1,479.12	2	1,723.90	2	1,968.68	2	2,213.46
1/4	18.78	1/4	260.76	1/4	505.10	1/4	749.88	1/4	994.66	1/4	1,239.44	1/4	1,484.22	1/4	1,729.00	1/4	1,973.78	1/4	2,218.56
1/2	23.03	1/2	265.86	1/2	510.20	1/2	754.98	1/2	999.76	1/2	1,244.54	1/2	1,489.32	1/2	1,734.10	1/2	1,978.88	1/2	2,223.66
3/4	27.27	3/4	270.96	3/4	515.30	3/4	760.08	3/4	1,004.86	3/4	1,249.64	3/4	1,494.42	3/4	1,739.20	3/4	1,983.98	3/4	2,228.76
3	31.52	3	276.06	3	520.40	3	765.18	3	1,009.96	3	1,254.74	3	1,499.52	3	1,744.30	3	1,989.08	3	2,233.86
1/4	36.58	1/4	281.15	1/4	525.49	1/4	770.28	1/4	1,015.06	1/4	1,259.84	1/4	1,504.62	1/4	1,749.40	1/4	1,994.18	1/4	2,238.96
1/2	41.63	1/2	286.23	1/2	530.59	1/2	775.38	1/2	1,020.16	1/2	1,264.94	1/2	1,509.72	1/2	1,754.50	1/2	1,999.28	1/2	2,244.06
3/4	46.69	3/4	291.32	3/4	535.69	3/4	780.48	3/4	1,025.26	3/4	1,270.04	3/4	1,514.82	3/4	1,759.60	3/4	2,004.38	3/4	2,249.16
4	51.74	4	296.41	4	540.79	4	785.57	4	1,030.36	4	1,275.14	4	1,519.92	4	1,764.70	4	2,009.48	4	2,254.26
1/4	56.83	1/4	301.50	1/4	545.89	1/4	790.67	1/4	1,035.46	1/4	1,280.24	1/4	1,525.02	1/4	1,769.80	1/4	2,014.58	1/4	2,259.36
1/2	61.92	1/2	306.58	1/2	550.99	1/2	795.77	1/2	1,040.55	1/2	1,285.34	1/2	1,530.12	1/2	1,774.90	1/2	2,019.68	1/2	2,264.46
3/4	67.00	3/4	311.67	3/4	556.09	3/4	800.87	3/4	1,045.65	3/4	1,290.44	3/4	1,535.22	3/4	1,780.00	3/4	2,024.78	3/4	2,269.56
5	72.09	5	316.76	5	561.19	5	805.97	5	1,050.75	5	1,295.53	5	1,540.32	5	1,785.10	5	2,029.88	5	2,274.66
1/4	77.19	1/4	321.85	1/4	566.29	1/4	811.07	1/4	1,055.85	1/4	1,300.63	1/4	1,545.42	1/4	1,790.20	1/4	2,034.98	1/4	2,279.76
1/2	82.28	1/2	326.93	1/2	571.39	1/2	816.17	1/2	1,060.95	1/2	1,305.73	1/2	1,550.51	1/2	1,795.30	1/2	2,040.08	1/2	2,284.86
3/4	87.38	3/4	332.02	3/4	576.49	3/4	821.27	3/4	1,066.05	3/4	1,310.83	3/4	1,555.61	3/4	1,800.40	3/4	2,045.18	3/4	2,289.96
6	92.48	6	337.11	6	581.59	6	826.37	6	1,071.15	6	1,315.93	6	1,560.71	6	1,805.49	6	2,050.28	6	2,295.06
1/4	97.58	1/4	342.20	1/4	586.69	1/4	831.47	1/4	1,076.25	1/4	1,321.03	1/4	1,565.81	1/4	1,810.59	1/4	2,055.38	1/4	2,300.16
1/2	102.68	1/2	347.28	1/2	591.79	1/2	836.57	1/2	1,081.35	1/2	1,326.13	1/2	1,570.91	1/2	1,815.69	1/2	2,060.47	1/2	2,305.26
3/4	107.78	3/4	352.37	3/4	596.89	3/4	841.67	3/4	1,086.45	3/4	1,331.23	3/4	1,576.01	3/4	1,820.79	3/4	2,065.57	3/4	2,310.36
7	112.88	7	357.46	7	601.99	7	846.77	7	1,091.55	7	1,336.33	7	1,581.11	7	1,825.89	7	2,070.67	7	2,315.45
1/4	117.98	1/4	362.55	1/4	607.09	1/4	851.87	1/4	1,096.65	1/4	1,341.43	1/4	1,586.21	1/4	1,830.99	1/4	2,075.77	1/4	2,320.55
1/2	123.08	1/2	367.63	1/2	612.19	1/2	856.97	1/2	1,101.75	1/2	1,346.53	1/2	1,591.31	1/2	1,836.09	1/2	2,080.87	1/2	2,325.65
3/4	128.18	3/4	372.72	3/4	617.29	3/4	862.07	3/4	1,106.85	3/4	1,351.63	3/4	1,596.41	3/4	1,841.19	3/4	2,085.97	3/4	2,330.75
8	133.28	8	377.81	8	622.39	8	867.17	8	1,111.95	8	1,356.73	8	1,601.51	8	1,846.29	8	2,091.07	8	2,335.85
1/4	138.37	1/4	382.90	1/4	627.49	1/4	872.27	1/4	1,117.05	1/4	1,361.83	1/4	1,606.61	1/4	1,851.39	1/4	2,096.17	1/4	2,340.95
1/2	143.47	1/2	387.98	1/2	632.59	1/2	877.37	1/2	1,122.15	1/2	1,366.93	1/2	1,611.71	1/2	1,856.49	1/2	2,101.27	1/2	2,346.05
3/4	148.57	3/4	393.07	3/4	637.69	3/4	882.47	3/4	1,127.25	3/4	1,372.03	3/4	1,616.81	3/4	1,861.59	3/4	2,106.37	3/4	2,351.15
9	153.67	9	398.16	9	642.79	9	887.57	9	1,132.35	9	1,377.13	9	1,621.91	9	1,866.69	9	2,111.47	9	2,356.25
1/4	158.77	1/4	403.25	1/4	647.89	1/4	892.67	1/4	1,137.45	1/4	1,382.23	1/4	1,627.01	1/4	1,871.79	1/4	2,116.57	1/4	2,361.35
1/2	163.87	1/2	408.33	1/2	652.98	1/2	897.77	1/2	1,142.55	1/2	1,387.33	1/2	1,632.11	1/2	1,876.89	1/2	2,121.67	1/2	2,366.45
3/4	168.97	3/4	413.42	3/4	658.08	3/4	902.87	3/4	1,147.65	3/4	1,392.43	3/4	1,637.21	3/4	1,881.99	3/4	2,126.77	3/4	2,371.55
10	174.07	10	418.51	10	663.18	10	907.97	10	1,152.75	10	1,397.53	10	1,642.31	10	1,887.09	10	2,131.87	10	2,376.65
1/4	179.17	1/4	423.60	1/4	668.28	1/4	913.06	1/4	1,157.85	1/4	1,402.63	1/4	1,647.41	1/4	1,892.19	1/4	2,136.97	1/4	2,381.75
1/2	184.27	1/2	428.68	1/2	673.38	1/2	918.16	1/2	1,162.95	1/2	1,407.73	1/2	1,652.51	1/2	1,897.29	1/2	2,142.07	1/2	2,386.85
3/4	189.37	3/4	433.77	3/4	678.48	3/4	923.26	3/4	1,168.04	3/4	1,412.83	3/4	1,657.61	3/4	1,902.39	3/4	2,147.17	3/4	2,391.95
11	194.47	11	438.86	11	683.58	11	928.36	11	1,173.14	11	1,417.93	11	1,662.71	11	1,907.49	11	2,152.27	11	2,397.05
1/4	199.57	1/4	443.95	1/4	688.68	1/4	933.46	1/4	1,178.24	1/4	1,423.02	1/4	1,667.81	1/4	1,912.59	1/4	2,157.37	1/4	2,402.15
1/2	204.67	1/2	449.04	1/2	693.78	1/2	938.56	1/2	1,183.34	1/2	1,428.12	1/2	1,672.91	1/2	1,917.69	1/2	2,162.47	1/2	2,407.25
3/4	209.77	3/4	454.14	3/4	698.88	3/4	943.66	3/4	1,188.44	3/4	1,433.22	3/4	1,678.00	3/4	1,922.79	3/4	2,167.57	3/4	2,412.35

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 INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 25'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "HFL 214"

## 3 CENTER INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-09"

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	2,417.45	0	2,662.23	0	2,907.01	0	3,151.79	0	3,396.57	0		0		0		0		0	
1/4	2,422.55	1/4	2,667.33	1/4	2,912.11	1/4	3,156.89	1/4	3,401.67	1/4		1/4		1/4		1/4		1/4	
1/2	2,427.65	1/2	2,672.43	1/2	2,917.21	1/2	3,161.99	1/2	3,406.77	1/2		1/2		1/2		1/2		1/2	
3/4	2,432.75	3/4	2,677.53	3/4	2,922.31	3/4	3,167.09	3/4	3,411.87	3/4		3/4		3/4		3/4		3/4	
1	2,437.85	1	2,682.63	1	2,927.41	1	3,172.19	1	3,416.97	1		1		1		1		1	
1/4	2,442.94	1/4	2,687.73	1/4	2,932.51	1/4	3,177.29	1/4	3,422.07	1/4		1/4		1/4		1/4		1/4	
1/2	2,448.04	1/2	2,692.83	1/2	2,937.61	1/2	3,182.39	1/2	3,427.17	1/2		1/2		1/2		1/2		1/2	
3/4	2,453.14	3/4	2,697.92	3/4	2,942.71	3/4	3,187.49	3/4	3,432.27	3/4		3/4		3/4		3/4		3/4	
2	2,458.24	2	2,703.02	2	2,947.81	2	3,192.59	2	3,437.37	2		2		2		2		2	
1/4	2,463.34	1/4	2,708.12	1/4	2,952.90	1/4	3,197.69	1/4	3,442.47	1/4		1/4		1/4		1/4		1/4	
1/2	2,468.44	1/2	2,713.22	1/2	2,958.00	1/2	3,202.79	1/2	3,447.57	1/2		1/2		1/2		1/2		1/2	
3/4	2,473.54	3/4	2,718.32	3/4	2,963.10	3/4	3,207.88	3/4	3,452.67	3/4		3/4		3/4		3/4		3/4	
3	2,478.64	3	2,723.42	3	2,968.20	3	3,212.98	3	3,457.77	3		3		3		3		3	
1/4	2,483.74	1/4	2,728.52	1/4	2,973.30	1/4	3,218.08	1/4	3,462.86	1/4		1/4		1/4		1/4		1/4	
1/2	2,488.84	1/2	2,733.62	1/2	2,978.40	1/2	3,223.18	1/2	3,467.96	1/2		1/2		1/2		1/2		1/2	
3/4	2,493.94	3/4	2,738.72	3/4	2,983.50	3/4	3,228.28	3/4	3,473.06	3/4		3/4		3/4		3/4		3/4	
4	2,499.04	4	2,743.82	4	2,988.60	4	3,233.38	4	3,478.16	4		4		4		4		4	
1/4	2,504.14	1/4	2,748.92	1/4	2,993.70	1/4	3,238.48	1/4	3,483.26	1/4		1/4		1/4		1/4		1/4	
1/2	2,509.24	1/2	2,754.02	1/2	2,998.80	1/2	3,243.58	1/2	3,488.35	1/2		1/2		1/2		1/2		1/2	
3/4	2,514.34	3/4	2,759.12	3/4	3,003.90	3/4	3,248.68	3/4	3,493.45	3/4		3/4		3/4		3/4		3/4	
5	2,519.44	5	2,764.22	5	3,009.00	5	3,253.78	5	3,498.54	5		5		5		5		5	
1/4	2,524.54	1/4	2,769.32	1/4	3,014.10	1/4	3,258.88	1/4	3,502.79	1/4		1/4		1/4		1/4		1/4	
1/2	2,529.64	1/2	2,774.42	1/2	3,019.20	1/2	3,263.98	1/2	3,507.04	1/2		1/2		1/2		1/2		1/2	
3/4	2,534.74	3/4	2,779.52	3/4	3,024.30	3/4	3,269.08	3/4	3,511.29	3/4		3/4		3/4		3/4		3/4	
6	2,539.84	6	2,784.62	6	3,029.40	6	3,274.18	6	3,515.54	6		6		6		6		6	
1/4	2,544.94	1/4	2,789.72	1/4	3,034.50	1/4	3,279.28	1/4	3,518.09	1/4		1/4		1/4		1/4		1/4	
1/2	2,550.04	1/2	2,794.82	1/2	3,039.60	1/2	3,284.38	1/2	3,520.64	1/2		1/2		1/2		1/2		1/2	
3/4	2,555.14	3/4	2,799.92	3/4	3,044.70	3/4	3,289.48	3/4	3,523.19	3/4		3/4		3/4		3/4		3/4	
7	2,560.24	7	2,805.02	7	3,049.80	7	3,294.58	7	3,525.74	7		7		7		7		7	
1/4	2,565.34	1/4	2,810.12	1/4	3,054.90	1/4	3,299.68	1/4	3,526.59	1/4		1/4		1/4		1/4		1/4	
1/2	2,570.43	1/2	2,815.22	1/2	3,060.00	1/2	3,304.78	1/2	3,527.44	1/2		1/2		1/2		1/2		1/2	
3/4	2,575.53	3/4	2,820.32	3/4	3,065.10	3/4	3,309.88	3/4	3,528.29	3/4		3/4		3/4		3/4		3/4	
8	2,580.63	8	2,825.41	8	3,070.20	8	3,314.98	8	3,529.14	8		8		8		8		8	
1/4	2,585.73	1/4	2,830.51	1/4	3,075.30	1/4	3,320.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,590.83	1/2	2,835.61	1/2	3,080.39	1/2	3,325.18	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,595.93	3/4	2,840.71	3/4	3,085.49	3/4	3,330.28	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,601.03	9	2,845.81	9	3,090.59	9	3,335.37	9		9		9		9		9		9	
1/4	2,606.13	1/4	2,850.91	1/4	3,095.69	1/4	3,340.47	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,611.23	1/2	2,856.01	1/2	3,100.79	1/2	3,345.57	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,616.33	3/4	2,861.11	3/4	3,105.89	3/4	3,350.67	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,621.43	10	2,866.21	10	3,110.99	10	3,355.77	10		10		10		10		10		10	
1/4	2,626.53	1/4	2,871.31	1/4	3,116.09	1/4	3,360.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,631.63	1/2	2,876.41	1/2	3,121.19	1/2	3,365.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,636.73	3/4	2,881.51	3/4	3,126.29	3/4	3,371.07	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,641.83	11	2,886.61	11	3,131.39	11	3,376.17	11		11		11		11		11		11	
1/4	2,646.93	1/4	2,891.71	1/4	3,136.49	1/4	3,381.27	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,652.03	1/2	2,896.81	1/2	3,141.59	1/2	3,386.37	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,657.13	3/4	2,901.91	3/4	3,146.69	3/4	3,391.47	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/06/2021 JS  
CALCULATED: 01/06/2021 CL  
PRINTED: 01/06/2021 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2021

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



# BARGE "HFL 214"

## 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	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8	- 00-3/4	00-3/4	- 01-0/8	01-0/8
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	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-2/8	00-2/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2

(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 00-3/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 3/8"

LENGTH BETWEEN DRAFT MARKS: 162'-03"

January 6, 2021

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

<http://www.pmacorp.net>





# BARGE "HFL 214"

# 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-09 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	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
0		0		0	3,220.97	0	3,009.90	0	2,798.83	0	2,583.81	0	2,341.22	0	2,098.62	0	1,855.97	0	1,613.31
1/4	1/4	1/4	1/4	1/4	3,216.57	1/4	3,005.50	1/4	2,794.43	1/4	2,578.75	1/4	2,336.17	1/4	2,093.57	1/4	1,850.91	1/4	1,608.26
1/2	1/2	1/2	1/2	1/2	3,212.17	1/2	3,001.10	1/2	2,790.03	1/2	2,573.70	1/2	2,331.12	1/2	2,088.51	1/2	1,845.86	1/2	1,603.20
3/4	3/4	3/4	3/4	3/4	3,207.77	3/4	2,996.70	3/4	2,785.63	3/4	2,568.64	3/4	2,326.07	3/4	2,083.46	3/4	1,840.80	3/4	1,598.15
1	1	1	1	1	3,203.38	1	2,992.31	1	2,781.24	1	2,563.59	1	2,321.02	1	2,078.40	1	1,835.75	1	1,593.09
1/4	1/4	1/4	1/4	1/4	3,198.98	1/4	2,987.91	1/4	2,776.84	1/4	2,558.53	1/4	2,315.97	1/4	2,073.35	1/4	1,830.69	1/4	1,588.04
1/2	1/2	1/2	1/2	1/2	3,375.18	1/2	3,194.58	1/2	2,983.51	1/2	2,772.44	1/2	2,553.48	1/2	2,310.92	1/2	1,825.64	1/2	1,582.98
3/4	3/4	3/4	3/4	3/4	3,375.01	3/4	3,190.19	3/4	2,979.11	3/4	2,768.04	3/4	2,548.43	3/4	2,305.87	3/4	1,820.58	3/4	1,577.93
2	2	2	2	2	3,374.84	2	3,185.79	2	2,974.72	2	2,763.65	2	2,543.37	2	2,300.81	2	1,815.53	2	1,572.87
1/4	1/4	1/4	1/4	1/4	3,374.66	1/4	3,181.39	1/4	2,970.32	1/4	2,759.25	1/4	2,538.32	1/4	2,295.76	1/4	1,810.47	1/4	1,567.82
1/2	1/2	1/2	1/2	1/2	3,374.49	1/2	3,176.99	1/2	2,965.92	1/2	2,754.85	1/2	2,533.26	1/2	2,290.71	1/2	1,805.42	1/2	1,562.76
3/4	3/4	3/4	3/4	3/4	3,372.63	3/4	3,172.60	3/4	2,961.53	3/4	2,750.46	3/4	2,528.21	3/4	2,285.66	3/4	1,800.36	3/4	1,557.71
3	3	3	3	3	3,370.76	3	3,168.20	3	2,957.13	3	2,746.06	3	2,523.15	3	2,280.61	3	1,795.31	3	1,552.65
1/4	1/4	1/4	1/4	1/4	3,368.90	1/4	3,163.80	1/4	2,952.73	1/4	2,741.66	1/4	2,518.10	1/4	2,275.56	1/4	1,790.25	1/4	1,547.60
1/2	1/2	1/2	1/2	1/2	3,367.04	1/2	3,159.40	1/2	2,948.33	1/2	2,737.26	1/2	2,513.04	1/2	2,270.51	1/2	1,785.20	1/2	1,542.54
3/4	3/4	3/4	3/4	3/4	3,363.49	3/4	3,155.01	3/4	2,943.94	3/4	2,732.87	3/4	2,507.99	3/4	2,265.45	3/4	1,780.14	3/4	1,537.49
4	4	4	4	4	3,359.93	4	3,150.61	4	2,939.54	4	2,728.47	4	2,502.93	4	2,260.40	4	1,775.08	4	1,532.43
1/4	1/4	1/4	1/4	1/4	3,356.38	1/4	3,146.21	1/4	2,935.14	1/4	2,724.07	1/4	2,497.88	1/4	2,255.34	1/4	1,770.03	1/4	1,527.37
1/2	1/2	1/2	1/2	1/2	3,352.83	1/2	3,141.81	1/2	2,930.74	1/2	2,719.67	1/2	2,492.82	1/2	2,250.29	1/2	1,764.97	1/2	1,522.32
3/4	3/4	3/4	3/4	3/4	3,348.45	3/4	3,137.42	3/4	2,926.35	3/4	2,715.28	3/4	2,487.77	3/4	2,245.23	3/4	1,759.92	3/4	1,517.26
5	5	5	5	5	3,344.06	5	3,133.02	5	2,921.95	5	2,710.88	5	2,482.72	5	2,240.18	5	1,754.86	5	1,512.21
1/4	1/4	1/4	1/4	1/4	3,339.68	1/4	3,128.62	1/4	2,917.55	1/4	2,706.48	1/4	2,477.66	1/4	2,235.12	1/4	1,749.81	1/4	1,507.15
1/2	1/2	1/2	1/2	1/2	3,335.30	1/2	3,124.23	1/2	2,913.16	1/2	2,702.08	1/2	2,472.61	1/2	2,230.06	1/2	1,744.75	1/2	1,502.10
3/4	3/4	3/4	3/4	3/4	3,330.90	3/4	3,119.83	3/4	2,908.76	3/4	2,697.69	3/4	2,467.55	3/4	2,225.01	3/4	1,739.70	3/4	1,497.04
6	6	6	6	6	3,326.50	6	3,115.43	6	2,904.36	6	2,693.29	6	2,462.50	6	2,219.95	6	1,734.64	6	1,491.99
1/4	1/4	1/4	1/4	1/4	3,322.10	1/4	3,111.03	1/4	2,899.96	1/4	2,688.89	1/4	2,457.44	1/4	2,214.90	1/4	1,729.59	1/4	1,486.93
1/2	1/2	1/2	1/2	1/2	3,317.71	1/2	3,106.64	1/2	2,895.57	1/2	2,684.50	1/2	2,452.39	1/2	2,209.84	1/2	1,724.53	1/2	1,481.88
3/4	3/4	3/4	3/4	3/4	3,313.31	3/4	3,102.24	3/4	2,891.17	3/4	2,680.10	3/4	2,447.33	3/4	2,204.79	3/4	1,719.48	3/4	1,476.82
7	7	7	7	7	3,308.91	7	3,097.84	7	2,886.77	7	2,675.70	7	2,442.28	7	2,199.73	7	1,714.42	7	1,471.77
1/4	1/4	1/4	1/4	1/4	3,304.51	1/4	3,093.44	1/4	2,882.37	1/4	2,671.30	1/4	2,437.22	1/4	2,194.68	1/4	1,709.37	1/4	1,466.71
1/2	1/2	1/2	1/2	1/2	3,300.12	1/2	3,089.05	1/2	2,877.98	1/2	2,666.91	1/2	2,432.17	1/2	2,189.62	1/2	1,704.31	1/2	1,461.66
3/4	3/4	3/4	3/4	3/4	3,295.72	3/4	3,084.65	3/4	2,873.58	3/4	2,662.51	3/4	2,427.11	3/4	2,184.57	3/4	1,699.26	3/4	1,456.60
8	8	8	8	8	3,291.32	8	3,080.25	8	2,869.18	8	2,658.11	8	2,422.06	8	2,179.51	8	1,693.85	8	1,451.55
1/4	1/4	1/4	1/4	1/4	3,286.93	1/4	3,075.86	1/4	2,864.78	1/4	2,653.71	1/4	2,417.01	1/4	2,174.45	1/4	1,688.80	1/4	1,446.49
1/2	1/2	1/2	1/2	1/2	3,282.53	1/2	3,071.46	1/2	2,860.39	1/2	2,649.32	1/2	2,411.95	1/2	2,169.40	1/2	1,683.74	1/2	1,441.43
3/4	3/4	3/4	3/4	3/4	3,278.13	3/4	3,067.06	3/4	2,855.99	3/4	2,644.92	3/4	2,406.90	3/4	2,164.34	3/4	1,678.68	3/4	1,436.38
9	9	9	9	9	3,273.73	9	3,062.66	9	2,851.59	9	2,640.52	9	2,401.84	9	2,159.29	9	1,673.63	9	1,431.32
1/4	1/4	1/4	1/4	1/4	3,269.34	1/4	3,058.27	1/4	2,847.20	1/4	2,636.13	1/4	2,396.79	1/4	2,154.23	1/4	1,668.57	1/4	1,426.27
1/2	1/2	1/2	1/2	1/2	3,264.94	1/2	3,053.87	1/2	2,842.80	1/2	2,631.73	1/2	2,391.73	1/2	2,149.18	1/2	1,663.52	1/2	1,421.21
3/4	3/4	3/4	3/4	3/4	3,260.54	3/4	3,049.47	3/4	2,838.40	3/4	2,627.33	3/4	2,386.68	3/4	2,144.12	3/4	1,658.47	3/4	1,416.16
10	10	10	10	10	3,256.14	10	3,045.07	10	2,834.00	10	2,622.93	10	2,381.63	10	2,139.07	10	1,653.76	10	1,411.10
1/4	1/4	1/4	1/4	1/4	3,251.75	1/4	3,040.68	1/4	2,829.61	1/4	2,618.54	1/4	2,376.58	1/4	2,134.01	1/4	1,648.70	1/4	1,406.05
1/2	1/2	1/2	1/2	1/2	3,247.35	1/2	3,036.28	1/2	2,825.21	1/2	2,614.14	1/2	2,371.53	1/2	2,128.96	1/2	1,643.65	1/2	1,400.99
3/4	3/4	3/4	3/4	3/4	3,242.95	3/4	3,031.88	3/4	2,820.81	3/4	2,609.08	3/4	2,366.48	3/4	2,123.90	3/4	1,638.59	3/4	1,395.94
11	11	11	11	11	3,238.56	11	3,027.48	11	2,816.41	11	2,604.03	11	2,361.43	11	2,118.84	11	1,633.54	11	1,390.88
1/4	1/4	1/4	1/4	1/4	3,234.16	1/4	3,023.09	1/4	2,812.02	1/4	2,598.97	1/4	2,356.38	1/4	2,113.79	1/4	1,628.48	1/4	1,385.83
1/2	1/2	1/2	1/2	1/2	3,229.76	1/2	3,018.69	1/2	2,807.62	1/2	2,593.92	1/2	2,351.32	1/2	2,108.73	1/2	1,623.43	1/2	1,380.77
3/4	3/4	3/4	3/4	3/4	3,225.36	3/4	3,014.29	3/4	2,803.22	3/4	2,588.86	3/4	2,346.27	3/4	2,103.68	3/4	1,618.37	3/4	1,375.72

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 24'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
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 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "HFL 214"

## 1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-09 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	1,370.66	0	1,128.01	0	885.35	0	642.59	0	402.95	0	162.88	0		0		0		0	
1/4	1,365.61	1/4	1,122.95	1/4	880.30	1/4	637.52	1/4	398.05	1/4	157.81	1/4		1/4		1/4		1/4	
1/2	1,360.55	1/2	1,117.90	1/2	875.24	1/2	632.45	1/2	393.15	1/2	152.74	1/2		1/2		1/2		1/2	
3/4	1,355.49	3/4	1,112.84	3/4	870.19	3/4	627.39	3/4	388.25	3/4	147.67	3/4		3/4		3/4		3/4	
1	1,350.44	1	1,107.78	1	865.13	1	622.32	1	383.35	1	142.61	1		1		1		1	
1/4	1,345.38	1/4	1,102.73	1/4	860.08	1/4	617.25	1/4	378.45	1/4	137.54	1/4		1/4		1/4		1/4	
1/2	1,340.33	1/2	1,097.67	1/2	855.02	1/2	612.19	1/2	373.55	1/2	132.47	1/2		1/2		1/2		1/2	
3/4	1,335.27	3/4	1,092.62	3/4	849.97	3/4	607.12	3/4	368.62	3/4	127.40	3/4		3/4		3/4		3/4	
2	1,330.22	2	1,087.56	2	844.91	2	602.05	2	363.70	2	122.33	2		2		2		2	
1/4	1,325.16	1/4	1,082.51	1/4	839.86	1/4	596.99	1/4	358.77	1/4	117.26	1/4		1/4		1/4		1/4	
1/2	1,320.11	1/2	1,077.45	1/2	834.80	1/2	591.92	1/2	353.84	1/2	112.20	1/2		1/2		1/2		1/2	
3/4	1,315.05	3/4	1,072.40	3/4	829.75	3/4	586.85	3/4	348.91	3/4	107.13	3/4		3/4		3/4		3/4	
3	1,310.00	3	1,067.34	3	824.69	3	581.79	3	343.98	3	102.06	3		3		3		3	
1/4	1,304.94	1/4	1,062.29	1/4	819.64	1/4	576.72	1/4	339.06	1/4	96.99	1/4		1/4		1/4		1/4	
1/2	1,299.89	1/2	1,057.23	1/2	814.58	1/2	571.65	1/2	334.13	1/2	91.92	1/2		1/2		1/2		1/2	
3/4	1,294.83	3/4	1,052.18	3/4	809.53	3/4	566.59	3/4	329.11	3/4	86.85	3/4		3/4		3/4		3/4	
4	1,289.78	4	1,047.12	4	804.47	4	561.52	4	324.10	4	81.79	4		4		4		4	
1/4	1,284.72	1/4	1,042.07	1/4	799.42	1/4	556.45	1/4	319.09	1/4	76.72	1/4		1/4		1/4		1/4	
1/2	1,279.67	1/2	1,037.01	1/2	794.36	1/2	551.39	1/2	314.07	1/2	71.65	1/2		1/2		1/2		1/2	
3/4	1,274.61	3/4	1,031.96	3/4	789.31	3/4	546.32	3/4	309.06	3/4	66.60	3/4		3/4		3/4		3/4	
5	1,269.55	5	1,026.90	5	784.25	5	541.25	5	304.05	5	61.54	5		5		5		5	
1/4	1,264.50	1/4	1,021.84	1/4	779.19	1/4	536.19	1/4	299.03	1/4	56.49	1/4		1/4		1/4		1/4	
1/2	1,259.44	1/2	1,016.79	1/2	774.14	1/2	531.12	1/2	294.02	1/2	51.43	1/2		1/2		1/2		1/2	
3/4	1,254.39	3/4	1,011.73	3/4	769.08	3/4	526.18	3/4	288.99	3/4	46.41	3/4		3/4		3/4		3/4	
6	1,249.33	6	1,006.68	6	764.03	6	521.25	6	283.96	6	41.38	6		6		6		6	
1/4	1,244.28	1/4	1,001.62	1/4	758.97	1/4	516.31	1/4	278.93	1/4	36.36	1/4		1/4		1/4		1/4	
1/2	1,239.22	1/2	996.57	1/2	753.92	1/2	511.38	1/2	273.89	1/2	31.33	1/2		1/2		1/2		1/2	
3/4	1,234.17	3/4	991.51	3/4	748.86	3/4	506.44	3/4	268.86	3/4	27.11	3/4		3/4		3/4		3/4	
7	1,229.11	7	986.46	7	743.81	7	501.51	7	263.83	7	22.89	7		7		7		7	
1/4	1,224.06	1/4	981.40	1/4	738.75	1/4	496.57	1/4	258.80	1/4	18.67	1/4		1/4		1/4		1/4	
1/2	1,219.00	1/2	976.35	1/2	733.70	1/2	491.64	1/2	253.77	1/2	14.45	1/2		1/2		1/2		1/2	
3/4	1,213.95	3/4	971.29	3/4	728.64	3/4	486.70	3/4	248.75	3/4	11.91	3/4		3/4		3/4		3/4	
8	1,208.89	8	966.24	8	723.59	8	481.77	8	243.73	8	9.38	8		8		8		8	
1/4	1,203.84	1/4	961.18	1/4	718.53	1/4	476.83	1/4	238.72	1/4	6.85	1/4		1/4		1/4		1/4	
1/2	1,198.78	1/2	956.13	1/2	713.48	1/2	471.90	1/2	233.70	1/2	4.31	1/2		1/2		1/2		1/2	
3/4	1,193.73	3/4	951.07	3/4	708.42	3/4	466.96	3/4	228.67	3/4	3.47	3/4		3/4		3/4		3/4	
9	1,188.67	9	946.02	9	703.37	9	462.02	9	223.63	9	2.62	9		9		9		9	
1/4	1,183.61	1/4	940.96	1/4	698.31	1/4	457.09	1/4	218.60	1/4	1.78	1/4		1/4		1/4		1/4	
1/2	1,178.56	1/2	935.91	1/2	693.26	1/2	452.15	1/2	213.56	1/2	0.93	1/2		1/2		1/2		1/2	
3/4	1,173.50	3/4	930.85	3/4	688.19	3/4	447.22	3/4	208.49	3/4		3/4		3/4		3/4		3/4	
10	1,168.45	10	925.80	10	683.12	10	442.28	10	203.43	10		10		10		10		10	
1/4	1,163.39	1/4	920.74	1/4	678.06	1/4	437.35	1/4	198.36	1/4		1/4		1/4		1/4		1/4	
1/2	1,158.34	1/2	915.69	1/2	672.99	1/2	432.41	1/2	193.29	1/2		1/2		1/2		1/2		1/2	
3/4	1,153.28	3/4	910.63	3/4	667.92	3/4	427.50	3/4	188.22	3/4		3/4		3/4		3/4		3/4	
11	1,148.23	11	905.57	11	662.86	11	422.58	11	183.15	11		11		11		11		11	
1/4	1,143.17	1/4	900.52	1/4	657.79	1/4	417.66	1/4	178.08	1/4		1/4		1/4		1/4		1/4	
1/2	1,138.12	1/2	895.46	1/2	652.72	1/2	412.74	1/2	173.02	1/2		1/2		1/2		1/2		1/2	
3/4	1,133.06	3/4	890.41	3/4	647.66	3/4	407.84	3/4	167.95	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/06/2021 JS  
CALCULATED: 01/06/2021 CL  
PRINTED: 01/06/2021 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2021

PRECISION MEASUREMENT  
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# BARGE "HFL 214"

## 2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-09 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	3,830.30	0	3,549.12	0	3,267.93	0	2,986.74	0	2,705.55	0	2,424.36	0	2,143.17	0	1,861.98
1/4		1/4		1/4	3,824.45	1/4	3,543.26	1/4	3,262.07	1/4	2,980.88	1/4	2,699.69	1/4	2,418.50	1/4	2,137.31	1/4	1,856.12
1/2		1/2		1/2	3,818.59	1/2	3,537.40	1/2	3,256.21	1/2	2,975.02	1/2	2,693.83	1/2	2,412.64	1/2	2,131.45	1/2	1,850.27
3/4		3/4		3/4	3,812.73	3/4	3,531.54	3/4	3,250.35	3/4	2,969.16	3/4	2,687.97	3/4	2,406.79	3/4	2,125.60	3/4	1,844.41
1		1		1	3,806.87	1	3,525.68	1	3,244.49	1	2,963.31	1	2,682.12	1	2,400.93	1	2,119.74	1	1,838.55
1/4		1/4		1/4	4,046.95	1/4	3,801.01	1/4	3,519.82	1/4	3,238.64	1/4	2,957.45	1/4	2,676.26	1/4	2,395.07	1/4	2,113.88
1/2		1/2		1/2	4,045.97	1/2	3,795.16	1/2	3,513.97	1/2	3,232.78	1/2	2,951.59	1/2	2,670.40	1/2	2,389.21	1/2	2,108.02
3/4		3/4		3/4	4,045.00	3/4	3,789.30	3/4	3,508.11	3/4	3,226.92	3/4	2,945.73	3/4	2,664.54	3/4	2,383.35	3/4	2,102.16
2		2		2	4,044.02	2	3,783.44	2	3,502.25	2	3,221.06	2	2,939.87	2	2,658.68	2	2,377.50	2	2,096.31
1/4		1/4		1/4	4,043.04	1/4	3,777.58	1/4	3,496.39	1/4	3,215.20	1/4	2,934.01	1/4	2,652.83	1/4	2,371.64	1/4	2,090.45
1/2		1/2		1/2	4,040.11	1/2	3,771.72	1/2	3,490.53	1/2	3,209.35	1/2	2,928.16	1/2	2,646.97	1/2	2,365.78	1/2	2,084.59
3/4		3/4		3/4	4,037.19	3/4	3,765.86	3/4	3,484.68	3/4	3,203.49	3/4	2,922.30	3/4	2,641.11	3/4	2,359.92	3/4	2,078.73
3		3		3	4,034.26	3	3,760.01	3	3,478.82	3	3,197.63	3	2,916.44	3	2,635.25	3	2,354.06	3	2,072.87
1/4		1/4		1/4	4,031.33	1/4	3,754.15	1/4	3,472.96	1/4	3,191.77	1/4	2,910.58	1/4	2,629.39	1/4	2,348.20	1/4	2,067.02
1/2		1/2		1/2	4,026.45	1/2	3,748.29	1/2	3,467.10	1/2	3,185.91	1/2	2,904.72	1/2	2,623.54	1/2	2,342.35	1/2	2,061.16
3/4		3/4		3/4	4,021.57	3/4	3,742.43	3/4	3,461.24	3/4	3,180.05	3/4	2,898.87	3/4	2,617.68	3/4	2,336.49	3/4	2,055.30
4		4		4	4,016.68	4	3,736.57	4	3,455.39	4	3,174.20	4	2,893.01	4	2,611.82	4	2,330.63	4	2,049.44
1/4		1/4		1/4	4,011.80	1/4	3,730.72	1/4	3,449.53	1/4	3,168.34	1/4	2,887.15	1/4	2,605.96	1/4	2,324.77	1/4	2,043.58
1/2		1/2		1/2	4,005.97	1/2	3,724.86	1/2	3,443.67	1/2	3,162.48	1/2	2,881.29	1/2	2,600.10	1/2	2,318.91	1/2	2,037.73
3/4		3/4		3/4	4,000.14	3/4	3,719.00	3/4	3,437.81	3/4	3,156.62	3/4	2,875.43	3/4	2,594.24	3/4	2,313.06	3/4	2,031.87
5		5		5	3,994.31	5	3,713.14	5	3,431.95	5	3,150.76	5	2,869.58	5	2,588.39	5	2,307.20	5	2,026.01
1/4		1/4		1/4	3,988.47	1/4	3,707.28	1/4	3,426.09	1/4	3,144.91	1/4	2,863.72	1/4	2,582.53	1/4	2,301.34	1/4	2,020.15
1/2		1/2		1/2	3,982.61	1/2	3,701.43	1/2	3,420.24	1/2	3,139.05	1/2	2,857.86	1/2	2,576.67	1/2	2,295.48	1/2	2,014.29
3/4		3/4		3/4	3,976.76	3/4	3,695.57	3/4	3,414.38	3/4	3,133.19	3/4	2,852.00	3/4	2,570.81	3/4	2,289.62	3/4	2,008.43
6		6		6	3,970.90	6	3,689.71	6	3,408.52	6	3,127.33	6	2,846.14	6	2,564.95	6	2,283.77	6	2,002.58
1/4		1/4		1/4	3,965.04	1/4	3,683.85	1/4	3,402.66	1/4	3,121.47	1/4	2,840.28	1/4	2,559.10	1/4	2,277.91	1/4	1,996.72
1/2		1/2		1/2	3,959.18	1/2	3,677.99	1/2	3,396.80	1/2	3,115.62	1/2	2,834.43	1/2	2,553.24	1/2	2,272.05	1/2	1,990.86
3/4		3/4		3/4	3,953.32	3/4	3,672.14	3/4	3,390.95	3/4	3,109.76	3/4	2,828.57	3/4	2,547.38	3/4	2,266.19	3/4	1,985.00
7		7		7	3,947.47	7	3,666.28	7	3,385.09	7	3,103.90	7	2,822.71	7	2,541.52	7	2,260.33	7	1,979.14
1/4		1/4		1/4	3,941.61	1/4	3,660.42	1/4	3,379.23	1/4	3,098.04	1/4	2,816.85	1/4	2,535.66	1/4	2,254.47	1/4	1,973.29
1/2		1/2		1/2	3,935.75	1/2	3,654.56	1/2	3,373.37	1/2	3,092.18	1/2	2,810.99	1/2	2,529.81	1/2	2,248.62	1/2	1,967.43
3/4		3/4		3/4	3,929.89	3/4	3,648.70	3/4	3,367.51	3/4	3,086.33	3/4	2,805.14	3/4	2,523.95	3/4	2,242.76	3/4	1,961.57
8		8		8	3,924.03	8	3,642.84	8	3,361.66	8	3,080.47	8	2,799.28	8	2,518.09	8	2,236.90	8	1,955.71
1/4		1/4		1/4	3,918.18	1/4	3,636.99	1/4	3,355.80	1/4	3,074.61	1/4	2,793.42	1/4	2,512.23	1/4	2,231.04	1/4	1,949.85
1/2		1/2		1/2	3,912.32	1/2	3,631.13	1/2	3,349.94	1/2	3,068.75	1/2	2,787.56	1/2	2,506.37	1/2	2,225.18	1/2	1,944.00
3/4		3/4		3/4	3,906.46	3/4	3,625.27	3/4	3,344.08	3/4	3,062.89	3/4	2,781.70	3/4	2,500.52	3/4	2,219.33	3/4	1,938.14
9		9		9	3,900.60	9	3,619.41	9	3,338.22	9	3,057.03	9	2,775.85	9	2,494.66	9	2,213.47	9	1,932.28
1/4		1/4		1/4	3,894.74	1/4	3,613.55	1/4	3,332.37	1/4	3,051.18	1/4	2,769.99	1/4	2,488.80	1/4	2,207.61	1/4	1,926.42
1/2		1/2		1/2	3,888.88	1/2	3,607.70	1/2	3,326.51	1/2	3,045.32	1/2	2,764.13	1/2	2,482.94	1/2	2,201.75	1/2	1,920.56
3/4		3/4		3/4	3,883.03	3/4	3,601.84	3/4	3,320.65	3/4	3,039.46	3/4	2,758.27	3/4	2,477.08	3/4	2,195.89	3/4	1,914.71
10		10		10	3,877.17	10	3,595.98	10	3,314.79	10	3,033.60	10	2,752.41	10	2,471.22	10	2,190.04	10	1,908.85
1/4		1/4		1/4	3,871.31	1/4	3,590.12	1/4	3,308.93	1/4	3,027.74	1/4	2,746.56	1/4	2,465.37	1/4	2,184.18	1/4	1,902.99
1/2		1/2		1/2	3,865.45	1/2	3,584.26	1/2	3,303.07	1/2	3,021.89	1/2	2,740.70	1/2	2,459.51	1/2	2,178.32	1/2	1,897.13
3/4		3/4		3/4	3,859.59	3/4	3,578.41	3/4	3,297.22	3/4	3,016.03	3/4	2,734.84	3/4	2,453.65	3/4	2,172.46	3/4	1,891.27
11		11		11	3,853.74	11	3,572.55	11	3,291.36	11	3,010.17	11	2,728.98	11	2,447.79	11	2,166.60	11	1,885.41
1/4		1/4		1/4	3,847.88	1/4	3,566.69	1/4	3,285.50	1/4	3,004.31	1/4	2,723.12	1/4	2,441.93	1/4	2,160.75	1/4	1,879.56
1/2		1/2		1/2	3,842.02	1/2	3,560.83	1/2	3,279.64	1/2	2,998.45	1/2	2,717.26	1/2	2,436.08	1/2	2,154.89	1/2	1,873.70
3/4		3/4		3/4	3,836.16	3/4	3,554.97	3/4	3,273.78	3/4	2,992.60	3/4	2,711.41	3/4	2,430.22	3/4	2,149.03	3/4	1,867.84

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 32'-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 214"

## 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	1,574.94	1/4	1,293.75	1/4	1,012.56	1/4	731.37	1/4	453.09	1/4	176.39	1/4		1/4		1/4		1/4		1/4	
1/2	1,569.08	1/2	1,287.89	1/2	1,006.70	1/2	725.51	1/2	447.42	1/2	170.53	1/2		1/2		1/2		1/2		1/2	
3/4	1,563.22	3/4	1,282.03	3/4	1,000.84	3/4	719.65	3/4	441.74	3/4	164.68	3/4		3/4		3/4		3/4		3/4	
1	1,557.36	1	1,276.17	1	994.98	1	713.79	1	436.07	1	158.82	1		1		1		1		1	
1/4	1,551.50	1/4	1,270.31	1/4	989.13	1/4	707.94	1/4	430.40	1/4	152.96	1/4		1/4		1/4		1/4		1/4	
1/2	1,545.64	1/2	1,264.46	1/2	983.27	1/2	702.08	1/2	424.73	1/2	147.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,539.79	3/4	1,258.60	3/4	977.41	3/4	696.22	3/4	419.06	3/4	141.24	3/4		3/4		3/4		3/4		3/4	
2	1,533.93	2	1,252.74	2	971.55	2	690.36	2	413.39	2	135.39	2		2		2		2		2	
1/4	1,528.07	1/4	1,246.88	1/4	965.69	1/4	684.50	1/4	407.72	1/4	129.53	1/4		1/4		1/4		1/4		1/4	
1/2	1,522.21	1/2	1,241.02	1/2	959.83	1/2	678.65	1/2	402.05	1/2	123.67	1/2		1/2		1/2		1/2		1/2	
3/4	1,516.35	3/4	1,235.17	3/4	953.98	3/4	672.79	3/4	396.38	3/4	117.81	3/4		3/4		3/4		3/4		3/4	
3	1,510.50	3	1,229.31	3	948.12	3	666.93	3	390.70	3	111.96	3		3		3		3		3	
1/4	1,504.64	1/4	1,223.45	1/4	942.26	1/4	661.07	1/4	385.03	1/4	106.10	1/4		1/4		1/4		1/4		1/4	
1/2	1,498.78	1/2	1,217.59	1/2	936.40	1/2	655.21	1/2	379.36	1/2	100.24	1/2		1/2		1/2		1/2		1/2	
3/4	1,492.92	3/4	1,211.73	3/4	930.54	3/4	649.36	3/4	373.69	3/4	94.39	3/4		3/4		3/4		3/4		3/4	
4	1,487.06	4	1,205.88	4	924.69	4	643.50	4	368.02	4	88.53	4		4		4		4		4	
1/4	1,481.21	1/4	1,200.02	1/4	918.83	1/4	637.64	1/4	362.35	1/4	82.67	1/4		1/4		1/4		1/4		1/4	
1/2	1,475.35	1/2	1,194.16	1/2	912.97	1/2	631.78	1/2	356.68	1/2	76.83	1/2		1/2		1/2		1/2		1/2	
3/4	1,469.49	3/4	1,188.30	3/4	907.11	3/4	625.92	3/4	351.01	3/4	70.99	3/4		3/4		3/4		3/4		3/4	
5	1,463.63	5	1,182.44	5	901.25	5	620.07	5	345.33	5	65.14	5		5		5		5		5	
1/4	1,457.77	1/4	1,176.58	1/4	895.40	1/4	614.21	1/4	339.66	1/4	59.30	1/4		1/4		1/4		1/4		1/4	
1/2	1,451.92	1/2	1,170.73	1/2	889.54	1/2	608.35	1/2	333.99	1/2	53.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,446.06	3/4	1,164.87	3/4	883.68	3/4	602.49	3/4	328.32	3/4	47.69	3/4		3/4		3/4		3/4		3/4	
6	1,440.20	6	1,159.01	6	877.82	6	596.63	6	322.65	6	41.88	6		6		6		6		6	
1/4	1,434.34	1/4	1,153.15	1/4	871.96	1/4	590.77	1/4	316.98	1/4	36.07	1/4		1/4		1/4		1/4		1/4	
1/2	1,428.48	1/2	1,147.29	1/2	866.11	1/2	584.92	1/2	311.12	1/2	31.19	1/2		1/2		1/2		1/2		1/2	
3/4	1,422.62	3/4	1,141.44	3/4	860.25	3/4	579.06	3/4	305.26	3/4	26.31	3/4		3/4		3/4		3/4		3/4	
7	1,416.77	7	1,135.58	7	854.39	7	573.20	7	299.41	7	21.44	7		7		7		7		7	
1/4	1,410.91	1/4	1,129.72	1/4	848.53	1/4	567.34	1/4	293.55	1/4	16.56	1/4		1/4		1/4		1/4		1/4	
1/2	1,405.05	1/2	1,123.86	1/2	842.67	1/2	561.48	1/2	287.69	1/2	13.63	1/2		1/2		1/2		1/2		1/2	
3/4	1,399.19	3/4	1,118.00	3/4	836.81	3/4	555.63	3/4	281.83	3/4	10.70	3/4		3/4		3/4		3/4		3/4	
8	1,393.33	8	1,112.15	8	830.96	8	549.77	8	275.97	8	7.77	8		8		8		8		8	
1/4	1,387.48	1/4	1,106.29	1/4	825.10	1/4	543.91	1/4	270.12	1/4	4.84	1/4		1/4		1/4		1/4		1/4	
1/2	1,381.62	1/2	1,100.43	1/2	819.24	1/2	538.23	1/2	264.26	1/2	3.86	1/2		1/2		1/2		1/2		1/2	
3/4	1,375.76	3/4	1,094.57	3/4	813.38	3/4	532.55	3/4	258.40	3/4	2.89	3/4		3/4		3/4		3/4		3/4	
9	1,369.90	9	1,088.71	9	807.52	9	526.86	9	252.54	9	1.91	9		9		9		9		9	
1/4	1,364.04	1/4	1,082.85	1/4	801.67	1/4	521.18	1/4	246.68	1/4	0.94	1/4		1/4		1/4		1/4		1/4	
1/2	1,358.19	1/2	1,077.00	1/2	795.81	1/2	515.50	1/2	240.83	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,352.33	3/4	1,071.14	3/4	789.95	3/4	509.82	3/4	234.97	3/4		3/4		3/4		3/4		3/4		3/4	
10	1,346.47	10	1,065.28	10	784.09	10	504.14	10	229.11	10		10		10		10		10		10	
1/4	1,340.61	1/4	1,059.42	1/4	778.23	1/4	498.46	1/4	223.25	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,334.75	1/2	1,053.56	1/2	772.38	1/2	492.79	1/2	217.40	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,328.90	3/4	1,047.71	3/4	766.52	3/4	487.11	3/4	211.54	3/4		3/4		3/4		3/4		3/4		3/4	
11	1,323.04	11	1,041.85	11	760.66	11	481.44	11	205.68	11		11		11		11		11		11	
1/4	1,317.18	1/4	1,035.99	1/4	754.80	1/4	475.77	1/4	199.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1,311.32	1/2	1,030.13	1/2	748.94	1/2	470.10	1/2	193.96	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	1,305.46	3/4	1,024.27	3/4	743.09	3/4	464.43	3/4	188.11	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/06/2021 JS  
CALCULATED: 01/06/2021 CL  
PRINTED: 01/06/2021 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2021

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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# BARGE "HFL 214"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-09"

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	3,335.37	0	3,090.59	0	2,845.81	0	2,601.03	0	2,356.25	0	2,111.47	0	1,866.69	0	1,621.91
1/4		1/4		1/4	3,330.28	1/4	3,085.49	1/4	2,840.71	1/4	2,595.93	1/4	2,351.15	1/4	2,106.37	1/4	1,861.59	1/4	1,616.81
1/2		1/2		1/2	3,325.18	1/2	3,080.39	1/2	2,835.61	1/2	2,590.83	1/2	2,346.05	1/2	2,101.27	1/2	1,856.49	1/2	1,611.71
3/4		3/4		3/4	3,320.08	3/4	3,075.30	3/4	2,830.51	3/4	2,585.73	3/4	2,340.95	3/4	2,096.17	3/4	1,851.39	3/4	1,606.61
1		1	3,529.14	1	3,314.98	1	3,070.20	1	2,825.41	1	2,580.63	1	2,335.85	1	2,091.07	1	1,846.29	1	1,601.51
1/4		1/4	3,528.29	1/4	3,309.88	1/4	3,065.10	1/4	2,820.32	1/4	2,575.53	1/4	2,330.75	1/4	2,085.97	1/4	1,841.19	1/4	1,596.41
1/2		1/2	3,527.44	1/2	3,304.78	1/2	3,060.00	1/2	2,815.22	1/2	2,570.43	1/2	2,325.65	1/2	2,080.87	1/2	1,836.09	1/2	1,591.31
3/4		3/4	3,526.59	3/4	3,299.68	3/4	3,054.90	3/4	2,810.12	3/4	2,565.34	3/4	2,320.55	3/4	2,075.77	3/4	1,830.99	3/4	1,586.21
2		2	3,525.74	2	3,294.58	2	3,049.80	2	2,805.02	2	2,560.24	2	2,315.45	2	2,070.67	2	1,825.89	2	1,581.11
1/4		1/4	3,523.19	1/4	3,289.48	1/4	3,044.70	1/4	2,799.92	1/4	2,555.14	1/4	2,310.36	1/4	2,065.57	1/4	1,820.79	1/4	1,576.01
1/2		1/2	3,520.64	1/2	3,284.38	1/2	3,039.60	1/2	2,794.82	1/2	2,550.04	1/2	2,305.26	1/2	2,060.47	1/2	1,815.69	1/2	1,570.91
3/4		3/4	3,518.09	3/4	3,279.28	3/4	3,034.50	3/4	2,789.72	3/4	2,544.94	3/4	2,300.16	3/4	2,055.38	3/4	1,810.59	3/4	1,565.81
3		3	3,515.54	3	3,274.18	3	3,029.40	3	2,784.62	3	2,539.84	3	2,295.06	3	2,050.28	3	1,805.49	3	1,560.71
1/4		1/4	3,511.29	1/4	3,269.08	1/4	3,024.30	1/4	2,779.52	1/4	2,534.74	1/4	2,289.96	1/4	2,045.18	1/4	1,800.40	1/4	1,555.61
1/2		1/2	3,507.04	1/2	3,263.98	1/2	3,019.20	1/2	2,774.42	1/2	2,529.64	1/2	2,284.86	1/2	2,040.08	1/2	1,795.30	1/2	1,550.51
3/4		3/4	3,502.79	3/4	3,258.88	3/4	3,014.10	3/4	2,769.32	3/4	2,524.54	3/4	2,279.76	3/4	2,034.98	3/4	1,790.20	3/4	1,545.42
4		4	3,498.54	4	3,253.78	4	3,009.00	4	2,764.22	4	2,519.44	4	2,274.66	4	2,029.88	4	1,785.10	4	1,540.32
1/4		1/4	3,493.45	1/4	3,248.68	1/4	3,003.90	1/4	2,759.12	1/4	2,514.34	1/4	2,269.56	1/4	2,024.78	1/4	1,780.00	1/4	1,535.22
1/2		1/2	3,488.35	1/2	3,243.58	1/2	2,998.80	1/2	2,754.02	1/2	2,509.24	1/2	2,264.46	1/2	2,019.68	1/2	1,774.90	1/2	1,530.12
3/4		3/4	3,483.26	3/4	3,238.48	3/4	2,993.70	3/4	2,748.92	3/4	2,504.14	3/4	2,259.36	3/4	2,014.58	3/4	1,769.80	3/4	1,525.02
5		5	3,478.16	5	3,233.38	5	2,988.60	5	2,743.82	5	2,499.04	5	2,254.26	5	2,009.48	5	1,764.70	5	1,519.92
1/4		1/4	3,473.06	1/4	3,228.28	1/4	2,983.50	1/4	2,738.72	1/4	2,493.94	1/4	2,249.16	1/4	2,004.38	1/4	1,759.60	1/4	1,514.82
1/2		1/2	3,467.96	1/2	3,223.18	1/2	2,978.40	1/2	2,733.62	1/2	2,488.84	1/2	2,244.06	1/2	1,999.28	1/2	1,754.50	1/2	1,509.72
3/4		3/4	3,462.86	3/4	3,218.08	3/4	2,973.30	3/4	2,728.52	3/4	2,483.74	3/4	2,238.96	3/4	1,994.18	3/4	1,749.40	3/4	1,504.62
6		6	3,457.77	6	3,212.98	6	2,968.20	6	2,723.42	6	2,478.64	6	2,233.86	6	1,989.08	6	1,744.30	6	1,499.52
1/4		1/4	3,452.67	1/4	3,207.88	1/4	2,963.10	1/4	2,718.32	1/4	2,473.54	1/4	2,228.76	1/4	1,983.98	1/4	1,739.20	1/4	1,494.42
1/2		1/2	3,447.57	1/2	3,202.79	1/2	2,958.00	1/2	2,713.22	1/2	2,468.44	1/2	2,223.66	1/2	1,978.88	1/2	1,734.10	1/2	1,489.32
3/4		3/4	3,442.47	3/4	3,197.69	3/4	2,952.90	3/4	2,708.12	3/4	2,463.34	3/4	2,218.56	3/4	1,973.78	3/4	1,729.00	3/4	1,484.22
7		7	3,437.37	7	3,192.59	7	2,947.81	7	2,703.02	7	2,458.24	7	2,213.46	7	1,968.68	7	1,723.90	7	1,479.12
1/4		1/4	3,432.27	1/4	3,187.49	1/4	2,942.71	1/4	2,697.92	1/4	2,453.14	1/4	2,208.36	1/4	1,963.58	1/4	1,718.80	1/4	1,474.02
1/2		1/2	3,427.17	1/2	3,182.39	1/2	2,937.61	1/2	2,692.83	1/2	2,448.04	1/2	2,203.26	1/2	1,958.48	1/2	1,713.70	1/2	1,468.92
3/4		3/4	3,422.07	3/4	3,177.29	3/4	2,932.51	3/4	2,687.73	3/4	2,442.94	3/4	2,198.16	3/4	1,953.38	3/4	1,708.60	3/4	1,463.82
8		8	3,416.97	8	3,172.19	8	2,927.41	8	2,682.63	8	2,437.85	8	2,193.06	8	1,948.28	8	1,703.50	8	1,458.72
1/4		1/4	3,411.87	1/4	3,167.09	1/4	2,922.31	1/4	2,677.53	1/4	2,432.75	1/4	2,187.96	1/4	1,943.18	1/4	1,698.40	1/4	1,453.62
1/2		1/2	3,406.77	1/2	3,161.99	1/2	2,917.21	1/2	2,672.43	1/2	2,427.65	1/2	2,182.87	1/2	1,938.08	1/2	1,693.30	1/2	1,448.52
3/4		3/4	3,401.67	3/4	3,156.89	3/4	2,912.11	3/4	2,667.33	3/4	2,422.55	3/4	2,177.77	3/4	1,932.98	3/4	1,688.20	3/4	1,443.42
9		9	3,396.57	9	3,151.79	9	2,907.01	9	2,662.23	9	2,417.45	9	2,172.67	9	1,927.89	9	1,683.10	9	1,438.32
1/4		1/4	3,391.47	1/4	3,146.69	1/4	2,901.91	1/4	2,657.13	1/4	2,412.35	1/4	2,167.57	1/4	1,922.79	1/4	1,678.00	1/4	1,433.22
1/2		1/2	3,386.37	1/2	3,141.59	1/2	2,896.81	1/2	2,652.03	1/2	2,407.25	1/2	2,162.47	1/2	1,917.69	1/2	1,672.91	1/2	1,428.12
3/4		3/4	3,381.27	3/4	3,136.49	3/4	2,891.71	3/4	2,646.93	3/4	2,402.15	3/4	2,157.37	3/4	1,912.59	3/4	1,667.81	3/4	1,423.02
10		10	3,376.17	10	3,131.39	10	2,886.61	10	2,641.83	10	2,397.05	10	2,152.27	10	1,907.49	10	1,662.71	10	1,417.93
1/4		1/4	3,371.07	1/4	3,126.29	1/4	2,881.51	1/4	2,636.73	1/4	2,391.95	1/4	2,147.17	1/4	1,902.39	1/4	1,657.61	1/4	1,412.83
1/2		1/2	3,365.97	1/2	3,121.19	1/2	2,876.41	1/2	2,631.63	1/2	2,386.85	1/2	2,142.07	1/2	1,897.29	1/2	1,652.51	1/2	1,407.73
3/4		3/4	3,360.87	3/4	3,116.09	3/4	2,871.31	3/4	2,626.53	3/4	2,381.75	3/4	2,136.97	3/4	1,892.19	3/4	1,647.41	3/4	1,402.63
11		11	3,355.77	11	3,110.99	11	2,866.21	11	2,621.43	11	2,376.65	11	2,131.87	11	1,887.09	11	1,642.31	11	1,397.53
1/4		1/4	3,350.67	1/4	3,105.89	1/4	2,861.11	1/4	2,616.33	1/4	2,371.55	1/4	2,126.77	1/4	1,881.99	1/4	1,637.21	1/4	1,392.43
1/2		1/2	3,345.57	1/2	3,100.79	1/2	2,856.01	1/2	2,611.23	1/2	2,366.45	1/2	2,121.67	1/2	1,876.89	1/2	1,632.11	1/2	1,387.33
3/4		3/4	3,340.47	3/4	3,095.69	3/4	2,850.91	3/4	2,606.13	3/4	2,361.35	3/4	2,116.57	3/4	1,871.79	3/4	1,627.01	3/4	1,382.23

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "MMC" VALVE.  
 GAUGE POINT: (MMC) LOCATED ON CENTERLINE AND 25'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "HFL 214"

## 3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 15'-09"

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	1,377.13	0	1,132.35	0	887.57	0	642.79	0	398.16	0	153.67	0		0		0		0	
1/4	1,372.03	1/4	1,127.25	1/4	882.47	1/4	637.69	1/4	393.07	1/4	148.57	1/4		1/4		1/4		1/4	
1/2	1,366.93	1/2	1,122.15	1/2	877.37	1/2	632.59	1/2	387.98	1/2	143.47	1/2		1/2		1/2		1/2	
3/4	1,361.83	3/4	1,117.05	3/4	872.27	3/4	627.49	3/4	382.90	3/4	138.37	3/4		3/4		3/4		3/4	
1	1,356.73	1	1,111.95	1	867.17	1	622.39	1	377.81	1	133.28	1		1		1		1	
1/4	1,351.63	1/4	1,106.85	1/4	862.07	1/4	617.29	1/4	372.72	1/4	128.18	1/4		1/4		1/4		1/4	
1/2	1,346.53	1/2	1,101.75	1/2	856.97	1/2	612.19	1/2	367.63	1/2	123.08	1/2		1/2		1/2		1/2	
3/4	1,341.43	3/4	1,096.65	3/4	851.87	3/4	607.09	3/4	362.55	3/4	117.98	3/4		3/4		3/4		3/4	
2	1,336.33	2	1,091.55	2	846.77	2	601.99	2	357.46	2	112.88	2		2		2		2	
1/4	1,331.23	1/4	1,086.45	1/4	841.67	1/4	596.89	1/4	352.37	1/4	107.78	1/4		1/4		1/4		1/4	
1/2	1,326.13	1/2	1,081.35	1/2	836.57	1/2	591.79	1/2	347.28	1/2	102.68	1/2		1/2		1/2		1/2	
3/4	1,321.03	3/4	1,076.25	3/4	831.47	3/4	586.69	3/4	342.20	3/4	97.58	3/4		3/4		3/4		3/4	
3	1,315.93	3	1,071.15	3	826.37	3	581.59	3	337.11	3	92.48	3		3		3		3	
1/4	1,310.83	1/4	1,066.05	1/4	821.27	1/4	576.49	1/4	332.02	1/4	87.38	1/4		1/4		1/4		1/4	
1/2	1,305.73	1/2	1,060.95	1/2	816.17	1/2	571.39	1/2	326.93	1/2	82.28	1/2		1/2		1/2		1/2	
3/4	1,300.63	3/4	1,055.85	3/4	811.07	3/4	566.29	3/4	321.85	3/4	77.19	3/4		3/4		3/4		3/4	
4	1,295.53	4	1,050.75	4	805.97	4	561.19	4	316.76	4	72.09	4		4		4		4	
1/4	1,290.44	1/4	1,045.65	1/4	800.87	1/4	556.09	1/4	311.67	1/4	67.00	1/4		1/4		1/4		1/4	
1/2	1,285.34	1/2	1,040.55	1/2	795.77	1/2	550.99	1/2	306.58	1/2	61.92	1/2		1/2		1/2		1/2	
3/4	1,280.24	3/4	1,035.45	3/4	790.67	3/4	545.89	3/4	301.50	3/4	56.83	3/4		3/4		3/4		3/4	
5	1,275.14	5	1,030.36	5	785.57	5	540.79	5	296.41	5	51.74	5		5		5		5	
1/4	1,270.04	1/4	1,025.26	1/4	780.47	1/4	535.69	1/4	291.32	1/4	46.69	1/4		1/4		1/4		1/4	
1/2	1,264.94	1/2	1,020.16	1/2	775.38	1/2	530.59	1/2	286.23	1/2	41.63	1/2		1/2		1/2		1/2	
3/4	1,259.84	3/4	1,015.06	3/4	770.28	3/4	525.49	3/4	281.15	3/4	36.58	3/4		3/4		3/4		3/4	
6	1,254.74	6	1,009.96	6	765.18	6	520.40	6	276.06	6	31.52	6		6		6		6	
1/4	1,249.64	1/4	1,004.86	1/4	760.08	1/4	515.30	1/4	270.96	1/4	27.27	1/4		1/4		1/4		1/4	
1/2	1,244.54	1/2	999.76	1/2	754.98	1/2	510.20	1/2	265.86	1/2	23.03	1/2		1/2		1/2		1/2	
3/4	1,239.44	3/4	994.66	3/4	749.88	3/4	505.10	3/4	260.76	3/4	18.78	3/4		3/4		3/4		3/4	
7	1,234.34	7	989.56	7	744.78	7	500.00	7	255.66	7	14.53	7		7		7		7	
1/4	1,229.24	1/4	984.46	1/4	739.68	1/4	494.90	1/4	250.56	1/4	11.98	1/4		1/4		1/4		1/4	
1/2	1,224.14	1/2	979.36	1/2	734.58	1/2	489.80	1/2	245.46	1/2	9.43	1/2		1/2		1/2		1/2	
3/4	1,219.04	3/4	974.26	3/4	729.48	3/4	484.70	3/4	240.36	3/4	6.88	3/4		3/4		3/4		3/4	
8	1,213.94	8	969.16	8	724.38	8	479.60	8	235.26	8	4.33	8		8		8		8	
1/4	1,208.84	1/4	964.06	1/4	719.28	1/4	474.51	1/4	230.16	1/4	3.48	1/4		1/4		1/4		1/4	
1/2	1,203.74	1/2	958.96	1/2	714.18	1/2	469.41	1/2	225.06	1/2	2.63	1/2		1/2		1/2		1/2	
3/4	1,198.64	3/4	953.86	3/4	709.08	3/4	464.32	3/4	219.97	3/4	1.78	3/4		3/4		3/4		3/4	
9	1,193.54	9	948.76	9	703.98	9	459.23	9	214.87	9	0.93	9		9		9		9	
1/4	1,188.44	1/4	943.66	1/4	698.88	1/4	454.14	1/4	209.77	1/4		1/4		1/4		1/4		1/4	
1/2	1,183.34	1/2	938.56	1/2	693.78	1/2	449.04	1/2	204.67	1/2		1/2		1/2		1/2		1/2	
3/4	1,178.24	3/4	933.46	3/4	688.68	3/4	443.95	3/4	199.57	3/4		3/4		3/4		3/4		3/4	
10	1,173.14	10	928.36	10	683.58	10	438.86	10	194.47	10		10		10		10		10	
1/4	1,168.04	1/4	923.26	1/4	678.48	1/4	433.77	1/4	189.37	1/4		1/4		1/4		1/4		1/4	
1/2	1,162.95	1/2	918.16	1/2	673.38	1/2	428.68	1/2	184.27	1/2		1/2		1/2		1/2		1/2	
3/4	1,157.85	3/4	913.06	3/4	668.28	3/4	423.60	3/4	179.17	3/4		3/4		3/4		3/4		3/4	
11	1,152.75	11	907.96	11	663.18	11	418.51	11	174.07	11		11		11		11		11	
1/4	1,147.65	1/4	902.87	1/4	658.08	1/4	413.42	1/4	168.97	1/4		1/4		1/4		1/4		1/4	
1/2	1,142.55	1/2	897.77	1/2	652.98	1/2	408.33	1/2	163.87	1/2		1/2		1/2		1/2		1/2	
3/4	1,137.45	3/4	892.67	3/4	647.89	3/4	403.25	3/4	158.77	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 01/06/2021 JS  
CALCULATED: 01/06/2021 CL  
PRINTED: 01/06/2021 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 01/2021

PRECISION MEASUREMENT  
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