



BARGE "HFL 212"

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	- 00-7/8	00-7/8	- 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	00-3/4	- 00-3/4	00-7/8	- 00-7/8
3 CENTER	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2

(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"

November 13, 2020

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

<http://www.pmacorp.net>



BARGE "HFL 212"

1 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	3,226.91	0	3,014.87	0	2,802.83	0	2,585.50	0	2,341.81	0	2,098.10	0	1,854.33	0	1,610.56
1/4		1/4		1/4	3,222.49	1/4	3,010.45	1/4	2,798.41	1/4	2,580.43	1/4	2,336.74	1/4	2,093.02	1/4	1,849.25	1/4	1,605.48
1/2		1/2		1/2	3,218.07	1/2	3,006.03	1/2	2,793.99	1/2	2,575.35	1/2	2,331.66	1/2	2,087.94	1/2	1,844.17	1/2	1,600.40
3/4		3/4		3/4	3,213.66	3/4	3,001.62	3/4	2,789.58	3/4	2,570.27	3/4	2,326.59	3/4	2,082.86	3/4	1,839.09	3/4	1,595.32
1		1		1	3,390.67	1	3,209.24	1	2,997.20	1	2,785.16	1	2,565.19	1	2,321.52	1	2,077.78	1	1,834.01
1/4		1/4		1/4	3,390.49	1/4	3,204.82	1/4	2,992.78	1/4	2,780.74	1/4	2,560.11	1/4	2,316.44	1/4	2,072.70	1/4	1,828.94
1/2		1/2		1/2	3,390.32	1/2	3,200.40	1/2	2,988.36	1/2	2,776.32	1/2	2,555.04	1/2	2,311.37	1/2	2,067.63	1/2	1,823.86
3/4		3/4		3/4	3,390.14	3/4	3,195.99	3/4	2,983.95	3/4	2,771.91	3/4	2,549.96	3/4	2,306.29	3/4	2,062.55	3/4	1,818.78
2		2		2	3,389.97	2	3,191.57	2	2,979.53	2	2,767.49	2	2,544.88	2	2,301.22	2	2,057.47	2	1,813.70
1/4		1/4		1/4	3,388.10	1/4	3,187.15	1/4	2,975.11	1/4	2,763.07	1/4	2,539.80	1/4	2,296.14	1/4	2,052.39	1/4	1,808.62
1/2		1/2		1/2	3,386.23	1/2	3,182.73	1/2	2,970.69	1/2	2,758.65	1/2	2,534.73	1/2	2,291.07	1/2	2,047.31	1/2	1,803.54
3/4		3/4		3/4	3,384.35	3/4	3,178.32	3/4	2,966.28	3/4	2,754.24	3/4	2,529.65	3/4	2,286.00	3/4	2,042.23	3/4	1,798.46
3		3		3	3,382.48	3	3,173.90	3	2,961.86	3	2,749.82	3	2,524.57	3	2,280.92	3	2,037.15	3	1,793.39
1/4		1/4		1/4	3,378.91	1/4	3,169.48	1/4	2,957.44	1/4	2,745.40	1/4	2,519.49	1/4	2,275.84	1/4	2,032.08	1/4	1,788.31
1/2		1/2		1/2	3,375.35	1/2	3,165.06	1/2	2,953.02	1/2	2,740.98	1/2	2,514.41	1/2	2,270.77	1/2	2,027.00	1/2	1,783.23
3/4		3/4		3/4	3,371.78	3/4	3,160.65	3/4	2,948.61	3/4	2,736.57	3/4	2,509.34	3/4	2,265.69	3/4	2,021.92	3/4	1,778.15
4		4		4	3,368.21	4	3,156.23	4	2,944.19	4	2,732.15	4	2,504.26	4	2,260.61	4	2,016.84	4	1,773.07
1/4		1/4		1/4	3,363.81	1/4	3,151.81	1/4	2,939.77	1/4	2,727.73	1/4	2,499.18	1/4	2,255.53	1/4	2,011.76	1/4	1,767.99
1/2		1/2		1/2	3,359.40	1/2	3,147.39	1/2	2,935.35	1/2	2,723.31	1/2	2,494.10	1/2	2,250.45	1/2	2,006.68	1/2	1,762.92
3/4		3/4		3/4	3,355.00	3/4	3,142.98	3/4	2,930.94	3/4	2,718.90	3/4	2,489.03	3/4	2,245.37	3/4	2,001.60	3/4	1,757.84
5		5		5	3,350.60	5	3,138.56	5	2,926.52	5	2,714.48	5	2,483.95	5	2,240.29	5	1,996.53	5	1,752.76
1/4		1/4		1/4	3,346.18	1/4	3,134.14	1/4	2,922.10	1/4	2,710.06	1/4	2,478.87	1/4	2,235.22	1/4	1,991.45	1/4	1,747.68
1/2		1/2		1/2	3,341.76	1/2	3,129.72	1/2	2,917.68	1/2	2,705.64	1/2	2,473.79	1/2	2,230.14	1/2	1,986.37	1/2	1,742.60
3/4		3/4		3/4	3,337.35	3/4	3,125.31	3/4	2,913.27	3/4	2,701.23	3/4	2,468.71	3/4	2,225.06	3/4	1,981.29	3/4	1,737.52
6		6		6	3,332.93	6	3,120.89	6	2,908.85	6	2,696.81	6	2,463.64	6	2,219.98	6	1,976.21	6	1,732.44
1/4		1/4		1/4	3,328.51	1/4	3,116.47	1/4	2,904.43	1/4	2,692.39	1/4	2,458.56	1/4	2,214.90	1/4	1,971.13	1/4	1,727.37
1/2		1/2		1/2	3,324.09	1/2	3,112.05	1/2	2,900.01	1/2	2,687.97	1/2	2,453.48	1/2	2,209.82	1/2	1,966.06	1/2	1,722.29
3/4		3/4		3/4	3,319.68	3/4	3,107.64	3/4	2,895.60	3/4	2,683.56	3/4	2,448.40	3/4	2,204.74	3/4	1,960.98	3/4	1,717.21
7		7		7	3,315.26	7	3,103.22	7	2,891.18	7	2,679.14	7	2,443.33	7	2,199.67	7	1,955.90	7	1,712.13
1/4		1/4		1/4	3,310.84	1/4	3,098.80	1/4	2,886.76	1/4	2,674.72	1/4	2,438.25	1/4	2,194.59	1/4	1,950.82	1/4	1,707.05
1/2		1/2		1/2	3,306.42	1/2	3,094.38	1/2	2,882.34	1/2	2,670.30	1/2	2,433.17	1/2	2,189.51	1/2	1,945.74	1/2	1,701.97
3/4		3/4		3/4	3,302.01	3/4	3,089.97	3/4	2,877.93	3/4	2,665.89	3/4	2,428.09	3/4	2,184.43	3/4	1,940.66	3/4	1,696.89
8		8		8	3,297.59	8	3,085.55	8	2,873.51	8	2,661.47	8	2,423.01	8	2,179.35	8	1,935.58	8	1,691.82
1/4		1/4		1/4	3,293.17	1/4	3,081.13	1/4	2,869.09	1/4	2,657.05	1/4	2,417.94	1/4	2,174.27	1/4	1,930.51	1/4	1,686.74
1/2		1/2		1/2	3,288.75	1/2	3,076.71	1/2	2,864.67	1/2	2,652.63	1/2	2,412.86	1/2	2,169.20	1/2	1,925.43	1/2	1,681.66
3/4		3/4		3/4	3,284.34	3/4	3,072.30	3/4	2,860.26	3/4	2,648.22	3/4	2,407.78	3/4	2,164.12	3/4	1,920.35	3/4	1,676.58
9		9		9	3,279.92	9	3,067.88	9	2,855.84	9	2,643.80	9	2,402.70	9	2,159.04	9	1,915.27	9	1,671.50
1/4		1/4		1/4	3,275.50	1/4	3,063.46	1/4	2,851.42	1/4	2,639.38	1/4	2,397.63	1/4	2,153.96	1/4	1,910.19	1/4	1,666.42
1/2		1/2		1/2	3,271.08	1/2	3,059.04	1/2	2,847.00	1/2	2,634.96	1/2	2,392.55	1/2	2,148.88	1/2	1,905.11	1/2	1,661.35
3/4		3/4		3/4	3,266.67	3/4	3,054.63	3/4	2,842.59	3/4	2,630.55	3/4	2,387.48	3/4	2,143.80	3/4	1,900.03	3/4	1,656.27
10		10		10	3,262.25	10	3,050.21	10	2,838.17	10	2,626.13	10	2,382.41	10	2,138.72	10	1,894.96	10	1,651.19
1/4		1/4		1/4	3,257.83	1/4	3,045.79	1/4	2,833.75	1/4	2,621.05	1/4	2,377.33	1/4	2,133.65	1/4	1,889.88	1/4	1,646.11
1/2		1/2		1/2	3,253.41	1/2	3,041.37	1/2	2,829.33	1/2	2,615.97	1/2	2,372.26	1/2	2,128.57	1/2	1,884.80	1/2	1,641.03
3/4		3/4		3/4	3,249.00	3/4	3,036.96	3/4	2,824.92	3/4	2,610.89	3/4	2,367.18	3/4	2,123.49	3/4	1,879.72	3/4	1,635.95
11		11		11	3,244.58	11	3,032.54	11	2,820.50	11	2,605.82	11	2,362.11	11	2,118.41	11	1,874.64	11	1,630.87
1/4		1/4		1/4	3,240.16	1/4	3,028.12	1/4	2,816.08	1/4	2,600.74	1/4	2,357.04	1/4	2,113.33	1/4	1,869.56	1/4	1,625.80
1/2		1/2		1/2	3,235.74	1/2	3,023.70	1/2	2,811.66	1/2	2,595.66	1/2	2,351.96	1/2	2,108.25	1/2	1,864.49	1/2	1,620.72
3/4		3/4		3/4	3,231.33	3/4	3,019.29	3/4	2,807.25	3/4	2,590.58	3/4	2,346.89	3/4	2,103.17	3/4	1,859.41	3/4	1,615.64

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: (HERMETIC) LOCATED ON CENTERLINE AND 24'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "HFL 212"

1 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	1,366.79	0	1,123.02	0	879.26	0	635.36	0	394.95	0	153.44	0		0		0		0	
1/4	1,361.71	1/4	1,117.95	1/4	874.18	1/4	630.27	1/4	390.03	1/4	148.35	1/4		1/4		1/4		1/4	
1/2	1,356.64	1/2	1,112.87	1/2	869.10	1/2	625.18	1/2	385.11	1/2	143.26	1/2		1/2		1/2		1/2	
3/4	1,351.56	3/4	1,107.79	3/4	864.02	3/4	620.09	3/4	380.19	3/4	138.17	3/4		3/4		3/4		3/4	
1	1,346.48	1	1,102.71	1	858.95	1	615.00	1	375.27	1	133.08	1		1		1		1	
1/4	1,341.40	1/4	1,097.63	1/4	853.87	1/4	609.91	1/4	370.32	1/4	127.98	1/4		1/4		1/4		1/4	
1/2	1,336.32	1/2	1,092.55	1/2	848.79	1/2	604.82	1/2	365.36	1/2	122.89	1/2		1/2		1/2		1/2	
3/4	1,331.24	3/4	1,087.47	3/4	843.71	3/4	599.73	3/4	360.41	3/4	117.80	3/4		3/4		3/4		3/4	
2	1,326.16	2	1,082.40	2	838.63	2	594.64	2	355.46	2	112.71	2		2		2		2	
1/4	1,321.09	1/4	1,077.32	1/4	833.55	1/4	589.55	1/4	350.51	1/4	107.62	1/4		1/4		1/4		1/4	
1/2	1,316.01	1/2	1,072.24	1/2	828.47	1/2	584.46	1/2	345.56	1/2	102.53	1/2		1/2		1/2		1/2	
3/4	1,310.93	3/4	1,067.16	3/4	823.40	3/4	579.37	3/4	340.61	3/4	97.43	3/4		3/4		3/4		3/4	
3	1,305.85	3	1,062.08	3	818.32	3	574.28	3	335.66	3	92.34	3		3		3		3	
1/4	1,300.77	1/4	1,057.00	1/4	813.24	1/4	569.19	1/4	330.62	1/4	87.25	1/4		1/4		1/4		1/4	
1/2	1,295.69	1/2	1,051.93	1/2	808.16	1/2	564.10	1/2	325.59	1/2	82.16	1/2		1/2		1/2		1/2	
3/4	1,290.61	3/4	1,046.85	3/4	803.08	3/4	559.01	3/4	320.55	3/4	77.07	3/4		3/4		3/4		3/4	
4	1,285.54	4	1,041.77	4	798.00	4	553.92	4	315.51	4	71.98	4		4		4		4	
1/4	1,280.46	1/4	1,036.69	1/4	792.93	1/4	548.83	1/4	310.48	1/4	66.90	1/4		1/4		1/4		1/4	
1/2	1,275.38	1/2	1,031.61	1/2	787.85	1/2	543.74	1/2	305.44	1/2	61.83	1/2		1/2		1/2		1/2	
3/4	1,270.30	3/4	1,026.53	3/4	782.77	3/4	538.65	3/4	300.41	3/4	56.75	3/4		3/4		3/4		3/4	
5	1,265.22	5	1,021.45	5	777.69	5	533.56	5	295.37	5	51.67	5		5		5		5	
1/4	1,260.14	1/4	1,016.38	1/4	772.61	1/4	528.60	1/4	290.31	1/4	46.62	1/4		1/4		1/4		1/4	
1/2	1,255.07	1/2	1,011.30	1/2	767.53	1/2	523.64	1/2	285.26	1/2	41.57	1/2		1/2		1/2		1/2	
3/4	1,249.99	3/4	1,006.22	3/4	762.46	3/4	518.68	3/4	280.20	3/4	36.53	3/4		3/4		3/4		3/4	
6	1,244.91	6	1,001.14	6	757.38	6	513.72	6	275.15	6	31.48	6		6		6		6	
1/4	1,239.83	1/4	996.06	1/4	752.30	1/4	508.77	1/4	270.09	1/4	27.24	1/4		1/4		1/4		1/4	
1/2	1,234.75	1/2	990.98	1/2	747.22	1/2	503.81	1/2	265.04	1/2	23.00	1/2		1/2		1/2		1/2	
3/4	1,229.67	3/4	985.91	3/4	742.14	3/4	498.85	3/4	259.99	3/4	18.76	3/4		3/4		3/4		3/4	
7	1,224.59	7	980.83	7	737.06	7	493.89	7	254.93	7	14.51	7		7		7		7	
1/4	1,219.52	1/4	975.75	1/4	731.99	1/4	488.93	1/4	249.89	1/4	11.97	1/4		1/4		1/4		1/4	
1/2	1,214.44	1/2	970.67	1/2	726.91	1/2	483.98	1/2	244.85	1/2	9.42	1/2		1/2		1/2		1/2	
3/4	1,209.36	3/4	965.59	3/4	721.83	3/4	479.02	3/4	239.81	3/4	6.88	3/4		3/4		3/4		3/4	
8	1,204.28	8	960.51	8	716.75	8	474.06	8	234.77	8	4.33	8		8		8		8	
1/4	1,199.20	1/4	955.43	1/4	711.67	1/4	469.10	1/4	229.71	1/4	3.48	1/4		1/4		1/4		1/4	
1/2	1,194.12	1/2	950.36	1/2	706.59	1/2	464.14	1/2	224.66	1/2	2.63	1/2		1/2		1/2		1/2	
3/4	1,189.04	3/4	945.28	3/4	701.51	3/4	459.19	3/4	219.60	3/4	1.79	3/4		3/4		3/4		3/4	
9	1,183.97	9	940.20	9	696.44	9	454.23	9	214.54	9	0.94	9		9		9		9	
1/4	1,178.89	1/4	935.12	1/4	691.35	1/4	449.27	1/4	209.45	1/4		1/4		1/4		1/4		1/4	
1/2	1,173.81	1/2	930.04	1/2	686.26	1/2	444.31	1/2	204.36	1/2		1/2		1/2		1/2		1/2	
3/4	1,168.73	3/4	924.96	3/4	681.17	3/4	439.35	3/4	199.27	3/4		3/4		3/4		3/4		3/4	
10	1,163.65	10	919.89	10	676.08	10	434.40	10	194.18	10		10		10		10		10	
1/4	1,158.57	1/4	914.81	1/4	670.99	1/4	429.46	1/4	189.08	1/4		1/4		1/4		1/4		1/4	
1/2	1,153.50	1/2	909.73	1/2	665.90	1/2	424.52	1/2	183.99	1/2		1/2		1/2		1/2		1/2	
3/4	1,148.42	3/4	904.65	3/4	660.81	3/4	419.58	3/4	178.90	3/4		3/4		3/4		3/4		3/4	
11	1,143.34	11	899.57	11	655.72	11	414.64	11	173.81	11		11		11		11		11	
1/4	1,138.26	1/4	894.49	1/4	650.63	1/4	409.72	1/4	168.72	1/4		1/4		1/4		1/4		1/4	
1/2	1,133.18	1/2	889.42	1/2	645.54	1/2	404.79	1/2	163.63	1/2		1/2		1/2		1/2		1/2	
3/4	1,128.10	3/4	884.34	3/4	640.45	3/4	399.87	3/4	158.53	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/13/2020 JS
CALCULATED: 11/13/2020 CL
PRINTED: 11/13/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2020

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



BARGE "HFL 212"

2 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	3,817.66	0	3,536.97	0	3,256.28	0	2,975.59	0	2,694.90	0	2,414.21	0	2,133.52	0	1,852.83
1/4		1/4		1/4	3,811.81	1/4	3,531.12	1/4	3,250.43	1/4	2,969.74	1/4	2,689.06	1/4	2,408.37	1/4	2,127.68	1/4	1,846.99
1/2		1/2		1/2	3,805.97	1/2	3,525.28	1/2	3,244.59	1/2	2,963.90	1/2	2,683.21	1/2	2,402.52	1/2	2,121.83	1/2	1,841.14
3/4		3/4		3/4	3,800.12	3/4	3,519.43	3/4	3,238.74	3/4	2,958.05	3/4	2,677.36	3/4	2,396.67	3/4	2,115.98	3/4	1,835.29
1		1		1	4,039.80	1	3,794.27	1	3,513.58	1	3,232.89	1	2,952.20	1	2,671.51	1	2,390.82	1	2,110.13
1/4		1/4		1/4	4,038.82	1/4	3,788.42	1/4	3,507.73	1/4	3,227.04	1/4	2,946.35	1/4	2,665.66	1/4	2,384.97	1/4	2,104.29
1/2		1/2		1/2	4,037.85	1/2	3,782.58	1/2	3,501.89	1/2	3,221.20	1/2	2,940.51	1/2	2,659.82	1/2	2,379.13	1/2	2,098.44
3/4		3/4		3/4	4,036.88	3/4	3,776.73	3/4	3,496.04	3/4	3,215.35	3/4	2,934.66	3/4	2,653.97	3/4	2,373.28	3/4	2,092.59
2		2		2	4,035.90	2	3,770.88	2	3,490.19	2	3,209.50	2	2,928.81	2	2,648.12	2	2,367.43	2	2,086.74
1/4		1/4		1/4	4,032.98	1/4	3,765.03	1/4	3,484.34	1/4	3,203.65	1/4	2,922.96	1/4	2,642.27	1/4	2,361.58	1/4	2,080.89
1/2		1/2		1/2	4,030.05	1/2	3,759.18	1/2	3,478.49	1/2	3,197.81	1/2	2,917.12	1/2	2,636.43	1/2	2,355.74	1/2	2,075.05
3/4		3/4		3/4	4,027.13	3/4	3,753.34	3/4	3,472.65	3/4	3,191.96	3/4	2,911.27	3/4	2,630.58	3/4	2,349.89	3/4	2,069.20
3		3		3	4,024.21	3	3,747.49	3	3,466.80	3	3,186.11	3	2,905.42	3	2,624.73	3	2,344.04	3	2,063.35
1/4		1/4		1/4	4,019.33	1/4	3,741.64	1/4	3,460.95	1/4	3,180.26	1/4	2,899.57	1/4	2,618.88	1/4	2,338.19	1/4	2,057.50
1/2		1/2		1/2	4,014.46	1/2	3,735.79	1/2	3,455.10	1/2	3,174.41	1/2	2,893.72	1/2	2,613.04	1/2	2,332.35	1/2	2,051.66
3/4		3/4		3/4	4,009.59	3/4	3,729.95	3/4	3,449.26	3/4	3,168.57	3/4	2,887.88	3/4	2,607.19	3/4	2,326.50	3/4	2,045.81
4		4		4	4,004.72	4	3,724.10	4	3,443.41	4	3,162.72	4	2,882.03	4	2,601.34	4	2,320.65	4	2,039.96
1/4		1/4		1/4	3,998.89	1/4	3,718.25	1/4	3,437.56	1/4	3,156.87	1/4	2,876.18	1/4	2,595.49	1/4	2,314.80	1/4	2,034.11
1/2		1/2		1/2	3,993.06	1/2	3,712.40	1/2	3,431.71	1/2	3,151.02	1/2	2,870.33	1/2	2,589.64	1/2	2,308.95	1/2	2,028.27
3/4		3/4		3/4	3,987.23	3/4	3,706.55	3/4	3,425.87	3/4	3,145.18	3/4	2,864.49	3/4	2,583.80	3/4	2,303.11	3/4	2,022.42
5		5		5	3,981.40	5	3,700.71	5	3,420.02	5	3,139.33	5	2,858.64	5	2,577.95	5	2,297.26	5	2,016.57
1/4		1/4		1/4	3,975.55	1/4	3,694.86	1/4	3,414.17	1/4	3,133.48	1/4	2,852.79	1/4	2,572.10	1/4	2,291.41	1/4	2,010.72
1/2		1/2		1/2	3,969.70	1/2	3,689.01	1/2	3,408.32	1/2	3,127.63	1/2	2,846.94	1/2	2,566.25	1/2	2,285.56	1/2	2,004.87
3/4		3/4		3/4	3,963.85	3/4	3,683.16	3/4	3,402.47	3/4	3,121.78	3/4	2,841.10	3/4	2,560.41	3/4	2,279.72	3/4	1,999.03
6		6		6	3,958.01	6	3,677.32	6	3,396.63	6	3,115.94	6	2,835.25	6	2,554.56	6	2,273.87	6	1,993.18
1/4		1/4		1/4	3,952.16	1/4	3,671.47	1/4	3,390.78	1/4	3,110.09	1/4	2,829.40	1/4	2,548.71	1/4	2,268.02	1/4	1,987.33
1/2		1/2		1/2	3,946.31	1/2	3,665.62	1/2	3,384.93	1/2	3,104.24	1/2	2,823.55	1/2	2,542.86	1/2	2,262.17	1/2	1,981.48
3/4		3/4		3/4	3,940.46	3/4	3,659.77	3/4	3,379.08	3/4	3,098.39	3/4	2,817.70	3/4	2,537.01	3/4	2,256.33	3/4	1,975.64
7		7		7	3,934.62	7	3,653.93	7	3,373.24	7	3,092.55	7	2,811.86	7	2,531.17	7	2,250.48	7	1,969.79
1/4		1/4		1/4	3,928.77	1/4	3,648.08	1/4	3,367.39	1/4	3,086.70	1/4	2,806.01	1/4	2,525.32	1/4	2,244.63	1/4	1,963.94
1/2		1/2		1/2	3,922.92	1/2	3,642.23	1/2	3,361.54	1/2	3,080.85	1/2	2,800.16	1/2	2,519.47	1/2	2,238.78	1/2	1,958.09
3/4		3/4		3/4	3,917.07	3/4	3,636.38	3/4	3,355.69	3/4	3,075.00	3/4	2,794.31	3/4	2,513.62	3/4	2,232.93	3/4	1,952.24
8		8		8	3,911.22	8	3,630.53	8	3,349.85	8	3,069.16	8	2,788.47	8	2,507.78	8	2,227.09	8	1,946.40
1/4		1/4		1/4	3,905.38	1/4	3,624.69	1/4	3,344.00	1/4	3,063.31	1/4	2,782.62	1/4	2,501.93	1/4	2,221.24	1/4	1,940.55
1/2		1/2		1/2	3,899.53	1/2	3,618.84	1/2	3,338.15	1/2	3,057.46	1/2	2,776.77	1/2	2,496.08	1/2	2,215.39	1/2	1,934.70
3/4		3/4		3/4	3,893.68	3/4	3,612.99	3/4	3,332.30	3/4	3,051.61	3/4	2,770.92	3/4	2,490.23	3/4	2,209.54	3/4	1,928.85
9		9		9	3,887.83	9	3,607.14	9	3,326.45	9	3,045.76	9	2,765.08	9	2,484.39	9	2,203.70	9	1,923.01
1/4		1/4		1/4	3,881.99	1/4	3,601.30	1/4	3,320.61	1/4	3,039.92	1/4	2,759.23	1/4	2,478.54	1/4	2,197.85	1/4	1,917.16
1/2		1/2		1/2	3,876.14	1/2	3,595.45	1/2	3,314.76	1/2	3,034.07	1/2	2,753.38	1/2	2,472.69	1/2	2,192.00	1/2	1,911.31
3/4		3/4		3/4	3,870.29	3/4	3,589.60	3/4	3,308.91	3/4	3,028.22	3/4	2,747.53	3/4	2,466.84	3/4	2,186.15	3/4	1,905.46
10		10		10	3,864.44	10	3,583.75	10	3,303.06	10	3,022.37	10	2,741.68	10	2,460.99	10	2,180.31	10	1,899.62
1/4		1/4		1/4	3,858.60	1/4	3,577.91	1/4	3,297.22	1/4	3,016.53	1/4	2,735.84	1/4	2,455.15	1/4	2,174.46	1/4	1,893.77
1/2		1/2		1/2	3,852.75	1/2	3,572.06	1/2	3,291.37	1/2	3,010.68	1/2	2,729.99	1/2	2,449.30	1/2	2,168.61	1/2	1,887.92
3/4		3/4		3/4	3,846.90	3/4	3,566.21	3/4	3,285.52	3/4	3,004.83	3/4	2,724.14	3/4	2,443.45	3/4	2,162.76	3/4	1,882.07
11		11		11	3,841.05	11	3,560.36	11	3,279.67	11	2,998.98	11	2,718.29	11	2,437.60	11	2,156.91	11	1,876.22
1/4		1/4		1/4	3,835.20	1/4	3,554.51	1/4	3,273.83	1/4	2,993.14	1/4	2,712.45	1/4	2,431.76	1/4	2,151.07	1/4	1,870.38
1/2		1/2		1/2	3,829.36	1/2	3,548.67	1/2	3,267.98	1/2	2,987.29	1/2	2,706.60	1/2	2,425.91	1/2	2,145.22	1/2	1,864.53
3/4		3/4		3/4	3,823.51	3/4	3,542.82	3/4	3,262.13	3/4	2,981.44	3/4	2,700.75	3/4	2,420.06	3/4	2,139.37	3/4	1,858.68

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 ULLAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "MMC" VALVE.
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 32'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "HFL 212"

2 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	1,572.14	0	1,291.45	0	1,010.77	0	730.08	0	452.29	0	176.08	0		0		0		0	
1/4	1,566.30	1/4	1,285.61	1/4	1,004.92	1/4	724.23	1/4	446.63	1/4	170.23	1/4		1/4		1/4		1/4	
1/2	1,560.45	1/2	1,279.76	1/2	999.07	1/2	718.38	1/2	440.96	1/2	164.39	1/2		1/2		1/2		1/2	
3/4	1,554.60	3/4	1,273.91	3/4	993.22	3/4	712.53	3/4	435.30	3/4	158.54	3/4		3/4		3/4		3/4	
1	1,548.75	1	1,268.06	1	987.37	1	706.68	1	429.64	1	152.69	1		1		1		1	
1/4	1,542.91	1/4	1,262.22	1/4	981.53	1/4	700.84	1/4	423.98	1/4	146.84	1/4		1/4		1/4		1/4	
1/2	1,537.06	1/2	1,256.37	1/2	975.68	1/2	694.99	1/2	418.32	1/2	141.00	1/2		1/2		1/2		1/2	
3/4	1,531.21	3/4	1,250.52	3/4	969.83	3/4	689.14	3/4	412.66	3/4	135.15	3/4		3/4		3/4		3/4	
2	1,525.36	2	1,244.67	2	963.98	2	683.29	2	407.00	2	129.30	2		2		2		2	
1/4	1,519.52	1/4	1,238.83	1/4	958.14	1/4	677.45	1/4	401.34	1/4	123.45	1/4		1/4		1/4		1/4	
1/2	1,513.67	1/2	1,232.98	1/2	952.29	1/2	671.60	1/2	395.68	1/2	117.61	1/2		1/2		1/2		1/2	
3/4	1,507.82	3/4	1,227.13	3/4	946.44	3/4	665.75	3/4	390.01	3/4	111.76	3/4		3/4		3/4		3/4	
3	1,501.97	3	1,221.28	3	940.59	3	659.90	3	384.35	3	105.91	3		3		3		3	
1/4	1,496.12	1/4	1,215.43	1/4	934.75	1/4	654.06	1/4	378.69	1/4	100.06	1/4		1/4		1/4		1/4	
1/2	1,490.28	1/2	1,209.59	1/2	928.90	1/2	648.21	1/2	373.03	1/2	94.22	1/2		1/2		1/2		1/2	
3/4	1,484.43	3/4	1,203.74	3/4	923.05	3/4	642.36	3/4	367.37	3/4	88.37	3/4		3/4		3/4		3/4	
4	1,478.58	4	1,197.89	4	917.20	4	636.51	4	361.71	4	82.53	4		4		4		4	
1/4	1,472.73	1/4	1,192.04	1/4	911.35	1/4	630.66	1/4	356.05	1/4	76.70	1/4		1/4		1/4		1/4	
1/2	1,466.89	1/2	1,186.20	1/2	905.51	1/2	624.82	1/2	350.39	1/2	70.86	1/2		1/2		1/2		1/2	
3/4	1,461.04	3/4	1,180.35	3/4	899.66	3/4	618.97	3/4	344.73	3/4	65.03	3/4		3/4		3/4		3/4	
5	1,455.19	5	1,174.50	5	893.81	5	613.12	5	339.06	5	59.20	5		5		5		5	
1/4	1,449.34	1/4	1,168.65	1/4	887.96	1/4	607.27	1/4	333.40	1/4	53.40	1/4		1/4		1/4		1/4	
1/2	1,443.50	1/2	1,162.81	1/2	882.12	1/2	601.43	1/2	327.74	1/2	47.60	1/2		1/2		1/2		1/2	
3/4	1,437.65	3/4	1,156.96	3/4	876.27	3/4	595.58	3/4	322.08	3/4	41.81	3/4		3/4		3/4		3/4	
6	1,431.80	6	1,151.11	6	870.42	6	589.73	6	316.42	6	36.01	6		6		6		6	
1/4	1,425.95	1/4	1,145.26	1/4	864.57	1/4	583.88	1/4	310.57	1/4	31.14	1/4		1/4		1/4		1/4	
1/2	1,420.10	1/2	1,139.41	1/2	858.73	1/2	578.04	1/2	304.73	1/2	26.27	1/2		1/2		1/2		1/2	
3/4	1,414.26	3/4	1,133.57	3/4	852.88	3/4	572.19	3/4	298.88	3/4	21.40	3/4		3/4		3/4		3/4	
7	1,408.41	7	1,127.72	7	847.03	7	566.34	7	293.03	7	16.53	7		7		7		7	
1/4	1,402.56	1/4	1,121.87	1/4	841.18	1/4	560.49	1/4	287.18	1/4	13.60	1/4		1/4		1/4		1/4	
1/2	1,396.71	1/2	1,116.02	1/2	835.33	1/2	554.64	1/2	281.34	1/2	10.68	1/2		1/2		1/2		1/2	
3/4	1,390.87	3/4	1,110.18	3/4	829.49	3/4	548.80	3/4	275.49	3/4	7.76	3/4		3/4		3/4		3/4	
8	1,385.02	8	1,104.33	8	823.64	8	542.95	8	269.64	8	4.83	8		8		8		8	
1/4	1,379.17	1/4	1,098.48	1/4	817.79	1/4	537.28	1/4	263.79	1/4	3.86	1/4		1/4		1/4		1/4	
1/2	1,373.32	1/2	1,092.63	1/2	811.94	1/2	531.61	1/2	257.95	1/2	2.88	1/2		1/2		1/2		1/2	
3/4	1,367.47	3/4	1,086.79	3/4	806.10	3/4	525.93	3/4	252.10	3/4	1.91	3/4		3/4		3/4		3/4	
9	1,361.63	9	1,080.94	9	800.25	9	520.26	9	246.25	9	0.93	9		9		9		9	
1/4	1,355.78	1/4	1,075.09	1/4	794.40	1/4	514.59	1/4	240.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,349.93	1/2	1,069.24	1/2	788.55	1/2	508.92	1/2	234.56	1/2		1/2		1/2		1/2		1/2	
3/4	1,344.08	3/4	1,063.39	3/4	782.70	3/4	503.25	3/4	228.71	3/4		3/4		3/4		3/4		3/4	
10	1,338.24	10	1,057.55	10	776.86	10	497.58	10	222.86	10		10		10		10		10	
1/4	1,332.39	1/4	1,051.70	1/4	771.01	1/4	491.91	1/4	217.01	1/4		1/4		1/4		1/4		1/4	
1/2	1,326.54	1/2	1,045.85	1/2	765.16	1/2	486.25	1/2	211.17	1/2		1/2		1/2		1/2		1/2	
3/4	1,320.69	3/4	1,040.00	3/4	759.31	3/4	480.59	3/4	205.32	3/4		3/4		3/4		3/4		3/4	
11	1,314.85	11	1,034.16	11	753.47	11	474.93	11	199.47	11		11		11		11		11	
1/4	1,309.00	1/4	1,028.31	1/4	747.62	1/4	469.27	1/4	193.62	1/4		1/4		1/4		1/4		1/4	
1/2	1,303.15	1/2	1,022.46	1/2	741.77	1/2	463.61	1/2	187.78	1/2		1/2		1/2		1/2		1/2	
3/4	1,297.30	3/4	1,016.61	3/4	735.92	3/4	457.95	3/4	181.93	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/13/2020 JS
CALCULATED: 11/13/2020 CL
PRINTED: 11/13/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2020

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



BARGE "HFL 212"

3 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	3,347.09	0	3,101.82	0	2,856.56	0	2,611.29	0	2,366.03	0	2,120.76	0	1,875.50	0	1,630.23
1/4		1/4		1/4	3,341.98	1/4	3,096.72	1/4	2,851.45	1/4	2,606.18	1/4	2,360.92	1/4	2,115.65	1/4	1,870.39	1/4	1,625.12
1/2		1/2		1/2	3,336.87	1/2	3,091.61	1/2	2,846.34	1/2	2,601.07	1/2	2,355.81	1/2	2,110.54	1/2	1,865.28	1/2	1,620.01
3/4		3/4		3/4	3,331.76	3/4	3,086.50	3/4	2,841.23	3/4	2,595.96	3/4	2,350.70	3/4	2,105.43	3/4	1,860.17	3/4	1,614.90
1		1		1	3,326.65	1	3,081.39	1	2,836.12	1	2,590.85	1	2,345.59	1	2,100.32	1	1,855.06	1	1,609.79
1/4		1/4	3,536.13	1/4	3,321.54	1/4	3,076.28	1/4	2,831.01	1/4	2,585.75	1/4	2,340.48	1/4	2,095.21	1/4	1,849.95	1/4	1,604.68
1/2		1/2	3,535.27	1/2	3,316.43	1/2	3,071.17	1/2	2,825.90	1/2	2,580.64	1/2	2,335.37	1/2	2,090.10	1/2	1,844.84	1/2	1,599.57
3/4		3/4	3,534.42	3/4	3,311.32	3/4	3,066.06	3/4	2,820.79	3/4	2,575.53	3/4	2,330.26	3/4	2,084.99	3/4	1,839.73	3/4	1,594.46
2		2	3,533.57	2	3,306.21	2	3,060.95	2	2,815.68	2	2,570.42	2	2,325.15	2	2,079.88	2	1,834.62	2	1,589.35
1/4		1/4	3,532.72	1/4	3,301.10	1/4	3,055.84	1/4	2,810.57	1/4	2,565.31	1/4	2,320.04	1/4	2,074.78	1/4	1,829.51	1/4	1,584.24
1/2		1/2	3,530.17	1/2	3,295.99	1/2	3,050.73	1/2	2,805.46	1/2	2,560.20	1/2	2,314.93	1/2	2,069.67	1/2	1,824.40	1/2	1,579.13
3/4		3/4	3,527.61	3/4	3,290.88	3/4	3,045.62	3/4	2,800.35	3/4	2,555.09	3/4	2,309.82	3/4	2,064.56	3/4	1,819.29	3/4	1,574.02
3		3	3,525.06	3	3,285.77	3	3,040.51	3	2,795.24	3	2,549.98	3	2,304.71	3	2,059.45	3	1,814.18	3	1,568.91
1/4		1/4	3,522.50	1/4	3,280.66	1/4	3,035.40	1/4	2,790.13	1/4	2,544.87	1/4	2,299.60	1/4	2,054.34	1/4	1,809.07	1/4	1,563.81
1/2		1/2	3,518.24	1/2	3,275.55	1/2	3,030.29	1/2	2,785.02	1/2	2,539.76	1/2	2,294.49	1/2	2,049.23	1/2	1,803.96	1/2	1,558.70
3/4		3/4	3,513.99	3/4	3,270.45	3/4	3,025.18	3/4	2,779.91	3/4	2,534.65	3/4	2,289.38	3/4	2,044.12	3/4	1,798.85	3/4	1,553.59
4		4	3,509.73	4	3,265.34	4	3,020.07	4	2,774.80	4	2,529.54	4	2,284.27	4	2,039.01	4	1,793.74	4	1,548.48
1/4		1/4	3,505.47	1/4	3,260.23	1/4	3,014.96	1/4	2,769.69	1/4	2,524.43	1/4	2,279.16	1/4	2,033.90	1/4	1,788.63	1/4	1,543.37
1/2		1/2	3,500.37	1/2	3,255.12	1/2	3,009.85	1/2	2,764.58	1/2	2,519.32	1/2	2,274.05	1/2	2,028.79	1/2	1,783.52	1/2	1,538.26
3/4		3/4	3,495.26	3/4	3,250.01	3/4	3,004.74	3/4	2,759.48	3/4	2,514.21	3/4	2,268.94	3/4	2,023.68	3/4	1,778.41	3/4	1,533.15
5		5	3,490.16	5	3,244.90	5	2,999.63	5	2,754.37	5	2,509.10	5	2,263.83	5	2,018.57	5	1,773.30	5	1,528.04
1/4		1/4	3,485.05	1/4	3,239.79	1/4	2,994.52	1/4	2,749.26	1/4	2,503.99	1/4	2,258.72	1/4	2,013.46	1/4	1,768.19	1/4	1,522.93
1/2		1/2	3,479.94	1/2	3,234.68	1/2	2,989.41	1/2	2,744.15	1/2	2,498.88	1/2	2,253.61	1/2	2,008.35	1/2	1,763.08	1/2	1,517.82
3/4		3/4	3,474.83	3/4	3,229.57	3/4	2,984.30	3/4	2,739.04	3/4	2,493.77	3/4	2,248.51	3/4	2,003.24	3/4	1,757.97	3/4	1,512.71
6		6	3,469.72	6	3,224.46	6	2,979.19	6	2,733.93	6	2,488.66	6	2,243.40	6	1,998.13	6	1,752.86	6	1,507.60
1/4		1/4	3,464.61	1/4	3,219.35	1/4	2,974.08	1/4	2,728.82	1/4	2,483.55	1/4	2,238.29	1/4	1,993.02	1/4	1,747.75	1/4	1,502.49
1/2		1/2	3,459.50	1/2	3,214.24	1/2	2,968.97	1/2	2,723.71	1/2	2,478.44	1/2	2,233.18	1/2	1,987.91	1/2	1,742.64	1/2	1,497.38
3/4		3/4	3,454.39	3/4	3,209.13	3/4	2,963.86	3/4	2,718.60	3/4	2,473.33	3/4	2,228.07	3/4	1,982.80	3/4	1,737.54	3/4	1,492.27
7		7	3,449.28	7	3,204.02	7	2,958.75	7	2,713.49	7	2,468.22	7	2,222.96	7	1,977.69	7	1,732.43	7	1,487.16
1/4		1/4	3,444.17	1/4	3,198.91	1/4	2,953.64	1/4	2,708.38	1/4	2,463.11	1/4	2,217.85	1/4	1,972.58	1/4	1,727.32	1/4	1,482.05
1/2		1/2	3,439.07	1/2	3,193.80	1/2	2,948.53	1/2	2,703.27	1/2	2,458.00	1/2	2,212.74	1/2	1,967.47	1/2	1,722.21	1/2	1,476.94
3/4		3/4	3,433.96	3/4	3,188.69	3/4	2,943.42	3/4	2,698.16	3/4	2,452.89	3/4	2,207.63	3/4	1,962.36	3/4	1,717.10	3/4	1,471.83
8		8	3,428.85	8	3,183.58	8	2,938.31	8	2,693.05	8	2,447.78	8	2,202.52	8	1,957.25	8	1,711.99	8	1,466.72
1/4		1/4	3,423.74	1/4	3,178.47	1/4	2,933.20	1/4	2,687.94	1/4	2,442.67	1/4	2,197.41	1/4	1,952.14	1/4	1,706.88	1/4	1,461.61
1/2		1/2	3,418.63	1/2	3,173.36	1/2	2,928.10	1/2	2,682.83	1/2	2,437.56	1/2	2,192.30	1/2	1,947.03	1/2	1,701.77	1/2	1,456.50
3/4		3/4	3,413.52	3/4	3,168.25	3/4	2,922.99	3/4	2,677.72	3/4	2,432.45	3/4	2,187.19	3/4	1,941.92	3/4	1,696.66	3/4	1,451.39
9		9	3,408.41	9	3,163.14	9	2,917.88	9	2,672.61	9	2,427.34	9	2,182.08	9	1,936.81	9	1,691.55	9	1,446.28
1/4		1/4	3,403.30	1/4	3,158.03	1/4	2,912.77	1/4	2,667.50	1/4	2,422.23	1/4	2,176.97	1/4	1,931.70	1/4	1,686.44	1/4	1,441.17
1/2		1/2	3,398.19	1/2	3,152.92	1/2	2,907.66	1/2	2,662.39	1/2	2,417.13	1/2	2,171.86	1/2	1,926.59	1/2	1,681.33	1/2	1,436.06
3/4		3/4	3,393.08	3/4	3,147.81	3/4	2,902.55	3/4	2,657.28	3/4	2,412.02	3/4	2,166.75	3/4	1,921.48	3/4	1,676.22	3/4	1,430.95
10		10	3,387.97	10	3,142.70	10	2,897.44	10	2,652.17	10	2,406.91	10	2,161.64	10	1,916.37	10	1,671.11	10	1,425.84
1/4		1/4	3,382.86	1/4	3,137.59	1/4	2,892.33	1/4	2,647.06	1/4	2,401.80	1/4	2,156.53	1/4	1,911.26	1/4	1,666.00	1/4	1,420.73
1/2		1/2	3,377.75	1/2	3,132.48	1/2	2,887.22	1/2	2,641.95	1/2	2,396.69	1/2	2,151.42	1/2	1,906.16	1/2	1,660.89	1/2	1,415.62
3/4		3/4	3,372.64	3/4	3,127.37	3/4	2,882.11	3/4	2,636.84	3/4	2,391.58	3/4	2,146.31	3/4	1,901.05	3/4	1,655.78	3/4	1,410.51
11		11	3,367.53	11	3,122.26	11	2,877.00	11	2,631.73	11	2,386.47	11	2,141.20	11	1,895.94	11	1,650.67	11	1,405.40
1/4		1/4	3,362.42	1/4	3,117.15	1/4	2,871.89	1/4	2,626.62	1/4	2,381.36	1/4	2,136.09	1/4	1,890.83	1/4	1,645.56	1/4	1,400.29
1/2		1/2	3,357.31	1/2	3,112.04	1/2	2,866.78	1/2	2,621.51	1/2	2,376.25	1/2	2,130.98	1/2	1,885.72	1/2	1,640.45	1/2	1,395.19
3/4		3/4	3,352.20	3/4	3,106.93	3/4	2,861.67	3/4	2,616.40	3/4	2,371.14	3/4	2,125.87	3/4	1,880.61	3/4	1,635.34	3/4	1,390.08

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: (HERMETIC) LOCATED ON CENTERLINE AND 25'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "HFL 212"

3 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	1,384.97	0	1,139.70	0	894.43	0	649.17	0	404.05	0	159.09	0		0		0		0	
1/4	1,379.86	1/4	1,134.59	1/4	889.32	1/4	644.06	1/4	398.95	1/4	153.98	1/4		1/4		1/4		1/4	
1/2	1,374.75	1/2	1,129.48	1/2	884.22	1/2	638.95	1/2	393.85	1/2	148.87	1/2		1/2		1/2		1/2	
3/4	1,369.64	3/4	1,124.37	3/4	879.11	3/4	633.84	3/4	388.75	3/4	143.76	3/4		3/4		3/4		3/4	
1	1,364.53	1	1,119.26	1	874.00	1	628.73	1	383.66	1	138.65	1		1		1		1	
1/4	1,359.42	1/4	1,114.15	1/4	868.89	1/4	623.62	1/4	378.56	1/4	133.54	1/4		1/4		1/4		1/4	
1/2	1,354.31	1/2	1,109.04	1/2	863.78	1/2	618.51	1/2	373.46	1/2	128.43	1/2		1/2		1/2		1/2	
3/4	1,349.20	3/4	1,103.93	3/4	858.67	3/4	613.40	3/4	368.36	3/4	123.32	3/4		3/4		3/4		3/4	
2	1,344.09	2	1,098.82	2	853.56	2	608.29	2	363.27	2	118.21	2		2		2		2	
1/4	1,338.98	1/4	1,093.71	1/4	848.45	1/4	603.18	1/4	358.17	1/4	113.10	1/4		1/4		1/4		1/4	
1/2	1,333.87	1/2	1,088.60	1/2	843.34	1/2	598.07	1/2	353.07	1/2	107.99	1/2		1/2		1/2		1/2	
3/4	1,328.76	3/4	1,083.49	3/4	838.23	3/4	592.96	3/4	347.97	3/4	102.88	3/4		3/4		3/4		3/4	
3	1,323.65	3	1,078.38	3	833.12	3	587.85	3	342.88	3	97.77	3		3		3		3	
1/4	1,318.54	1/4	1,073.27	1/4	828.01	1/4	582.74	1/4	337.78	1/4	92.66	1/4		1/4		1/4		1/4	
1/2	1,313.43	1/2	1,068.16	1/2	822.90	1/2	577.63	1/2	332.68	1/2	87.56	1/2		1/2		1/2		1/2	
3/4	1,308.32	3/4	1,063.05	3/4	817.79	3/4	572.52	3/4	327.58	3/4	82.45	3/4		3/4		3/4		3/4	
4	1,303.21	4	1,057.94	4	812.68	4	567.41	4	322.49	4	77.34	4		4		4		4	
1/4	1,298.10	1/4	1,052.84	1/4	807.57	1/4	562.30	1/4	317.39	1/4	72.23	1/4		1/4		1/4		1/4	
1/2	1,292.99	1/2	1,047.73	1/2	802.46	1/2	557.19	1/2	312.29	1/2	67.13	1/2		1/2		1/2		1/2	
3/4	1,287.88	3/4	1,042.62	3/4	797.35	3/4	552.08	3/4	307.19	3/4	62.04	3/4		3/4		3/4		3/4	
5	1,282.77	5	1,037.51	5	792.24	5	546.97	5	302.10	5	56.94	5		5		5		5	
1/4	1,277.66	1/4	1,032.40	1/4	787.13	1/4	541.87	1/4	297.00	1/4	51.84	1/4		1/4		1/4		1/4	
1/2	1,272.55	1/2	1,027.29	1/2	782.02	1/2	536.76	1/2	291.90	1/2	46.78	1/2		1/2		1/2		1/2	
3/4	1,267.44	3/4	1,022.18	3/4	776.91	3/4	531.65	3/4	286.80	3/4	41.71	3/4		3/4		3/4		3/4	
6	1,262.33	6	1,017.07	6	771.80	6	526.54	6	281.71	6	36.65	6		6		6		6	
1/4	1,257.22	1/4	1,011.96	1/4	766.69	1/4	521.43	1/4	276.61	1/4	31.58	1/4		1/4		1/4		1/4	
1/2	1,252.11	1/2	1,006.85	1/2	761.58	1/2	516.32	1/2	271.50	1/2	27.33	1/2		1/2		1/2		1/2	
3/4	1,247.00	3/4	1,001.74	3/4	756.47	3/4	511.21	3/4	266.39	3/4	23.07	3/4		3/4		3/4		3/4	
7	1,241.89	7	996.63	7	751.36	7	506.10	7	261.28	7	18.82	7		7		7		7	
1/4	1,236.78	1/4	991.52	1/4	746.25	1/4	500.99	1/4	256.17	1/4	14.56	1/4		1/4		1/4		1/4	
1/2	1,231.67	1/2	986.41	1/2	741.14	1/2	495.88	1/2	251.06	1/2	12.01	1/2		1/2		1/2		1/2	
3/4	1,226.57	3/4	981.30	3/4	736.03	3/4	490.77	3/4	245.95	3/4	9.45	3/4		3/4		3/4		3/4	
8	1,221.46	8	976.19	8	730.92	8	485.66	8	240.84	8	6.90	8		8		8		8	
1/4	1,216.35	1/4	971.08	1/4	725.81	1/4	480.55	1/4	235.73	1/4	4.34	1/4		1/4		1/4		1/4	
1/2	1,211.24	1/2	965.97	1/2	720.70	1/2	475.45	1/2	230.62	1/2	3.49	1/2		1/2		1/2		1/2	
3/4	1,206.13	3/4	960.86	3/4	715.60	3/4	470.34	3/4	225.51	3/4	2.64	3/4		3/4		3/4		3/4	
9	1,201.02	9	955.75	9	710.49	9	465.24	9	220.40	9	1.79	9		9		9		9	
1/4	1,195.91	1/4	950.64	1/4	705.38	1/4	460.14	1/4	215.29	1/4	0.94	1/4		1/4		1/4		1/4	
1/2	1,190.80	1/2	945.53	1/2	700.27	1/2	455.04	1/2	210.18	1/2		1/2		1/2		1/2		1/2	
3/4	1,185.69	3/4	940.42	3/4	695.16	3/4	449.93	3/4	205.07	3/4		3/4		3/4		3/4		3/4	
10	1,180.58	10	935.31	10	690.05	10	444.83	10	199.96	10		10		10		10		10	
1/4	1,175.47	1/4	930.20	1/4	684.94	1/4	439.73	1/4	194.86	1/4		1/4		1/4		1/4		1/4	
1/2	1,170.36	1/2	925.09	1/2	679.83	1/2	434.63	1/2	189.75	1/2		1/2		1/2		1/2		1/2	
3/4	1,165.25	3/4	919.98	3/4	674.72	3/4	429.53	3/4	184.64	3/4		3/4		3/4		3/4		3/4	
11	1,160.14	11	914.87	11	669.61	11	424.44	11	179.53	11		11		11		11		11	
1/4	1,155.03	1/4	909.76	1/4	664.50	1/4	419.34	1/4	174.42	1/4		1/4		1/4		1/4		1/4	
1/2	1,149.92	1/2	904.65	1/2	659.39	1/2	414.24	1/2	169.31	1/2		1/2		1/2		1/2		1/2	
3/4	1,144.81	3/4	899.54	3/4	654.28	3/4	409.14	3/4	164.20	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/13/2020 JS
CALCULATED: 11/13/2020 CL
PRINTED: 11/13/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2020

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



BARGE "HFL 212"

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	00-7/8	- 00-7/8	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	- 00-3/4	00-3/4	- 00-7/8	00-7/8
3 CENTER	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8	00-1/2	- 00-1/2

(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"

November 13, 2020

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

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BARGE "HFL 212"

1 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	0.94	0	214.54	0	454.23	0	696.44	0	940.20	0	1,183.97	0	1,427.73	0	1,671.50	0	1,915.27	0	2,159.04
1/4	1.79	1/4	219.60	1/4	459.19	1/4	701.51	1/4	945.28	1/4	1,189.04	1/4	1,432.81	1/4	1,676.58	1/4	1,920.35	1/4	2,164.12
1/2	2.63	1/2	224.66	1/2	464.14	1/2	706.59	1/2	950.36	1/2	1,194.12	1/2	1,437.89	1/2	1,681.66	1/2	1,925.43	1/2	2,169.20
3/4	3.48	3/4	229.71	3/4	469.10	3/4	711.67	3/4	955.43	3/4	1,199.20	3/4	1,442.97	3/4	1,686.74	3/4	1,930.51	3/4	2,174.27
1	4.33	1	234.77	1	474.06	1	716.75	1	960.51	1	1,204.28	1	1,448.05	1	1,691.82	1	1,935.58	1	2,179.35
1/4	6.88	1/4	239.81	1/4	479.02	1/4	721.83	1/4	965.59	1/4	1,209.36	1/4	1,453.13	1/4	1,696.89	1/4	1,940.66	1/4	2,184.43
1/2	9.42	1/2	244.85	1/2	483.98	1/2	726.91	1/2	970.67	1/2	1,214.44	1/2	1,458.21	1/2	1,701.97	1/2	1,945.74	1/2	2,189.51
3/4	11.97	3/4	249.89	3/4	488.93	3/4	731.99	3/4	975.75	3/4	1,219.52	3/4	1,463.28	3/4	1,707.05	3/4	1,950.82	3/4	2,194.59
2	14.51	2	254.93	2	493.89	2	737.06	2	980.83	2	1,224.59	2	1,468.36	2	1,712.13	2	1,955.90	2	2,199.67
1/4	18.76	1/4	259.99	1/4	498.85	1/4	742.14	1/4	985.91	1/4	1,229.67	1/4	1,473.44	1/4	1,717.21	1/4	1,960.98	1/4	2,204.74
1/2	23.00	1/2	265.04	1/2	503.81	1/2	747.22	1/2	990.98	1/2	1,234.75	1/2	1,478.52	1/2	1,722.29	1/2	1,966.06	1/2	2,209.82
3/4	27.24	3/4	270.10	3/4	508.77	3/4	752.30	3/4	996.06	3/4	1,239.83	3/4	1,483.60	3/4	1,727.37	3/4	1,971.13	3/4	2,214.90
3	31.48	3	275.15	3	513.72	3	757.38	3	1,001.14	3	1,244.91	3	1,488.68	3	1,732.44	3	1,976.21	3	2,219.98
1/4	36.53	1/4	280.20	1/4	518.68	1/4	762.46	1/4	1,006.22	1/4	1,249.99	1/4	1,493.75	1/4	1,737.52	1/4	1,981.29	1/4	2,225.06
1/2	41.57	1/2	285.26	1/2	523.64	1/2	767.53	1/2	1,011.30	1/2	1,255.07	1/2	1,498.83	1/2	1,742.60	1/2	1,986.37	1/2	2,230.14
3/4	46.62	3/4	290.31	3/4	528.60	3/4	772.61	3/4	1,016.38	3/4	1,260.14	3/4	1,503.91	3/4	1,747.68	3/4	1,991.45	3/4	2,235.22
4	51.67	4	295.37	4	533.56	4	777.69	4	1,021.45	4	1,265.22	4	1,508.99	4	1,752.76	4	1,996.53	4	2,240.29
1/4	56.75	1/4	300.41	1/4	538.65	1/4	782.77	1/4	1,026.53	1/4	1,270.30	1/4	1,514.07	1/4	1,757.84	1/4	2,001.60	1/4	2,245.37
1/2	61.83	1/2	305.44	1/2	543.74	1/2	787.85	1/2	1,031.61	1/2	1,275.38	1/2	1,519.15	1/2	1,762.92	1/2	2,006.68	1/2	2,250.45
3/4	66.90	3/4	310.48	3/4	548.83	3/4	792.93	3/4	1,036.69	3/4	1,280.46	3/4	1,524.23	3/4	1,767.99	3/4	2,011.76	3/4	2,255.53
5	71.98	5	315.51	5	553.92	5	798.00	5	1,041.77	5	1,285.54	5	1,529.30	5	1,773.07	5	2,016.84	5	2,260.61
1/4	77.07	1/4	320.55	1/4	559.01	1/4	803.08	1/4	1,046.85	1/4	1,290.61	1/4	1,534.38	1/4	1,778.15	1/4	2,021.92	1/4	2,265.69
1/2	82.16	1/2	325.59	1/2	564.10	1/2	808.16	1/2	1,051.93	1/2	1,295.69	1/2	1,539.46	1/2	1,783.23	1/2	2,027.00	1/2	2,270.77
3/4	87.25	3/4	330.62	3/4	569.19	3/4	813.24	3/4	1,057.00	3/4	1,300.77	3/4	1,544.54	3/4	1,788.31	3/4	2,032.08	3/4	2,275.84
6	92.34	6	335.66	6	574.28	6	818.32	6	1,062.08	6	1,305.85	6	1,549.62	6	1,793.39	6	2,037.15	6	2,280.92
1/4	97.43	1/4	340.61	1/4	579.37	1/4	823.40	1/4	1,067.16	1/4	1,310.93	1/4	1,554.70	1/4	1,798.46	1/4	2,042.23	1/4	2,286.00
1/2	102.53	1/2	345.56	1/2	584.46	1/2	828.47	1/2	1,072.24	1/2	1,316.01	1/2	1,559.78	1/2	1,803.54	1/2	2,047.31	1/2	2,291.07
3/4	107.62	3/4	350.51	3/4	589.55	3/4	833.55	3/4	1,077.32	3/4	1,321.09	3/4	1,564.85	3/4	1,808.62	3/4	2,052.39	3/4	2,296.14
7	112.71	7	355.46	7	594.64	7	838.63	7	1,082.40	7	1,326.16	7	1,569.93	7	1,813.70	7	2,057.47	7	2,301.22
1/4	117.80	1/4	360.41	1/4	599.73	1/4	843.71	1/4	1,087.47	1/4	1,331.24	1/4	1,575.01	1/4	1,818.78	1/4	2,062.55	1/4	2,306.29
1/2	122.89	1/2	365.36	1/2	604.82	1/2	848.79	1/2	1,092.55	1/2	1,336.32	1/2	1,580.09	1/2	1,823.86	1/2	2,067.63	1/2	2,311.37
3/4	127.98	3/4	370.32	3/4	609.91	3/4	853.87	3/4	1,097.63	3/4	1,341.40	3/4	1,585.17	3/4	1,828.94	3/4	2,072.70	3/4	2,316.44
8	133.08	8	375.27	8	615.00	8	858.95	8	1,102.71	8	1,346.48	8	1,590.25	8	1,834.01	8	2,077.78	8	2,321.52
1/4	138.17	1/4	380.19	1/4	620.09	1/4	864.02	1/4	1,107.79	1/4	1,351.56	1/4	1,595.32	1/4	1,839.09	1/4	2,082.86	1/4	2,326.59
1/2	143.26	1/2	385.11	1/2	625.18	1/2	869.10	1/2	1,112.87	1/2	1,356.64	1/2	1,600.40	1/2	1,844.17	1/2	2,087.94	1/2	2,331.66
3/4	148.35	3/4	390.03	3/4	630.27	3/4	874.18	3/4	1,117.95	3/4	1,361.71	3/4	1,605.48	3/4	1,849.25	3/4	2,093.02	3/4	2,336.74
9	153.44	9	394.95	9	635.36	9	879.26	9	1,123.02	9	1,366.79	9	1,610.56	9	1,854.33	9	2,098.10	9	2,341.81
1/4	158.53	1/4	399.87	1/4	640.45	1/4	884.34	1/4	1,128.10	1/4	1,371.87	1/4	1,615.64	1/4	1,859.41	1/4	2,103.17	1/4	2,346.89
1/2	163.63	1/2	404.79	1/2	645.54	1/2	889.42	1/2	1,133.18	1/2	1,376.95	1/2	1,620.72	1/2	1,864.49	1/2	2,108.25	1/2	2,351.96
3/4	168.72	3/4	409.72	3/4	650.63	3/4	894.49	3/4	1,138.26	3/4	1,382.03	3/4	1,625.80	3/4	1,869.56	3/4	2,113.33	3/4	2,357.04
10	173.81	10	414.64	10	655.72	10	899.57	10	1,143.34	10	1,387.11	10	1,630.87	10	1,874.64	10	2,118.41	10	2,362.11
1/4	178.90	1/4	419.58	1/4	660.81	1/4	904.65	1/4	1,148.42	1/4	1,392.18	1/4	1,635.95	1/4	1,879.72	1/4	2,123.49	1/4	2,367.18
1/2	183.99	1/2	424.52	1/2	665.90	1/2	909.73	1/2	1,153.50	1/2	1,397.26	1/2	1,641.03	1/2	1,884.80	1/2	2,128.57	1/2	2,372.26
3/4	189.08	3/4	429.46	3/4	670.99	3/4	914.81	3/4	1,158.57	3/4	1,402.34	3/4	1,646.11	3/4	1,889.88	3/4	2,133.65	3/4	2,377.33
11	194.18	11	434.40	11	676.08	11	919.89	11	1,163.65	11	1,407.42	11	1,651.19	11	1,894.96	11	2,138.72	11	2,382.41
1/4	199.27	1/4	439.35	1/4	681.17	1/4	924.96	1/4	1,168.73	1/4	1,412.50	1/4	1,656.27	1/4	1,900.03	1/4	2,143.80	1/4	2,387.48
1/2	204.36	1/2	444.31	1/2	686.26	1/2	930.04	1/2	1,173.81	1/2	1,417.58	1/2	1,661.35	1/2	1,905.11	1/2	2,148.88	1/2	2,392.55
3/4	209.45	3/4	449.27	3/4	691.35	3/4	935.12	3/4	1,178.89	3/4	1,422.66	3/4	1,666.42	3/4	1,910.19	3/4	2,153.96	3/4	2,397.63

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: (HERMETIC) LOCATED ON CENTERLINE AND 24'-03" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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BARGE "HFL 212"

1 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	2,402.70	0	2,643.80	0	2,855.84	0	3,067.88	0	3,279.92	0		0		0		0		0	
1/4	2,407.78	1/4	2,648.22	1/4	2,860.26	1/4	3,072.30	1/4	3,284.34	1/4		1/4		1/4		1/4		1/4	
1/2	2,412.86	1/2	2,652.63	1/2	2,864.67	1/2	3,076.71	1/2	3,288.75	1/2		1/2		1/2		1/2		1/2	
3/4	2,417.94	3/4	2,657.05	3/4	2,869.09	3/4	3,081.13	3/4	3,293.17	3/4		3/4		3/4		3/4		3/4	
1	2,423.01	1	2,661.47	1	2,873.51	1	3,085.55	1	3,297.59	1		1		1		1		1	
1/4	2,428.09	1/4	2,665.89	1/4	2,877.93	1/4	3,089.97	1/4	3,302.01	1/4		1/4		1/4		1/4		1/4	
1/2	2,433.17	1/2	2,670.30	1/2	2,882.34	1/2	3,094.38	1/2	3,306.42	1/2		1/2		1/2		1/2		1/2	
3/4	2,438.25	3/4	2,674.72	3/4	2,886.76	3/4	3,098.80	3/4	3,310.84	3/4		3/4		3/4		3/4		3/4	
2	2,443.33	2	2,679.14	2	2,891.18	2	3,103.22	2	3,315.26	2		2		2		2		2	
1/4	2,448.40	1/4	2,683.56	1/4	2,895.60	1/4	3,107.64	1/4	3,319.68	1/4		1/4		1/4		1/4		1/4	
1/2	2,453.48	1/2	2,687.97	1/2	2,900.01	1/2	3,112.05	1/2	3,324.09	1/2		1/2		1/2		1/2		1/2	
3/4	2,458.56	3/4	2,692.39	3/4	2,904.43	3/4	3,116.47	3/4	3,328.51	3/4		3/4		3/4		3/4		3/4	
3	2,463.64	3	2,696.81	3	2,908.85	3	3,120.89	3	3,332.93	3		3		3		3		3	
1/4	2,468.71	1/4	2,701.23	1/4	2,913.27	1/4	3,125.31	1/4	3,337.35	1/4		1/4		1/4		1/4		1/4	
1/2	2,473.79	1/2	2,705.64	1/2	2,917.68	1/2	3,129.72	1/2	3,341.76	1/2		1/2		1/2		1/2		1/2	
3/4	2,478.87	3/4	2,710.06	3/4	2,922.10	3/4	3,134.14	3/4	3,346.18	3/4		3/4		3/4		3/4		3/4	
4	2,483.95	4	2,714.48	4	2,926.52	4	3,138.56	4	3,350.60	4		4		4		4		4	
1/4	2,489.03	1/4	2,718.90	1/4	2,930.94	1/4	3,142.98	1/4	3,355.00	1/4		1/4		1/4		1/4		1/4	
1/2	2,494.10	1/2	2,723.31	1/2	2,935.35	1/2	3,147.39	1/2	3,359.40	1/2		1/2		1/2		1/2		1/2	
3/4	2,499.18	3/4	2,727.73	3/4	2,939.77	3/4	3,151.81	3/4	3,363.81	3/4		3/4		3/4		3/4		3/4	
5	2,504.26	5	2,732.15	5	2,944.19	5	3,156.23	5	3,368.21	5		5		5		5		5	
1/4	2,509.34	1/4	2,736.57	1/4	2,948.61	1/4	3,160.65	1/4	3,371.78	1/4		1/4		1/4		1/4		1/4	
1/2	2,514.41	1/2	2,740.98	1/2	2,953.02	1/2	3,165.06	1/2	3,375.35	1/2		1/2		1/2		1/2		1/2	
3/4	2,519.49	3/4	2,745.40	3/4	2,957.44	3/4	3,169.48	3/4	3,378.91	3/4		3/4		3/4		3/4		3/4	
6	2,524.57	6	2,749.82	6	2,961.86	6	3,173.90	6	3,382.48	6		6		6		6		6	
1/4	2,529.65	1/4	2,754.24	1/4	2,966.28	1/4	3,178.32	1/4	3,384.35	1/4		1/4		1/4		1/4		1/4	
1/2	2,534.73	1/2	2,758.65	1/2	2,970.69	1/2	3,182.73	1/2	3,386.23	1/2		1/2		1/2		1/2		1/2	
3/4	2,539.80	3/4	2,763.07	3/4	2,975.11	3/4	3,187.15	3/4	3,388.10	3/4		3/4		3/4		3/4		3/4	
7	2,544.88	7	2,767.49	7	2,979.53	7	3,191.57	7	3,389.97	7		7		7		7		7	
1/4	2,549.96	1/4	2,771.91	1/4	2,983.95	1/4	3,195.99	1/4	3,390.14	1/4		1/4		1/4		1/4		1/4	
1/2	2,555.04	1/2	2,776.32	1/2	2,988.36	1/2	3,200.40	1/2	3,390.32	1/2		1/2		1/2		1/2		1/2	
3/4	2,560.11	3/4	2,780.74	3/4	2,992.78	3/4	3,204.82	3/4	3,390.49	3/4		3/4		3/4		3/4		3/4	
8	2,565.19	8	2,785.16	8	2,997.20	8	3,209.24	8	3,390.67	8		8		8		8		8	
1/4	2,570.27	1/4	2,789.58	1/4	3,001.62	1/4	3,213.66	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,575.35	1/2	2,793.99	1/2	3,006.03	1/2	3,218.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,580.43	3/4	2,798.41	3/4	3,010.45	3/4	3,222.49	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,585.50	9	2,802.83	9	3,014.87	9	3,226.91	9		9		9		9		9		9	
1/4	2,590.58	1/4	2,807.25	1/4	3,019.29	1/4	3,231.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,595.66	1/2	2,811.66	1/2	3,023.70	1/2	3,235.74	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,600.74	3/4	2,816.08	3/4	3,028.12	3/4	3,240.16	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,605.82	10	2,820.50	10	3,032.54	10	3,244.58	10		10		10		10		10		10	
1/4	2,610.89	1/4	2,824.92	1/4	3,036.96	1/4	3,249.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,615.97	1/2	2,829.33	1/2	3,041.37	1/2	3,253.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,621.05	3/4	2,833.75	3/4	3,045.79	3/4	3,257.83	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,626.13	11	2,838.17	11	3,050.21	11	3,262.25	11		11		11		11		11		11	
1/4	2,630.55	1/4	2,842.59	1/4	3,054.63	1/4	3,266.67	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,634.96	1/2	2,847.00	1/2	3,059.04	1/2	3,271.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,639.38	3/4	2,851.42	3/4	3,063.46	3/4	3,275.50	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/13/2020 JS
CALCULATED: 11/13/2020 CL
PRINTED: 11/13/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2020

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "HFL 212"

2 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	246.25	0	520.26	0	800.25	0	1,080.94	0	1,361.63	0	1,642.32	0	1,923.01	0	2,203.70	0	2,484.39
1/4	1.91	1/4	252.10	1/4	525.93	1/4	806.10	1/4	1,086.79	1/4	1,367.47	1/4	1,648.16	1/4	1,928.85	1/4	2,209.54	1/4	2,490.23
1/2	2.88	1/2	257.95	1/2	531.61	1/2	811.94	1/2	1,092.63	1/2	1,373.32	1/2	1,654.01	1/2	1,934.70	1/2	2,215.39	1/2	2,496.08
3/4	3.86	3/4	263.79	3/4	537.28	3/4	817.79	3/4	1,098.48	3/4	1,379.17	3/4	1,659.86	3/4	1,940.55	3/4	2,221.24	3/4	2,501.93
1	4.83	1	269.64	1	542.95	1	823.64	1	1,104.33	1	1,385.02	1	1,665.71	1	1,946.40	1	2,227.09	1	2,507.78
1/4	7.76	1/4	275.49	1/4	548.80	1/4	829.49	1/4	1,110.18	1/4	1,390.87	1/4	1,671.56	1/4	1,952.24	1/4	2,232.93	1/4	2,513.62
1/2	10.68	1/2	281.34	1/2	554.64	1/2	835.33	1/2	1,116.02	1/2	1,396.71	1/2	1,677.40	1/2	1,958.09	1/2	2,238.78	1/2	2,519.47
3/4	13.60	3/4	287.18	3/4	560.49	3/4	841.18	3/4	1,121.87	3/4	1,402.56	3/4	1,683.25	3/4	1,963.94	3/4	2,244.63	3/4	2,525.32
2	16.53	2	293.03	2	566.34	2	847.03	2	1,127.72	2	1,408.41	2	1,689.10	2	1,969.79	2	2,250.48	2	2,531.17
1/4	21.40	1/4	298.88	1/4	572.19	1/4	852.88	1/4	1,133.57	1/4	1,414.26	1/4	1,694.95	1/4	1,975.64	1/4	2,256.33	1/4	2,537.01
1/2	26.27	1/2	304.73	1/2	578.04	1/2	858.73	1/2	1,139.41	1/2	1,420.10	1/2	1,700.79	1/2	1,981.48	1/2	2,262.17	1/2	2,542.86
3/4	31.14	3/4	310.57	3/4	583.88	3/4	864.57	3/4	1,145.26	3/4	1,425.95	3/4	1,706.64	3/4	1,987.33	3/4	2,268.02	3/4	2,548.71
3	36.01	3	316.42	3	589.73	3	870.42	3	1,151.11	3	1,431.80	3	1,712.49	3	1,993.18	3	2,273.87	3	2,554.56
1/4	41.81	1/4	322.08	1/4	595.58	1/4	876.27	1/4	1,156.96	1/4	1,437.65	1/4	1,718.34	1/4	1,999.03	1/4	2,279.72	1/4	2,560.41
1/2	47.60	1/2	327.74	1/2	601.43	1/2	882.12	1/2	1,162.81	1/2	1,443.50	1/2	1,724.18	1/2	2,004.87	1/2	2,285.56	1/2	2,566.25
3/4	53.40	3/4	333.40	3/4	607.27	3/4	887.96	3/4	1,168.65	3/4	1,449.34	3/4	1,730.03	3/4	2,010.72	3/4	2,291.41	3/4	2,572.10
4	59.20	4	339.06	4	613.12	4	893.81	4	1,174.50	4	1,455.19	4	1,735.88	4	2,016.57	4	2,297.26	4	2,577.95
1/4	65.03	1/4	344.73	1/4	618.97	1/4	899.66	1/4	1,180.35	1/4	1,461.04	1/4	1,741.73	1/4	2,022.42	1/4	2,303.11	1/4	2,583.80
1/2	70.86	1/2	350.39	1/2	624.82	1/2	905.51	1/2	1,186.20	1/2	1,466.89	1/2	1,747.58	1/2	2,028.27	1/2	2,308.95	1/2	2,589.64
3/4	76.70	3/4	356.05	3/4	630.66	3/4	911.35	3/4	1,192.04	3/4	1,472.73	3/4	1,753.42	3/4	2,034.11	3/4	2,314.80	3/4	2,595.49
5	82.53	5	361.71	5	636.51	5	917.20	5	1,197.89	5	1,478.58	5	1,759.27	5	2,039.96	5	2,320.65	5	2,601.34
1/4	88.37	1/4	367.37	1/4	642.36	1/4	923.05	1/4	1,203.74	1/4	1,484.43	1/4	1,765.12	1/4	2,045.81	1/4	2,326.50	1/4	2,607.19
1/2	94.22	1/2	373.03	1/2	648.21	1/2	928.90	1/2	1,209.59	1/2	1,490.28	1/2	1,770.97	1/2	2,051.66	1/2	2,332.35	1/2	2,613.03
3/4	100.06	3/4	378.69	3/4	654.06	3/4	934.75	3/4	1,215.43	3/4	1,496.12	3/4	1,776.81	3/4	2,057.50	3/4	2,338.19	3/4	2,618.88
6	105.91	6	384.35	6	659.90	6	940.59	6	1,221.28	6	1,501.97	6	1,782.66	6	2,063.35	6	2,344.04	6	2,624.73
1/4	111.76	1/4	390.01	1/4	665.75	1/4	946.44	1/4	1,227.13	1/4	1,507.82	1/4	1,788.51	1/4	2,069.20	1/4	2,349.89	1/4	2,630.58
1/2	117.61	1/2	395.68	1/2	671.60	1/2	952.29	1/2	1,232.98	1/2	1,513.67	1/2	1,794.36	1/2	2,075.05	1/2	2,355.74	1/2	2,636.43
3/4	123.45	3/4	401.34	3/4	677.45	3/4	958.14	3/4	1,238.83	3/4	1,519.52	3/4	1,800.20	3/4	2,080.89	3/4	2,361.58	3/4	2,642.27
7	129.30	7	407.00	7	683.29	7	963.98	7	1,244.67	7	1,525.36	7	1,806.05	7	2,086.74	7	2,367.43	7	2,648.12
1/4	135.15	1/4	412.66	1/4	689.14	1/4	969.83	1/4	1,250.52	1/4	1,531.21	1/4	1,811.90	1/4	2,092.59	1/4	2,373.28	1/4	2,653.97
1/2	141.00	1/2	418.32	1/2	694.99	1/2	975.68	1/2	1,256.37	1/2	1,537.06	1/2	1,817.75	1/2	2,098.44	1/2	2,379.13	1/2	2,659.82
3/4	146.84	3/4	423.98	3/4	700.84	3/4	981.53	3/4	1,262.22	3/4	1,542.91	3/4	1,823.60	3/4	2,104.29	3/4	2,384.97	3/4	2,665.66
8	152.69	8	429.64	8	706.68	8	987.37	8	1,268.06	8	1,548.75	8	1,829.44	8	2,110.13	8	2,390.82	8	2,671.51
1/4	158.54	1/4	435.30	1/4	712.53	1/4	993.22	1/4	1,273.91	1/4	1,554.60	1/4	1,835.29	1/4	2,115.98	1/4	2,396.67	1/4	2,677.36
1/2	164.39	1/2	440.96	1/2	718.38	1/2	999.07	1/2	1,279.76	1/2	1,560.45	1/2	1,841.14	1/2	2,121.83	1/2	2,402.52	1/2	2,683.21
3/4	170.23	3/4	446.63	3/4	724.23	3/4	1,004.92	3/4	1,285.61	3/4	1,566.30	3/4	1,846.99	3/4	2,127.68	3/4	2,408.37	3/4	2,689.06
9	176.08	9	452.29	9	730.08	9	1,010.77	9	1,291.45	9	1,572.14	9	1,852.83	9	2,133.52	9	2,414.21	9	2,694.90
1/4	181.93	1/4	457.95	1/4	735.92	1/4	1,016.61	1/4	1,297.30	1/4	1,577.99	1/4	1,858.68	1/4	2,139.37	1/4	2,420.06	1/4	2,700.75
1/2	187.78	1/2	463.61	1/2	741.77	1/2	1,022.46	1/2	1,303.15	1/2	1,583.84	1/2	1,864.53	1/2	2,145.22	1/2	2,425.91	1/2	2,706.60
3/4	193.62	3/4	469.27	3/4	747.62	3/4	1,028.31	3/4	1,309.00	3/4	1,589.69	3/4	1,870.38	3/4	2,151.07	3/4	2,431.76	3/4	2,712.45
10	199.47	10	474.93	10	753.47	10	1,034.16	10	1,314.85	10	1,595.54	10	1,876.22	10	2,156.91	10	2,437.60	10	2,718.29
1/4	205.32	1/4	480.59	1/4	759.31	1/4	1,040.00	1/4	1,320.69	1/4	1,601.38	1/4	1,882.07	1/4	2,162.76	1/4	2,443.45	1/4	2,724.14
1/2	211.17	1/2	486.25	1/2	765.16	1/2	1,045.85	1/2	1,326.54	1/2	1,607.23	1/2	1,887.92	1/2	2,168.61	1/2	2,449.30	1/2	2,729.99
3/4	217.01	3/4	491.91	3/4	771.01	3/4	1,051.70	3/4	1,332.39	3/4	1,613.08	3/4	1,893.77	3/4	2,174.46	3/4	2,455.15	3/4	2,735.84
11	222.86	11	497.58	11	776.86	11	1,057.55	11	1,338.24	11	1,618.93	11	1,899.62	11	2,180.31	11	2,460.99	11	2,741.68
1/4	228.71	1/4	503.25	1/4	782.70	1/4	1,063.39	1/4	1,344.08	1/4	1,624.77	1/4	1,905.46	1/4	2,186.15	1/4	2,466.84	1/4	2,747.53
1/2	234.56	1/2	508.92	1/2	788.55	1/2	1,069.24	1/2	1,349.93	1/2	1,630.62	1/2	1,911.31	1/2	2,192.00	1/2	2,472.69	1/2	2,753.38
3/4	240.40	3/4	514.59	3/4	794.40	3/4	1,075.09	3/4	1,355.78	3/4	1,636.47	3/4	1,917.16	3/4	2,197.85	3/4	2,478.54	3/4	2,759.23

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO INNAGE GAUGES TAKEN TO TOP OF 2" DIAMETER "MMC" VALVE.

GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 32'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "HFL 212"

2 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	2,765.08	0	3,045.76	0	3,326.45	0	3,607.14	0	3,887.83	0		0		0		0		0	
1/4	2,770.92	1/4	3,051.61	1/4	3,332.30	1/4	3,612.99	1/4	3,893.68	1/4		1/4		1/4		1/4		1/4	
1/2	2,776.77	1/2	3,057.46	1/2	3,338.15	1/2	3,618.84	1/2	3,899.53	1/2		1/2		1/2		1/2		1/2	
3/4	2,782.62	3/4	3,063.31	3/4	3,344.00	3/4	3,624.69	3/4	3,905.38	3/4		3/4		3/4		3/4		3/4	
1	2,788.47	1	3,069.16	1	3,349.85	1	3,630.53	1	3,911.22	1		1		1		1		1	
1/4	2,794.31	1/4	3,075.00	1/4	3,355.69	1/4	3,636.38	1/4	3,917.07	1/4		1/4		1/4		1/4		1/4	
1/2	2,800.16	1/2	3,080.85	1/2	3,361.54	1/2	3,642.23	1/2	3,922.92	1/2		1/2		1/2		1/2		1/2	
3/4	2,806.01	3/4	3,086.70	3/4	3,367.39	3/4	3,648.08	3/4	3,928.77	3/4		3/4		3/4		3/4		3/4	
2	2,811.86	2	3,092.55	2	3,373.24	2	3,653.93	2	3,934.62	2		2		2		2		2	
1/4	2,817.70	1/4	3,098.39	1/4	3,379.08	1/4	3,659.77	1/4	3,940.46	1/4		1/4		1/4		1/4		1/4	
1/2	2,823.55	1/2	3,104.24	1/2	3,384.93	1/2	3,665.62	1/2	3,946.31	1/2		1/2		1/2		1/2		1/2	
3/4	2,829.40	3/4	3,110.09	3/4	3,390.78	3/4	3,671.47	3/4	3,952.16	3/4		3/4		3/4		3/4		3/4	
3	2,835.25	3	3,115.94	3	3,396.63	3	3,677.32	3	3,958.01	3		3		3		3		3	
1/4	2,841.10	1/4	3,121.78	1/4	3,402.47	1/4	3,683.16	1/4	3,963.85	1/4		1/4		1/4		1/4		1/4	
1/2	2,846.94	1/2	3,127.63	1/2	3,408.32	1/2	3,689.01	1/2	3,969.70	1/2		1/2		1/2		1/2		1/2	
3/4	2,852.79	3/4	3,133.48	3/4	3,414.17	3/4	3,694.86	3/4	3,975.55	3/4		3/4		3/4		3/4		3/4	
4	2,858.64	4	3,139.33	4	3,420.02	4	3,700.71	4	3,981.40	4		4		4		4		4	
1/4	2,864.49	1/4	3,145.18	1/4	3,425.87	1/4	3,706.55	1/4	3,987.23	1/4		1/4		1/4		1/4		1/4	
1/2	2,870.33	1/2	3,151.02	1/2	3,431.71	1/2	3,712.40	1/2	3,993.06	1/2		1/2		1/2		1/2		1/2	
3/4	2,876.18	3/4	3,156.87	3/4	3,437.56	3/4	3,718.25	3/4	3,998.89	3/4		3/4		3/4		3/4		3/4	
5	2,882.03	5	3,162.72	5	3,443.41	5	3,724.10	5	4,004.72	5		5		5		5		5	
1/4	2,887.88	1/4	3,168.57	1/4	3,449.26	1/4	3,729.95	1/4	4,009.59	1/4		1/4		1/4		1/4		1/4	
1/2	2,893.72	1/2	3,174.41	1/2	3,455.10	1/2	3,735.79	1/2	4,014.46	1/2		1/2		1/2		1/2		1/2	
3/4	2,899.57	3/4	3,180.26	3/4	3,460.95	3/4	3,741.64	3/4	4,019.33	3/4		3/4		3/4		3/4		3/4	
6	2,905.42	6	3,186.11	6	3,466.80	6	3,747.49	6	4,024.21	6		6		6		6		6	
1/4	2,911.27	1/4	3,191.96	1/4	3,472.65	1/4	3,753.34	1/4	4,027.13	1/4		1/4		1/4		1/4		1/4	
1/2	2,917.12	1/2	3,197.80	1/2	3,478.49	1/2	3,759.18	1/2	4,030.05	1/2		1/2		1/2		1/2		1/2	
3/4	2,922.96	3/4	3,203.65	3/4	3,484.34	3/4	3,765.03	3/4	4,032.98	3/4		3/4		3/4		3/4		3/4	
7	2,928.81	7	3,209.50	7	3,490.19	7	3,770.88	7	4,035.90	7		7		7		7		7	
1/4	2,934.66	1/4	3,215.35	1/4	3,496.04	1/4	3,776.73	1/4	4,036.88	1/4		1/4		1/4		1/4		1/4	
1/2	2,940.51	1/2	3,221.20	1/2	3,501.89	1/2	3,782.57	1/2	4,037.85	1/2		1/2		1/2		1/2		1/2	
3/4	2,946.35	3/4	3,227.04	3/4	3,507.73	3/4	3,788.42	3/4	4,038.82	3/4		3/4		3/4		3/4		3/4	
8	2,952.20	8	3,232.89	8	3,513.58	8	3,794.27	8	4,039.80	8		8		8		8		8	
1/4	2,958.05	1/4	3,238.74	1/4	3,519.43	1/4	3,800.12	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,963.90	1/2	3,244.59	1/2	3,525.28	1/2	3,805.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,969.74	3/4	3,250.43	3/4	3,531.12	3/4	3,811.81	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,975.59	9	3,256.28	9	3,536.97	9	3,817.66	9		9		9		9		9		9	
1/4	2,981.44	1/4	3,262.13	1/4	3,542.82	1/4	3,823.51	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,987.29	1/2	3,267.98	1/2	3,548.67	1/2	3,829.36	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,993.14	3/4	3,273.83	3/4	3,554.51	3/4	3,835.20	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,998.98	10	3,279.67	10	3,560.36	10	3,841.05	10		10		10		10		10		10	
1/4	3,004.83	1/4	3,285.52	1/4	3,566.21	1/4	3,846.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,010.68	1/2	3,291.37	1/2	3,572.06	1/2	3,852.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,016.53	3/4	3,297.22	3/4	3,577.91	3/4	3,858.60	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,022.37	11	3,303.06	11	3,583.75	11	3,864.44	11		11		11		11		11		11	
1/4	3,028.22	1/4	3,308.91	1/4	3,589.60	1/4	3,870.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,034.07	1/2	3,314.76	1/2	3,595.45	1/2	3,876.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,039.92	3/4	3,320.61	3/4	3,601.30	3/4	3,881.99	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/13/2020 JS
CALCULATED: 11/13/2020 CL
PRINTED: 11/13/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2020

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



BARGE "HFL 212"

3 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	215.29	0	460.14	0	705.38	0	950.64	0	1,195.91	0	1,441.17	0	1,686.44	0	1,931.70	0	2,176.97
1/4	1.79	1/4	220.40	1/4	465.24	1/4	710.49	1/4	955.75	1/4	1,201.02	1/4	1,446.28	1/4	1,691.55	1/4	1,936.81	1/4	2,182.08
1/2	2.64	1/2	225.51	1/2	470.34	1/2	715.60	1/2	960.86	1/2	1,206.13	1/2	1,451.39	1/2	1,696.66	1/2	1,941.92	1/2	2,187.19
3/4	3.49	3/4	230.62	3/4	475.45	3/4	720.70	3/4	965.97	3/4	1,211.24	3/4	1,456.50	3/4	1,701.77	3/4	1,947.03	3/4	2,192.30
1	4.34	1	235.73	1	480.55	1	725.81	1	971.08	1	1,216.35	1	1,461.61	1	1,706.88	1	1,952.14	1	2,197.41
1/4	6.90	1/4	240.84	1/4	485.66	1/4	730.92	1/4	976.19	1/4	1,221.46	1/4	1,466.72	1/4	1,711.99	1/4	1,957.25	1/4	2,202.52
1/2	9.45	1/2	245.95	1/2	490.77	1/2	736.03	1/2	981.30	1/2	1,226.57	1/2	1,471.83	1/2	1,717.10	1/2	1,962.36	1/2	2,207.63
3/4	12.01	3/4	251.06	3/4	495.88	3/4	741.14	3/4	986.41	3/4	1,231.67	3/4	1,476.94	3/4	1,722.21	3/4	1,967.47	3/4	2,212.74
2	14.56	2	256.17	2	500.99	2	746.25	2	991.52	2	1,236.78	2	1,482.05	2	1,727.32	2	1,972.58	2	2,217.85
1/4	18.82	1/4	261.28	1/4	506.10	1/4	751.36	1/4	996.63	1/4	1,241.89	1/4	1,487.16	1/4	1,732.43	1/4	1,977.69	1/4	2,222.96
1/2	23.07	1/2	266.39	1/2	511.21	1/2	756.47	1/2	1,001.74	1/2	1,247.00	1/2	1,492.27	1/2	1,737.54	1/2	1,982.80	1/2	2,228.07
3/4	27.33	3/4	271.50	3/4	516.32	3/4	761.58	3/4	1,006.85	3/4	1,252.11	3/4	1,497.38	3/4	1,742.64	3/4	1,987.91	3/4	2,233.18
3	31.58	3	276.61	3	521.43	3	766.69	3	1,011.96	3	1,257.22	3	1,502.49	3	1,747.75	3	1,993.02	3	2,238.29
1/4	36.65	1/4	281.71	1/4	526.54	1/4	771.80	1/4	1,017.07	1/4	1,262.33	1/4	1,507.60	1/4	1,752.86	1/4	1,998.13	1/4	2,243.40
1/2	41.71	1/2	286.80	1/2	531.65	1/2	776.91	1/2	1,022.18	1/2	1,267.44	1/2	1,512.71	1/2	1,757.97	1/2	2,003.24	1/2	2,248.50
3/4	46.78	3/4	291.90	3/4	536.76	3/4	782.02	3/4	1,027.29	3/4	1,272.55	3/4	1,517.82	3/4	1,763.08	3/4	2,008.35	3/4	2,253.61
4	51.84	4	297.00	4	541.87	4	787.13	4	1,032.40	4	1,277.66	4	1,522.93	4	1,768.19	4	2,013.46	4	2,258.72
1/4	56.94	1/4	302.10	1/4	546.97	1/4	792.24	1/4	1,037.51	1/4	1,282.77	1/4	1,528.04	1/4	1,773.30	1/4	2,018.57	1/4	2,263.83
1/2	62.04	1/2	307.19	1/2	552.08	1/2	797.35	1/2	1,042.62	1/2	1,287.88	1/2	1,533.15	1/2	1,778.41	1/2	2,023.68	1/2	2,268.94
3/4	67.13	3/4	312.29	3/4	557.19	3/4	802.46	3/4	1,047.73	3/4	1,292.99	3/4	1,538.26	3/4	1,783.52	3/4	2,028.79	3/4	2,274.05
5	72.23	5	317.39	5	562.30	5	807.57	5	1,052.84	5	1,298.10	5	1,543.37	5	1,788.63	5	2,033.90	5	2,279.16
1/4	77.34	1/4	322.49	1/4	567.41	1/4	812.68	1/4	1,057.94	1/4	1,303.21	1/4	1,548.48	1/4	1,793.74	1/4	2,039.01	1/4	2,284.27
1/2	82.45	1/2	327.58	1/2	572.52	1/2	817.79	1/2	1,063.05	1/2	1,308.32	1/2	1,553.59	1/2	1,798.85	1/2	2,044.12	1/2	2,289.38
3/4	87.56	3/4	332.68	3/4	577.63	3/4	822.90	3/4	1,068.16	3/4	1,313.43	3/4	1,558.70	3/4	1,803.96	3/4	2,049.23	3/4	2,294.49
6	92.66	6	337.78	6	582.74	6	828.01	6	1,073.27	6	1,318.54	6	1,563.81	6	1,809.07	6	2,054.34	6	2,299.60
1/4	97.77	1/4	342.88	1/4	587.85	1/4	833.12	1/4	1,078.38	1/4	1,323.65	1/4	1,568.91	1/4	1,814.18	1/4	2,059.45	1/4	2,304.71
1/2	102.88	1/2	347.97	1/2	592.96	1/2	838.23	1/2	1,083.49	1/2	1,328.76	1/2	1,574.02	1/2	1,819.29	1/2	2,064.56	1/2	2,309.82
3/4	107.99	3/4	353.07	3/4	598.07	3/4	843.34	3/4	1,088.60	3/4	1,333.87	3/4	1,579.13	3/4	1,824.40	3/4	2,069.67	3/4	2,314.93
7	113.10	7	358.17	7	603.18	7	848.45	7	1,093.71	7	1,338.98	7	1,584.24	7	1,829.51	7	2,074.78	7	2,320.04
1/4	118.21	1/4	363.27	1/4	608.29	1/4	853.56	1/4	1,098.82	1/4	1,344.09	1/4	1,589.35	1/4	1,834.62	1/4	2,079.88	1/4	2,325.15
1/2	123.32	1/2	368.36	1/2	613.40	1/2	858.67	1/2	1,103.93	1/2	1,349.20	1/2	1,594.46	1/2	1,839.73	1/2	2,084.99	1/2	2,330.26
3/4	128.43	3/4	373.46	3/4	618.51	3/4	863.78	3/4	1,109.04	3/4	1,354.31	3/4	1,599.57	3/4	1,844.84	3/4	2,090.10	3/4	2,335.37
8	133.54	8	378.56	8	623.62	8	868.89	8	1,114.15	8	1,359.42	8	1,604.68	8	1,849.95	8	2,095.21	8	2,340.48
1/4	138.65	1/4	383.66	1/4	628.73	1/4	874.00	1/4	1,119.26	1/4	1,364.53	1/4	1,609.79	1/4	1,855.06	1/4	2,100.32	1/4	2,345.59
1/2	143.76	1/2	388.75	1/2	633.84	1/2	879.11	1/2	1,124.37	1/2	1,369.64	1/2	1,614.90	1/2	1,860.17	1/2	2,105.43	1/2	2,350.70
3/4	148.87	3/4	393.85	3/4	638.95	3/4	884.22	3/4	1,129.48	3/4	1,374.75	3/4	1,620.01	3/4	1,865.28	3/4	2,110.54	3/4	2,355.81
9	153.98	9	398.95	9	644.06	9	889.32	9	1,134.59	9	1,379.86	9	1,625.12	9	1,870.39	9	2,115.65	9	2,360.92
1/4	159.09	1/4	404.05	1/4	649.17	1/4	894.43	1/4	1,139.70	1/4	1,384.97	1/4	1,630.23	1/4	1,875.50	1/4	2,120.76	1/4	2,366.03
1/2	164.20	1/2	409.14	1/2	654.28	1/2	899.54	1/2	1,144.81	1/2	1,390.08	1/2	1,635.34	1/2	1,880.61	1/2	2,125.87	1/2	2,371.14
3/4	169.31	3/4	414.24	3/4	659.39	3/4	904.65	3/4	1,149.92	3/4	1,395.19	3/4	1,640.45	3/4	1,885.72	3/4	2,130.98	3/4	2,376.25
10	174.42	10	419.34	10	664.50	10	909.76	10	1,155.03	10	1,400.29	10	1,645.56	10	1,890.83	10	2,136.09	10	2,381.36
1/4	179.53	1/4	424.44	1/4	669.61	1/4	914.87	1/4	1,160.14	1/4	1,405.40	1/4	1,650.67	1/4	1,895.94	1/4	2,141.20	1/4	2,386.47
1/2	184.64	1/2	429.53	1/2	674.72	1/2	919.98	1/2	1,165.25	1/2	1,410.51	1/2	1,655.78	1/2	1,901.05	1/2	2,146.31	1/2	2,391.58
3/4	189.75	3/4	434.63	3/4	679.83	3/4	925.09	3/4	1,170.36	3/4	1,415.62	3/4	1,660.89	3/4	1,906.16	3/4	2,151.42	3/4	2,396.69
11	194.86	11	439.73	11	684.94	11	930.20	11	1,175.47	11	1,420.73	11	1,666.00	11	1,911.26	11	2,156.53	11	2,401.80
1/4	199.96	1/4	444.83	1/4	690.05	1/4	935.31	1/4	1,180.58	1/4	1,425.84	1/4	1,671.11	1/4	1,916.37	1/4	2,161.64	1/4	2,406.91
1/2	205.07	1/2	449.93	1/2	695.16	1/2	940.42	1/2	1,185.69	1/2	1,430.95	1/2	1,676.22	1/2	1,921.48	1/2	2,166.75	1/2	2,412.02
3/4	210.18	3/4	455.04	3/4	700.27	3/4	945.53	3/4	1,190.80	3/4	1,436.06	3/4	1,681.33	3/4	1,926.59	3/4	2,171.86	3/4	2,417.13

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: (HERMETIC) 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 212"

3 CENTER INNAGE 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	2,422.23	0	2,667.50	0	2,912.77	0	3,158.03	0	3,403.30	0		0		0		0		0	
1/4	2,427.34	1/4	2,672.61	1/4	2,917.88	1/4	3,163.14	1/4	3,408.41	1/4		1/4		1/4		1/4		1/4	
1/2	2,432.45	1/2	2,677.72	1/2	2,922.99	1/2	3,168.25	1/2	3,413.52	1/2		1/2		1/2		1/2		1/2	
3/4	2,437.56	3/4	2,682.83	3/4	2,928.10	3/4	3,173.36	3/4	3,418.63	3/4		3/4		3/4		3/4		3/4	
1	2,442.67	1	2,687.94	1	2,933.20	1	3,178.47	1	3,423.74	1		1		1		1		1	
1/4	2,447.78	1/4	2,693.05	1/4	2,938.31	1/4	3,183.58	1/4	3,428.85	1/4		1/4		1/4		1/4		1/4	
1/2	2,452.89	1/2	2,698.16	1/2	2,943.42	1/2	3,188.69	1/2	3,433.96	1/2		1/2		1/2		1/2		1/2	
3/4	2,458.00	3/4	2,703.27	3/4	2,948.53	3/4	3,193.80	3/4	3,439.07	3/4		3/4		3/4		3/4		3/4	
2	2,463.11	2	2,708.38	2	2,953.64	2	3,198.91	2	3,444.17	2		2		2		2		2	
1/4	2,468.22	1/4	2,713.49	1/4	2,958.75	1/4	3,204.02	1/4	3,449.28	1/4		1/4		1/4		1/4		1/4	
1/2	2,473.33	1/2	2,718.60	1/2	2,963.86	1/2	3,209.13	1/2	3,454.39	1/2		1/2		1/2		1/2		1/2	
3/4	2,478.44	3/4	2,723.71	3/4	2,968.97	3/4	3,214.24	3/4	3,459.50	3/4		3/4		3/4		3/4		3/4	
3	2,483.55	3	2,728.82	3	2,974.08	3	3,219.35	3	3,464.61	3		3		3		3		3	
1/4	2,488.66	1/4	2,733.93	1/4	2,979.19	1/4	3,224.46	1/4	3,469.72	1/4		1/4		1/4		1/4		1/4	
1/2	2,493.77	1/2	2,739.04	1/2	2,984.30	1/2	3,229.57	1/2	3,474.83	1/2		1/2		1/2		1/2		1/2	
3/4	2,498.88	3/4	2,744.15	3/4	2,989.41	3/4	3,234.68	3/4	3,479.94	3/4		3/4		3/4		3/4		3/4	
4	2,503.99	4	2,749.26	4	2,994.52	4	3,239.79	4	3,485.05	4		4		4		4		4	
1/4	2,509.10	1/4	2,754.37	1/4	2,999.63	1/4	3,244.90	1/4	3,490.16	1/4		1/4		1/4		1/4		1/4	
1/2	2,514.21	1/2	2,759.47	1/2	3,004.74	1/2	3,250.01	1/2	3,495.26	1/2		1/2		1/2		1/2		1/2	
3/4	2,519.32	3/4	2,764.58	3/4	3,009.85	3/4	3,255.12	3/4	3,500.37	3/4		3/4		3/4		3/4		3/4	
5	2,524.43	5	2,769.69	5	3,014.96	5	3,260.23	5	3,505.47	5		5		5		5		5	
1/4	2,529.54	1/4	2,774.80	1/4	3,020.07	1/4	3,265.34	1/4	3,509.73	1/4		1/4		1/4		1/4		1/4	
1/2	2,534.65	1/2	2,779.91	1/2	3,025.18	1/2	3,270.44	1/2	3,513.99	1/2		1/2		1/2		1/2		1/2	
3/4	2,539.76	3/4	2,785.02	3/4	3,030.29	3/4	3,275.55	3/4	3,518.24	3/4		3/4		3/4		3/4		3/4	
6	2,544.87	6	2,790.13	6	3,035.40	6	3,280.66	6	3,522.50	6		6		6		6		6	
1/4	2,549.98	1/4	2,795.24	1/4	3,040.51	1/4	3,285.77	1/4	3,525.06	1/4		1/4		1/4		1/4		1/4	
1/2	2,555.09	1/2	2,800.35	1/2	3,045.62	1/2	3,290.88	1/2	3,527.61	1/2		1/2		1/2		1/2		1/2	
3/4	2,560.20	3/4	2,805.46	3/4	3,050.73	3/4	3,295.99	3/4	3,530.17	3/4		3/4		3/4		3/4		3/4	
7	2,565.31	7	2,810.57	7	3,055.84	7	3,301.10	7	3,532.72	7		7		7		7		7	
1/4	2,570.42	1/4	2,815.68	1/4	3,060.95	1/4	3,306.21	1/4	3,533.57	1/4		1/4		1/4		1/4		1/4	
1/2	2,575.53	1/2	2,820.79	1/2	3,066.06	1/2	3,311.32	1/2	3,534.42	1/2		1/2		1/2		1/2		1/2	
3/4	2,580.64	3/4	2,825.90	3/4	3,071.17	3/4	3,316.43	3/4	3,535.27	3/4		3/4		3/4		3/4		3/4	
8	2,585.75	8	2,831.01	8	3,076.28	8	3,321.54	8	3,536.13	8		8		8		8		8	
1/4	2,590.85	1/4	2,836.12	1/4	3,081.39	1/4	3,326.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,595.96	1/2	2,841.23	1/2	3,086.50	1/2	3,331.76	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,601.07	3/4	2,846.34	3/4	3,091.61	3/4	3,336.87	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,606.18	9	2,851.45	9	3,096.72	9	3,341.98	9		9		9		9		9		9	
1/4	2,611.29	1/4	2,856.56	1/4	3,101.82	1/4	3,347.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,616.40	1/2	2,861.67	1/2	3,106.93	1/2	3,352.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,621.51	3/4	2,866.78	3/4	3,112.04	3/4	3,357.31	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,626.62	10	2,871.89	10	3,117.15	10	3,362.42	10		10		10		10		10		10	
1/4	2,631.73	1/4	2,877.00	1/4	3,122.26	1/4	3,367.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,636.84	1/2	2,882.11	1/2	3,127.37	1/2	3,372.64	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,641.95	3/4	2,887.22	3/4	3,132.48	3/4	3,377.75	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,647.06	11	2,892.33	11	3,137.59	11	3,382.86	11		11		11		11		11		11	
1/4	2,652.17	1/4	2,897.44	1/4	3,142.70	1/4	3,387.97	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,657.28	1/2	2,902.55	1/2	3,147.81	1/2	3,393.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,662.39	3/4	2,907.66	3/4	3,152.92	3/4	3,398.19	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/13/2020 JS
CALCULATED: 11/13/2020 CL
PRINTED: 11/13/2020 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2020

PRECISION MEASUREMENT
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