



BARGE "MMI 3034"

ULLAGE TRIM TABLE

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

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-1/4"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/4"

LENGTH BETWEEN DRAFT MARKS: 237'-00"

August 8, 2023

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MMI 3034"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 16'-11"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	5,137.91	0	4,774.66	0	4,400.46	0	4,025.58	0	3,650.70	0	3,275.82	0	2,900.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,130.48	1/4	4,766.93	1/4	4,392.65	1/4	4,017.77	1/4	3,642.89	1/4	3,268.01	1/4	2,893.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,123.06	1/2	4,759.19	1/2	4,384.84	1/2	4,009.96	1/2	3,635.08	1/2	3,260.20	1/2	2,885.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,115.63	3/4	4,751.46	3/4	4,377.03	3/4	4,002.15	3/4	3,627.27	3/4	3,252.39	3/4	2,877.51
1	1	1	1	1	1	1	5,108.20	1	4,743.72	1	4,369.22	1	3,994.34	1	3,619.46	1	3,243.58	1	2,869.70
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,100.73	1/4	4,735.95	1/4	4,361.41	1/4	3,986.53	1/4	3,611.65	1/4	3,236.77	1/4	2,861.89
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,093.27	1/2	4,728.18	1/2	4,353.60	1/2	3,978.72	1/2	3,603.84	1/2	3,228.96	1/2	2,854.08
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,085.80	3/4	4,720.40	3/4	4,345.79	3/4	3,970.91	3/4	3,596.03	3/4	3,221.15	3/4	2,846.27
2	2	2	2	2	2	2	5,078.33	2	4,712.63	2	4,337.98	2	3,963.10	2	3,588.22	2	3,213.34	2	2,838.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,070.87	1/4	4,704.86	1/4	4,330.17	1/4	3,955.29	1/4	3,580.41	1/4	3,205.53	1/4	2,830.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,063.40	1/2	4,697.09	1/2	4,322.36	1/2	3,947.49	1/2	3,572.60	1/2	3,197.72	1/2	2,822.84
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,055.94	3/4	4,689.31	3/4	4,314.55	3/4	3,939.68	3/4	3,564.79	3/4	3,189.91	3/4	2,815.03
3	3	3	3	3	3	3	5,048.47	3	4,681.54	3	4,306.74	3	3,931.88	3	3,556.98	3	3,182.10	3	2,807.22
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,040.97	1/4	4,673.75	1/4	4,298.93	1/4	3,924.06	1/4	3,549.17	1/4	3,174.29	1/4	2,799.41
1/2	1/2	1/2	1/2	1/2	5,300.99	1/2	5,033.46	1/2	4,665.96	1/2	4,291.12	1/2	3,916.25	1/2	3,541.36	1/2	3,166.48	1/2	2,791.60
3/4	3/4	3/4	3/4	3/4	5,300.93	3/4	5,025.96	3/4	4,658.17	3/4	4,283.31	3/4	3,908.43	3/4	3,533.55	3/4	3,158.67	3/4	2,783.79
4	4	4	4	4	5,300.86	4	5,018.45	4	4,650.38	4	4,275.50	4	3,900.62	4	3,525.74	4	3,150.86	4	2,775.98
1/4	1/4	1/4	1/4	1/4	5,300.02	1/4	5,010.91	1/4	4,642.57	1/4	4,267.69	1/4	3,892.81	1/4	3,517.93	1/4	3,143.05	1/4	2,768.17
1/2	1/2	1/2	1/2	1/2	5,299.18	1/2	5,003.37	1/2	4,634.76	1/2	4,259.88	1/2	3,885.00	1/2	3,510.12	1/2	3,135.24	1/2	2,760.36
3/4	3/4	3/4	3/4	3/4	5,298.34	3/4	4,995.82	3/4	4,626.95	3/4	4,252.07	3/4	3,877.19	3/4	3,502.31	3/4	3,127.43	3/4	2,752.55
5	5	5	5	5	5,297.50	5	4,988.28	5	4,619.14	5	4,244.26	5	3,869.38	5	3,494.50	5	3,119.62	5	2,744.74
1/4	1/4	1/4	1/4	1/4	5,295.24	1/4	4,980.74	1/4	4,611.33	1/4	4,236.45	1/4	3,861.57	1/4	3,486.69	1/4	3,111.81	1/4	2,736.93
1/2	1/2	1/2	1/2	1/2	5,292.98	1/2	4,973.20	1/2	4,603.52	1/2	4,228.64	1/2	3,853.76	1/2	3,478.88	1/2	3,104.00	1/2	2,729.12
3/4	3/4	3/4	3/4	3/4	5,290.71	3/4	4,965.66	3/4	4,595.71	3/4	4,220.83	3/4	3,845.95	3/4	3,471.07	3/4	3,096.19	3/4	2,721.31
6	6	6	6	6	5,288.45	6	4,958.12	6	4,587.90	6	4,213.02	6	3,838.14	6	3,463.26	6	3,088.38	6	2,713.50
1/4	1/4	1/4	1/4	1/4	5,284.73	1/4	4,950.54	1/4	4,580.10	1/4	4,205.20	1/4	3,830.33	1/4	3,455.45	1/4	3,080.57	1/4	2,705.69
1/2	1/2	1/2	1/2	1/2	5,281.01	1/2	4,942.96	1/2	4,572.29	1/2	4,197.39	1/2	3,822.52	1/2	3,447.64	1/2	3,072.76	1/2	2,697.88
3/4	3/4	3/4	3/4	3/4	5,277.28	3/4	4,935.38	3/4	4,564.49	3/4	4,189.57	3/4	3,814.71	3/4	3,439.83	3/4	3,064.95	3/4	2,690.07
7	7	7	7	7	5,273.56	7	4,927.80	7	4,556.68	7	4,181.76	7	3,806.90	7	3,432.02	7	3,057.14	7	2,682.26
1/4	1/4	1/4	1/4	1/4	5,268.38	1/4	4,920.18	1/4	4,548.87	1/4	4,173.95	1/4	3,799.09	1/4	3,424.21	1/4	3,049.33	1/4	2,674.45
1/2	1/2	1/2	1/2	1/2	5,263.20	1/2	4,912.56	1/2	4,541.05	1/2	4,166.15	1/2	3,791.28	1/2	3,416.40	1/2	3,041.52	1/2	2,666.64
3/4	3/4	3/4	3/4	3/4	5,258.02	3/4	4,904.94	3/4	4,533.24	3/4	4,158.34	3/4	3,783.47	3/4	3,408.59	3/4	3,033.71	3/4	2,658.83
8	8	8	8	8	5,252.84	8	4,897.32	8	4,525.42	8	4,150.54	8	3,775.66	8	3,400.78	8	3,025.90	8	2,651.02
1/4	1/4	1/4	1/4	1/4	5,246.24	1/4	4,889.70	1/4	4,517.61	1/4	4,142.73	1/4	3,767.85	1/4	3,392.97	1/4	3,018.06	1/4	2,643.21
1/2	1/2	1/2	1/2	1/2	5,239.64	1/2	4,882.09	1/2	4,509.80	1/2	4,134.92	1/2	3,760.04	1/2	3,385.16	1/2	3,010.23	1/2	2,635.40
3/4	3/4	3/4	3/4	3/4	5,233.03	3/4	4,874.47	3/4	4,501.99	3/4	4,127.11	3/4	3,752.23	3/4	3,377.35	3/4	3,002.39	3/4	2,627.59
9	9	9	9	9	5,226.43	9	4,866.85	9	4,494.18	9	4,119.30	9	3,744.42	9	3,369.54	9	2,994.56	9	2,619.78
1/4	1/4	1/4	1/4	1/4	5,219.08	1/4	4,859.19	1/4	4,486.37	1/4	4,111.49	1/4	3,736.61	1/4	3,361.73	1/4	2,986.77	1/4	2,611.97
1/2	1/2	1/2	1/2	1/2	5,211.73	1/2	4,851.54	1/2	4,478.56	1/2	4,103.68	1/2	3,728.80	1/2	3,353.92	1/2	2,978.99	1/2	2,604.16
3/4	3/4	3/4	3/4	3/4	5,204.38	3/4	4,843.88	3/4	4,470.75	3/4	4,095.87	3/4	3,720.99	3/4	3,346.11	3/4	2,971.20	3/4	2,596.35
10	10	10	10	10	5,197.03	10	4,836.22	10	4,462.94	10	4,088.06	10	3,713.18	10	3,338.30	10	2,963.42	10	2,588.54
1/4	1/4	1/4	1/4	1/4	5,189.64	1/4	4,828.53	1/4	4,455.13	1/4	4,080.25	1/4	3,705.37	1/4	3,330.49	1/4	2,955.61	1/4	2,580.73
1/2	1/2	1/2	1/2	1/2	5,182.25	1/2	4,820.83	1/2	4,447.32	1/2	4,072.44	1/2	3,697.56	1/2	3,322.68	1/2	2,947.80	1/2	2,572.92
3/4	3/4	3/4	3/4	3/4	5,174.86	3/4	4,813.14	3/4	4,439.51	3/4	4,064.63	3/4	3,689.75	3/4	3,314.87	3/4	2,939.99	3/4	2,565.11
11	11	11	11	11	5,167.47	11	4,805.44	11	4,431.70	11	4,056.82	11	3,681.94	11	3,307.06	11	2,932.18	11	2,557.30
1/4	1/4	1/4	1/4	1/4	5,160.08	1/4	4,797.75	1/4	4,423.89	1/4	4,049.01	1/4	3,674.13	1/4	3,299.25	1/4	2,924.37	1/4	2,549.49
1/2	1/2	1/2	1/2	1/2	5,152.69	1/2	4,790.05	1/2	4,416.08	1/2	4,041.20	1/2	3,666.32	1/2	3,291.44	1/2	2,916.56	1/2	2,541.68
3/4	3/4	3/4	3/4	3/4	5,145.30	3/4	4,782.36	3/4	4,408.27	3/4	4,033.39	3/4	3,658.51	3/4	3,283.63	3/4	2,908.75	3/4	2,533.87

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 WITH "HERMETIC" GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-07" OFF CENTERLINE AND 46'-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 "MMI 3034"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 16'-11"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,526.06	0	2,151.18	0	1,776.30	0	1,401.42	0	1,026.85	0	652.72	0	286.05	0		0		0	
1/4	2,518.25	1/4	2,143.37	1/4	1,768.49	1/4	1,393.61	1/4	1,019.06	1/4	644.91	1/4	278.81	1/4	1/4	1/4		1/4	
1/2	2,510.44	1/2	2,135.56	1/2	1,760.68	1/2	1,385.80	1/2	1,011.28	1/2	637.10	1/2	271.58	1/2	1/2	1/2		1/2	
3/4	2,502.63	3/4	2,127.75	3/4	1,752.87	3/4	1,377.99	3/4	1,003.49	3/4	629.29	3/4	264.34	3/4	3/4	3/4		3/4	
1	2,494.82	1	2,119.94	1	1,745.06	1	1,370.18	1	995.70	1	621.48	1	257.10	1		1		1	
1/4	2,487.01	1/4	2,112.13	1/4	1,737.25	1/4	1,362.37	1/4	987.91	1/4	613.67	1/4	249.97	1/4	1/4	1/4		1/4	
1/2	2,479.20	1/2	2,104.32	1/2	1,729.44	1/2	1,354.56	1/2	980.12	1/2	605.86	1/2	242.84	1/2	1/2	1/2		1/2	
3/4	2,471.39	3/4	2,096.51	3/4	1,721.63	3/4	1,346.75	3/4	972.33	3/4	598.05	3/4	235.70	3/4	3/4	3/4		3/4	
2	2,463.58	2	2,088.70	2	1,713.82	2	1,338.94	2	964.54	2	590.24	2	228.57	2		2		2	
1/4	2,455.77	1/4	2,080.89	1/4	1,706.01	1/4	1,331.13	1/4	956.75	1/4	582.43	1/4	221.44	1/4	1/4	1/4		1/4	
1/2	2,447.96	1/2	2,073.08	1/2	1,698.20	1/2	1,323.32	1/2	948.97	1/2	574.62	1/2	214.31	1/2	1/2	1/2		1/2	
3/4	2,440.15	3/4	2,065.27	3/4	1,690.39	3/4	1,315.51	3/4	941.18	3/4	566.81	3/4	207.17	3/4	3/4	3/4		3/4	
3	2,432.34	3	2,057.46	3	1,682.58	3	1,307.70	3	933.39	3	559.00	3	200.04	3		3		3	
1/4	2,424.53	1/4	2,049.65	1/4	1,674.77	1/4	1,299.89	1/4	925.60	1/4	551.19	1/4	193.02	1/4	1/4	1/4		1/4	
1/2	2,416.72	1/2	2,041.84	1/2	1,666.96	1/2	1,292.08	1/2	917.82	1/2	543.38	1/2	185.99	1/2	1/2	1/2		1/2	
3/4	2,408.91	3/4	2,034.03	3/4	1,659.15	3/4	1,284.27	3/4	910.03	3/4	535.57	3/4	178.97	3/4	3/4	3/4		3/4	
4	2,401.10	4	2,026.22	4	1,651.34	4	1,276.46	4	902.24	4	527.76	4	171.94	4		4		4	
1/4	2,393.29	1/4	2,018.41	1/4	1,643.53	1/4	1,268.65	1/4	894.45	1/4	519.99	1/4	165.02	1/4	1/4	1/4		1/4	
1/2	2,385.48	1/2	2,010.60	1/2	1,635.72	1/2	1,260.84	1/2	886.67	1/2	512.21	1/2	158.11	1/2	1/2	1/2		1/2	
3/4	2,377.67	3/4	2,002.79	3/4	1,627.91	3/4	1,253.03	3/4	878.88	3/4	504.44	3/4	151.19	3/4	3/4	3/4		3/4	
5	2,369.86	5	1,994.98	5	1,620.10	5	1,245.22	5	871.09	5	496.66	5	144.27	5		5		5	
1/4	2,362.05	1/4	1,987.17	1/4	1,612.29	1/4	1,237.41	1/4	863.30	1/4	488.92	1/4	137.35	1/4	1/4	1/4		1/4	
1/2	2,354.24	1/2	1,979.36	1/2	1,604.48	1/2	1,229.60	1/2	855.52	1/2	481.19	1/2	130.44	1/2	1/2	1/2		1/2	
3/4	2,346.43	3/4	1,971.55	3/4	1,596.67	3/4	1,221.79	3/4	847.73	3/4	473.45	3/4	123.52	3/4	3/4	3/4		3/4	
6	2,338.62	6	1,963.74	6	1,588.86	6	1,213.98	6	839.94	6	465.71	6	116.60	6		6		6	
1/4	2,330.81	1/4	1,955.93	1/4	1,581.05	1/4	1,206.17	1/4	832.15	1/4	458.06	1/4	109.80	1/4	1/4	1/4		1/4	
1/2	2,323.00	1/2	1,948.12	1/2	1,573.24	1/2	1,198.36	1/2	824.36	1/2	450.41	1/2	103.00	1/2	1/2	1/2		1/2	
3/4	2,315.19	3/4	1,940.31	3/4	1,565.43	3/4	1,190.55	3/4	816.57	3/4	442.76	3/4	96.20	3/4	3/4	3/4		3/4	
7	2,307.38	7	1,932.50	7	1,557.62	7	1,182.74	7	808.78	7	435.11	7	89.40	7		7		7	
1/4	2,299.57	1/4	1,924.69	1/4	1,549.92	1/4	1,174.93	1/4	800.99	1/4	427.55	1/4	82.72	1/4	1/4	1/4		1/4	
1/2	2,291.76	1/2	1,916.88	1/2	1,542.21	1/2	1,167.12	1/2	793.21	1/2	419.99	1/2	76.04	1/2	1/2	1/2		1/2	
3/4	2,283.95	3/4	1,909.07	3/4	1,534.51	3/4	1,159.31	3/4	785.42	3/4	412.43	3/4	69.36	3/4	3/4	3/4		3/4	
8	2,276.14	8	1,901.26	8	1,526.80	8	1,151.50	8	777.63	8	404.87	8	62.68	8		8		8	
1/4	2,268.33	1/4	1,893.45	1/4	1,518.89	1/4	1,143.70	1/4	769.83	1/4	397.31	1/4	56.86	1/4	1/4	1/4		1/4	
1/2	2,260.52	1/2	1,885.64	1/2	1,510.97	1/2	1,135.90	1/2	762.04	1/2	389.75	1/2	51.03	1/2	1/2	1/2		1/2	
3/4	2,252.71	3/4	1,877.83	3/4	1,503.06	3/4	1,128.10	3/4	754.24	3/4	382.19	3/4	45.21	3/4	3/4	3/4		3/4	
9	2,244.90	9	1,870.02	9	1,495.14	9	1,120.30	9	746.44	9	374.63	9	39.38	9		9		9	
1/4	2,237.09	1/4	1,862.21	1/4	1,487.33	1/4	1,112.51	1/4	738.63	1/4	367.18	1/4	34.87	1/4	1/4	1/4		1/4	
1/2	2,229.28	1/2	1,854.40	1/2	1,479.52	1/2	1,104.73	1/2	730.82	1/2	359.73	1/2	30.35	1/2	1/2	1/2		1/2	
3/4	2,221.47	3/4	1,846.59	3/4	1,471.71	3/4	1,096.94	3/4	723.01	3/4	352.27	3/4	25.84	3/4	3/4	3/4		3/4	
10	2,213.66	10	1,838.78	10	1,463.90	10	1,089.15	10	715.20	10	344.82	10	21.32	10		10		10	
1/4	2,205.85	1/4	1,830.97	1/4	1,456.09	1/4	1,081.36	1/4	707.39	1/4	337.48	1/4	18.27	1/4	1/4	1/4		1/4	
1/2	2,198.04	1/2	1,823.16	1/2	1,448.28	1/2	1,073.58	1/2	699.58	1/2	330.13	1/2	15.22	1/2	1/2	1/2		1/2	
3/4	2,190.23	3/4	1,815.35	3/4	1,440.47	3/4	1,065.79	3/4	691.77	3/4	322.79	3/4	12.17	3/4	3/4	3/4		3/4	
11	2,182.42	11	1,807.54	11	1,432.66	11	1,058.00	11	683.96	11	315.44	11	9.12	11		11		11	
1/4	2,174.61	1/4	1,799.73	1/4	1,424.85	1/4	1,050.21	1/4	676.15	1/4	308.09	1/4		1/4	1/4	1/4		1/4	
1/2	2,166.80	1/2	1,791.92	1/2	1,417.04	1/2	1,042.43	1/2	668.34	1/2	300.75	1/2		1/2	1/2	1/2		1/2	
3/4	2,158.99	3/4	1,784.11	3/4	1,409.23	3/4	1,034.64	3/4	660.53	3/4	293.40	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/11/2003 INS
CALCULATED: 08/08/2023 JS
VERIFIED: 08/08/2023 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2023



BARGE "MMI 3034"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 16'-11 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	5,152.69	0	4,790.05	0	4,416.08	0	4,041.20	0	3,666.32	0	3,291.44	0	2,916.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,145.30	1/4	4,782.36	1/4	4,408.27	1/4	4,033.39	1/4	3,658.51	1/4	3,283.63	1/4	2,908.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,137.91	1/2	4,774.66	1/2	4,400.46	1/2	4,025.58	1/2	3,650.70	1/2	3,275.82	1/2	2,900.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,130.48	3/4	4,766.93	3/4	4,392.65	3/4	4,017.77	3/4	3,642.89	3/4	3,268.01	3/4	2,893.13
1		1		1		1	5,123.06	1	4,759.19	1	4,384.84	1	4,009.96	1	3,635.08	1	3,260.20	1	2,885.32
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,115.63	1/4	4,751.46	1/4	4,377.03	1/4	4,002.15	1/4	3,627.27	1/4	3,252.39	1/4	2,877.51
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,108.20	1/2	4,743.72	1/2	4,369.22	1/2	3,994.34	1/2	3,619.46	1/2	3,244.58	1/2	2,869.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,100.73	3/4	4,735.95	3/4	4,361.41	3/4	3,986.53	3/4	3,611.65	3/4	3,236.77	3/4	2,861.89
2		2		2		2	5,093.27	2	4,728.18	2	4,353.60	2	3,978.72	2	3,603.84	2	3,228.96	2	2,854.08
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,085.80	1/4	4,720.40	1/4	4,345.79	1/4	3,970.91	1/4	3,596.03	1/4	3,221.15	1/4	2,846.27
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,078.33	1/2	4,712.63	1/2	4,337.98	1/2	3,963.10	1/2	3,588.22	1/2	3,213.34	1/2	2,838.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,070.87	3/4	4,704.86	3/4	4,330.17	3/4	3,955.29	3/4	3,580.41	3/4	3,205.53	3/4	2,830.65
3		3		3		3	5,063.40	3	4,697.09	3	4,322.36	3	3,947.49	3	3,572.60	3	3,197.72	3	2,822.84
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,055.94	1/4	4,689.31	1/4	4,314.55	1/4	3,939.68	1/4	3,564.79	1/4	3,189.91	1/4	2,815.03
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,048.47	1/2	4,681.54	1/2	4,306.74	1/2	3,931.88	1/2	3,556.98	1/2	3,182.10	1/2	2,807.22
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,040.97	3/4	4,673.75	3/4	4,298.93	3/4	3,924.06	3/4	3,549.17	3/4	3,174.29	3/4	2,799.41
4		4	5,300.99	4	5,033.46	4	4,665.96	4	4,291.12	4	3,916.25	4	3,541.36	4	3,166.48	4	2,791.60		
1/4	1/4	1/4	5,300.93	1/4	5,025.96	1/4	4,658.17	1/4	4,283.31	1/4	3,908.43	1/4	3,533.55	1/4	3,158.67	1/4	2,783.79		
1/2	1/2	1/2	5,300.86	1/2	5,018.45	1/2	4,650.38	1/2	4,275.50	1/2	3,900.62	1/2	3,525.74	1/2	3,150.86	1/2	2,775.98		
3/4	3/4	3/4	5,300.02	3/4	5,010.91	3/4	4,642.57	3/4	4,267.69	3/4	3,892.81	3/4	3,517.93	3/4	3,143.05	3/4	2,768.17		
5		5	5,299.18	5	5,003.37	5	4,634.76	5	4,259.88	5	3,885.00	5	3,510.12	5	3,135.24	5	2,760.36		
1/4	1/4	1/4	5,298.34	1/4	4,995.82	1/4	4,626.95	1/4	4,252.07	1/4	3,877.19	1/4	3,502.31	1/4	3,127.43	1/4	2,752.55		
1/2	1/2	1/2	5,297.50	1/2	4,988.28	1/2	4,619.14	1/2	4,244.26	1/2	3,869.38	1/2	3,494.50	1/2	3,119.62	1/2	2,744.74		
3/4	3/4	3/4	5,295.24	3/4	4,980.74	3/4	4,611.33	3/4	4,236.45	3/4	3,861.57	3/4	3,486.69	3/4	3,111.81	3/4	2,736.93		
6		6	5,292.98	6	4,973.20	6	4,603.52	6	4,228.64	6	3,853.76	6	3,478.88	6	3,104.00	6	2,729.12		
1/4	1/4	1/4	5,290.71	1/4	4,965.66	1/4	4,595.71	1/4	4,220.83	1/4	3,845.95	1/4	3,471.07	1/4	3,096.19	1/4	2,721.31		
1/2	1/2	1/2	5,288.45	1/2	4,958.12	1/2	4,587.90	1/2	4,213.02	1/2	3,838.14	1/2	3,463.26	1/2	3,088.38	1/2	2,713.50		
3/4	3/4	3/4	5,284.73	3/4	4,950.54	3/4	4,580.10	3/4	4,205.20	3/4	3,830.33	3/4	3,455.45	3/4	3,080.57	3/4	2,705.69		
7		7	5,281.01	7	4,942.96	7	4,572.29	7	4,197.39	7	3,822.52	7	3,447.64	7	3,072.76	7	2,697.88		
1/4	1/4	1/4	5,277.28	1/4	4,935.38	1/4	4,564.49	1/4	4,189.57	1/4	3,814.71	1/4	3,439.83	1/4	3,064.95	1/4	2,690.07		
1/2	1/2	1/2	5,273.56	1/2	4,927.80	1/2	4,556.68	1/2	4,181.76	1/2	3,806.90	1/2	3,432.02	1/2	3,057.14	1/2	2,682.26		
3/4	3/4	3/4	5,268.38	3/4	4,920.18	3/4	4,548.87	3/4	4,173.95	3/4	3,799.09	3/4	3,424.21	3/4	3,049.33	3/4	2,674.45		
8		8	5,263.20	8	4,912.56	8	4,541.05	8	4,166.15	8	3,791.28	8	3,416.40	8	3,041.52	8	2,666.64		
1/4	1/4	1/4	5,258.02	1/4	4,904.94	1/4	4,533.24	1/4	4,158.34	1/4	3,783.47	1/4	3,408.59	1/4	3,033.71	1/4	2,658.83		
1/2	1/2	1/2	5,252.84	1/2	4,897.32	1/2	4,525.42	1/2	4,150.54	1/2	3,775.66	1/2	3,400.78	1/2	3,025.90	1/2	2,651.02		
3/4	3/4	3/4	5,246.24	3/4	4,889.70	3/4	4,517.61	3/4	4,142.73	3/4	3,767.85	3/4	3,392.97	3/4	3,018.06	3/4	2,643.21		
9		9	5,239.64	9	4,882.09	9	4,509.80	9	4,134.92	9	3,760.04	9	3,385.16	9	3,010.23	9	2,635.40		
1/4	1/4	1/4	5,233.03	1/4	4,874.47	1/4	4,501.99	1/4	4,127.11	1/4	3,752.23	1/4	3,377.35	1/4	3,002.39	1/4	2,627.59		
1/2	1/2	1/2	5,226.43	1/2	4,866.85	1/2	4,494.18	1/2	4,119.30	1/2	3,744.42	1/2	3,369.54	1/2	2,994.56	1/2	2,619.78		
3/4	3/4	3/4	5,219.08	3/4	4,859.19	3/4	4,486.37	3/4	4,111.49	3/4	3,736.61	3/4	3,361.73	3/4	2,986.77	3/4	2,611.97		
10		10	5,211.73	10	4,851.54	10	4,478.56	10	4,103.68	10	3,728.80	10	3,353.92	10	2,978.99	10	2,604.16		
1/4	1/4	1/4	5,204.38	1/4	4,843.88	1/4	4,470.75	1/4	4,095.87	1/4	3,720.99	1/4	3,346.11	1/4	2,971.20	1/4	2,596.35		
1/2	1/2	1/2	5,197.03	1/2	4,836.22	1/2	4,462.94	1/2	4,088.06	1/2	3,713.18	1/2	3,338.30	1/2	2,963.42	1/2	2,588.54		
3/4	3/4	3/4	5,189.64	3/4	4,828.53	3/4	4,455.13	3/4	4,080.25	3/4	3,705.37	3/4	3,330.49	3/4	2,955.61	3/4	2,580.73		
11		11	5,182.25	11	4,820.83	11	4,447.32	11	4,072.44	11	3,697.56	11	3,322.68	11	2,947.80	11	2,572.92		
1/4	1/4	1/4	5,174.86	1/4	4,813.14	1/4	4,439.51	1/4	4,064.63	1/4	3,689.75	1/4	3,314.87	1/4	2,939.99	1/4	2,565.11		
1/2	1/2	1/2	5,167.47	1/2	4,805.44	1/2	4,431.70	1/2	4,056.82	1/2	3,681.94	1/2	3,307.06	1/2	2,932.18	1/2	2,557.30		
3/4	3/4	3/4	5,160.08	3/4	4,797.75	3/4	4,423.89	3/4	4,049.01	3/4	3,674.13	3/4	3,299.25	3/4	2,924.37	3/4	2,549.49		

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 WITH "HERMETIC" GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-07" OFF CENTERLINE AND 46'-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 "MMI 3034"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 16'-11 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,541.68	0	2,166.80	0	1,791.92	0	1,417.04	0	1,042.43	0	668.34	0	300.75	0		0		0	
1/4	2,533.87	1/4	2,158.99	1/4	1,784.11	1/4	1,409.23	1/4	1,034.64	1/4	660.53	1/4	293.40	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,526.06	1/2	2,151.18	1/2	1,776.30	1/2	1,401.42	1/2	1,026.85	1/2	652.72	1/2	286.05	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,518.25	3/4	2,143.37	3/4	1,768.49	3/4	1,393.61	3/4	1,019.06	3/4	644.91	3/4	278.81	3/4	3/4	3/4	3/4	3/4	3/4
1	2,510.44	1	2,135.56	1	1,760.68	1	1,385.80	1	1,011.28	1	637.10	1	271.58	1	1	1	1	1	1
1/4	2,502.63	1/4	2,127.75	1/4	1,752.87	1/4	1,377.99	1/4	1,003.49	1/4	629.29	1/4	264.34	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,494.82	1/2	2,119.94	1/2	1,745.06	1/2	1,370.18	1/2	995.70	1/2	621.48	1/2	257.10	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,487.01	3/4	2,112.13	3/4	1,737.25	3/4	1,362.37	3/4	987.91	3/4	613.67	3/4	249.97	3/4	3/4	3/4	3/4	3/4	3/4
2	2,479.20	2	2,104.32	2	1,729.44	2	1,354.56	2	980.12	2	605.86	2	242.84	2	2	2	2	2	2
1/4	2,471.39	1/4	2,096.51	1/4	1,721.63	1/4	1,346.75	1/4	972.33	1/4	598.05	1/4	235.70	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,463.58	1/2	2,088.70	1/2	1,713.82	1/2	1,338.94	1/2	964.54	1/2	590.24	1/2	228.57	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,455.77	3/4	2,080.89	3/4	1,706.01	3/4	1,331.13	3/4	956.75	3/4	582.43	3/4	221.44	3/4	3/4	3/4	3/4	3/4	3/4
3	2,447.96	3	2,073.08	3	1,698.20	3	1,323.32	3	948.97	3	574.62	3	214.31	3	3	3	3	3	3
1/4	2,440.15	1/4	2,065.27	1/4	1,690.39	1/4	1,315.51	1/4	941.18	1/4	566.81	1/4	207.17	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,432.34	1/2	2,057.46	1/2	1,682.58	1/2	1,307.70	1/2	933.39	1/2	559.00	1/2	200.04	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,424.53	3/4	2,049.65	3/4	1,674.77	3/4	1,299.89	3/4	925.60	3/4	551.19	3/4	193.02	3/4	3/4	3/4	3/4	3/4	3/4
4	2,416.72	4	2,041.84	4	1,666.96	4	1,292.08	4	917.82	4	543.38	4	185.99	4	4	4	4	4	4
1/4	2,408.91	1/4	2,034.03	1/4	1,659.15	1/4	1,284.27	1/4	910.03	1/4	535.57	1/4	178.97	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,401.10	1/2	2,026.22	1/2	1,651.34	1/2	1,276.46	1/2	902.24	1/2	527.76	1/2	171.94	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,393.29	3/4	2,018.41	3/4	1,643.53	3/4	1,268.65	3/4	894.45	3/4	519.99	3/4	165.02	3/4	3/4	3/4	3/4	3/4	3/4
5	2,385.48	5	2,010.60	5	1,635.72	5	1,260.84	5	886.67	5	512.21	5	158.11	5	5	5	5	5	5
1/4	2,377.67	1/4	2,002.79	1/4	1,627.91	1/4	1,253.03	1/4	878.88	1/4	504.44	1/4	151.19	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,369.86	1/2	1,994.98	1/2	1,620.10	1/2	1,245.22	1/2	871.09	1/2	496.66	1/2	144.27	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,362.05	3/4	1,987.17	3/4	1,612.29	3/4	1,237.41	3/4	863.30	3/4	488.92	3/4	137.35	3/4	3/4	3/4	3/4	3/4	3/4
6	2,354.24	6	1,979.36	6	1,604.48	6	1,229.60	6	855.52	6	481.19	6	130.44	6	6	6	6	6	6
1/4	2,346.43	1/4	1,971.55	1/4	1,596.67	1/4	1,221.79	1/4	847.73	1/4	473.45	1/4	123.52	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,338.62	1/2	1,963.74	1/2	1,588.86	1/2	1,213.98	1/2	839.94	1/2	465.71	1/2	116.60	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,330.81	3/4	1,955.93	3/4	1,581.05	3/4	1,206.17	3/4	832.15	3/4	458.06	3/4	109.80	3/4	3/4	3/4	3/4	3/4	3/4
7	2,323.00	7	1,948.12	7	1,573.24	7	1,198.36	7	824.36	7	450.41	7	103.00	7	7	7	7	7	7
1/4	2,315.19	1/4	1,940.31	1/4	1,565.43	1/4	1,190.55	1/4	816.57	1/4	442.76	1/4	96.20	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,307.38	1/2	1,932.50	1/2	1,557.62	1/2	1,182.74	1/2	808.78	1/2	435.11	1/2	89.40	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,299.57	3/4	1,924.69	3/4	1,549.82	3/4	1,174.93	3/4	800.99	3/4	427.55	3/4	82.72	3/4	3/4	3/4	3/4	3/4	3/4
8	2,291.76	8	1,916.88	8	1,542.21	8	1,167.12	8	793.21	8	419.99	8	76.04	8	8	8	8	8	8
1/4	2,283.95	1/4	1,909.07	1/4	1,534.51	1/4	1,159.31	1/4	785.42	1/4	412.43	1/4	69.36	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,276.14	1/2	1,901.26	1/2	1,526.80	1/2	1,151.50	1/2	777.63	1/2	404.87	1/2	62.68	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,268.33	3/4	1,893.45	3/4	1,518.89	3/4	1,143.70	3/4	769.83	3/4	397.31	3/4	56.86	3/4	3/4	3/4	3/4	3/4	3/4
9	2,260.52	9	1,885.64	9	1,510.97	9	1,135.90	9	762.04	9	389.75	9	51.03	9	9	9	9	9	9
1/4	2,252.71	1/4	1,877.83	1/4	1,503.06	1/4	1,128.10	1/4	754.24	1/4	382.19	1/4	45.21	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,244.90	1/2	1,870.02	1/2	1,495.14	1/2	1,120.30	1/2	746.44	1/2	374.63	1/2	39.38	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,237.09	3/4	1,862.21	3/4	1,487.33	3/4	1,112.51	3/4	738.63	3/4	367.18	3/4	34.87	3/4	3/4	3/4	3/4	3/4	3/4
10	2,229.28	10	1,854.40	10	1,479.52	10	1,104.73	10	730.82	10	359.73	10	30.35	10	10	10	10	10	10
1/4	2,221.47	1/4	1,846.59	1/4	1,471.71	1/4	1,096.94	1/4	723.01	1/4	352.27	1/4	25.84	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,213.66	1/2	1,838.78	1/2	1,463.90	1/2	1,089.15	1/2	715.20	1/2	344.82	1/2	21.32	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,205.85	3/4	1,830.97	3/4	1,456.09	3/4	1,081.36	3/4	707.39	3/4	337.48	3/4	18.27	3/4	3/4	3/4	3/4	3/4	3/4
11	2,198.04	11	1,823.16	11	1,448.28	11	1,073.58	11	699.58	11	330.13	11	15.22	11	11	11	11	11	11
1/4	2,190.23	1/4	1,815.35	1/4	1,440.47	1/4	1,065.79	1/4	691.77	1/4	322.79	1/4	12.17	1/4	1/4	1/4	1/4	1/4	1/4
1/2	2,182.42	1/2	1,807.54	1/2	1,432.66	1/2	1,058.00	1/2	683.96	1/2	315.44	1/2	9.12	1/2	1/2	1/2	1/2	1/2	1/2
3/4	2,174.61	3/4	1,799.73	3/4	1,424.85	3/4	1,050.21	3/4	676.15	3/4	308.09	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/11/2003 INS
CALCULATED: 08/08/2023 JS
VERIFIED: 08/08/2023 JS

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2023

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.dmacorp.net>





BARGE "MMI 3034"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 17'-00"

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		0	5,017.01	0	4,668.80	0	4,308.89	0	3,947.93	0	3,586.97	0	3,226.01	0	2,865.05		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,009.91	1/4	4,661.39	1/4	4,301.37	1/4	3,940.41	1/4	3,579.45	1/4	3,218.49	1/4	2,857.53		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,002.81	1/2	4,653.99	1/2	4,293.85	1/2	3,932.89	1/2	3,571.93	1/2	3,210.97	1/2	2,850.01		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,995.70	3/4	4,646.58	3/4	4,286.33	3/4	3,925.37	3/4	3,564.41	3/4	3,203.45	3/4	2,842.49		
1		1		1		1	4,988.60	1	4,639.17	1	4,278.81	1	3,917.85	1	3,556.89	1	3,195.93	1	2,834.97		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,981.46	1/4	4,631.73	1/4	4,271.29	1/4	3,910.33	1/4	3,549.37	1/4	3,188.41	1/4	2,827.45		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,974.32	1/2	4,624.28	1/2	4,263.77	1/2	3,902.81	1/2	3,541.85	1/2	3,180.89	1/2	2,819.93		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,967.18	3/4	4,616.84	3/4	4,256.25	3/4	3,895.29	3/4	3,534.33	3/4	3,173.37	3/4	2,812.41		
2		2		2		2	4,960.04	2	4,609.39	2	4,248.73	2	3,887.77	2	3,526.81	2	3,165.85	2	2,804.89		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,952.86	1/4	4,601.91	1/4	4,241.21	1/4	3,880.25	1/4	3,519.29	1/4	3,158.33	1/4	2,797.37		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,945.69	1/2	4,594.42	1/2	4,233.69	1/2	3,872.73	1/2	3,511.77	1/2	3,150.81	1/2	2,789.85		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,938.51	3/4	4,586.94	3/4	4,226.17	3/4	3,865.21	3/4	3,504.25	3/4	3,143.29	3/4	2,782.33		
3		3		3		3	4,931.33	3	4,579.45	3	4,218.65	3	3,857.69	3	3,496.73	3	3,135.77	3	2,774.81		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,924.15	1/4	4,571.97	1/4	4,211.13	1/4	3,850.17	1/4	3,489.21	1/4	3,128.25	1/4	2,767.29		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,916.98	1/2	4,564.49	1/2	4,203.61	1/2	3,842.65	1/2	3,481.69	1/2	3,120.73	1/2	2,759.77		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,909.80	3/4	4,557.00	3/4	4,196.09	3/4	3,835.13	3/4	3,474.17	3/4	3,113.21	3/4	2,752.25		
4		4		4		4	4,902.62	4	4,549.52	4	4,188.57	4	3,827.61	4	3,466.65	4	3,105.69	4	2,744.73		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,895.40	1/4	4,542.02	1/4	4,181.05	1/4	3,820.09	1/4	3,459.13	1/4	3,098.17	1/4	2,737.21		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,145.06	1/2	4,888.19	1/2	4,534.51	1/2	4,173.53	1/2	3,812.57	1/2	3,451.61	1/2	3,090.65	1/2	2,729.69
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,145.01	3/4	4,880.97	3/4	4,527.01	3/4	4,166.01	3/4	3,805.05	3/4	3,444.09	3/4	3,083.13	3/4	2,722.17
5		5		5		5	5,144.96	5	4,873.75	5	4,519.50	5	4,158.49	5	3,797.53	5	3,436.57	5	3,075.61	5	2,714.65
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,144.17	1/4	4,866.49	1/4	4,511.98	1/4	4,150.97	1/4	3,790.01	1/4	3,429.05	1/4	3,068.09	1/4	2,707.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,143.38	1/2	4,859.24	1/2	4,504.46	1/2	4,143.45	1/2	3,782.49	1/2	3,421.53	1/2	3,060.57	1/2	2,699.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,142.59	3/4	4,851.98	3/4	4,496.94	3/4	4,135.93	3/4	3,774.97	3/4	3,414.01	3/4	3,053.05	3/4	2,692.09
6		6		6		6	5,141.80	6	4,844.72	6	4,489.42	6	4,128.41	6	3,767.45	6	3,406.49	6	3,045.53	6	2,684.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,139.64	1/4	4,837.47	1/4	4,481.90	1/4	4,120.89	1/4	3,759.93	1/4	3,398.97	1/4	3,038.01	1/4	2,677.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,137.49	1/2	4,830.22	1/2	4,474.38	1/2	4,113.37	1/2	3,752.41	1/2	3,391.45	1/2	3,030.49	1/2	2,669.53
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,135.33	3/4	4,822.97	3/4	4,466.85	3/4	4,105.85	3/4	3,744.89	3/4	3,383.93	3/4	3,022.97	3/4	2,662.01
7		7		7		7	5,133.17	7	4,815.72	7	4,459.33	7	4,098.33	7	3,737.37	7	3,376.41	7	3,015.45	7	2,654.49
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,129.61	1/4	4,808.43	1/4	4,451.81	1/4	4,090.81	1/4	3,729.85	1/4	3,368.89	1/4	3,007.93	1/4	2,646.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,126.05	1/2	4,801.14	1/2	4,444.29	1/2	4,083.29	1/2	3,722.33	1/2	3,361.37	1/2	3,000.41	1/2	2,639.45
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,122.48	3/4	4,793.84	3/4	4,436.76	3/4	4,075.77	3/4	3,714.81	3/4	3,353.85	3/4	2,992.89	3/4	2,631.93
8		8		8		8	5,118.92	8	4,786.55	8	4,429.24	8	4,068.25	8	3,707.29	8	3,346.33	8	2,985.37	8	2,624.41
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,113.95	1/4	4,779.22	1/4	4,421.72	1/4	4,060.73	1/4	3,699.77	1/4	3,338.81	1/4	2,977.85	1/4	2,616.89
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,108.98	1/2	4,771.89	1/2	4,414.20	1/2	4,053.21	1/2	3,692.25	1/2	3,331.29	1/2	2,970.33	1/2	2,609.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,104.00	3/4	4,764.56	3/4	4,406.67	3/4	4,045.69	3/4	3,684.73	3/4	3,323.77	3/4	2,962.81	3/4	2,601.85
9		9		9		9	5,099.03	9	4,757.23	9	4,399.15	9	4,038.17	9	3,677.21	9	3,316.25	9	2,955.29	9	2,594.33
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,092.69	1/4	4,749.90	1/4	4,391.63	1/4	4,030.65	1/4	3,669.69	1/4	3,308.73	1/4	2,947.77	1/4	2,586.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,086.35	1/2	4,742.57	1/2	4,384.11	1/2	4,023.13	1/2	3,662.17	1/2	3,301.21	1/2	2,940.25	1/2	2,579.29
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,080.01	3/4	4,735.24	3/4	4,376.58	3/4	4,015.61	3/4	3,654.65	3/4	3,293.69	3/4	2,932.73	3/4	2,571.77
10		10		10		10	5,073.67	10	4,727.91	10	4,369.06	10	4,008.09	10	3,647.13	10	3,286.17	10	2,925.21	10	2,564.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,066.61	1/4	4,720.54	1/4	4,361.54	1/4	4,000.57	1/4	3,639.61	1/4	3,278.65	1/4	2,917.69	1/4	2,556.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,059.55	1/2	4,713.18	1/2	4,354.02	1/2	3,993.05	1/2	3,632.09	1/2	3,271.13	1/2	2,910.17	1/2	2,549.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,052.48	3/4	4,705.81	3/4	4,346.50	3/4	3,985.53	3/4	3,624.57	3/4	3,263.61	3/4	2,902.65	3/4	2,541.69
11		11		11		11	5,045.42	11	4,698.44	11	4,338.98	11	3,978.01	11	3,617.05	11	3,256.09	11	2,895.13	11	2,534.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,038.32	1/4	4,691.03	1/4	4,331.46	1/4	3,970.49	1/4	3,609.53	1/4	3,248.57	1/4	2,887.61	1/4	2,526.65
1/2	1/2	1/2	1/2	1/2	1/2	1/2	5,031.22	1/2	4,683.62	1/2	4,323.94	1/2	3,962.97	1/2	3,602.01	1/2	3,241.05	1/2	2,880.09	1/2	2,519.13
3/4	3/4	3/4	3/4	3/4	3/4	3/4	5,024.11	3/4	4,676.21	3/4	4,316.41	3/4	3,955.45	3/4	3,594.49	3/4	3,233.53	3/4	2,872.57	3/4	2,511.61

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 WITH "HERMETIC" GUAGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-07" OFF CENTERLINE AND 43'-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 "MMI 3034"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GUAGE HEIGHT 17'-00"

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	2,504.09	0	2,143.13	0	1,782.17	0	1,421.21	0	1,060.25	0	699.29	0	338.33	0	8.67	0		0	
1/4	2,496.57	1/4	2,135.61	1/4	1,774.65	1/4	1,413.69	1/4	1,052.73	1/4	691.77	1/4	330.81	1/4		1/4		1/4	
1/2	2,489.05	1/2	2,128.09	1/2	1,767.13	1/2	1,406.17	1/2	1,045.21	1/2	684.25	1/2	323.28	1/2		1/2		1/2	
3/4	2,481.53	3/4	2,120.57	3/4	1,759.61	3/4	1,398.65	3/4	1,037.69	3/4	676.73	3/4	315.76	3/4		3/4		3/4	
1	2,474.01	1	2,113.05	1	1,752.09	1	1,391.13	1	1,030.17	1	669.21	1	308.24	1	1	1		1	
1/4	2,466.49	1/4	2,105.53	1/4	1,744.57	1/4	1,383.61	1/4	1,022.65	1/4	661.69	1/4	300.72	1/4	1/4	1/4		1/4	
1/2	2,458.97	1/2	2,098.01	1/2	1,737.05	1/2	1,376.09	1/2	1,015.13	1/2	654.17	1/2	293.19	1/2	1/2	1/2		1/2	
3/4	2,451.45	3/4	2,090.49	3/4	1,729.53	3/4	1,368.57	3/4	1,007.61	3/4	646.65	3/4	285.67	3/4	3/4	3/4		3/4	
2	2,443.93	2	2,082.97	2	1,722.01	2	1,361.05	2	1,000.09	2	639.13	2	278.15	2	2	2		2	
1/4	2,436.41	1/4	2,075.45	1/4	1,714.49	1/4	1,353.53	1/4	992.57	1/4	631.61	1/4	270.63	1/4	1/4	1/4		1/4	
1/2	2,428.89	1/2	2,067.93	1/2	1,706.97	1/2	1,346.01	1/2	985.05	1/2	624.09	1/2	263.10	1/2	1/2	1/2		1/2	
3/4	2,421.37	3/4	2,060.41	3/4	1,699.45	3/4	1,338.49	3/4	977.53	3/4	616.57	3/4	255.58	3/4	3/4	3/4		3/4	
3	2,413.85	3	2,052.89	3	1,691.93	3	1,330.97	3	970.01	3	609.05	3	248.06	3	3	3		3	
1/4	2,406.33	1/4	2,045.37	1/4	1,684.41	1/4	1,323.45	1/4	962.49	1/4	601.53	1/4	240.54	1/4	1/4	1/4		1/4	
1/2	2,398.81	1/2	2,037.85	1/2	1,676.89	1/2	1,315.93	1/2	954.97	1/2	594.01	1/2	233.02	1/2	1/2	1/2		1/2	
3/4	2,391.29	3/4	2,030.33	3/4	1,669.37	3/4	1,308.41	3/4	947.45	3/4	586.49	3/4	225.50	3/4	3/4	3/4		3/4	
4	2,383.77	4	2,022.81	4	1,661.85	4	1,300.89	4	939.93	4	578.97	4	217.98	4	4	4		4	
1/4	2,376.25	1/4	2,015.29	1/4	1,654.33	1/4	1,293.37	1/4	932.41	1/4	571.45	1/4	210.46	1/4	1/4	1/4		1/4	
1/2	2,368.73	1/2	2,007.77	1/2	1,646.81	1/2	1,285.85	1/2	924.89	1/2	563.93	1/2	202.93	1/2	1/2	1/2		1/2	
3/4	2,361.21	3/4	2,000.25	3/4	1,639.29	3/4	1,278.33	3/4	917.37	3/4	556.41	3/4	195.41	3/4	3/4	3/4		3/4	
5	2,353.69	5	1,992.73	5	1,631.77	5	1,270.81	5	909.85	5	548.89	5	187.89	5	5	5		5	
1/4	2,346.17	1/4	1,985.21	1/4	1,624.25	1/4	1,263.29	1/4	902.33	1/4	541.37	1/4	180.37	1/4	1/4	1/4		1/4	
1/2	2,338.65	1/2	1,977.69	1/2	1,616.73	1/2	1,255.77	1/2	894.81	1/2	533.85	1/2	172.84	1/2	1/2	1/2		1/2	
3/4	2,331.13	3/4	1,970.17	3/4	1,609.21	3/4	1,248.25	3/4	887.29	3/4	526.33	3/4	165.32	3/4	3/4	3/4		3/4	
6	2,323.61	6	1,962.65	6	1,601.69	6	1,240.73	6	879.77	6	518.81	6	157.80	6	6	6		6	
1/4	2,316.09	1/4	1,955.13	1/4	1,594.17	1/4	1,233.21	1/4	872.25	1/4	511.29	1/4	150.29	1/4	1/4	1/4		1/4	
1/2	2,308.57	1/2	1,947.61	1/2	1,586.65	1/2	1,225.69	1/2	864.73	1/2	503.77	1/2	142.78	1/2	1/2	1/2		1/2	
3/4	2,301.05	3/4	1,940.09	3/4	1,579.13	3/4	1,218.17	3/4	857.21	3/4	496.25	3/4	135.27	3/4	3/4	3/4		3/4	
7	2,293.53	7	1,932.57	7	1,571.61	7	1,210.65	7	849.69	7	488.73	7	127.76	7	7	7		7	
1/4	2,286.01	1/4	1,925.05	1/4	1,564.09	1/4	1,203.13	1/4	842.17	1/4	481.21	1/4	120.26	1/4	1/4	1/4		1/4	
1/2	2,278.49	1/2	1,917.53	1/2	1,556.57	1/2	1,195.61	1/2	834.65	1/2	473.69	1/2	112.76	1/2	1/2	1/2		1/2	
3/4	2,270.97	3/4	1,910.01	3/4	1,549.05	3/4	1,188.09	3/4	827.13	3/4	466.17	3/4	105.26	3/4	3/4	3/4		3/4	
8	2,263.45	8	1,902.49	8	1,541.53	8	1,180.57	8	819.61	8	458.65	8	97.76	8	8	8		8	
1/4	2,255.93	1/4	1,894.97	1/4	1,534.01	1/4	1,173.05	1/4	812.09	1/4	451.13	1/4	90.26	1/4	1/4	1/4		1/4	
1/2	2,248.41	1/2	1,887.45	1/2	1,526.49	1/2	1,165.53	1/2	804.57	1/2	443.61	1/2	82.76	1/2	1/2	1/2		1/2	
3/4	2,240.89	3/4	1,879.93	3/4	1,518.97	3/4	1,158.01	3/4	797.05	3/4	436.09	3/4	75.26	3/4	3/4	3/4		3/4	
9	2,233.37	9	1,872.41	9	1,511.45	9	1,150.49	9	789.53	9	428.57	9	67.76	9	9	9		9	
1/4	2,225.85	1/4	1,864.89	1/4	1,503.93	1/4	1,142.97	1/4	782.01	1/4	421.05	1/4	61.30	1/4	1/4	1/4		1/4	
1/2	2,218.33	1/2	1,857.37	1/2	1,496.41	1/2	1,135.45	1/2	774.49	1/2	413.53	1/2	54.85	1/2	1/2	1/2		1/2	
3/4	2,210.81	3/4	1,849.85	3/4	1,488.89	3/4	1,127.93	3/4	766.97	3/4	406.01	3/4	48.39	3/4	3/4	3/4		3/4	
10	2,203.29	10	1,842.33	10	1,481.37	10	1,120.41	10	759.45	10	398.99	10	41.94	10	10	10		10	
1/4	2,195.77	1/4	1,834.81	1/4	1,473.85	1/4	1,112.89	1/4	751.93	1/4	390.97	1/4	36.95	1/4	1/4	1/4		1/4	
1/2	2,188.25	1/2	1,827.29	1/2	1,466.33	1/2	1,105.37	1/2	744.41	1/2	383.45	1/2	31.96	1/2	1/2	1/2		1/2	
3/4	2,180.73	3/4	1,819.77	3/4	1,458.81	3/4	1,097.85	3/4	736.89	3/4	375.93	3/4	26.97	3/4	3/4	3/4		3/4	
11	2,173.21	11	1,812.25	11	1,451.29	11	1,090.33	11	729.37	11	368.41	11	21.98	11	11	11		11	
1/4	2,165.69	1/4	1,804.73	1/4	1,443.77	1/4	1,082.81	1/4	721.85	1/4	360.89	1/4	18.65	1/4	1/4	1/4		1/4	
1/2	2,158.17	1/2	1,797.21	1/2	1,436.25	1/2	1,075.29	1/2	714.33	1/2	353.37	1/2	15.32	1/2	1/2	1/2		1/2	
3/4	2,150.65	3/4	1,789.69	3/4	1,428.73	3/4	1,067.77	3/4	706.81	3/4	345.85	3/4	12.00	3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/11/2003 INS
CALCULATED: 08/08/2023 JS
VERIFIED: 08/08/2023 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

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CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2023



BARGE "MMI 3034"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 16'-11 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	5,009.91	0	4,661.39	0	4,301.37	0	3,940.41	0	3,579.45	0	3,218.49	0	2,857.53
1/4	1/4	1/4	1/4	1/4	1/4	1/4	5,002.81	1/4	4,653.99	1/4	4,293.85	1/4	3,932.89	1/4	3,571.93	1/4	3,210.97	1/4	2,850.01
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,995.70	1/2	4,646.58	1/2	4,286.33	1/2	3,925.37	1/2	3,564.41	1/2	3,203.45	1/2	2,842.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,988.60	3/4	4,639.17	3/4	4,278.81	3/4	3,917.85	3/4	3,556.89	3/4	3,195.93	3/4	2,834.97
1	1	1	1	1	1	1	4,981.46	1	4,631.73	1	4,271.29	1	3,910.33	1	3,549.37	1	3,188.41	1	2,827.45
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,974.32	1/4	4,624.28	1/4	4,263.77	1/4	3,902.81	1/4	3,541.85	1/4	3,180.89	1/4	2,819.93
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,967.18	1/2	4,616.84	1/2	4,256.25	1/2	3,895.29	1/2	3,534.33	1/2	3,173.37	1/2	2,812.41
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,960.04	3/4	4,609.39	3/4	4,248.73	3/4	3,887.77	3/4	3,526.81	3/4	3,165.85	3/4	2,804.89
2	2	2	2	2	2	2	4,952.86	2	4,601.91	2	4,241.21	2	3,880.25	2	3,519.29	2	3,158.33	2	2,797.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,945.69	1/4	4,594.42	1/4	4,233.69	1/4	3,872.73	1/4	3,511.77	1/4	3,150.81	1/4	2,789.85
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,938.51	1/2	4,586.94	1/2	4,226.17	1/2	3,865.21	1/2	3,504.25	1/2	3,143.29	1/2	2,782.33
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,931.33	3/4	4,579.45	3/4	4,218.65	3/4	3,857.69	3/4	3,496.73	3/4	3,135.77	3/4	2,774.81
3	3	3	3	3	3	3	4,924.15	3	4,571.97	3	4,211.13	3	3,850.17	3	3,489.21	3	3,128.25	3	2,767.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,916.98	1/4	4,564.49	1/4	4,203.61	1/4	3,842.65	1/4	3,481.69	1/4	3,120.73	1/4	2,759.77
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,909.80	1/2	4,557.00	1/2	4,196.09	1/2	3,835.13	1/2	3,474.17	1/2	3,113.21	1/2	2,752.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,902.62	3/4	4,549.52	3/4	4,188.57	3/4	3,827.61	3/4	3,466.65	3/4	3,105.69	3/4	2,744.73
4	4	4	4	4	4	4	4,895.40	4	4,542.02	4	4,181.05	4	3,820.09	4	3,459.13	4	3,098.17	4	2,737.21
1/4	1/4	1/4	5,145.06	1/4	4,888.19	1/4	4,534.51	1/4	4,173.53	1/4	3,812.57	1/4	3,451.61	1/4	3,090.65	1/4	2,729.69		
1/2	1/2	1/2	5,145.01	1/2	4,880.97	1/2	4,527.01	1/2	4,166.01	1/2	3,805.05	1/2	3,444.09	1/2	3,083.13	1/2	2,722.17		
3/4	3/4	3/4	5,144.96	3/4	4,873.75	3/4	4,519.50	3/4	4,158.49	3/4	3,797.53	3/4	3,436.57	3/4	3,075.61	3/4	2,714.65		
5	5	5	5,144.17	5	4,866.49	5	4,511.98	5	4,150.97	5	3,790.01	5	3,429.05	5	3,068.09	5	2,707.13		
1/4	1/4	1/4	5,143.38	1/4	4,859.24	1/4	4,504.46	1/4	4,143.45	1/4	3,782.49	1/4	3,421.53	1/4	3,060.57	1/4	2,699.61		
1/2	1/2	1/2	5,142.59	1/2	4,851.98	1/2	4,496.94	1/2	4,135.93	1/2	3,774.97	1/2	3,414.01	1/2	3,053.05	1/2	2,692.09		
3/4	3/4	3/4	5,141.80	3/4	4,844.72	3/4	4,489.42	3/4	4,128.41	3/4	3,767.45	3/4	3,406.49	3/4	3,045.53	3/4	2,684.57		
6	6	6	5,139.64	6	4,837.47	6	4,481.90	6	4,120.89	6	3,759.93	6	3,398.97	6	3,038.01	6	2,677.05		
1/4	1/4	1/4	5,137.49	1/4	4,830.22	1/4	4,474.38	1/4	4,113.37	1/4	3,752.41	1/4	3,391.45	1/4	3,030.49	1/4	2,669.53		
1/2	1/2	1/2	5,135.33	1/2	4,822.97	1/2	4,466.85	1/2	4,105.85	1/2	3,744.89	1/2	3,383.93	1/2	3,022.97	1/2	2,662.01		
3/4	3/4	3/4	5,133.17	3/4	4,815.72	3/4	4,459.33	3/4	4,098.33	3/4	3,737.37	3/4	3,376.41	3/4	3,015.45	3/4	2,654.49		
7	7	7	5,129.61	7	4,808.43	7	4,451.81	7	4,090.81	7	3,729.85	7	3,368.89	7	3,007.93	7	2,646.97		
1/4	1/4	1/4	5,126.05	1/4	4,801.14	1/4	4,444.29	1/4	4,083.29	1/4	3,722.33	1/4	3,361.37	1/4	3,000.41	1/4	2,639.45		
1/2	1/2	1/2	5,122.48	1/2	4,793.84	1/2	4,436.76	1/2	4,075.77	1/2	3,714.81	1/2	3,353.85	1/2	2,992.89	1/2	2,631.93		
3/4	3/4	3/4	5,118.92	3/4	4,786.55	3/4	4,429.24	3/4	4,068.25	3/4	3,707.29	3/4	3,346.33	3/4	2,985.37	3/4	2,624.41		
8	8	8	5,113.95	8	4,779.22	8	4,421.72	8	4,060.73	8	3,699.77	8	3,338.81	8	2,977.85	8	2,616.89		
1/4	1/4	1/4	5,108.98	1/4	4,771.89	1/4	4,414.20	1/4	4,053.21	1/4	3,692.25	1/4	3,331.29	1/4	2,970.33	1/4	2,609.37		
1/2	1/2	1/2	5,104.00	1/2	4,764.56	1/2	4,406.67	1/2	4,045.69	1/2	3,684.73	1/2	3,323.77	1/2	2,962.81	1/2	2,601.85		
3/4	3/4	3/4	5,099.03	3/4	4,757.23	3/4	4,399.15	3/4	4,038.17	3/4	3,677.21	3/4	3,316.25	3/4	2,955.29	3/4	2,594.33		
9	9	9	5,092.69	9	4,749.90	9	4,391.63	9	4,030.65	9	3,669.69	9	3,308.73	9	2,947.77	9	2,586.81		
1/4	1/4	1/4	5,086.35	1/4	4,742.57	1/4	4,384.11	1/4	4,023.13	1/4	3,662.17	1/4	3,301.21	1/4	2,940.25	1/4	2,579.29		
1/2	1/2	1/2	5,080.01	1/2	4,735.24	1/2	4,376.58	1/2	4,015.61	1/2	3,654.65	1/2	3,293.69	1/2	2,932.73	1/2	2,571.77		
3/4	3/4	3/4	5,073.67	3/4	4,727.91	3/4	4,369.06	3/4	4,008.09	3/4	3,647.13	3/4	3,286.17	3/4	2,925.21	3/4	2,564.25		
10	10	10	5,066.61	10	4,720.54	10	4,361.54	10	4,000.57	10	3,639.61	10	3,278.65	10	2,917.69	10	2,556.73		
1/4	1/4	1/4	5,059.55	1/4	4,713.18	1/4	4,354.02	1/4	3,993.05	1/4	3,632.09	1/4	3,271.13	1/4	2,910.17	1/4	2,549.21		
1/2	1/2	1/2	5,052.48	1/2	4,705.81	1/2	4,346.50	1/2	3,985.53	1/2	3,624.57	1/2	3,263.61	1/2	2,902.65	1/2	2,541.69		
3/4	3/4	3/4	5,045.42	3/4	4,698.44	3/4	4,338.98	3/4	3,978.01	3/4	3,617.05	3/4	3,256.09	3/4	2,895.13	3/4	2,534.17		
11	11	11	5,038.32	11	4,691.03	11	4,331.46	11	3,970.49	11	3,609.53	11	3,248.57	11	2,887.61	11	2,526.65		
1/4	1/4	1/4	5,031.22	1/4	4,683.62	1/4	4,323.94	1/4	3,962.97	1/4	3,602.01	1/4	3,241.05	1/4	2,880.09	1/4	2,519.13		
1/2	1/2	1/2	5,024.11	1/2	4,676.21	1/2	4,316.41	1/2	3,955.45	1/2	3,594.49	1/2	3,233.53	1/2	2,872.57	1/2	2,511.61		
3/4	3/4	3/4	5,017.01	3/4	4,668.80	3/4	4,308.89	3/4	3,947.93	3/4	3,586.97	3/4	3,226.01	3/4	2,865.05	3/4	2,504.09		

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 WITH "HERMETIC" GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-07" OFF CENTERLINE AND 43'-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 "MMI 3034"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 16'-11 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,496.57	0	2,135.61	0	1,774.65	0	1,413.69	0	1,052.73	0	691.77	0	330.81	0		0		0	
1/4	2,489.05	1/4	2,128.09	1/4	1,767.13	1/4	1,406.17	1/4	1,045.21	1/4	684.25	1/4	323.28	1/4		1/4		1/4	
1/2	2,481.53	1/2	2,120.57	1/2	1,759.61	1/2	1,398.65	1/2	1,037.69	1/2	676.73	1/2	315.76	1/2		1/2		1/2	
3/4	2,474.01	3/4	2,113.05	3/4	1,752.09	3/4	1,391.13	3/4	1,030.17	3/4	669.21	3/4	308.24	3/4		3/4		3/4	
1	2,466.49	1	2,105.53	1	1,744.57	1	1,383.61	1	1,022.65	1	661.69	1	300.72	1		1		1	
1/4	2,458.97	1/4	2,098.01	1/4	1,737.05	1/4	1,376.09	1/4	1,015.13	1/4	654.17	1/4	293.19	1/4		1/4		1/4	
1/2	2,451.45	1/2	2,090.49	1/2	1,729.53	1/2	1,368.57	1/2	1,007.61	1/2	646.65	1/2	285.67	1/2		1/2		1/2	
3/4	2,443.93	3/4	2,082.97	3/4	1,722.01	3/4	1,361.05	3/4	1,000.09	3/4	639.13	3/4	278.15	3/4		3/4		3/4	
2	2,436.41	2	2,075.45	2	1,714.49	2	1,353.53	2	992.57	2	631.61	2	270.63	2		2		2	
1/4	2,428.89	1/4	2,067.93	1/4	1,706.97	1/4	1,346.01	1/4	985.05	1/4	624.09	1/4	263.10	1/4		1/4		1/4	
1/2	2,421.37	1/2	2,060.41	1/2	1,699.45	1/2	1,338.49	1/2	977.53	1/2	616.57	1/2	255.58	1/2		1/2		1/2	
3/4	2,413.85	3/4	2,052.89	3/4	1,691.93	3/4	1,330.97	3/4	970.01	3/4	609.05	3/4	248.06	3/4		3/4		3/4	
3	2,406.33	3	2,045.37	3	1,684.41	3	1,323.45	3	962.49	3	601.53	3	240.54	3		3		3	
1/4	2,398.81	1/4	2,037.85	1/4	1,676.89	1/4	1,315.93	1/4	954.97	1/4	594.01	1/4	233.02	1/4		1/4		1/4	
1/2	2,391.29	1/2	2,030.33	1/2	1,669.37	1/2	1,308.41	1/2	947.45	1/2	586.49	1/2	225.50	1/2		1/2		1/2	
3/4	2,383.77	3/4	2,022.81	3/4	1,661.85	3/4	1,300.89	3/4	939.93	3/4	578.97	3/4	217.98	3/4		3/4		3/4	
4	2,376.25	4	2,015.29	4	1,654.33	4	1,293.37	4	932.41	4	571.45	4	210.46	4		4		4	
1/4	2,368.73	1/4	2,007.77	1/4	1,646.81	1/4	1,285.85	1/4	924.89	1/4	563.93	1/4	202.93	1/4		1/4		1/4	
1/2	2,361.21	1/2	2,000.25	1/2	1,639.29	1/2	1,278.33	1/2	917.37	1/2	556.41	1/2	195.41	1/2		1/2		1/2	
3/4	2,353.69	3/4	1,992.73	3/4	1,631.77	3/4	1,270.81	3/4	909.85	3/4	548.89	3/4	187.89	3/4		3/4		3/4	
5	2,346.17	5	1,985.21	5	1,624.25	5	1,263.29	5	902.33	5	541.37	5	180.37	5		5		5	
1/4	2,338.65	1/4	1,977.69	1/4	1,616.73	1/4	1,255.77	1/4	894.81	1/4	533.85	1/4	172.84	1/4		1/4		1/4	
1/2	2,331.13	1/2	1,970.17	1/2	1,609.21	1/2	1,248.25	1/2	887.29	1/2	526.33	1/2	165.32	1/2		1/2		1/2	
3/4	2,323.61	3/4	1,962.65	3/4	1,601.69	3/4	1,240.73	3/4	879.77	3/4	518.81	3/4	157.80	3/4		3/4		3/4	
6	2,316.09	6	1,955.13	6	1,594.17	6	1,233.21	6	872.25	6	511.29	6	150.29	6		6		6	
1/4	2,308.57	1/4	1,947.61	1/4	1,586.65	1/4	1,225.69	1/4	864.73	1/4	503.77	1/4	142.78	1/4		1/4		1/4	
1/2	2,301.05	1/2	1,940.09	1/2	1,579.13	1/2	1,218.17	1/2	857.21	1/2	496.25	1/2	135.27	1/2		1/2		1/2	
3/4	2,293.53	3/4	1,932.57	3/4	1,571.61	3/4	1,210.65	3/4	849.69	3/4	488.73	3/4	127.76	3/4		3/4		3/4	
7	2,286.01	7	1,925.05	7	1,564.09	7	1,203.13	7	842.17	7	481.21	7	120.26	7		7		7	
1/4	2,278.49	1/4	1,917.53	1/4	1,556.57	1/4	1,195.61	1/4	834.65	1/4	473.69	1/4	112.76	1/4		1/4		1/4	
1/2	2,270.97	1/2	1,910.01	1/2	1,549.05	1/2	1,188.09	1/2	827.13	1/2	466.17	1/2	105.26	1/2		1/2		1/2	
3/4	2,263.45	3/4	1,902.49	3/4	1,541.53	3/4	1,180.57	3/4	819.61	3/4	458.65	3/4	97.76	3/4		3/4		3/4	
8	2,255.93	8	1,894.97	8	1,534.01	8	1,173.05	8	812.09	8	451.13	8	90.26	8		8		8	
1/4	2,248.41	1/4	1,887.45	1/4	1,526.49	1/4	1,165.53	1/4	804.57	1/4	443.61	1/4	82.76	1/4		1/4		1/4	
1/2	2,240.89	1/2	1,879.93	1/2	1,518.97	1/2	1,158.01	1/2	797.05	1/2	436.09	1/2	75.26	1/2		1/2		1/2	
3/4	2,233.37	3/4	1,872.41	3/4	1,511.45	3/4	1,150.49	3/4	789.53	3/4	428.57	3/4	67.76	3/4		3/4		3/4	
9	2,225.85	9	1,864.89	9	1,503.93	9	1,142.97	9	782.01	9	421.05	9	61.30	9		9		9	
1/4	2,218.33	1/4	1,857.37	1/4	1,496.41	1/4	1,135.45	1/4	774.49	1/4	413.53	1/4	54.85	1/4		1/4		1/4	
1/2	2,210.81	1/2	1,849.85	1/2	1,488.89	1/2	1,127.93	1/2	766.97	1/2	406.01	1/2	48.39	1/2		1/2		1/2	
3/4	2,203.29	3/4	1,842.33	3/4	1,481.37	3/4	1,120.41	3/4	759.45	3/4	398.49	3/4	41.94	3/4		3/4		3/4	
10	2,195.77	10	1,834.81	10	1,473.85	10	1,112.89	10	751.93	10	390.97	10	36.95	10		10		10	
1/4	2,188.25	1/4	1,827.29	1/4	1,466.33	1/4	1,105.37	1/4	744.41	1/4	383.45	1/4	31.96	1/4		1/4		1/4	
1/2	2,180.73	1/2	1,819.77	1/2	1,458.81	1/2	1,097.85	1/2	736.89	1/2	375.93	1/2	26.97	1/2		1/2		1/2	
3/4	2,173.21	3/4	1,812.25	3/4	1,451.29	3/4	1,090.33	3/4	729.37	3/4	368.41	3/4	21.98	3/4		3/4		3/4	
11	2,165.69	11	1,804.73	11	1,443.77	11	1,082.81	11	721.85	11	360.89	11	18.65	11		11		11	
1/4	2,158.17	1/4	1,797.21	1/4	1,436.25	1/4	1,075.29	1/4	714.33	1/4	353.37	1/4	15.32	1/4		1/4		1/4	
1/2	2,150.65	1/2	1,789.69	1/2	1,428.73	1/2	1,067.77	1/2	706.81	1/2	345.85	1/2	12.00	1/2		1/2		1/2	
3/4	2,143.13	3/4	1,782.17	3/4	1,421.21	3/4	1,060.25	3/4	699.29	3/4	338.33	3/4	8.67	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/11/2003 INS
CALCULATED: 08/08/2023 JS
VERIFIED: 08/08/2023 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.dmacorp.net>



CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2023



BARGE "MMI 3034"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 17'-00 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		0	4,739.58	0	4,493.02	0	4,236.82	0	3,979.65	0	3,706.50	0	3,335.55	0	2,963.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,734.56	1/4	4,487.75	1/4	4,231.46	1/4	3,974.29	1/4	3,699.40	1/4	3,327.78	1/4	2,955.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,729.54	1/2	4,482.48	1/2	4,226.10	1/2	3,968.93	1/2	3,691.86	1/2	3,320.03	1/2	2,947.68
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,724.53	3/4	4,477.22	3/4	4,220.75	3/4	3,963.58	3/4	3,684.32	3/4	3,312.27	3/4	2,939.92
1	1	1	1	1	1	1	4,719.51	1	4,471.95	1	4,215.39	1	3,958.22	1	3,676.78	1	3,304.51	1	2,932.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,714.49	1/4	4,466.68	1/4	4,210.04	1/4	3,952.86	1/4	3,669.24	1/4	3,296.76	1/4	2,924.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,709.44	1/2	4,461.39	1/2	4,204.68	1/2	3,947.50	1/2	3,661.48	1/2	3,289.00	1/2	2,916.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,704.40	3/4	4,456.09	3/4	4,199.33	3/4	3,942.15	3/4	3,653.72	3/4	3,281.24	3/4	2,908.90
2	2	2	2	2	2	2	4,699.35	2	4,450.80	2	4,193.97	2	3,936.79	2	3,645.96	2	3,273.48	2	2,901.14
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,694.30	1/4	4,445.50	1/4	4,188.61	1/4	3,931.43	1/4	3,638.20	1/4	3,265.73	1/4	2,893.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,689.22	1/2	4,440.17	1/2	4,183.25	1/2	3,926.07	1/2	3,630.44	1/2	3,257.97	1/2	2,885.62
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,684.14	3/4	4,434.84	3/4	4,177.90	3/4	3,920.72	3/4	3,622.68	3/4	3,250.21	3/4	2,877.87
3	3	3	3	3	3	3	4,679.06	3	4,429.51	3	4,172.54	3	3,915.36	3	3,614.92	3	3,242.46	3	2,870.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,673.98	1/4	4,424.18	1/4	4,167.18	1/4	3,910.00	1/4	3,607.16	1/4	3,234.70	1/4	2,862.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,668.90	1/2	4,418.85	1/2	4,161.82	1/2	3,904.64	1/2	3,599.40	1/2	3,226.94	1/2	2,854.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,663.82	3/4	4,413.53	3/4	4,156.47	3/4	3,899.28	3/4	3,591.64	3/4	3,219.18	3/4	2,846.84
4	4	4	4	4	4	4	4,658.74	4	4,408.20	4	4,151.11	4	3,893.92	4	3,583.88	4	3,211.43	4	2,839.08
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,653.66	1/4	4,402.87	1/4	4,145.75	1/4	3,888.56	1/4	3,576.12	1/4	3,203.67	1/4	2,831.32
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,648.55	1/2	4,397.53	1/2	4,140.39	1/2	3,883.20	1/2	3,568.36	1/2	3,195.91	1/2	2,823.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,824.32	3/4	4,643.44	3/4	4,392.19	3/4	4,135.04	3/4	3,877.85	3/4	3,560.60	3/4	3,188.16
5	5	5	5	5	5	5	4,638.32	5	4,386.84	5	4,129.68	5	3,872.49	5	3,552.84	5	3,180.40	5	2,808.05
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,824.31	1/4	4,633.21	1/4	4,381.50	1/4	4,124.32	1/4	3,867.13	1/4	3,545.08	1/4	3,172.64
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,823.81	1/2	4,628.07	1/2	4,376.14	1/2	4,118.96	1/2	3,861.77	1/2	3,537.32	1/2	3,164.88
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,823.30	3/4	4,622.93	3/4	4,370.79	3/4	4,113.60	3/4	3,856.42	3/4	3,529.56	3/4	3,157.13
6	6	6	6	6	6	6	4,822.80	6	4,617.78	6	4,365.43	6	4,108.24	6	3,851.06	6	3,521.80	6	3,149.37
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,822.29	1/4	4,612.64	1/4	4,360.07	1/4	4,102.88	1/4	3,845.70	1/4	3,514.04	1/4	3,141.61
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,820.81	1/2	4,607.50	1/2	4,354.71	1/2	4,097.52	1/2	3,840.34	1/2	3,506.28	1/2	3,133.85
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,819.33	3/4	4,602.36	3/4	4,349.36	3/4	4,092.17	3/4	3,834.99	3/4	3,498.52	3/4	3,126.10
7	7	7	7	7	7	7	4,817.85	7	4,597.22	7	4,344.00	7	4,086.81	7	3,829.63	7	3,490.76	7	3,118.34
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,816.37	1/4	4,592.08	1/4	4,338.64	1/4	4,081.45	1/4	3,824.27	1/4	3,483.00	1/4	3,110.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,813.88	1/2	4,586.91	1/2	4,333.28	1/2	4,076.09	1/2	3,818.86	1/2	3,475.24	1/2	3,102.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,811.40	3/4	4,581.73	3/4	4,327.92	3/4	4,070.74	3/4	3,813.45	3/4	3,467.48	3/4	3,095.07
8	8	8	8	8	8	8	4,808.91	8	4,576.56	8	4,322.56	8	4,065.38	8	3,808.03	8	3,459.72	8	3,087.31
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,806.42	1/4	4,571.38	1/4	4,317.20	1/4	4,060.02	1/4	3,802.62	1/4	3,451.96	1/4	3,079.55
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,802.93	1/2	4,566.18	1/2	4,311.84	1/2	4,054.66	1/2	3,796.82	1/2	3,444.20	1/2	3,071.80
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,799.44	3/4	4,560.98	3/4	4,306.49	3/4	4,049.31	3/4	3,791.03	3/4	3,436.44	3/4	3,064.04
9	9	9	9	9	9	9	4,795.95	9	4,555.77	9	4,301.13	9	4,043.95	9	3,785.23	9	3,428.68	9	3,056.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,792.46	1/4	4,550.57	1/4	4,295.77	1/4	4,038.59	1/4	3,779.43	1/4	3,420.92	1/4	3,048.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,787.99	1/2	4,545.37	1/2	4,290.41	1/2	4,033.23	1/2	3,773.20	1/2	3,413.16	1/2	3,040.77
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,783.52	3/4	4,540.16	3/4	4,285.06	3/4	4,027.88	3/4	3,766.96	3/4	3,405.40	3/4	3,033.01
10	10	10	10	10	10	10	4,779.05	10	4,534.96	10	4,279.70	10	4,022.52	10	3,760.73	10	3,397.64	10	3,025.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,774.58	1/4	4,529.75	1/4	4,274.34	1/4	4,017.16	1/4	3,754.50	1/4	3,389.88	1/4	3,017.50
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,769.60	1/2	4,524.52	1/2	4,268.98	1/2	4,011.80	1/2	3,747.83	1/2	3,382.12	1/2	3,009.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,764.61	3/4	4,519.28	3/4	4,263.63	3/4	4,006.44	3/4	3,741.16	3/4	3,374.36	3/4	3,001.98
11	11	11	11	11	11	11	4,759.63	11	4,514.05	11	4,258.27	11	4,001.08	11	3,734.50	11	3,366.60	11	2,994.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,754.64	1/4	4,508.81	1/4	4,252.91	1/4	3,995.72	1/4	3,727.83	1/4	3,358.84	1/4	2,986.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,749.62	1/2	4,503.55	1/2	4,247.55	1/2	3,990.36	1/2	3,720.72	1/2	3,351.08	1/2	2,978.71
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,744.60	3/4	4,498.28	3/4	4,242.18	3/4	3,985.01	3/4	3,713.61	3/4	3,343.31	3/4	2,970.95

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 WITH "HERMETIC" GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-07" OFF CENTERLINE AND 45'-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 "MMI 3034"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 17'-00 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	2,590.85	0	2,218.51	0	1,846.16	0	1,473.81	0	1,101.47	0	729.12	0	356.78	0	12.36	0		0	
1/4	2,583.09	1/4	2,210.75	1/4	1,838.40	1/4	1,466.06	1/4	1,093.71	1/4	721.37	1/4	349.02	1/4	8.93	1/4		1/4	
1/2	2,575.34	1/2	2,202.99	1/2	1,830.65	1/2	1,458.30	1/2	1,085.95	1/2	713.61	1/2	341.26	1/2		1/2		1/2	
3/4	2,567.58	3/4	2,195.23	3/4	1,822.89	3/4	1,450.54	3/4	1,078.20	3/4	705.85	3/4	333.50	3/4		3/4		3/4	
1	2,559.82	1	2,187.48	1	1,815.13	1	1,442.79	1	1,070.44	1	698.09	1	325.74	1		1		1	
1/4	2,552.06	1/4	2,179.72	1/4	1,807.37	1/4	1,435.03	1/4	1,062.68	1/4	690.34	1/4	317.98	1/4		1/4		1/4	
1/2	2,544.31	1/2	2,171.96	1/2	1,799.62	1/2	1,427.27	1/2	1,054.93	1/2	682.58	1/2	310.22	1/2		1/2		1/2	
3/4	2,536.55	3/4	2,164.20	3/4	1,791.86	3/4	1,419.51	3/4	1,047.17	3/4	674.82	3/4	302.46	3/4		3/4		3/4	
2	2,528.79	2	2,156.45	2	1,784.10	2	1,411.76	2	1,039.41	2	667.07	2	294.70	2		2		2	
1/4	2,521.04	1/4	2,148.69	1/4	1,776.34	1/4	1,404.00	1/4	1,031.65	1/4	659.31	1/4	286.94	1/4		1/4		1/4	
1/2	2,513.28	1/2	2,140.93	1/2	1,768.59	1/2	1,396.24	1/2	1,023.90	1/2	651.55	1/2	279.18	1/2		1/2		1/2	
3/4	2,505.52	3/4	2,133.18	3/4	1,760.83	3/4	1,388.48	3/4	1,016.14	3/4	643.79	3/4	271.42	3/4		3/4		3/4	
3	2,497.76	3	2,125.42	3	1,753.07	3	1,380.73	3	1,008.38	3	636.04	3	263.66	3		3		3	
1/4	2,490.01	1/4	2,117.66	1/4	1,745.32	1/4	1,372.97	1/4	1,000.62	1/4	628.28	1/4	255.90	1/4		1/4		1/4	
1/2	2,482.25	1/2	2,109.90	1/2	1,737.56	1/2	1,365.21	1/2	992.87	1/2	620.52	1/2	248.14	1/2		1/2		1/2	
3/4	2,474.49	3/4	2,102.15	3/4	1,729.80	3/4	1,357.46	3/4	985.11	3/4	612.76	3/4	240.38	3/4		3/4		3/4	
4	2,466.74	4	2,094.39	4	1,722.04	4	1,349.70	4	977.35	4	605.01	4	232.62	4		4		4	
1/4	2,458.98	1/4	2,086.63	1/4	1,714.29	1/4	1,341.94	1/4	969.60	1/4	597.25	1/4	224.86	1/4		1/4		1/4	
1/2	2,451.22	1/2	2,078.88	1/2	1,706.53	1/2	1,334.18	1/2	961.84	1/2	589.49	1/2	217.10	1/2		1/2		1/2	
3/4	2,443.46	3/4	2,071.12	3/4	1,698.77	3/4	1,326.43	3/4	954.08	3/4	581.74	3/4	209.34	3/4		3/4		3/4	
5	2,435.71	5	2,063.36	5	1,691.02	5	1,318.67	5	946.32	5	573.98	5	201.58	5		5		5	
1/4	2,427.95	1/4	2,055.60	1/4	1,683.26	1/4	1,310.91	1/4	938.57	1/4	566.22	1/4	193.82	1/4		1/4		1/4	
1/2	2,420.19	1/2	2,047.85	1/2	1,675.50	1/2	1,303.16	1/2	930.81	1/2	558.46	1/2	186.06	1/2		1/2		1/2	
3/4	2,412.44	3/4	2,040.09	3/4	1,667.74	3/4	1,295.40	3/4	923.05	3/4	550.71	3/4	178.30	3/4		3/4		3/4	
6	2,404.68	6	2,032.33	6	1,659.99	6	1,287.64	6	915.30	6	542.95	6	170.54	6		6		6	
1/4	2,396.92	1/4	2,024.58	1/4	1,652.23	1/4	1,279.88	1/4	907.54	1/4	535.19	1/4	162.78	1/4		1/4		1/4	
1/2	2,389.16	1/2	2,016.82	1/2	1,644.47	1/2	1,272.13	1/2	899.78	1/2	527.44	1/2	155.03	1/2		1/2		1/2	
3/4	2,381.41	3/4	2,009.06	3/4	1,636.72	3/4	1,264.37	3/4	892.02	3/4	519.68	3/4	147.28	3/4		3/4		3/4	
7	2,373.65	7	2,001.30	7	1,628.96	7	1,256.61	7	884.27	7	511.92	7	139.53	7		7		7	
1/4	2,365.89	1/4	1,993.55	1/4	1,621.20	1/4	1,248.86	1/4	876.51	1/4	504.16	1/4	131.78	1/4		1/4		1/4	
1/2	2,358.13	1/2	1,985.79	1/2	1,613.44	1/2	1,241.10	1/2	868.75	1/2	496.41	1/2	124.04	1/2		1/2		1/2	
3/4	2,350.38	3/4	1,978.03	3/4	1,605.69	3/4	1,233.34	3/4	861.00	3/4	488.65	3/4	116.31	3/4		3/4		3/4	
8	2,342.62	8	1,970.27	8	1,597.93	8	1,225.58	8	853.24	8	480.89	8	108.57	8		8		8	
1/4	2,334.86	1/4	1,962.52	1/4	1,590.17	1/4	1,217.83	1/4	845.48	1/4	473.14	1/4	100.84	1/4		1/4		1/4	
1/2	2,327.11	1/2	1,954.76	1/2	1,582.41	1/2	1,210.07	1/2	837.72	1/2	465.38	1/2	93.10	1/2		1/2		1/2	
3/4	2,319.35	3/4	1,947.00	3/4	1,574.66	3/4	1,202.31	3/4	829.97	3/4	457.62	3/4	85.37	3/4		3/4		3/4	
9	2,311.59	9	1,939.25	9	1,566.90	9	1,194.55	9	822.21	9	449.86	9	77.63	9		9		9	
1/4	2,303.83	1/4	1,931.49	1/4	1,559.14	1/4	1,186.80	1/4	814.45	1/4	442.11	1/4	69.90	1/4		1/4		1/4	
1/2	2,296.08	1/2	1,923.73	1/2	1,551.39	1/2	1,179.04	1/2	806.69	1/2	434.35	1/2	63.24	1/2		1/2		1/2	
3/4	2,288.32	3/4	1,915.97	3/4	1,543.63	3/4	1,171.28	3/4	798.94	3/4	426.59	3/4	56.58	3/4		3/4		3/4	
10	2,280.56	10	1,908.22	10	1,535.87	10	1,163.53	10	791.18	10	418.83	10	49.92	10		10		10	
1/4	2,272.81	1/4	1,900.46	1/4	1,528.11	1/4	1,155.77	1/4	783.42	1/4	411.08	1/4	43.26	1/4		1/4		1/4	
1/2	2,265.05	1/2	1,892.70	1/2	1,520.36	1/2	1,148.01	1/2	775.67	1/2	403.32	1/2	38.11	1/2		1/2		1/2	
3/4	2,257.29	3/4	1,884.95	3/4	1,512.60	3/4	1,140.25	3/4	767.91	3/4	395.56	3/4	32.96	3/4		3/4		3/4	
11	2,249.53	11	1,877.19	11	1,504.84	11	1,132.50	11	760.15	11	387.81	11	27.81	11		11		11	
1/4	2,241.78	1/4	1,869.43	1/4	1,497.09	1/4	1,124.74	1/4	752.39	1/4	380.05	1/4	22.66	1/4		1/4		1/4	
1/2	2,234.02	1/2	1,861.67	1/2	1,489.33	1/2	1,116.98	1/2	744.64	1/2	372.29	1/2	19.23	1/2		1/2		1/2	
3/4	2,226.26	3/4	1,853.92	3/4	1,481.57	3/4	1,109.23	3/4	736.88	3/4	364.53	3/4	15.79	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/11/2003 INS
CALCULATED: 08/08/2023 JS
VERIFIED: 08/08/2023 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2023

P.O. Box 2092
Pearland, Texas 77588
<http://www.dmacorp.net>





BARGE "MMI 3034"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 16'-11 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	
0		0		0		0	4,729.54	0	4,482.48	0	4,226.10	0	3,968.93	0	3,691.86	0	3,320.03	0	2,947.68	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,724.53	1/4	4,477.22	1/4	4,220.75	1/4	3,963.58	1/4	3,684.32	1/4	3,312.27	1/4	2,939.92	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,719.51	1/2	4,471.95	1/2	4,215.39	1/2	3,958.22	1/2	3,676.78	1/2	3,304.51	1/2	2,932.17	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,714.49	3/4	4,466.68	3/4	4,210.04	3/4	3,952.86	3/4	3,669.24	3/4	3,296.76	3/4	2,924.41	
1	1	1	1	1	1	1	4,709.44	1	4,461.39	1	4,204.68	1	3,947.50	1	3,661.48	1	3,289.00	1	2,916.65	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,704.40	1/4	4,456.09	1/4	4,199.33	1/4	3,942.15	1/4	3,653.72	1/4	3,281.24	1/4	2,908.90	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,699.35	1/2	4,450.80	1/2	4,193.97	1/2	3,936.79	1/2	3,645.96	1/2	3,273.48	1/2	2,901.14	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,694.30	3/4	4,445.50	3/4	4,188.61	3/4	3,931.43	3/4	3,638.20	3/4	3,265.73	3/4	2,893.38	
2	2	2	2	2	2	2	4,689.22	2	4,440.17	2	4,183.25	2	3,926.07	2	3,630.44	2	3,257.97	2	2,885.62	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,684.14	1/4	4,434.84	1/4	4,177.90	1/4	3,920.72	1/4	3,622.68	1/4	3,250.21	1/4	2,877.87	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,679.06	1/2	4,429.51	1/2	4,172.54	1/2	3,915.36	1/2	3,614.92	1/2	3,242.46	1/2	2,870.11	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,673.98	3/4	4,424.18	3/4	4,167.18	3/4	3,910.00	3/4	3,607.16	3/4	3,234.70	3/4	2,862.35	
3	3	3	3	3	3	3	4,668.90	3	4,418.85	3	4,161.82	3	3,904.64	3	3,599.40	3	3,226.94	3	2,854.60	
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,663.82	1/4	4,413.53	1/4	4,156.47	1/4	3,899.28	1/4	3,591.64	1/4	3,219.18	1/4	2,846.84	
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,658.74	1/2	4,408.20	1/2	4,151.11	1/2	3,893.92	1/2	3,583.88	1/2	3,211.43	1/2	2,839.08	
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,653.66	3/4	4,402.87	3/4	4,145.75	3/4	3,888.56	3/4	3,576.12	3/4	3,203.67	3/4	2,831.32	
4	4	4	4	4	4	4	4,648.55	4	4,397.53	4	4,140.39	4	3,883.20	4	3,568.36	4	3,195.91	4	2,823.57	
1/4	1/4	1/4	4,824.32	1/4	4,643.44	1/4	4,392.19	1/4	4,135.04	1/4	3,877.85	1/4	3,560.60	1/4	3,188.16	1/4	2,815.81			
1/2	1/2	1/2	4,824.32	1/2	4,638.32	1/2	4,386.84	1/2	4,129.68	1/2	3,872.49	1/2	3,552.84	1/2	3,180.40	1/2	2,808.05			
3/4	3/4	3/4	4,824.31	3/4	4,633.21	3/4	4,381.50	3/4	4,124.32	3/4	3,867.13	3/4	3,545.08	3/4	3,172.64	3/4	2,800.30			
5	5	5	4,823.81	5	4,628.07	5	4,376.14	5	4,118.96	5	3,861.77	5	3,537.32	5	3,164.88	5	2,792.54			
1/4	1/4	1/4	4,823.30	1/4	4,622.93	1/4	4,370.79	1/4	4,113.60	1/4	3,856.42	1/4	3,529.56	1/4	3,157.13	1/4	2,784.78			
1/2	1/2	1/2	4,822.80	1/2	4,617.78	1/2	4,365.43	1/2	4,108.24	1/2	3,851.06	1/2	3,521.80	1/2	3,149.37	1/2	2,777.02			
3/4	3/4	3/4	4,822.29	3/4	4,612.64	3/4	4,360.07	3/4	4,102.88	3/4	3,845.70	3/4	3,514.04	3/4	3,141.61	3/4	2,769.27			
6	6	6	4,820.81	6	4,607.50	6	4,354.71	6	4,097.52	6	3,840.34	6	3,506.28	6	3,133.85	6	2,761.51			
1/4	1/4	1/4	4,819.33	1/4	4,602.36	1/4	4,349.36	1/4	4,092.17	1/4	3,834.99	1/4	3,498.52	1/4	3,126.10	1/4	2,753.75			
1/2	1/2	1/2	4,817.85	1/2	4,597.22	1/2	4,344.00	1/2	4,086.81	1/2	3,829.63	1/2	3,490.76	1/2	3,118.34	1/2	2,745.99			
3/4	3/4	3/4	4,816.37	3/4	4,592.08	3/4	4,338.64	3/4	4,081.45	3/4	3,824.27	3/4	3,483.00	3/4	3,110.58	3/4	2,738.24			
7	7	7	4,813.88	7	4,586.91	7	4,333.28	7	4,076.09	7	3,818.86	7	3,475.24	7	3,102.83	7	2,730.48			
1/4	1/4	1/4	4,811.40	1/4	4,581.73	1/4	4,327.92	1/4	4,070.74	1/4	3,813.45	1/4	3,467.48	1/4	3,095.07	1/4	2,722.72			
1/2	1/2	1/2	4,808.91	1/2	4,576.56	1/2	4,322.56	1/2	4,065.38	1/2	3,808.03	1/2	3,459.72	1/2	3,087.31	1/2	2,714.97			
3/4	3/4	3/4	4,806.42	3/4	4,571.38	3/4	4,317.20	3/4	4,060.02	3/4	3,802.62	3/4	3,451.96	3/4	3,079.55	3/4	2,707.21			
8	8	8	4,802.93	8	4,566.18	8	4,311.84	8	4,054.66	8	3,796.82	8	3,444.20	8	3,071.80	8	2,699.45			
1/4	1/4	1/4	4,799.44	1/4	4,560.98	1/4	4,306.49	1/4	4,049.31	1/4	3,791.03	1/4	3,436.44	1/4	3,063.04	1/4	2,691.69			
1/2	1/2	1/2	4,795.95	1/2	4,555.77	1/2	4,301.13	1/2	4,043.95	1/2	3,785.23	1/2	3,428.68	1/2	3,056.28	1/2	2,683.94			
3/4	3/4	3/4	4,792.46	3/4	4,550.57	3/4	4,295.77	3/4	4,038.59	3/4	3,779.43	3/4	3,420.92	3/4	3,048.53	3/4	2,676.18			
9	9	9	4,787.99	9	4,545.37	9	4,290.41	9	4,033.23	9	3,773.20	9	3,413.16	9	3,040.77	9	2,668.42			
1/4	1/4	1/4	4,783.52	1/4	4,540.16	1/4	4,285.06	1/4	4,027.88	1/4	3,766.96	1/4	3,405.40	1/4	3,033.01	1/4	2,660.67			
1/2	1/2	1/2	4,779.05	1/2	4,534.96	1/2	4,279.70	1/2	4,022.52	1/2	3,760.73	1/2	3,397.64	1/2	3,025.25	1/2	2,652.91			
3/4	3/4	3/4	4,774.58	3/4	4,529.75	3/4	4,274.34	3/4	4,017.16	3/4	3,754.50	3/4	3,389.88	3/4	3,017.50	3/4	2,645.15			
10	10	10	4,769.60	10	4,524.52	10	4,268.98	10	4,011.80	10	3,747.83	10	3,382.12	10	3,009.74	10	2,637.39			
1/4	1/4	1/4	4,764.61	1/4	4,519.28	1/4	4,263.63	1/4	4,006.44	1/4	3,741.16	1/4	3,374.36	1/4	3,001.98	1/4	2,629.64			
1/2	1/2	1/2	4,759.63	1/2	4,514.05	1/2	4,258.27	1/2	4,001.08	1/2	3,734.50	1/2	3,366.60	1/2	2,994.23	1/2	2,621.88			
3/4	3/4	3/4	4,754.64	3/4	4,508.81	3/4	4,252.91	3/4	3,995.72	3/4	3,727.83	3/4	3,358.84	3/4	2,986.47	3/4	2,614.12			
11	11	11	4,749.62	11	4,503.55	11	4,247.55	11	3,990.36	11	3,720.72	11	3,351.08	11	2,978.71	11	2,606.37			
1/4	1/4	1/4	4,744.60	1/4	4,498.28	1/4	4,242.18	1/4	3,985.01	1/4	3,713.61	1/4	3,343.31	1/4	2,970.95	1/4	2,598.61			
1/2	1/2	1/2	4,739.58	1/2	4,493.02	1/2	4,236.82	1/2	3,979.65	1/2	3,706.50	1/2	3,335.55	1/2	2,963.20	1/2	2,590.85			
3/4	3/4	3/4	4,734.56	3/4	4,487.75	3/4	4,231.46	3/4	3,974.29	3/4	3,699.40	3/4	3,327.78	3/4	2,955.44	3/4	2,583.09			

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 WITH "HERMETIC" GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED 12'-07" OFF CENTERLINE AND 45'-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 "MMI 3034"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 US GALLONS

GAUGE HEIGHT 16'-11 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,575.34	0	2,202.99	0	1,830.65	0	1,458.30	0	1,085.95	0	713.61	0	341.26	0		0		0	
1/4	2,567.58	1/4	2,195.23	1/4	1,822.89	1/4	1,450.54	1/4	1,078.20	1/4	705.85	1/4	333.50	1/4		1/4		1/4	
1/2	2,559.82	1/2	2,187.48	1/2	1,815.13	1/2	1,442.79	1/2	1,070.44	1/2	698.09	1/2	325.74	1/2		1/2		1/2	
3/4	2,552.06	3/4	2,179.72	3/4	1,807.37	3/4	1,435.03	3/4	1,062.68	3/4	690.34	3/4	317.98	3/4		3/4		3/4	
1	2,544.31	1	2,171.96	1	1,799.62	1	1,427.27	1	1,054.93	1	682.58	1	310.22	1		1		1	
1/4	2,536.55	1/4	2,164.20	1/4	1,791.86	1/4	1,419.51	1/4	1,047.17	1/4	674.82	1/4	302.46	1/4		1/4		1/4	
1/2	2,528.79	1/2	2,156.45	1/2	1,784.10	1/2	1,411.76	1/2	1,039.41	1/2	667.07	1/2	294.70	1/2		1/2		1/2	
3/4	2,521.04	3/4	2,148.69	3/4	1,776.34	3/4	1,404.00	3/4	1,031.65	3/4	659.31	3/4	286.94	3/4		3/4		3/4	
2	2,513.28	2	2,140.93	2	1,768.59	2	1,396.24	2	1,023.90	2	651.55	2	279.18	2		2		2	
1/4	2,505.52	1/4	2,133.18	1/4	1,760.83	1/4	1,388.48	1/4	1,016.14	1/4	643.79	1/4	271.42	1/4		1/4		1/4	
1/2	2,497.76	1/2	2,125.42	1/2	1,753.07	1/2	1,380.73	1/2	1,008.38	1/2	636.04	1/2	263.66	1/2		1/2		1/2	
3/4	2,490.01	3/4	2,117.66	3/4	1,745.32	3/4	1,372.97	3/4	1,000.62	3/4	628.28	3/4	255.90	3/4		3/4		3/4	
3	2,482.25	3	2,109.90	3	1,737.56	3	1,365.21	3	992.87	3	620.52	3	248.14	3		3		3	
1/4	2,474.49	1/4	2,102.15	1/4	1,729.80	1/4	1,357.46	1/4	985.11	1/4	612.76	1/4	240.38	1/4		1/4		1/4	
1/2	2,466.74	1/2	2,094.39	1/2	1,722.04	1/2	1,349.70	1/2	977.35	1/2	605.01	1/2	232.62	1/2		1/2		1/2	
3/4	2,458.98	3/4	2,086.63	3/4	1,714.29	3/4	1,341.94	3/4	969.60	3/4	597.25	3/4	224.86	3/4		3/4		3/4	
4	2,451.22	4	2,078.88	4	1,706.53	4	1,334.18	4	961.84	4	589.49	4	217.10	4		4		4	
1/4	2,443.46	1/4	2,071.12	1/4	1,698.77	1/4	1,326.43	1/4	954.08	1/4	581.74	1/4	209.34	1/4		1/4		1/4	
1/2	2,435.71	1/2	2,063.36	1/2	1,691.02	1/2	1,318.67	1/2	946.32	1/2	573.98	1/2	201.58	1/2		1/2		1/2	
3/4	2,427.95	3/4	2,055.60	3/4	1,683.26	3/4	1,310.91	3/4	938.57	3/4	566.22	3/4	193.82	3/4		3/4		3/4	
5	2,420.19	5	2,047.85	5	1,675.50	5	1,303.16	5	930.81	5	558.46	5	186.06	5		5		5	
1/4	2,412.44	1/4	2,040.09	1/4	1,667.74	1/4	1,295.40	1/4	923.05	1/4	550.71	1/4	178.30	1/4		1/4		1/4	
1/2	2,404.68	1/2	2,032.33	1/2	1,659.99	1/2	1,287.64	1/2	915.30	1/2	542.95	1/2	170.54	1/2		1/2		1/2	
3/4	2,396.92	3/4	2,024.58	3/4	1,652.23	3/4	1,279.88	3/4	907.54	3/4	535.19	3/4	162.78	3/4		3/4		3/4	
6	2,389.16	6	2,016.82	6	1,644.47	6	1,272.13	6	899.78	6	527.44	6	155.03	6		6		6	
1/4	2,381.41	1/4	2,009.06	1/4	1,636.72	1/4	1,264.37	1/4	892.02	1/4	519.68	1/4	147.28	1/4		1/4		1/4	
1/2	2,373.65	1/2	2,001.30	1/2	1,628.96	1/2	1,256.61	1/2	884.27	1/2	511.92	1/2	139.53	1/2		1/2		1/2	
3/4	2,365.89	3/4	1,993.55	3/4	1,621.20	3/4	1,248.86	3/4	876.51	3/4	504.16	3/4	131.78	3/4		3/4		3/4	
7	2,358.13	7	1,985.79	7	1,613.44	7	1,241.10	7	868.75	7	496.41	7	124.04	7		7		7	
1/4	2,350.38	1/4	1,978.03	1/4	1,605.69	1/4	1,233.34	1/4	861.00	1/4	488.65	1/4	116.31	1/4		1/4		1/4	
1/2	2,342.62	1/2	1,970.27	1/2	1,597.93	1/2	1,225.58	1/2	853.24	1/2	480.89	1/2	108.57	1/2		1/2		1/2	
3/4	2,334.86	3/4	1,962.52	3/4	1,590.17	3/4	1,217.83	3/4	845.48	3/4	473.14	3/4	100.84	3/4		3/4		3/4	
8	2,327.11	8	1,954.76	8	1,582.41	8	1,210.07	8	837.72	8	465.38	8	93.10	8		8		8	
1/4	2,319.35	1/4	1,947.00	1/4	1,574.66	1/4	1,202.31	1/4	829.97	1/4	457.62	1/4	85.37	1/4		1/4		1/4	
1/2	2,311.59	1/2	1,939.25	1/2	1,566.90	1/2	1,194.55	1/2	822.21	1/2	449.86	1/2	77.63	1/2		1/2		1/2	
3/4	2,303.83	3/4	1,931.49	3/4	1,559.14	3/4	1,186.80	3/4	814.45	3/4	442.11	3/4	69.90	3/4		3/4		3/4	
9	2,296.08	9	1,923.73	9	1,551.39	9	1,179.04	9	806.69	9	434.35	9	63.24	9		9		9	
1/4	2,288.32	1/4	1,915.97	1/4	1,543.63	1/4	1,171.28	1/4	798.94	1/4	426.59	1/4	56.58	1/4		1/4		1/4	
1/2	2,280.56	1/2	1,908.22	1/2	1,535.87	1/2	1,163.53	1/2	791.18	1/2	418.83	1/2	49.92	1/2		1/2		1/2	
3/4	2,272.81	3/4	1,900.46	3/4	1,528.11	3/4	1,155.77	3/4	783.42	3/4	411.08	3/4	43.26	3/4		3/4		3/4	
10	2,265.05	10	1,892.70	10	1,520.36	10	1,148.01	10	775.67	10	403.32	10	38.11	10		10		10	
1/4	2,257.29	1/4	1,884.95	1/4	1,512.60	1/4	1,140.25	1/4	767.91	1/4	395.56	1/4	32.96	1/4		1/4		1/4	
1/2	2,249.53	1/2	1,877.19	1/2	1,504.84	1/2	1,132.50	1/2	760.15	1/2	387.81	1/2	27.81	1/2		1/2		1/2	
3/4	2,241.78	3/4	1,869.43	3/4	1,497.09	3/4	1,124.74	3/4	752.39	3/4	380.05	3/4	22.66	3/4		3/4		3/4	
11	2,234.02	11	1,861.67	11	1,489.33	11	1,116.98	11	744.64	11	372.29	11	19.23	11		11		11	
1/4	2,226.26	1/4	1,853.92	1/4	1,481.57	1/4	1,109.23	1/4	736.88	1/4	364.53	1/4	15.79	1/4		1/4		1/4	
1/2	2,218.51	1/2	1,846.16	1/2	1,473.81	1/2	1,101.47	1/2	729.12	1/2	356.78	1/2	12.36	1/2		1/2		1/2	
3/4	2,210.75	3/4	1,838.40	3/4	1,466.06	3/4	1,093.71	3/4	721.37	3/4	349.02	3/4	8.93	3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 06/11/2003 INS
CALCULATED: 08/08/2023 JS
VERIFIED: 08/08/2023 JS

PRECISION MEASUREMENT
& ANALYSIS, INC.

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<http://www.dmacorp.net>

CANCELS AND SUPERCEDES
ALL PRIOR TO 08/2023



BARGE "MMI 3034"

FWD SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	449	0	898	0	1,346	0	1,795	0		0		0		0		0	
1/4	9	1/4	458	1/4	907	1/4	1,356	1/4	1,805	1/4		1/4		1/4		1/4		1/4	
1/2	19	1/2	468	1/2	916	1/2	1,365	1/2	1,814	1/2		1/2		1/2		1/2		1/2	
3/4	28	3/4	477	3/4	926	3/4	1,375	3/4	1,823	3/4		3/4		3/4		3/4		3/4	
1	37	1	486	1	935	1	1,384	1	1,833	1		1		1		1		1	
1/4	47	1/4	496	1/4	944	1/4	1,393	1/4	1,842	1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	505	1/2	954	1/2	1,403	1/2	1,851	1/2		1/2		1/2		1/2		1/2	
3/4	65	3/4	514	3/4	963	3/4	1,412	3/4	1,861	3/4		3/4		3/4		3/4		3/4	
2	75	2	524	2	972	2	1,421	2	1,870	2		2		2		2		2	
1/4	84	1/4	533	1/4	982	1/4	1,431	1/4	1,879	1/4		1/4		1/4		1/4		1/4	
1/2	94	1/2	542	1/2	991	1/2	1,440	1/2	1,889	1/2		1/2		1/2		1/2		1/2	
3/4	103	3/4	552	3/4	1,001	3/4	1,449	3/4	1,898	3/4		3/4		3/4		3/4		3/4	
3	112	3	561	3	1,010	3	1,459	3	1,908	3		3		3		3		3	
1/4	122	1/4	570	1/4	1,019	1/4	1,468	1/4	1,917	1/4		1/4		1/4		1/4		1/4	
1/2	131	1/2	580	1/2	1,029	1/2	1,477	1/2	1,926	1/2		1/2		1/2		1/2		1/2	
3/4	140	3/4	589	3/4	1,038	3/4	1,487	3/4	1,936	3/4		3/4		3/4		3/4		3/4	
4	150	4	598	4	1,047	4	1,496	4	1,945	4		4		4		4		4	
1/4	159	1/4	608	1/4	1,057	1/4	1,505	1/4	1,954	1/4		1/4		1/4		1/4		1/4	
1/2	168	1/2	617	1/2	1,066	1/2	1,515	1/2	1,964	1/2		1/2		1/2		1/2		1/2	
3/4	178	3/4	626	3/4	1,075	3/4	1,524	3/4	1,973	3/4		3/4		3/4		3/4		3/4	
5	187	5	636	5	1,085	5	1,533	5	1,982	5		5		5		5		5	
1/4	196	1/4	645	1/4	1,094	1/4	1,543	1/4	1,992	1/4		1/4		1/4		1/4		1/4	
1/2	206	1/2	655	1/2	1,103	1/2	1,552	1/2	2,001	1/2		1/2		1/2		1/2		1/2	
3/4	215	3/4	664	3/4	1,113	3/4	1,562	3/4	2,010	3/4		3/4		3/4		3/4		3/4	
6	224	6	673	6	1,122	6	1,571	6	2,020	6		6		6		6		6	
1/4	234	1/4	683	1/4	1,131	1/4	1,580	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	243	1/2	692	1/2	1,141	1/2	1,590	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	252	3/4	701	3/4	1,150	3/4	1,599	3/4		3/4		3/4		3/4		3/4		3/4	
7	262	7	711	7	1,159	7	1,608	7		7		7		7		7		7	
1/4	271	1/4	720	1/4	1,169	1/4	1,618	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	281	1/2	729	1/2	1,178	1/2	1,627	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	290	3/4	739	3/4	1,188	3/4	1,636	3/4		3/4		3/4		3/4		3/4		3/4	
8	299	8	748	8	1,197	8	1,646	8		8		8		8		8		8	
1/4	309	1/4	757	1/4	1,206	1/4	1,655	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	318	1/2	767	1/2	1,216	1/2	1,664	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	327	3/4	776	3/4	1,225	3/4	1,674	3/4		3/4		3/4		3/4		3/4		3/4	
9	337	9	785	9	1,234	9	1,683	9		9		9		9		9		9	
1/4	346	1/4	795	1/4	1,244	1/4	1,692	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	355	1/2	804	1/2	1,253	1/2	1,702	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	365	3/4	814	3/4	1,262	3/4	1,711	3/4		3/4		3/4		3/4		3/4		3/4	
10	374	10	823	10	1,272	10	1,721	10		10		10		10		10		10	
1/4	383	1/4	832	1/4	1,281	1/4	1,730	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	393	1/2	842	1/2	1,290	1/2	1,739	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	402	3/4	851	3/4	1,300	3/4	1,749	3/4		3/4		3/4		3/4		3/4		3/4	
11	411	11	860	11	1,309	11	1,758	11		11		11		11		11		11	
1/4	421	1/4	870	1/4	1,318	1/4	1,767	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	430	1/2	879	1/2	1,328	1/2	1,777	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	439	3/4	888	3/4	1,337	3/4	1,786	3/4		3/4		3/4		3/4		3/4		3/4	

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK AT GAUGE POINT.

STRAPPED: 09/12/2023 JS - SW
CALCULATED: 09/12/2023 CL
PRINTED: 09/12/2023 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2023

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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<http://www.pmacorp.net>



BARGE "MMI 3034"

AFT SLOP INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	449	0	898	0	1,346	0	1,795	0		0		0		0		0	
1/4	9	1/4	458	1/4	907	1/4	1,356	1/4	1,805	1/4		1/4		1/4		1/4		1/4	
1/2	19	1/2	468	1/2	916	1/2	1,365	1/2	1,814	1/2		1/2		1/2		1/2		1/2	
3/4	28	3/4	477	3/4	926	3/4	1,375	3/4	1,823	3/4		3/4		3/4		3/4		3/4	
1	37	1	486	1	935	1	1,384	1	1,833	1		1		1		1		1	
1/4	47	1/4	496	1/4	944	1/4	1,393	1/4	1,842	1/4		1/4		1/4		1/4		1/4	
1/2	56	1/2	505	1/2	954	1/2	1,403	1/2	1,851	1/2		1/2		1/2		1/2		1/2	
3/4	65	3/4	514	3/4	963	3/4	1,412	3/4	1,861	3/4		3/4		3/4		3/4		3/4	
2	75	2	524	2	972	2	1,421	2	1,870	2		2		2		2		2	
1/4	84	1/4	533	1/4	982	1/4	1,431	1/4	1,879	1/4		1/4		1/4		1/4		1/4	
1/2	94	1/2	542	1/2	991	1/2	1,440	1/2	1,889	1/2		1/2		1/2		1/2		1/2	
3/4	103	3/4	552	3/4	1,001	3/4	1,449	3/4	1,898	3/4		3/4		3/4		3/4		3/4	
3	112	3	561	3	1,010	3	1,459	3	1,908	3		3		3		3		3	
1/4	122	1/4	570	1/4	1,019	1/4	1,468	1/4	1,917	1/4		1/4		1/4		1/4		1/4	
1/2	131	1/2	580	1/2	1,029	1/2	1,477	1/2	1,926	1/2		1/2		1/2		1/2		1/2	
3/4	140	3/4	589	3/4	1,038	3/4	1,487	3/4	1,936	3/4		3/4		3/4		3/4		3/4	
4	150	4	598	4	1,047	4	1,496	4	1,945	4		4		4		4		4	
1/4	159	1/4	608	1/4	1,057	1/4	1,505	1/4	1,954	1/4		1/4		1/4		1/4		1/4	
1/2	168	1/2	617	1/2	1,066	1/2	1,515	1/2	1,964	1/2		1/2		1/2		1/2		1/2	
3/4	178	3/4	626	3/4	1,075	3/4	1,524	3/4	1,973	3/4		3/4		3/4		3/4		3/4	
5	187	5	636	5	1,085	5	1,533	5	1,982	5		5		5		5		5	
1/4	196	1/4	645	1/4	1,094	1/4	1,543	1/4	1,992	1/4		1/4		1/4		1/4		1/4	
1/2	206	1/2	655	1/2	1,103	1/2	1,552	1/2	2,001	1/2		1/2		1/2		1/2		1/2	
3/4	215	3/4	664	3/4	1,113	3/4	1,562	3/4	2,010	3/4		3/4		3/4		3/4		3/4	
6	224	6	673	6	1,122	6	1,571	6	2,020	6		6		6		6		6	
1/4	234	1/4	683	1/4	1,131	1/4	1,580	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	243	1/2	692	1/2	1,141	1/2	1,590	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	252	3/4	701	3/4	1,150	3/4	1,599	3/4		3/4		3/4		3/4		3/4		3/4	
7	262	7	711	7	1,159	7	1,608	7		7		7		7		7		7	
1/4	271	1/4	720	1/4	1,169	1/4	1,618	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	281	1/2	729	1/2	1,178	1/2	1,627	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	290	3/4	739	3/4	1,188	3/4	1,636	3/4		3/4		3/4		3/4		3/4		3/4	
8	299	8	748	8	1,197	8	1,646	8		8		8		8		8		8	
1/4	309	1/4	757	1/4	1,206	1/4	1,655	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	318	1/2	767	1/2	1,216	1/2	1,664	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	327	3/4	776	3/4	1,225	3/4	1,674	3/4		3/4		3/4		3/4		3/4		3/4	
9	337	9	785	9	1,234	9	1,683	9		9		9		9		9		9	
1/4	346	1/4	795	1/4	1,244	1/4	1,692	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	355	1/2	804	1/2	1,253	1/2	1,702	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	365	3/4	814	3/4	1,262	3/4	1,711	3/4		3/4		3/4		3/4		3/4		3/4	
10	374	10	823	10	1,272	10	1,721	10		10		10		10		10		10	
1/4	383	1/4	832	1/4	1,281	1/4	1,730	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	393	1/2	842	1/2	1,290	1/2	1,739	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	402	3/4	851	3/4	1,300	3/4	1,749	3/4		3/4		3/4		3/4		3/4		3/4	
11	411	11	860	11	1,309	11	1,758	11		11		11		11		11		11	
1/4	421	1/4	870	1/4	1,318	1/4	1,767	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	430	1/2	879	1/2	1,328	1/2	1,777	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	439	3/4	888	3/4	1,337	3/4	1,786	3/4		3/4		3/4		3/4		3/4		3/4	

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PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "MMI 3034"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	120	0	301	0	465	0		0		0		0		0		0	
1/4	1	1/4	124	1/4	305	1/4	468	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	1/2	127	1/2	309	1/2	470	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	3/4	131	3/4	313	3/4	473	3/4	3/4	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	3	1	134	1	316	1	476	1	1	1		1	1	1	1	1	1	1	1
1/4	5	1/4	138	1/4	320	1/4	478	1/4	1/4	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	6	1/2	142	1/2	324	1/2	480	1/2	1/2	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	7	3/4	145	3/4	328	3/4	483	3/4	3/4	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	9	2	149	2	331	2	485	2	2	2		2	2	2	2	2	2	2	2
1/4	11	1/4	152	1/4	335	1/4	487	1/4	1/4	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	13	1/2	156	1/2	339	1/2	489	1/2	1/2	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	14	3/4	160	3/4	343	3/4	491	3/4	3/4	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	16	3	163	3	346	3	494	3	3	3		3	3	3	3	3	3	3	3
1/4	18	1/4	167	1/4	350	1/4	495	1/4	1/4	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	20	1/2	171	1/2	354	1/2	497	1/2	1/2	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	23	3/4	175	3/4	357	3/4	499	3/4	3/4	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	25	4	178	4	361	4	501	4	4	4		4	4	4	4	4	4	4	4
1/4	27	1/4	182	1/4	365	1/4	502	1/4	1/4	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	29	1/2	186	1/2	368	1/2	504	1/2	1/2	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	32	3/4	190	3/4	372	3/4	505	3/4	3/4	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	34	5	193	5	375	5	507	5	5	5		5	5	5	5	5	5	5	5
1/4	37	1/4	197	1/4	379	1/4	507	1/4	1/4	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	39	1/2	201	1/2	383	1/2	508	1/2	1/2	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	42	3/4	205	3/4	386	3/4	509	3/4	3/4	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	45	6	209	6	390	6	510	6	6	6		6	6	6	6	6	6	6	6
1/4	47	1/4	213	1/4	393	1/4		1/4	1/4	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	50	1/2	216	1/2	396	1/2		1/2	1/2	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	53	3/4	220	3/4	400	3/4		3/4	3/4	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	56	7	224	7	403	7		7	7	7		7	7	7	7	7	7	7	7
1/4	59	1/4	228	1/4	407	1/4		1/4	1/4	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	62	1/2	232	1/2	410	1/2		1/2	1/2	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	65	3/4	236	3/4	413	3/4		3/4	3/4	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	68	8	239	8	417	8		8	8	8		8	8	8	8	8	8	8	8
1/4	71	1/4	243	1/4	420	1/4		1/4	1/4	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	74	1/2	247	1/2	423	1/2		1/2	1/2	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	77	3/4	251	3/4	426	3/4		3/4	3/4	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	80	9	255	9	430	9		9	9	9		9	9	9	9	9	9	9	9
1/4	83	1/4	259	1/4	433	1/4		1/4	1/4	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	87	1/2	263	1/2	436	1/2		1/2	1/2	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	90	3/4	266	3/4	439	3/4		3/4	3/4	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	93	10	270	10	442	10		10	10	10		10	10	10	10	10	10	10	10
1/4	96	1/4	274	1/4	445	1/4		1/4	1/4	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	100	1/2	278	1/2	448	1/2		1/2	1/2	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	103	3/4	282	3/4	451	3/4		3/4	3/4	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	106	11	286	11	454	11		11	11	11		11	11	11	11	11	11	11	11
1/4	110	1/4	290	1/4	457	1/4		1/4	1/4	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	113	1/2	293	1/2	460	1/2		1/2	1/2	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	117	3/4	297	3/4	462	3/4		3/4	3/4	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

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