



# BARGE "MM 312"

## INNAGE TRIM TABLE HERMETIC

	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	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
1 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
2 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
2 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 PORT	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
3 STBD	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8
4 PORT	- 01-1/8	01-1/8	- 02-1/4	02-1/4	- 03-3/8	03-3/8	- 04-1/2	04-1/2	- 05-5/8	05-5/8	- 06-3/4	06-3/4
4 STBD	- 01-1/8	01-1/8	- 02-1/4	02-1/4	- 03-3/8	03-3/8	- 04-1/2	04-1/2	- 05-5/8	05-5/8	- 06-3/4	06-3/4

(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 4 PORT IS 02-1/4"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 4 PORT, THE TRIM CORRECTED ULLAGE IS 4'-02 1/4"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

April 29, 2015

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

<http://www.pmacorp.net>



# BARGE "MM 312"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.14	0	201.23	0	442.81	0	689.03	0	936.29	0	1,183.60	0	1,431.30	0	1,679.00	0	1,926.70	0	2,174.40
1/4	19.03	1/4	205.90	1/4	447.97	1/4	694.15	1/4	941.45	1/4	1,188.76	1/4	1,436.46	1/4	1,684.16	1/4	1,931.86	1/4	2,179.56
1/2	20.91	1/2	210.58	1/2	453.13	1/2	699.28	1/2	946.61	1/2	1,193.92	1/2	1,441.62	1/2	1,689.32	1/2	1,937.02	1/2	2,184.72
3/4	22.80	3/4	215.26	3/4	458.29	3/4	704.40	3/4	951.77	3/4	1,199.08	3/4	1,446.78	3/4	1,694.48	3/4	1,942.18	3/4	2,189.88
1	24.69	1	219.94	1	463.45	1	709.53	1	956.93	1	1,204.25	1	1,451.94	1	1,699.64	1	1,947.34	1	2,195.04
1/4	27.70	1/4	224.71	1/4	468.61	1/4	714.65	1/4	962.10	1/4	1,209.41	1/4	1,457.10	1/4	1,704.80	1/4	1,952.50	1/4	2,200.20
1/2	30.70	1/2	229.48	1/2	473.77	1/2	719.77	1/2	967.26	1/2	1,214.57	1/2	1,462.27	1/2	1,709.96	1/2	1,957.66	1/2	2,205.36
3/4	33.71	3/4	234.25	3/4	478.93	3/4	724.90	3/4	972.42	3/4	1,219.73	3/4	1,467.43	3/4	1,715.12	3/4	1,962.82	3/4	2,210.52
2	36.72	2	239.01	2	484.09	2	730.02	2	977.58	2	1,224.89	2	1,472.59	2	1,720.29	2	1,967.98	2	2,215.68
1/4	40.31	1/4	243.88	1/4	489.25	1/4	735.15	1/4	982.74	1/4	1,230.05	1/4	1,477.75	1/4	1,725.45	1/4	1,973.14	1/4	2,220.84
1/2	43.91	1/2	248.74	1/2	494.41	1/2	740.27	1/2	987.90	1/2	1,235.21	1/2	1,482.91	1/2	1,730.61	1/2	1,978.31	1/2	2,226.00
3/4	47.50	3/4	253.60	3/4	499.57	3/4	745.39	3/4	993.06	3/4	1,240.37	3/4	1,488.07	3/4	1,735.77	3/4	1,983.47	3/4	2,231.16
3	51.09	3	258.46	3	504.73	3	750.52	3	998.22	3	1,245.53	3	1,493.23	3	1,740.93	3	1,988.63	3	2,236.33
1/4	54.79	1/4	263.41	1/4	509.85	1/4	755.68	1/4	1,003.38	1/4	1,250.69	1/4	1,498.39	1/4	1,746.09	1/4	1,993.79	1/4	2,241.49
1/2	58.50	1/2	268.37	1/2	514.97	1/2	760.84	1/2	1,008.54	1/2	1,255.85	1/2	1,503.55	1/2	1,751.25	1/2	1,998.95	1/2	2,246.65
3/4	62.20	3/4	273.32	3/4	520.09	3/4	766.00	3/4	1,013.70	3/4	1,261.01	3/4	1,508.71	3/4	1,756.41	3/4	2,004.11	3/4	2,251.81
4	65.90	4	278.28	4	525.21	4	771.16	4	1,018.86	4	1,266.17	4	1,513.87	4	1,761.57	4	2,009.27	4	2,256.97
1/4	69.70	1/4	283.32	1/4	530.32	1/4	776.32	1/4	1,024.02	1/4	1,271.33	1/4	1,519.03	1/4	1,766.73	1/4	2,014.43	1/4	2,262.13
1/2	73.50	1/2	288.37	1/2	535.44	1/2	781.48	1/2	1,029.18	1/2	1,276.49	1/2	1,524.19	1/2	1,771.89	1/2	2,019.59	1/2	2,267.29
3/4	77.30	3/4	293.41	3/4	540.56	3/4	786.64	3/4	1,034.34	3/4	1,281.65	3/4	1,529.35	3/4	1,777.05	3/4	2,024.75	3/4	2,272.45
5	81.10	5	298.46	5	545.68	5	791.80	5	1,039.50	5	1,286.81	5	1,534.51	5	1,782.21	5	2,029.91	5	2,277.61
1/4	85.00	1/4	303.58	1/4	550.80	1/4	796.96	1/4	1,044.66	1/4	1,291.97	1/4	1,539.67	1/4	1,787.37	1/4	2,035.07	1/4	2,282.77
1/2	88.89	1/2	308.71	1/2	555.92	1/2	802.12	1/2	1,049.82	1/2	1,297.13	1/2	1,544.83	1/2	1,792.53	1/2	2,040.23	1/2	2,287.93
3/4	92.79	3/4	313.83	3/4	561.04	3/4	807.28	3/4	1,054.98	3/4	1,302.29	3/4	1,549.99	3/4	1,797.69	3/4	2,045.39	3/4	2,293.09
6	96.68	6	318.96	6	566.16	6	812.44	6	1,060.14	6	1,307.45	6	1,555.15	6	1,802.85	6	2,050.55	6	2,298.25
1/4	100.81	1/4	324.12	1/4	571.27	1/4	817.60	1/4	1,065.30	1/4	1,312.61	1/4	1,560.31	1/4	1,808.01	1/4	2,055.71	1/4	2,303.41
1/2	104.93	1/2	329.28	1/2	576.39	1/2	822.76	1/2	1,070.46	1/2	1,317.77	1/2	1,565.47	1/2	1,813.17	1/2	2,060.87	1/2	2,308.57
3/4	109.06	3/4	334.44	3/4	581.51	3/4	827.92	3/4	1,075.62	3/4	1,322.93	3/4	1,570.63	3/4	1,818.33	3/4	2,066.03	3/4	2,313.73
7	113.19	7	339.60	7	586.63	7	833.09	7	1,080.78	7	1,328.09	7	1,575.79	7	1,823.49	7	2,071.19	7	2,318.89
1/4	117.40	1/4	344.76	1/4	591.75	1/4	838.25	1/4	1,085.92	1/4	1,333.26	1/4	1,580.95	1/4	1,828.65	1/4	2,076.35	1/4	2,324.05
1/2	121.62	1/2	349.92	1/2	596.87	1/2	843.41	1/2	1,091.06	1/2	1,338.42	1/2	1,586.11	1/2	1,833.81	1/2	2,081.51	1/2	2,329.21
3/4	125.84	3/4	355.08	3/4	601.99	3/4	848.57	3/4	1,096.19	3/4	1,343.58	3/4	1,591.28	3/4	1,838.97	3/4	2,086.67	3/4	2,334.37
8	130.06	8	360.24	8	607.11	8	853.73	8	1,101.33	8	1,348.74	8	1,596.44	8	1,844.13	8	2,091.83	8	2,339.53
1/4	134.37	1/4	365.40	1/4	612.22	1/4	858.89	1/4	1,106.47	1/4	1,353.90	1/4	1,601.60	1/4	1,849.30	1/4	2,096.99	1/4	2,344.69
1/2	138.68	1/2	370.56	1/2	617.34	1/2	864.05	1/2	1,111.60	1/2	1,359.06	1/2	1,606.76	1/2	1,854.46	1/2	2,102.15	1/2	2,349.85
3/4	142.99	3/4	375.72	3/4	622.46	3/4	869.21	3/4	1,116.74	3/4	1,364.22	3/4	1,611.92	3/4	1,859.62	3/4	2,107.32	3/4	2,355.01
9	147.30	9	380.88	9	627.58	9	874.37	9	1,121.87	9	1,369.38	9	1,617.08	9	1,864.78	9	2,112.48	9	2,360.17
1/4	151.70	1/4	386.04	1/4	632.70	1/4	879.53	1/4	1,127.01	1/4	1,374.54	1/4	1,622.24	1/4	1,869.94	1/4	2,117.64	1/4	2,365.34
1/2	156.10	1/2	391.20	1/2	637.82	1/2	884.69	1/2	1,132.15	1/2	1,379.70	1/2	1,627.40	1/2	1,875.10	1/2	2,122.80	1/2	2,370.50
3/4	160.50	3/4	396.36	3/4	642.94	3/4	889.85	3/4	1,137.28	3/4	1,384.86	3/4	1,632.56	3/4	1,880.26	3/4	2,127.96	3/4	2,375.66
10	164.91	10	401.52	10	648.06	10	895.01	10	1,142.42	10	1,390.02	10	1,637.72	10	1,885.42	10	2,133.12	10	2,380.82
1/4	169.40	1/4	406.68	1/4	653.18	1/4	900.17	1/4	1,147.55	1/4	1,395.18	1/4	1,642.88	1/4	1,890.58	1/4	2,138.28	1/4	2,385.98
1/2	173.89	1/2	411.84	1/2	658.29	1/2	905.33	1/2	1,152.69	1/2	1,400.34	1/2	1,648.04	1/2	1,895.74	1/2	2,143.44	1/2	2,391.14
3/4	178.39	3/4	417.01	3/4	663.41	3/4	910.49	3/4	1,157.83	3/4	1,405.50	3/4	1,653.20	3/4	1,900.90	3/4	2,148.60	3/4	2,396.30
11	182.88	11	422.17	11	668.53	11	915.65	11	1,162.96	11	1,410.66	11	1,658.36	11	1,906.06	11	2,153.76	11	2,401.46
1/4	187.47	1/4	427.33	1/4	673.66	1/4	920.81	1/4	1,168.12	1/4	1,415.82	1/4	1,663.52	1/4	1,911.22	1/4	2,158.92	1/4	2,406.62
1/2	192.05	1/2	432.49	1/2	678.78	1/2	925.97	1/2	1,173.28	1/2	1,420.98	1/2	1,668.68	1/2	1,916.38	1/2	2,164.08	1/2	2,411.78
3/4	196.64	3/4	437.65	3/4	683.90	3/4	931.13	3/4	1,178.44	3/4	1,426.14	3/4	1,673.84	3/4	1,921.54	3/4	2,169.24	3/4	2,416.94

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 29'-06" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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# BARGE "MM 312"

## 1 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,422.10	0	2,669.80	0	2,917.50	0	3,165.20	0	3,411.62	0		0		0		0		0	
1/4	2,427.26	1/4	2,674.96	1/4	2,922.66	1/4	3,170.36	1/4	3,416.71	1/4		1/4		1/4		1/4		1/4	
1/2	2,432.42	1/2	2,680.12	1/2	2,927.82	1/2	3,175.52	1/2	3,421.79	1/2		1/2		1/2		1/2		1/2	
3/4	2,437.58	3/4	2,685.28	3/4	2,932.98	3/4	3,180.68	3/4	3,426.88	3/4		3/4		3/4		3/4		3/4	
1	2,442.74	1	2,690.44	1	2,938.14	1	3,185.84	1	3,431.96	1		1		1		1		1	
1/4	2,447.90	1/4	2,695.60	1/4	2,943.30	1/4	3,191.00	1/4	3,436.55	1/4		1/4		1/4		1/4		1/4	
1/2	2,453.06	1/2	2,700.76	1/2	2,948.46	1/2	3,196.16	1/2	3,441.14	1/2		1/2		1/2		1/2		1/2	
3/4	2,458.22	3/4	2,705.92	3/4	2,953.62	3/4	3,201.32	3/4	3,445.74	3/4		3/4		3/4		3/4		3/4	
2	2,463.38	2	2,711.08	2	2,958.78	2	3,206.48	2	3,450.33	2		2		2		2		2	
1/4	2,468.54	1/4	2,716.24	1/4	2,963.94	1/4	3,211.64	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,473.70	1/2	2,721.40	1/2	2,969.10	1/2	3,216.80	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,478.86	3/4	2,726.56	3/4	2,974.26	3/4	3,221.96	3/4		3/4		3/4		3/4		3/4		3/4	
3	2,484.02	3	2,731.72	3	2,979.42	3	3,227.12	3		3		3		3		3		3	
1/4	2,489.18	1/4	2,736.88	1/4	2,984.58	1/4	3,232.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,494.35	1/2	2,742.04	1/2	2,989.74	1/2	3,237.44	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,499.51	3/4	2,747.20	3/4	2,994.90	3/4	3,242.60	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,504.67	4	2,752.37	4	3,000.06	4	3,247.76	4		4		4		4		4		4	
1/4	2,509.83	1/4	2,757.53	1/4	3,005.22	1/4	3,252.92	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,514.99	1/2	2,762.69	1/2	3,010.39	1/2	3,258.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,520.15	3/4	2,767.85	3/4	3,015.55	3/4	3,263.24	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,525.31	5	2,773.01	5	3,020.71	5	3,268.41	5		5		5		5		5		5	
1/4	2,530.47	1/4	2,778.17	1/4	3,025.87	1/4	3,273.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,535.63	1/2	2,783.33	1/2	3,031.03	1/2	3,278.73	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,540.79	3/4	2,788.49	3/4	3,036.19	3/4	3,283.89	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,545.95	6	2,793.65	6	3,041.35	6	3,289.05	6		6		6		6		6		6	
1/4	2,551.11	1/4	2,798.81	1/4	3,046.51	1/4	3,294.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,556.27	1/2	2,803.97	1/2	3,051.67	1/2	3,299.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,561.43	3/4	2,809.13	3/4	3,056.83	3/4	3,304.37	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,566.59	7	2,814.29	7	3,061.99	7	3,309.48	7		7		7		7		7		7	
1/4	2,571.75	1/4	2,819.45	1/4	3,067.15	1/4	3,314.59	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,576.91	1/2	2,824.61	1/2	3,072.31	1/2	3,319.70	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,582.07	3/4	2,829.77	3/4	3,077.47	3/4	3,324.81	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,587.23	8	2,834.93	8	3,082.63	8	3,329.91	8		8		8		8		8		8	
1/4	2,592.39	1/4	2,840.09	1/4	3,087.79	1/4	3,335.02	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,597.55	1/2	2,845.25	1/2	3,092.95	1/2	3,340.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,602.71	3/4	2,850.41	3/4	3,098.11	3/4	3,345.24	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,607.87	9	2,855.57	9	3,103.27	9	3,350.35	9		9		9		9		9		9	
1/4	2,613.03	1/4	2,860.73	1/4	3,108.43	1/4	3,355.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,618.19	1/2	2,865.89	1/2	3,113.59	1/2	3,360.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,623.36	3/4	2,871.05	3/4	3,118.75	3/4	3,365.67	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,628.52	10	2,876.21	10	3,123.91	10	3,370.78	10		10		10		10		10		10	
1/4	2,633.68	1/4	2,881.38	1/4	3,129.07	1/4	3,375.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,638.84	1/2	2,886.54	1/2	3,134.23	1/2	3,381.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,644.00	3/4	2,891.70	3/4	3,139.40	3/4	3,386.11	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,649.16	11	2,896.86	11	3,144.56	11	3,391.22	11		11		11		11		11		11	
1/4	2,654.32	1/4	2,902.02	1/4	3,149.72	1/4	3,396.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,659.48	1/2	2,907.18	1/2	3,154.88	1/2	3,401.42	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,664.64	3/4	2,912.34	3/4	3,160.04	3/4	3,406.52	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/29/2015 CL  
CALCULATED: 04/30/2015 CL  
PRINTED: 05/01/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2015

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



# BARGE "MM 312"

# 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	17.14	0	201.34	0	442.97	0	690.55	0	938.29	0	1,185.65	0	1,433.39	0	1,681.14	0	1,928.89	0	2,176.64
1/4	19.03	1/4	206.02	1/4	448.13	1/4	695.71	1/4	943.45	1/4	1,190.81	1/4	1,438.55	1/4	1,686.30	1/4	1,934.05	1/4	2,181.80
1/2	20.92	1/2	210.70	1/2	453.30	1/2	700.87	1/2	948.62	1/2	1,195.97	1/2	1,443.72	1/2	1,691.46	1/2	1,939.21	1/2	2,186.96
3/4	22.81	3/4	215.38	3/4	458.46	3/4	706.03	3/4	953.78	3/4	1,201.13	3/4	1,448.88	3/4	1,696.62	3/4	1,944.37	3/4	2,192.12
1	24.70	1	220.06	1	463.62	1	711.19	1	958.94	1	1,206.29	1	1,454.04	1	1,701.79	1	1,949.53	1	2,197.28
1/4	27.71	1/4	224.83	1/4	468.78	1/4	716.35	1/4	964.10	1/4	1,211.45	1/4	1,459.20	1/4	1,706.95	1/4	1,954.69	1/4	2,202.44
1/2	30.73	1/2	229.60	1/2	473.94	1/2	721.51	1/2	969.26	1/2	1,216.61	1/2	1,464.36	1/2	1,712.11	1/2	1,959.86	1/2	2,207.60
3/4	33.74	3/4	234.37	3/4	479.10	3/4	726.68	3/4	974.42	3/4	1,221.78	3/4	1,469.52	3/4	1,717.27	3/4	1,965.02	3/4	2,212.76
2	36.75	2	239.14	2	484.26	2	731.84	2	979.58	2	1,226.94	2	1,474.68	2	1,722.43	2	1,970.18	2	2,217.93
1/4	40.34	1/4	244.01	1/4	489.42	1/4	737.00	1/4	984.75	1/4	1,232.10	1/4	1,479.85	1/4	1,727.59	1/4	1,975.34	1/4	2,223.09
1/2	43.94	1/2	248.87	1/2	494.59	1/2	742.16	1/2	989.91	1/2	1,237.26	1/2	1,485.01	1/2	1,732.75	1/2	1,980.50	1/2	2,228.25
3/4	47.53	3/4	253.73	3/4	499.75	3/4	747.32	3/4	995.07	3/4	1,242.42	3/4	1,490.17	3/4	1,737.92	3/4	1,985.66	3/4	2,233.41
3	51.13	3	258.59	3	504.91	3	752.48	3	1,000.23	3	1,247.58	3	1,495.33	3	1,743.08	3	1,990.82	3	2,238.57
1/4	54.83	1/4	263.55	1/4	510.06	1/4	757.64	1/4	1,005.39	1/4	1,252.74	1/4	1,500.49	1/4	1,748.24	1/4	1,995.99	1/4	2,243.73
1/2	58.54	1/2	268.50	1/2	515.22	1/2	762.81	1/2	1,010.55	1/2	1,257.91	1/2	1,505.65	1/2	1,753.40	1/2	2,001.15	1/2	2,248.89
3/4	62.24	3/4	273.46	3/4	520.38	3/4	767.97	3/4	1,015.71	3/4	1,263.07	3/4	1,510.81	3/4	1,758.56	3/4	2,006.31	3/4	2,254.06
4	65.95	4	278.41	4	525.53	4	773.13	4	1,020.88	4	1,268.23	4	1,515.98	4	1,763.72	4	2,011.47	4	2,259.22
1/4	69.75	1/4	283.46	1/4	530.69	1/4	778.29	1/4	1,026.04	1/4	1,273.39	1/4	1,521.14	1/4	1,768.88	1/4	2,016.63	1/4	2,264.38
1/2	73.56	1/2	288.51	1/2	535.84	1/2	783.45	1/2	1,031.20	1/2	1,278.55	1/2	1,526.30	1/2	1,774.05	1/2	2,021.79	1/2	2,269.54
3/4	77.36	3/4	293.55	3/4	541.00	3/4	788.61	3/4	1,036.36	3/4	1,283.71	3/4	1,531.46	3/4	1,779.21	3/4	2,026.95	3/4	2,274.70
5	81.16	5	298.60	5	546.16	5	793.77	5	1,041.52	5	1,288.87	5	1,536.62	5	1,784.37	5	2,032.12	5	2,279.86
1/4	85.06	1/4	303.72	1/4	551.31	1/4	798.93	1/4	1,046.68	1/4	1,294.04	1/4	1,541.78	1/4	1,789.53	1/4	2,037.28	1/4	2,285.02
1/2	88.96	1/2	308.85	1/2	556.47	1/2	804.10	1/2	1,051.84	1/2	1,299.20	1/2	1,546.94	1/2	1,794.69	1/2	2,042.44	1/2	2,290.19
3/4	92.85	3/4	313.98	3/4	561.62	3/4	809.26	3/4	1,057.01	3/4	1,304.36	3/4	1,552.11	3/4	1,799.85	3/4	2,047.60	3/4	2,295.35
6	96.75	6	319.10	6	566.78	6	814.42	6	1,062.17	6	1,309.52	6	1,557.27	6	1,805.01	6	2,052.76	6	2,300.51
1/4	100.88	1/4	324.27	1/4	571.94	1/4	819.58	1/4	1,067.33	1/4	1,314.68	1/4	1,562.43	1/4	1,810.18	1/4	2,057.92	1/4	2,305.67
1/2	105.01	1/2	329.43	1/2	577.09	1/2	824.74	1/2	1,072.49	1/2	1,319.84	1/2	1,567.59	1/2	1,815.34	1/2	2,063.08	1/2	2,310.83
3/4	109.14	3/4	334.59	3/4	582.25	3/4	829.90	3/4	1,077.65	3/4	1,325.00	3/4	1,572.75	3/4	1,820.50	3/4	2,068.25	3/4	2,315.99
7	113.26	7	339.75	7	587.40	7	835.06	7	1,082.81	7	1,330.17	7	1,577.91	7	1,825.66	7	2,073.41	7	2,321.15
1/4	117.48	1/4	344.91	1/4	592.56	1/4	840.23	1/4	1,087.95	1/4	1,335.33	1/4	1,583.07	1/4	1,830.82	1/4	2,078.57	1/4	2,326.32
1/2	121.70	1/2	350.07	1/2	597.72	1/2	845.39	1/2	1,093.09	1/2	1,340.49	1/2	1,588.24	1/2	1,835.98	1/2	2,083.73	1/2	2,331.48
3/4	125.93	3/4	355.23	3/4	602.87	3/4	850.55	3/4	1,098.22	3/4	1,345.65	3/4	1,593.40	3/4	1,841.14	3/4	2,088.89	3/4	2,336.64
8	130.15	8	360.39	8	608.03	8	855.71	8	1,103.36	8	1,350.81	8	1,598.56	8	1,846.31	8	2,094.05	8	2,341.80
1/4	134.46	1/4	365.56	1/4	613.18	1/4	860.87	1/4	1,108.50	1/4	1,355.97	1/4	1,603.72	1/4	1,851.47	1/4	2,099.21	1/4	2,346.96
1/2	138.77	1/2	370.72	1/2	618.34	1/2	866.03	1/2	1,113.63	1/2	1,361.13	1/2	1,608.88	1/2	1,856.63	1/2	2,104.38	1/2	2,352.12
3/4	143.08	3/4	375.88	3/4	623.50	3/4	871.19	3/4	1,118.77	3/4	1,366.30	3/4	1,614.04	3/4	1,861.79	3/4	2,109.54	3/4	2,357.28
9	147.39	9	381.04	9	628.65	9	876.36	9	1,123.91	9	1,371.46	9	1,619.20	9	1,866.95	9	2,114.70	9	2,362.45
1/4	151.80	1/4	386.20	1/4	633.81	1/4	881.52	1/4	1,129.04	1/4	1,376.62	1/4	1,624.37	1/4	1,872.11	1/4	2,119.86	1/4	2,367.61
1/2	156.20	1/2	391.36	1/2	638.96	1/2	886.68	1/2	1,134.18	1/2	1,381.78	1/2	1,629.53	1/2	1,877.27	1/2	2,125.02	1/2	2,372.77
3/4	160.61	3/4	396.52	3/4	644.12	3/4	891.84	3/4	1,139.32	3/4	1,386.94	3/4	1,634.69	3/4	1,882.44	3/4	2,130.18	3/4	2,377.93
10	165.01	10	401.68	10	649.28	10	897.00	10	1,144.45	10	1,392.10	10	1,639.85	10	1,887.60	10	2,135.34	10	2,383.09
1/4	169.50	1/4	406.85	1/4	654.43	1/4	902.16	1/4	1,149.59	1/4	1,397.26	1/4	1,645.01	1/4	1,892.76	1/4	2,140.51	1/4	2,388.25
1/2	174.00	1/2	412.01	1/2	659.59	1/2	907.32	1/2	1,154.73	1/2	1,402.43	1/2	1,650.17	1/2	1,897.92	1/2	2,145.67	1/2	2,393.41
3/4	178.50	3/4	417.17	3/4	664.74	3/4	912.49	3/4	1,159.86	3/4	1,407.59	3/4	1,655.33	3/4	1,903.08	3/4	2,150.83	3/4	2,398.58
11	182.99	11	422.33	11	669.90	11	917.65	11	1,165.00	11	1,412.75	11	1,660.50	11	1,908.24	11	2,155.99	11	2,403.74
1/4	187.58	1/4	427.49	1/4	675.06	1/4	922.81	1/4	1,170.16	1/4	1,417.91	1/4	1,665.66	1/4	1,913.40	1/4	2,161.15	1/4	2,408.90
1/2	192.17	1/2	432.65	1/2	680.22	1/2	927.97	1/2	1,175.32	1/2	1,423.07	1/2	1,670.82	1/2	1,918.57	1/2	2,166.31	1/2	2,414.06
3/4	196.75	3/4	437.81	3/4	685.38	3/4	933.13	3/4	1,180.49	3/4	1,428.23	3/4	1,675.98	3/4	1,923.73	3/4	2,171.47	3/4	2,419.22

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 29'-06" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "MM 312"

## 1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,424.38	0	2,672.13	0	2,919.86	0	3,167.59	0	3,414.06	0		0		0		0		0	
1/4	2,429.54	1/4	2,677.29	1/4	2,925.02	1/4	3,172.75	1/4	3,419.15	1/4		1/4		1/4		1/4		1/4	
1/2	2,434.71	1/2	2,682.45	1/2	2,930.18	1/2	3,177.91	1/2	3,424.23	1/2		1/2		1/2		1/2		1/2	
3/4	2,439.87	3/4	2,687.61	3/4	2,935.34	3/4	3,183.08	3/4	3,429.32	3/4		3/4		3/4		3/4		3/4	
1	2,445.03	1	2,692.77	1	2,940.50	1	3,188.24	1	3,434.40	1		1		1		1		1	
1/4	2,450.19	1/4	2,697.93	1/4	2,945.67	1/4	3,193.40	1/4	3,438.99	1/4		1/4		1/4		1/4		1/4	
1/2	2,455.35	1/2	2,703.09	1/2	2,950.83	1/2	3,198.56	1/2	3,443.59	1/2		1/2		1/2		1/2		1/2	
3/4	2,460.51	3/4	2,708.25	3/4	2,955.99	3/4	3,203.72	3/4	3,448.18	3/4		3/4		3/4		3/4		3/4	
2	2,465.67	2	2,713.42	2	2,961.15	2	3,208.88	2	3,452.77	2		2		2		2		2	
1/4	2,470.83	1/4	2,718.58	1/4	2,966.31	1/4	3,214.04	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,476.00	1/2	2,723.74	1/2	2,971.47	1/2	3,219.20	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,481.16	3/4	2,728.90	3/4	2,976.63	3/4	3,224.36	3/4		3/4		3/4		3/4		3/4		3/4	
3	2,486.32	3	2,734.06	3	2,981.79	3	3,229.53	3		3		3		3		3		3	
1/4	2,491.48	1/4	2,739.22	1/4	2,986.95	1/4	3,234.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,496.64	1/2	2,744.38	1/2	2,992.12	1/2	3,239.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,501.80	3/4	2,749.54	3/4	2,997.28	3/4	3,245.01	3/4		3/4		3/4		3/4		3/4		3/4	
4	2,506.96	4	2,754.70	4	3,002.44	4	3,250.17	4		4		4		4		4		4	
1/4	2,512.13	1/4	2,759.87	1/4	3,007.60	1/4	3,255.33	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,517.29	1/2	2,765.03	1/2	3,012.76	1/2	3,260.49	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,522.45	3/4	2,770.19	3/4	3,017.92	3/4	3,265.65	3/4		3/4		3/4		3/4		3/4		3/4	
5	2,527.61	5	2,775.35	5	3,023.08	5	3,270.81	5		5		5		5		5		5	
1/4	2,532.77	1/4	2,780.51	1/4	3,028.24	1/4	3,275.98	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,537.93	1/2	2,785.67	1/2	3,033.40	1/2	3,281.14	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,543.09	3/4	2,790.83	3/4	3,038.57	3/4	3,286.30	3/4		3/4		3/4		3/4		3/4		3/4	
6	2,548.26	6	2,795.99	6	3,043.73	6	3,291.46	6		6		6		6		6		6	
1/4	2,553.42	1/4	2,801.15	1/4	3,048.89	1/4	3,296.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,558.58	1/2	2,806.32	1/2	3,054.05	1/2	3,301.68	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,563.74	3/4	2,811.48	3/4	3,059.21	3/4	3,306.79	3/4		3/4		3/4		3/4		3/4		3/4	
7	2,568.90	7	2,816.64	7	3,064.37	7	3,311.90	7		7		7		7		7		7	
1/4	2,574.06	1/4	2,821.80	1/4	3,069.53	1/4	3,317.01	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,579.22	1/2	2,826.96	1/2	3,074.69	1/2	3,322.12	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,584.39	3/4	2,832.12	3/4	3,079.85	3/4	3,327.23	3/4		3/4		3/4		3/4		3/4		3/4	
8	2,589.55	8	2,837.28	8	3,085.02	8	3,332.34	8		8		8		8		8		8	
1/4	2,594.71	1/4	2,842.44	1/4	3,090.18	1/4	3,337.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,599.87	1/2	2,847.60	1/2	3,095.34	1/2	3,342.56	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,605.03	3/4	2,852.77	3/4	3,100.50	3/4	3,347.67	3/4		3/4		3/4		3/4		3/4		3/4	
9	2,610.19	9	2,857.93	9	3,105.66	9	3,352.78	9		9		9		9		9		9	
1/4	2,615.35	1/4	2,863.09	1/4	3,110.82	1/4	3,357.89	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,620.52	1/2	2,868.25	1/2	3,115.98	1/2	3,363.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,625.68	3/4	2,873.41	3/4	3,121.14	3/4	3,368.11	3/4		3/4		3/4		3/4		3/4		3/4	
10	2,630.84	10	2,878.57	10	3,126.30	10	3,373.22	10		10		10		10		10		10	
1/4	2,636.00	1/4	2,883.73	1/4	3,131.47	1/4	3,378.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,641.16	1/2	2,888.89	1/2	3,136.63	1/2	3,383.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,646.32	3/4	2,894.05	3/4	3,141.79	3/4	3,388.54	3/4		3/4		3/4		3/4		3/4		3/4	
11	2,651.48	11	2,899.22	11	3,146.95	11	3,393.65	11		11		11		11		11		11	
1/4	2,656.64	1/4	2,904.38	1/4	3,152.11	1/4	3,398.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	2,661.80	1/2	2,909.54	1/2	3,157.27	1/2	3,403.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2,666.97	3/4	2,914.70	3/4	3,162.43	3/4	3,408.96	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/29/2015 CL  
CALCULATED: 04/30/2015 CL  
PRINTED: 05/01/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2015

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



# BARGE "MM 312"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22.81	0	311.96	0	615.53	0	908.89	0	1,209.12	0	1,511.10	0	1,814.67	0	2,118.24	0	2,421.81	0	2,725.39
1/4	27.07	1/4	318.29	1/4	621.85	1/4	914.93	1/4	1,215.44	1/4	1,517.43	1/4	1,821.00	1/4	2,124.57	1/4	2,428.14	1/4	2,731.71
1/2	31.32	1/2	324.61	1/2	628.17	1/2	920.98	1/2	1,221.76	1/2	1,523.75	1/2	1,827.32	1/2	2,130.89	1/2	2,434.46	1/2	2,738.03
3/4	35.58	3/4	330.94	3/4	634.50	3/4	927.03	3/4	1,228.09	3/4	1,530.07	3/4	1,833.65	3/4	2,137.22	3/4	2,440.79	3/4	2,744.36
1	39.84	1	337.26	1	640.82	1	933.07	1	1,234.41	1	1,536.40	1	1,839.97	1	2,143.54	1	2,447.11	1	2,750.68
1/4	45.35	1/4	343.58	1/4	647.15	1/4	939.12	1/4	1,240.74	1/4	1,542.72	1/4	1,846.29	1/4	2,149.87	1/4	2,453.44	1/4	2,757.01
1/2	50.87	1/2	349.91	1/2	653.47	1/2	945.16	1/2	1,247.06	1/2	1,549.05	1/2	1,852.62	1/2	2,156.19	1/2	2,459.76	1/2	2,763.33
3/4	56.39	3/4	356.23	3/4	659.79	3/4	951.21	3/4	1,253.39	3/4	1,555.37	3/4	1,858.94	3/4	2,162.51	3/4	2,466.09	3/4	2,769.66
2	61.91	2	362.56	2	666.12	2	957.25	2	1,259.71	2	1,561.70	2	1,865.27	2	2,168.84	2	2,472.41	2	2,775.98
1/4	68.03	1/4	368.88	1/4	672.44	1/4	963.30	1/4	1,266.03	1/4	1,568.02	1/4	1,871.59	1/4	2,175.16	1/4	2,478.73	1/4	2,782.30
1/2	74.15	1/2	375.21	1/2	678.77	1/2	969.35	1/2	1,272.36	1/2	1,574.34	1/2	1,877.92	1/2	2,181.49	1/2	2,485.06	1/2	2,788.63
3/4	80.27	3/4	381.53	3/4	685.09	3/4	975.39	3/4	1,278.68	3/4	1,580.67	3/4	1,884.24	3/4	2,187.81	3/4	2,491.38	3/4	2,794.95
3	86.39	3	387.85	3	691.42	3	981.44	3	1,285.01	3	1,586.99	3	1,890.56	3	2,194.14	3	2,497.71	3	2,801.28
1/4	92.54	1/4	394.18	1/4	697.46	1/4	987.76	1/4	1,291.33	1/4	1,593.32	1/4	1,896.89	1/4	2,200.46	1/4	2,504.03	1/4	2,807.60
1/2	98.68	1/2	400.50	1/2	703.50	1/2	994.09	1/2	1,297.66	1/2	1,599.64	1/2	1,903.21	1/2	2,206.78	1/2	2,510.36	1/2	2,813.93
3/4	104.82	3/4	406.83	3/4	709.54	3/4	1,000.41	3/4	1,303.98	3/4	1,605.97	3/4	1,909.54	3/4	2,213.11	3/4	2,516.68	3/4	2,820.25
4	110.97	4	413.15	4	715.58	4	1,006.73	4	1,310.31	4	1,612.29	4	1,915.86	4	2,219.43	4	2,523.00	4	2,826.58
1/4	117.12	1/4	419.48	1/4	721.62	1/4	1,013.06	1/4	1,316.63	1/4	1,618.62	1/4	1,922.19	1/4	2,225.76	1/4	2,529.33	1/4	2,832.90
1/2	123.27	1/2	425.80	1/2	727.66	1/2	1,019.38	1/2	1,322.95	1/2	1,624.94	1/2	1,928.51	1/2	2,232.08	1/2	2,535.65	1/2	2,839.22
3/4	129.42	3/4	432.12	3/4	733.70	3/4	1,025.71	3/4	1,329.28	3/4	1,631.26	3/4	1,934.84	3/4	2,238.41	3/4	2,541.98	3/4	2,845.55
5	135.57	5	438.45	5	739.74	5	1,032.03	5	1,335.60	5	1,637.59	5	1,941.16	5	2,244.73	5	2,548.30	5	2,851.87
1/4	141.72	1/4	444.77	1/4	745.78	1/4	1,038.36	1/4	1,341.93	1/4	1,643.91	1/4	1,947.48	1/4	2,251.06	1/4	2,554.63	1/4	2,858.20
1/2	147.88	1/2	451.10	1/2	751.82	1/2	1,044.68	1/2	1,348.25	1/2	1,650.24	1/2	1,953.81	1/2	2,257.38	1/2	2,560.95	1/2	2,864.52
3/4	154.03	3/4	457.42	3/4	757.86	3/4	1,051.01	3/4	1,354.58	3/4	1,656.56	3/4	1,960.13	3/4	2,263.70	3/4	2,567.28	3/4	2,870.85
6	160.18	6	463.74	6	763.90	6	1,057.33	6	1,360.90	6	1,662.89	6	1,966.46	6	2,270.03	6	2,573.60	6	2,877.17
1/4	166.51	1/4	470.07	1/4	769.94	1/4	1,063.65	1/4	1,367.23	1/4	1,669.21	1/4	1,972.78	1/4	2,276.35	1/4	2,579.92	1/4	2,883.50
1/2	172.83	1/2	476.39	1/2	775.98	1/2	1,069.98	1/2	1,373.55	1/2	1,675.54	1/2	1,979.11	1/2	2,282.68	1/2	2,586.25	1/2	2,889.82
3/4	179.16	3/4	482.72	3/4	782.02	3/4	1,076.30	3/4	1,379.87	3/4	1,681.86	3/4	1,985.43	3/4	2,289.00	3/4	2,592.57	3/4	2,896.14
7	185.48	7	489.04	7	788.06	7	1,082.63	7	1,386.20	7	1,688.18	7	1,991.76	7	2,295.33	7	2,598.90	7	2,902.47
1/4	191.80	1/4	495.37	1/4	794.10	1/4	1,088.95	1/4	1,392.42	1/4	1,694.51	1/4	1,998.08	1/4	2,301.65	1/4	2,605.22	1/4	2,908.79
1/2	198.13	1/2	501.69	1/2	800.14	1/2	1,095.28	1/2	1,398.65	1/2	1,700.83	1/2	2,004.40	1/2	2,307.98	1/2	2,611.55	1/2	2,915.12
3/4	204.45	3/4	508.01	3/4	806.18	3/4	1,101.60	3/4	1,404.87	3/4	1,707.16	3/4	2,010.73	3/4	2,314.30	3/4	2,617.87	3/4	2,921.44
8	210.78	8	514.34	8	812.22	8	1,107.92	8	1,411.10	8	1,713.48	8	2,017.05	8	2,320.62	8	2,624.19	8	2,927.77
1/4	217.10	1/4	520.66	1/4	818.26	1/4	1,114.25	1/4	1,417.32	1/4	1,719.81	1/4	2,023.38	1/4	2,326.95	1/4	2,630.52	1/4	2,934.09
1/2	223.43	1/2	526.99	1/2	824.30	1/2	1,120.57	1/2	1,423.55	1/2	1,726.13	1/2	2,029.70	1/2	2,333.27	1/2	2,636.84	1/2	2,940.41
3/4	229.75	3/4	533.31	3/4	830.34	3/4	1,126.90	3/4	1,429.78	3/4	1,732.45	3/4	2,036.03	3/4	2,339.60	3/4	2,643.17	3/4	2,946.74
9	236.07	9	539.64	9	836.38	9	1,133.22	9	1,436.00	9	1,738.78	9	2,042.35	9	2,345.92	9	2,649.49	9	2,953.06
1/4	242.40	1/4	545.96	1/4	842.42	1/4	1,139.55	1/4	1,442.23	1/4	1,745.10	1/4	2,048.67	1/4	2,352.25	1/4	2,655.82	1/4	2,959.39
1/2	248.72	1/2	552.28	1/2	848.46	1/2	1,145.87	1/2	1,448.45	1/2	1,751.43	1/2	2,055.00	1/2	2,358.57	1/2	2,662.14	1/2	2,965.71
3/4	255.05	3/4	558.61	3/4	854.50	3/4	1,152.20	3/4	1,454.68	3/4	1,757.75	3/4	2,061.32	3/4	2,364.89	3/4	2,668.47	3/4	2,972.04
10	261.37	10	564.93	10	860.54	10	1,158.52	10	1,460.90	10	1,764.08	10	2,067.65	10	2,371.22	10	2,674.79	10	2,978.36
1/4	267.69	1/4	571.26	1/4	866.58	1/4	1,164.84	1/4	1,467.13	1/4	1,770.40	1/4	2,073.97	1/4	2,377.54	1/4	2,681.11	1/4	2,984.69
1/2	274.02	1/2	577.58	1/2	872.62	1/2	1,171.17	1/2	1,473.35	1/2	1,776.73	1/2	2,080.30	1/2	2,383.87	1/2	2,687.44	1/2	2,991.01
3/4	280.34	3/4	583.90	3/4	878.67	3/4	1,177.49	3/4	1,479.58	3/4	1,783.05	3/4	2,086.62	3/4	2,390.19	3/4	2,693.76	3/4	2,997.33
11	286.67	11	590.23	11	884.71	11	1,183.82	11	1,485.80	11	1,789.37	11	2,092.95	11	2,396.52	11	2,700.09	11	3,003.66
1/4	292.99	1/4	596.55	1/4	890.75	1/4	1,190.14	1/4	1,492.13	1/4	1,795.70	1/4	2,099.27	1/4	2,402.84	1/4	2,706.41	1/4	3,009.98
1/2	299.32	1/2	602.88	1/2	896.80	1/2	1,196.47	1/2	1,498.45	1/2	1,802.02	1/2	2,105.59	1/2	2,409.17	1/2	2,712.74	1/2	3,016.31
3/4	305.64	3/4	609.20	3/4	902.84	3/4	1,202.79	3/4	1,504.78	3/4	1,808.35	3/4	2,111.92	3/4	2,415.49	3/4	2,719.06	3/4	3,022.63

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "MM 312"

## 2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,028.96	0	3,332.53	0	3,636.09	0	3,939.65	0	4,241.66	0		0		0		0		0	
1/4	3,035.28	1/4	3,338.85	1/4	3,642.41	1/4	3,945.97	1/4	4,247.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,041.61	1/2	3,345.17	1/2	3,648.74	1/2	3,952.30	1/2	4,254.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,047.93	3/4	3,351.50	3/4	3,655.06	3/4	3,958.62	3/4	4,260.36	3/4		3/4		3/4		3/4		3/4	
1	3,054.25	1	3,357.82	1	3,661.38	1	3,964.95	1	4,266.59	1		1		1		1		1	
1/4	3,060.58	1/4	3,364.15	1/4	3,667.71	1/4	3,971.27	1/4	4,272.22	1/4		1/4		1/4		1/4		1/4	
1/2	3,066.90	1/2	3,370.47	1/2	3,674.03	1/2	3,977.59	1/2	4,277.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,073.23	3/4	3,376.80	3/4	3,680.36	3/4	3,983.92	3/4	4,283.47	3/4		3/4		3/4		3/4		3/4	
2	3,079.55	2	3,383.12	2	3,686.68	2	3,990.24	2	4,289.10	2		2		2		2		2	
1/4	3,085.88	1/4	3,389.44	1/4	3,693.01	1/4	3,996.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,092.20	1/2	3,395.77	1/2	3,699.33	1/2	4,002.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,098.52	3/4	3,402.09	3/4	3,705.65	3/4	4,009.22	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,104.85	3	3,408.42	3	3,711.98	3	4,015.54	3		3		3		3		3		3	
1/4	3,111.17	1/4	3,414.74	1/4	3,718.30	1/4	4,021.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,117.50	1/2	3,421.06	1/2	3,724.63	1/2	4,028.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,123.82	3/4	3,427.39	3/4	3,730.95	3/4	4,034.51	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,130.15	4	3,433.71	4	3,737.27	4	4,040.84	4		4		4		4		4		4	
1/4	3,136.47	1/4	3,440.04	1/4	3,743.60	1/4	4,047.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,142.80	1/2	3,446.36	1/2	3,749.92	1/2	4,053.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,149.12	3/4	3,452.69	3/4	3,756.25	3/4	4,059.81	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,155.44	5	3,459.01	5	3,762.57	5	4,066.13	5		5		5		5		5		5	
1/4	3,161.77	1/4	3,465.33	1/4	3,768.90	1/4	4,072.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,168.09	1/2	3,471.66	1/2	3,775.22	1/2	4,078.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,174.42	3/4	3,477.98	3/4	3,781.54	3/4	4,085.11	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,180.74	6	3,484.31	6	3,787.87	6	4,091.43	6		6		6		6		6		6	
1/4	3,187.07	1/4	3,490.63	1/4	3,794.19	1/4	4,097.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,193.39	1/2	3,496.96	1/2	3,800.52	1/2	4,103.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,199.72	3/4	3,503.28	3/4	3,806.84	3/4	4,110.21	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,206.04	7	3,509.60	7	3,813.17	7	4,116.47	7		7		7		7		7		7	
1/4	3,212.36	1/4	3,515.93	1/4	3,819.49	1/4	4,122.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,218.69	1/2	3,522.25	1/2	3,825.81	1/2	4,129.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,225.01	3/4	3,528.58	3/4	3,832.14	3/4	4,135.26	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,231.34	8	3,534.90	8	3,838.46	8	4,141.52	8		8		8		8		8		8	
1/4	3,237.66	1/4	3,541.22	1/4	3,844.79	1/4	4,147.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,243.99	1/2	3,547.55	1/2	3,851.11	1/2	4,154.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,250.31	3/4	3,553.87	3/4	3,857.43	3/4	4,160.30	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,256.63	9	3,560.20	9	3,863.76	9	4,166.56	9		9		9		9		9		9	
1/4	3,262.96	1/4	3,566.52	1/4	3,870.08	1/4	4,172.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,269.28	1/2	3,572.85	1/2	3,876.41	1/2	4,179.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,275.61	3/4	3,579.17	3/4	3,882.73	3/4	4,185.35	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,281.93	10	3,585.49	10	3,889.06	10	4,191.61	10		10		10		10		10		10	
1/4	3,288.26	1/4	3,591.82	1/4	3,895.38	1/4	4,197.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,294.58	1/2	3,598.14	1/2	3,901.70	1/2	4,204.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,300.91	3/4	3,604.47	3/4	3,908.03	3/4	4,210.39	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,307.23	11	3,610.79	11	3,914.35	11	4,216.65	11		11		11		11		11		11	
1/4	3,313.55	1/4	3,617.12	1/4	3,920.68	1/4	4,222.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,319.88	1/2	3,623.44	1/2	3,927.00	1/2	4,229.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,326.20	3/4	3,629.76	3/4	3,933.33	3/4	4,235.41	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/29/2015 CL  
CALCULATED: 04/30/2015 CL  
PRINTED: 05/01/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2015

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



# BARGE "MM 312"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22.80	0	311.78	0	615.17	0	918.40	0	1,221.80	0	1,523.61	0	1,827.01	0	2,130.41	0	2,433.81	0	2,737.21
1/4	27.05	1/4	318.10	1/4	621.49	1/4	924.72	1/4	1,228.12	1/4	1,529.93	1/4	1,833.33	1/4	2,136.73	1/4	2,440.13	1/4	2,743.53
1/2	31.31	1/2	324.43	1/2	627.81	1/2	931.04	1/2	1,234.44	1/2	1,536.25	1/2	1,839.65	1/2	2,143.05	1/2	2,446.45	1/2	2,749.85
3/4	35.56	3/4	330.75	3/4	634.13	3/4	937.36	3/4	1,240.76	3/4	1,542.57	3/4	1,845.97	3/4	2,149.37	3/4	2,452.77	3/4	2,756.17
1	39.81	1	337.07	1	640.46	1	943.69	1	1,247.08	1	1,548.90	1	1,852.29	1	2,155.69	1	2,459.09	1	2,762.49
1/4	45.33	1/4	343.39	1/4	646.78	1/4	950.01	1/4	1,253.40	1/4	1,555.22	1/4	1,858.61	1/4	2,162.01	1/4	2,465.41	1/4	2,768.81
1/2	50.84	1/2	349.71	1/2	653.10	1/2	956.33	1/2	1,259.73	1/2	1,561.54	1/2	1,864.94	1/2	2,168.33	1/2	2,471.73	1/2	2,775.13
3/4	56.36	3/4	356.03	3/4	659.42	3/4	962.65	3/4	1,266.05	3/4	1,567.86	3/4	1,871.26	3/4	2,174.65	3/4	2,478.05	3/4	2,781.45
2	61.87	2	362.35	2	665.74	2	968.97	2	1,272.37	2	1,574.18	2	1,877.58	2	2,180.98	2	2,484.37	2	2,787.77
1/4	67.99	1/4	368.67	1/4	672.06	1/4	975.29	1/4	1,278.69	1/4	1,580.50	1/4	1,883.90	1/4	2,187.30	1/4	2,490.69	1/4	2,794.09
1/2	74.11	1/2	374.99	1/2	678.38	1/2	981.61	1/2	1,285.01	1/2	1,586.82	1/2	1,890.22	1/2	2,193.62	1/2	2,497.02	1/2	2,800.41
3/4	80.23	3/4	381.31	3/4	684.70	3/4	987.93	3/4	1,291.33	3/4	1,593.14	3/4	1,896.54	3/4	2,199.94	3/4	2,503.34	3/4	2,806.73
3	86.34	3	387.63	3	691.02	3	994.25	3	1,297.65	3	1,599.46	3	1,902.86	3	2,206.26	3	2,509.66	3	2,813.06
1/4	92.48	1/4	393.95	1/4	697.34	1/4	1,000.57	1/4	1,303.97	1/4	1,605.78	1/4	1,909.18	1/4	2,212.58	1/4	2,515.98	1/4	2,819.38
1/2	98.62	1/2	400.27	1/2	703.65	1/2	1,007.89	1/2	1,310.29	1/2	1,612.10	1/2	1,915.50	1/2	2,218.90	1/2	2,522.30	1/2	2,825.70
3/4	104.76	3/4	406.59	3/4	709.97	3/4	1,013.21	3/4	1,316.61	3/4	1,618.42	3/4	1,921.82	3/4	2,225.22	3/4	2,528.62	3/4	2,832.02
4	110.90	4	412.91	4	716.28	4	1,019.54	4	1,322.93	4	1,624.74	4	1,928.14	4	2,231.54	4	2,534.94	4	2,838.34
1/4	117.05	1/4	419.23	1/4	722.60	1/4	1,025.86	1/4	1,329.25	1/4	1,631.07	1/4	1,934.46	1/4	2,237.86	1/4	2,541.26	1/4	2,844.66
1/2	123.20	1/2	425.55	1/2	728.91	1/2	1,032.18	1/2	1,335.58	1/2	1,637.39	1/2	1,940.78	1/2	2,244.18	1/2	2,547.58	1/2	2,850.98
3/4	129.34	3/4	431.88	3/4	735.23	3/4	1,038.50	3/4	1,341.90	3/4	1,643.71	3/4	1,947.11	3/4	2,250.50	3/4	2,553.90	3/4	2,857.30
5	135.49	5	438.20	5	741.54	5	1,044.82	5	1,348.22	5	1,650.03	5	1,953.43	5	2,256.82	5	2,560.22	5	2,863.62
1/4	141.64	1/4	444.52	1/4	747.86	1/4	1,051.14	1/4	1,354.54	1/4	1,656.35	1/4	1,959.75	1/4	2,263.15	1/4	2,566.54	1/4	2,869.94
1/2	147.79	1/2	450.84	1/2	754.18	1/2	1,057.46	1/2	1,360.86	1/2	1,662.67	1/2	1,966.07	1/2	2,269.47	1/2	2,572.86	1/2	2,876.26
3/4	153.94	3/4	457.16	3/4	760.49	3/4	1,063.78	3/4	1,367.18	3/4	1,668.99	3/4	1,972.39	3/4	2,275.79	3/4	2,579.19	3/4	2,882.58
6	160.09	6	463.48	6	766.81	6	1,070.10	6	1,373.50	6	1,675.31	6	1,978.71	6	2,282.11	6	2,585.51	6	2,888.90
1/4	166.41	1/4	469.80	1/4	773.12	1/4	1,076.42	1/4	1,379.82	1/4	1,681.63	1/4	1,985.03	1/4	2,288.43	1/4	2,591.83	1/4	2,895.23
1/2	172.73	1/2	476.12	1/2	779.44	1/2	1,082.74	1/2	1,386.14	1/2	1,687.95	1/2	1,991.35	1/2	2,294.75	1/2	2,598.15	1/2	2,901.55
3/4	179.05	3/4	482.44	3/4	785.75	3/4	1,089.06	3/4	1,392.46	3/4	1,694.27	3/4	1,997.67	3/4	2,301.07	3/4	2,604.47	3/4	2,907.87
7	185.37	7	488.76	7	792.07	7	1,095.38	7	1,398.78	7	1,700.59	7	2,003.99	7	2,307.39	7	2,610.79	7	2,914.19
1/4	191.69	1/4	495.08	1/4	798.39	1/4	1,101.71	1/4	1,405.00	1/4	1,706.92	1/4	2,010.31	1/4	2,313.71	1/4	2,617.11	1/4	2,920.51
1/2	198.01	1/2	501.40	1/2	804.70	1/2	1,108.03	1/2	1,411.23	1/2	1,713.24	1/2	2,016.63	1/2	2,320.03	1/2	2,623.43	1/2	2,926.83
3/4	204.33	3/4	507.72	3/4	811.02	3/4	1,114.35	3/4	1,417.45	3/4	1,719.56	3/4	2,022.96	3/4	2,326.35	3/4	2,629.75	3/4	2,933.15
8	210.65	8	514.04	8	817.33	8	1,120.67	8	1,423.67	8	1,725.88	8	2,029.28	8	2,332.67	8	2,636.07	8	2,939.47
1/4	216.97	1/4	520.36	1/4	823.65	1/4	1,126.99	1/4	1,429.89	1/4	1,732.20	1/4	2,035.60	1/4	2,339.00	1/4	2,642.39	1/4	2,945.79
1/2	223.30	1/2	526.68	1/2	829.96	1/2	1,133.31	1/2	1,436.11	1/2	1,738.52	1/2	2,041.92	1/2	2,345.32	1/2	2,648.71	1/2	2,952.11
3/4	229.62	3/4	533.00	3/4	836.28	3/4	1,139.63	3/4	1,442.33	3/4	1,744.84	3/4	2,048.24	3/4	2,351.64	3/4	2,655.04	3/4	2,958.43
9	235.94	9	539.33	9	842.59	9	1,145.95	9	1,448.56	9	1,751.16	9	2,054.56	9	2,357.96	9	2,661.36	9	2,964.75
1/4	242.26	1/4	545.65	1/4	848.91	1/4	1,152.27	1/4	1,454.78	1/4	1,757.48	1/4	2,060.88	1/4	2,364.28	1/4	2,667.68	1/4	2,971.08
1/2	248.58	1/2	551.97	1/2	855.23	1/2	1,158.59	1/2	1,461.00	1/2	1,763.80	1/2	2,067.20	1/2	2,370.60	1/2	2,674.00	1/2	2,977.40
3/4	254.90	3/4	558.29	3/4	861.54	3/4	1,164.91	3/4	1,467.22	3/4	1,770.12	3/4	2,073.52	3/4	2,376.92	3/4	2,680.32	3/4	2,983.72
10	261.22	10	564.61	10	867.86	10	1,171.23	10	1,473.44	10	1,776.44	10	2,079.84	10	2,383.24	10	2,686.64	10	2,990.04
1/4	267.54	1/4	570.93	1/4	874.17	1/4	1,177.56	1/4	1,479.66	1/4	1,782.76	1/4	2,086.16	1/4	2,389.56	1/4	2,692.96	1/4	2,996.36
1/2	273.86	1/2	577.25	1/2	880.49	1/2	1,183.88	1/2	1,485.89	1/2	1,789.09	1/2	2,092.48	1/2	2,395.88	1/2	2,699.28	1/2	3,002.68
3/4	280.18	3/4	583.57	3/4	886.80	3/4	1,190.20	3/4	1,492.11	3/4	1,795.41	3/4	2,098.80	3/4	2,402.20	3/4	2,705.60	3/4	3,009.00
11	286.50	11	589.89	11	893.12	11	1,196.52	11	1,498.33	11	1,801.73	11	2,105.13	11	2,408.52	11	2,711.92	11	3,015.32
1/4	292.82	1/4	596.21	1/4	899.44	1/4	1,202.84	1/4	1,504.65	1/4	1,808.05	1/4	2,111.45	1/4	2,414.84	1/4	2,718.24	1/4	3,021.64
1/2	299.14	1/2	602.53	1/2	905.76	1/2	1,209.16	1/2	1,510.97	1/2	1,814.37	1/2	2,117.77	1/2	2,421.17	1/2	2,724.56	1/2	3,027.96
3/4	305.46	3/4	608.85	3/4	912.08	3/4	1,215.48	3/4	1,517.29	3/4	1,820.69	3/4	2,124.09	3/4	2,427.49	3/4	2,730.88	3/4	3,034.28

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.  
 GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.  
 GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

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





# BARGE "MM 312"

## 2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,040.60	0	3,344.00	0	3,647.38	0	3,950.77	0	4,252.60	0		0		0		0		0	
1/4	3,046.92	1/4	3,350.32	1/4	3,653.70	1/4	3,957.09	1/4	4,258.83	1/4		1/4		1/4		1/4		1/4	
1/2	3,053.25	1/2	3,356.64	1/2	3,660.02	1/2	3,963.41	1/2	4,265.06	1/2		1/2		1/2		1/2		1/2	
3/4	3,059.57	3/4	3,362.96	3/4	3,666.35	3/4	3,969.73	3/4	4,271.29	3/4		3/4		3/4		3/4		3/4	
1	3,065.89	1	3,369.28	1	3,672.67	1	3,976.05	1	4,277.51	1		1		1		1		1	
1/4	3,072.21	1/4	3,375.60	1/4	3,678.99	1/4	3,982.37	1/4	4,283.14	1/4		1/4		1/4		1/4		1/4	
1/2	3,078.53	1/2	3,381.92	1/2	3,685.31	1/2	3,988.69	1/2	4,288.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,084.85	3/4	3,388.24	3/4	3,691.63	3/4	3,995.01	3/4	4,294.39	3/4		3/4		3/4		3/4		3/4	
2	3,091.17	2	3,394.56	2	3,697.95	2	4,001.33	2	4,300.01	2		2		2		2		2	
1/4	3,097.49	1/4	3,400.88	1/4	3,704.27	1/4	4,007.65	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,103.81	1/2	3,407.20	1/2	3,710.59	1/2	4,013.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,110.13	3/4	3,413.53	3/4	3,716.91	3/4	4,020.29	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,116.45	3	3,419.85	3	3,723.23	3	4,026.61	3		3		3		3		3		3	
1/4	3,122.77	1/4	3,426.17	1/4	3,729.55	1/4	4,032.93	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,129.10	1/2	3,432.49	1/2	3,735.87	1/2	4,039.25	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,135.42	3/4	3,438.81	3/4	3,742.19	3/4	4,045.58	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,141.74	4	3,445.13	4	3,748.51	4	4,051.90	4		4		4		4		4		4	
1/4	3,148.06	1/4	3,451.45	1/4	3,754.83	1/4	4,058.22	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,154.38	1/2	3,457.77	1/2	3,761.15	1/2	4,064.54	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,160.70	3/4	3,464.09	3/4	3,767.47	3/4	4,070.86	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,167.02	5	3,470.41	5	3,773.79	5	4,077.18	5		5		5		5		5		5	
1/4	3,173.34	1/4	3,476.73	1/4	3,780.11	1/4	4,083.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,179.66	1/2	3,483.05	1/2	3,786.43	1/2	4,089.82	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,185.98	3/4	3,489.37	3/4	3,792.76	3/4	4,096.14	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,192.30	6	3,495.69	6	3,799.08	6	4,102.46	6		6		6		6		6		6	
1/4	3,198.62	1/4	3,502.01	1/4	3,805.40	1/4	4,108.72	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,204.94	1/2	3,508.33	1/2	3,811.72	1/2	4,114.98	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,211.27	3/4	3,514.65	3/4	3,818.04	3/4	4,121.23	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,217.59	7	3,520.97	7	3,824.36	7	4,127.49	7		7		7		7		7		7	
1/4	3,223.91	1/4	3,527.29	1/4	3,830.68	1/4	4,133.75	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,230.23	1/2	3,533.61	1/2	3,837.00	1/2	4,140.01	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,236.55	3/4	3,539.94	3/4	3,843.32	3/4	4,146.26	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,242.87	8	3,546.26	8	3,849.64	8	4,152.52	8		8		8		8		8		8	
1/4	3,249.19	1/4	3,552.58	1/4	3,855.96	1/4	4,158.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,255.51	1/2	3,558.90	1/2	3,862.28	1/2	4,165.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,261.83	3/4	3,565.22	3/4	3,868.60	3/4	4,171.29	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,268.15	9	3,571.54	9	3,874.92	9	4,177.55	9		9		9		9		9		9	
1/4	3,274.47	1/4	3,577.86	1/4	3,881.24	1/4	4,183.81	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,280.79	1/2	3,584.18	1/2	3,887.56	1/2	4,190.07	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,287.12	3/4	3,590.50	3/4	3,893.88	3/4	4,196.32	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,293.44	10	3,596.82	10	3,900.20	10	4,202.58	10		10		10		10		10		10	
1/4	3,299.76	1/4	3,603.14	1/4	3,906.52	1/4	4,208.84	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,306.08	1/2	3,609.46	1/2	3,912.84	1/2	4,215.09	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,312.40	3/4	3,615.78	3/4	3,919.17	3/4	4,221.35	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,318.72	11	3,622.10	11	3,925.49	11	4,227.61	11		11		11		11		11		11	
1/4	3,325.04	1/4	3,628.42	1/4	3,931.81	1/4	4,233.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,331.36	1/2	3,634.74	1/2	3,938.13	1/2	4,240.10	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,337.68	3/4	3,641.06	3/4	3,944.45	3/4	4,246.35	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/29/2015 CL  
CALCULATED: 04/30/2015 CL  
PRINTED: 05/01/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2015

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



# BARGE "MM 312"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22.81	0	311.96	0	615.53	0	908.89	0	1,209.12	0	1,511.10	0	1,814.67	0	2,118.24	0	2,421.81	0	2,725.39
1/4	27.07	1/4	318.29	1/4	621.85	1/4	914.93	1/4	1,215.44	1/4	1,517.43	1/4	1,821.00	1/4	2,124.57	1/4	2,428.14	1/4	2,731.71
1/2	31.32	1/2	324.61	1/2	628.17	1/2	920.98	1/2	1,221.76	1/2	1,523.75	1/2	1,827.32	1/2	2,130.89	1/2	2,434.46	1/2	2,738.03
3/4	35.58	3/4	330.94	3/4	634.50	3/4	927.03	3/4	1,228.09	3/4	1,530.07	3/4	1,833.65	3/4	2,137.22	3/4	2,440.79	3/4	2,744.36
1	39.84	1	337.26	1	640.82	1	933.07	1	1,234.41	1	1,536.40	1	1,839.97	1	2,143.54	1	2,447.11	1	2,750.68
1/4	45.35	1/4	343.58	1/4	647.15	1/4	939.12	1/4	1,240.74	1/4	1,542.72	1/4	1,846.29	1/4	2,149.87	1/4	2,453.44	1/4	2,757.01
1/2	50.87	1/2	349.91	1/2	653.47	1/2	945.16	1/2	1,247.06	1/2	1,549.05	1/2	1,852.62	1/2	2,156.19	1/2	2,459.76	1/2	2,763.33
3/4	56.39	3/4	356.23	3/4	659.79	3/4	951.21	3/4	1,253.39	3/4	1,555.37	3/4	1,858.94	3/4	2,162.51	3/4	2,466.09	3/4	2,769.66
2	61.91	2	362.56	2	666.12	2	957.25	2	1,259.71	2	1,561.70	2	1,865.27	2	2,168.84	2	2,472.41	2	2,775.98
1/4	68.03	1/4	368.88	1/4	672.44	1/4	963.30	1/4	1,266.03	1/4	1,568.02	1/4	1,871.59	1/4	2,175.16	1/4	2,478.73	1/4	2,782.30
1/2	74.15	1/2	375.21	1/2	678.77	1/2	969.35	1/2	1,272.36	1/2	1,574.34	1/2	1,877.92	1/2	2,181.49	1/2	2,485.06	1/2	2,788.63
3/4	80.27	3/4	381.53	3/4	685.09	3/4	975.39	3/4	1,278.68	3/4	1,580.67	3/4	1,884.24	3/4	2,187.81	3/4	2,491.38	3/4	2,794.95
3	86.39	3	387.85	3	691.42	3	981.44	3	1,285.01	3	1,586.99	3	1,890.56	3	2,194.14	3	2,497.71	3	2,801.28
1/4	92.54	1/4	394.18	1/4	697.46	1/4	987.76	1/4	1,291.33	1/4	1,593.32	1/4	1,896.89	1/4	2,200.46	1/4	2,504.03	1/4	2,807.60
1/2	98.68	1/2	400.50	1/2	703.50	1/2	994.09	1/2	1,297.66	1/2	1,599.64	1/2	1,903.21	1/2	2,206.78	1/2	2,510.36	1/2	2,813.93
3/4	104.82	3/4	406.83	3/4	709.54	3/4	1,000.41	3/4	1,303.98	3/4	1,605.97	3/4	1,909.54	3/4	2,213.11	3/4	2,516.68	3/4	2,820.25
4	110.97	4	413.15	4	715.58	4	1,006.73	4	1,310.31	4	1,612.29	4	1,915.86	4	2,219.43	4	2,523.00	4	2,826.58
1/4	117.12	1/4	419.48	1/4	721.62	1/4	1,013.06	1/4	1,316.63	1/4	1,618.62	1/4	1,922.19	1/4	2,225.76	1/4	2,529.33	1/4	2,832.90
1/2	123.27	1/2	425.80	1/2	727.66	1/2	1,019.38	1/2	1,322.95	1/2	1,624.94	1/2	1,928.51	1/2	2,232.08	1/2	2,535.65	1/2	2,839.22
3/4	129.42	3/4	432.12	3/4	733.70	3/4	1,025.71	3/4	1,329.28	3/4	1,631.26	3/4	1,934.84	3/4	2,238.41	3/4	2,541.98	3/4	2,845.55
5	135.57	5	438.45	5	739.74	5	1,032.03	5	1,335.60	5	1,637.59	5	1,941.16	5	2,244.73	5	2,548.30	5	2,851.87
1/4	141.72	1/4	444.77	1/4	745.78	1/4	1,038.36	1/4	1,341.93	1/4	1,643.91	1/4	1,947.48	1/4	2,251.06	1/4	2,554.63	1/4	2,858.20
1/2	147.88	1/2	451.10	1/2	751.82	1/2	1,044.68	1/2	1,348.25	1/2	1,650.24	1/2	1,953.81	1/2	2,257.38	1/2	2,560.95	1/2	2,864.52
3/4	154.03	3/4	457.42	3/4	757.86	3/4	1,051.01	3/4	1,354.58	3/4	1,656.56	3/4	1,960.13	3/4	2,263.70	3/4	2,567.28	3/4	2,870.85
6	160.18	6	463.74	6	763.90	6	1,057.33	6	1,360.90	6	1,662.89	6	1,966.46	6	2,270.03	6	2,573.60	6	2,877.17
1/4	166.51	1/4	470.07	1/4	769.94	1/4	1,063.65	1/4	1,367.23	1/4	1,669.21	1/4	1,972.78	1/4	2,276.35	1/4	2,579.92	1/4	2,883.50
1/2	172.83	1/2	476.39	1/2	775.98	1/2	1,069.98	1/2	1,373.55	1/2	1,675.54	1/2	1,979.11	1/2	2,282.68	1/2	2,586.25	1/2	2,889.82
3/4	179.16	3/4	482.72	3/4	782.02	3/4	1,076.30	3/4	1,379.87	3/4	1,681.86	3/4	1,985.43	3/4	2,289.00	3/4	2,592.57	3/4	2,896.14
7	185.48	7	489.04	7	788.06	7	1,082.63	7	1,386.20	7	1,688.18	7	1,991.76	7	2,295.33	7	2,598.90	7	2,902.47
1/4	191.80	1/4	495.37	1/4	794.10	1/4	1,088.95	1/4	1,392.42	1/4	1,694.51	1/4	1,998.08	1/4	2,301.65	1/4	2,605.22	1/4	2,908.79
1/2	198.13	1/2	501.69	1/2	800.14	1/2	1,095.28	1/2	1,398.65	1/2	1,700.83	1/2	2,004.40	1/2	2,307.98	1/2	2,611.55	1/2	2,915.12
3/4	204.45	3/4	508.01	3/4	806.18	3/4	1,101.60	3/4	1,404.87	3/4	1,707.16	3/4	2,010.73	3/4	2,314.30	3/4	2,617.87	3/4	2,921.44
8	210.78	8	514.34	8	812.22	8	1,107.92	8	1,411.10	8	1,713.48	8	2,017.05	8	2,320.62	8	2,624.19	8	2,927.77
1/4	217.10	1/4	520.66	1/4	818.26	1/4	1,114.25	1/4	1,417.32	1/4	1,719.81	1/4	2,023.38	1/4	2,326.95	1/4	2,630.52	1/4	2,934.09
1/2	223.43	1/2	526.99	1/2	824.30	1/2	1,120.57	1/2	1,423.55	1/2	1,726.13	1/2	2,029.70	1/2	2,333.27	1/2	2,636.84	1/2	2,940.41
3/4	229.75	3/4	533.31	3/4	830.34	3/4	1,126.90	3/4	1,429.78	3/4	1,732.45	3/4	2,036.03	3/4	2,339.60	3/4	2,643.17	3/4	2,946.74
9	236.07	9	539.64	9	836.38	9	1,133.22	9	1,436.00	9	1,738.78	9	2,042.35	9	2,345.92	9	2,649.49	9	2,953.06
1/4	242.40	1/4	545.96	1/4	842.42	1/4	1,139.55	1/4	1,442.23	1/4	1,745.10	1/4	2,048.67	1/4	2,352.25	1/4	2,655.82	1/4	2,959.39
1/2	248.72	1/2	552.28	1/2	848.46	1/2	1,145.87	1/2	1,448.45	1/2	1,751.43	1/2	2,055.00	1/2	2,358.57	1/2	2,662.14	1/2	2,965.71
3/4	255.05	3/4	558.61	3/4	854.50	3/4	1,152.20	3/4	1,454.68	3/4	1,757.75	3/4	2,061.32	3/4	2,364.89	3/4	2,668.47	3/4	2,972.04
10	261.37	10	564.93	10	860.54	10	1,158.52	10	1,460.90	10	1,764.08	10	2,067.65	10	2,371.22	10	2,674.79	10	2,978.36
1/4	267.69	1/4	571.26	1/4	866.58	1/4	1,164.84	1/4	1,467.13	1/4	1,770.40	1/4	2,073.97	1/4	2,377.54	1/4	2,681.11	1/4	2,984.69
1/2	274.02	1/2	577.58	1/2	872.62	1/2	1,171.17	1/2	1,473.35	1/2	1,776.73	1/2	2,080.30	1/2	2,383.87	1/2	2,687.44	1/2	2,991.01
3/4	280.34	3/4	583.90	3/4	878.67	3/4	1,177.49	3/4	1,479.58	3/4	1,783.05	3/4	2,086.62	3/4	2,390.19	3/4	2,693.76	3/4	2,997.33
11	286.67	11	590.23	11	884.71	11	1,183.82	11	1,485.80	11	1,789.37	11	2,092.95	11	2,396.52	11	2,700.09	11	3,003.66
1/4	292.99	1/4	596.55	1/4	890.75	1/4	1,190.14	1/4	1,492.13	1/4	1,795.70	1/4	2,099.27	1/4	2,402.84	1/4	2,706.41	1/4	3,009.98
1/2	299.32	1/2	602.88	1/2	896.80	1/2	1,196.47	1/2	1,498.45	1/2	1,802.02	1/2	2,105.59	1/2	2,409.17	1/2	2,712.74	1/2	3,016.31
3/4	305.64	3/4	609.20	3/4	902.84	3/4	1,202.79	3/4	1,504.78	3/4	1,808.35	3/4	2,111.92	3/4	2,415.49	3/4	2,719.06	3/4	3,022.63

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "MM 312"

## 3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,028.96	0	3,332.53	0	3,636.09	0	3,939.65	0	4,241.66	0		0		0		0		0	
1/4	3,035.28	1/4	3,338.85	1/4	3,642.41	1/4	3,945.97	1/4	4,247.89	1/4		1/4		1/4		1/4		1/4	
1/2	3,041.61	1/2	3,345.17	1/2	3,648.74	1/2	3,952.30	1/2	4,254.13	1/2		1/2		1/2		1/2		1/2	
3/4	3,047.93	3/4	3,351.50	3/4	3,655.06	3/4	3,958.62	3/4	4,260.36	3/4		3/4		3/4		3/4		3/4	
1	3,054.25	1	3,357.82	1	3,661.38	1	3,964.95	1	4,266.59	1		1		1		1		1	
1/4	3,060.58	1/4	3,364.15	1/4	3,667.71	1/4	3,971.27	1/4	4,272.22	1/4		1/4		1/4		1/4		1/4	
1/2	3,066.90	1/2	3,370.47	1/2	3,674.03	1/2	3,977.59	1/2	4,277.84	1/2		1/2		1/2		1/2		1/2	
3/4	3,073.23	3/4	3,376.80	3/4	3,680.36	3/4	3,983.92	3/4	4,283.47	3/4		3/4		3/4		3/4		3/4	
2	3,079.55	2	3,383.12	2	3,686.68	2	3,990.24	2	4,289.10	2		2		2		2		2	
1/4	3,085.88	1/4	3,389.44	1/4	3,693.01	1/4	3,996.57	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,092.20	1/2	3,395.77	1/2	3,699.33	1/2	4,002.89	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,098.52	3/4	3,402.09	3/4	3,705.65	3/4	4,009.22	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,104.85	3	3,408.42	3	3,711.98	3	4,015.54	3		3		3		3		3		3	
1/4	3,111.17	1/4	3,414.74	1/4	3,718.30	1/4	4,021.86	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,117.50	1/2	3,421.06	1/2	3,724.63	1/2	4,028.19	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,123.82	3/4	3,427.39	3/4	3,730.95	3/4	4,034.51	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,130.15	4	3,433.71	4	3,737.27	4	4,040.84	4		4		4		4		4		4	
1/4	3,136.47	1/4	3,440.04	1/4	3,743.60	1/4	4,047.16	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,142.80	1/2	3,446.36	1/2	3,749.92	1/2	4,053.48	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,149.12	3/4	3,452.69	3/4	3,756.25	3/4	4,059.81	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,155.44	5	3,459.01	5	3,762.57	5	4,066.13	5		5		5		5		5		5	
1/4	3,161.77	1/4	3,465.33	1/4	3,768.90	1/4	4,072.46	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,168.09	1/2	3,471.66	1/2	3,775.22	1/2	4,078.78	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,174.42	3/4	3,477.98	3/4	3,781.54	3/4	4,085.11	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,180.74	6	3,484.31	6	3,787.87	6	4,091.43	6		6		6		6		6		6	
1/4	3,187.07	1/4	3,490.63	1/4	3,794.19	1/4	4,097.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,193.39	1/2	3,496.96	1/2	3,800.52	1/2	4,103.95	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,199.72	3/4	3,503.28	3/4	3,806.84	3/4	4,110.21	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,206.04	7	3,509.60	7	3,813.17	7	4,116.47	7		7		7		7		7		7	
1/4	3,212.36	1/4	3,515.93	1/4	3,819.49	1/4	4,122.74	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,218.69	1/2	3,522.25	1/2	3,825.81	1/2	4,129.00	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,225.01	3/4	3,528.58	3/4	3,832.14	3/4	4,135.26	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,231.34	8	3,534.90	8	3,838.46	8	4,141.52	8		8		8		8		8		8	
1/4	3,237.66	1/4	3,541.22	1/4	3,844.79	1/4	4,147.78	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,243.99	1/2	3,547.55	1/2	3,851.11	1/2	4,154.04	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,250.31	3/4	3,553.87	3/4	3,857.43	3/4	4,160.30	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,256.63	9	3,560.20	9	3,863.76	9	4,166.56	9		9		9		9		9		9	
1/4	3,262.96	1/4	3,566.52	1/4	3,870.08	1/4	4,172.82	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,269.28	1/2	3,572.85	1/2	3,876.41	1/2	4,179.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,275.61	3/4	3,579.17	3/4	3,882.73	3/4	4,185.35	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,281.93	10	3,585.49	10	3,889.06	10	4,191.61	10		10		10		10		10		10	
1/4	3,288.26	1/4	3,591.82	1/4	3,895.38	1/4	4,197.87	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,294.58	1/2	3,598.14	1/2	3,901.70	1/2	4,204.13	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,300.91	3/4	3,604.47	3/4	3,908.03	3/4	4,210.39	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,307.23	11	3,610.79	11	3,914.35	11	4,216.65	11		11		11		11		11		11	
1/4	3,313.55	1/4	3,617.12	1/4	3,920.68	1/4	4,222.90	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,319.88	1/2	3,623.44	1/2	3,927.00	1/2	4,229.16	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,326.20	3/4	3,629.76	3/4	3,933.33	3/4	4,235.41	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/29/2015 CL  
CALCULATED: 04/30/2015 CL  
PRINTED: 05/01/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2015

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



# BARGE "MM 312"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	22.82	0	312.05	0	615.70	0	919.19	0	1,222.85	0	1,524.92	0	1,828.58	0	2,132.24	0	2,435.91	0	2,739.57
1/4	27.08	1/4	318.38	1/4	622.02	1/4	925.52	1/4	1,229.17	1/4	1,531.25	1/4	1,834.91	1/4	2,138.57	1/4	2,442.23	1/4	2,745.89
1/2	31.33	1/2	324.70	1/2	628.35	1/2	931.84	1/2	1,235.50	1/2	1,537.57	1/2	1,841.23	1/2	2,144.90	1/2	2,448.56	1/2	2,752.22
3/4	35.59	3/4	331.03	3/4	634.68	3/4	938.17	3/4	1,241.83	3/4	1,543.90	3/4	1,847.56	3/4	2,151.22	3/4	2,454.88	3/4	2,758.55
1	39.85	1	337.35	1	641.00	1	944.50	1	1,248.15	1	1,550.22	1	1,853.89	1	2,157.55	1	2,461.21	1	2,764.87
1/4	45.37	1/4	343.68	1/4	647.33	1/4	950.82	1/4	1,254.48	1/4	1,556.55	1/4	1,860.21	1/4	2,163.88	1/4	2,467.54	1/4	2,771.20
1/2	50.89	1/2	350.01	1/2	653.65	1/2	957.15	1/2	1,260.81	1/2	1,562.88	1/2	1,866.54	1/2	2,170.20	1/2	2,473.86	1/2	2,777.53
3/4	56.41	3/4	356.33	3/4	659.98	3/4	963.47	3/4	1,267.13	3/4	1,569.20	3/4	1,872.87	3/4	2,176.53	3/4	2,480.19	3/4	2,783.85
2	61.93	2	362.66	2	666.31	2	969.80	2	1,273.46	2	1,575.53	2	1,879.19	2	2,182.85	2	2,486.52	2	2,790.18
1/4	68.05	1/4	368.98	1/4	672.63	1/4	976.13	1/4	1,279.78	1/4	1,581.86	1/4	1,885.52	1/4	2,189.18	1/4	2,492.84	1/4	2,796.51
1/2	74.17	1/2	375.31	1/2	678.96	1/2	982.45	1/2	1,286.11	1/2	1,588.18	1/2	1,891.84	1/2	2,195.51	1/2	2,499.17	1/2	2,802.83
3/4	80.29	3/4	381.64	3/4	685.28	3/4	988.78	3/4	1,292.44	3/4	1,594.51	3/4	1,898.17	3/4	2,201.83	3/4	2,505.50	3/4	2,809.16
3	86.42	3	387.96	3	691.61	3	995.10	3	1,298.76	3	1,600.83	3	1,904.50	3	2,208.16	3	2,511.82	3	2,815.48
1/4	92.56	1/4	394.29	1/4	697.93	1/4	1,001.43	1/4	1,305.09	1/4	1,607.16	1/4	1,910.82	1/4	2,214.49	1/4	2,518.15	1/4	2,821.81
1/2	98.71	1/2	400.61	1/2	704.25	1/2	1,007.76	1/2	1,311.41	1/2	1,613.49	1/2	1,917.15	1/2	2,220.81	1/2	2,524.47	1/2	2,828.14
3/4	104.85	3/4	406.94	3/4	710.57	3/4	1,014.08	3/4	1,317.74	3/4	1,619.81	3/4	1,923.48	3/4	2,227.14	3/4	2,530.80	3/4	2,834.46
4	111.00	4	413.27	4	716.89	4	1,020.41	4	1,324.07	4	1,626.14	4	1,929.80	4	2,233.46	4	2,537.13	4	2,840.79
1/4	117.15	1/4	419.59	1/4	723.22	1/4	1,026.74	1/4	1,330.39	1/4	1,632.47	1/4	1,936.13	1/4	2,239.79	1/4	2,543.45	1/4	2,847.12
1/2	123.30	1/2	425.92	1/2	729.54	1/2	1,033.06	1/2	1,336.72	1/2	1,638.79	1/2	1,942.45	1/2	2,246.12	1/2	2,549.78	1/2	2,853.44
3/4	129.45	3/4	432.24	3/4	735.86	3/4	1,039.39	3/4	1,343.05	3/4	1,645.12	3/4	1,948.78	3/4	2,252.44	3/4	2,556.11	3/4	2,859.77
5	135.61	5	438.57	5	742.18	5	1,045.71	5	1,349.37	5	1,651.44	5	1,955.11	5	2,258.77	5	2,562.43	5	2,866.09
1/4	141.76	1/4	444.90	1/4	748.50	1/4	1,052.04	1/4	1,355.70	1/4	1,657.77	1/4	1,961.43	1/4	2,265.10	1/4	2,568.76	1/4	2,872.42
1/2	147.92	1/2	451.22	1/2	754.82	1/2	1,058.37	1/2	1,362.02	1/2	1,664.10	1/2	1,967.76	1/2	2,271.42	1/2	2,575.08	1/2	2,878.75
3/4	154.07	3/4	457.55	3/4	761.14	3/4	1,064.69	3/4	1,368.35	3/4	1,670.42	3/4	1,974.09	3/4	2,277.75	3/4	2,581.41	3/4	2,885.07
6	160.23	6	463.87	6	767.46	6	1,071.02	6	1,374.68	6	1,676.75	6	1,980.41	6	2,284.07	6	2,587.74	6	2,891.40
1/4	166.55	1/4	470.20	1/4	773.78	1/4	1,077.35	1/4	1,381.00	1/4	1,683.08	1/4	1,986.74	1/4	2,290.40	1/4	2,594.06	1/4	2,897.73
1/2	172.88	1/2	476.53	1/2	780.11	1/2	1,083.67	1/2	1,387.33	1/2	1,689.40	1/2	1,993.06	1/2	2,296.73	1/2	2,600.39	1/2	2,904.05
3/4	179.20	3/4	482.85	3/4	786.43	3/4	1,090.00	3/4	1,393.66	3/4	1,695.73	3/4	1,999.39	3/4	2,303.05	3/4	2,606.72	3/4	2,910.38
7	185.53	7	489.18	7	792.75	7	1,096.32	7	1,399.98	7	1,702.06	7	2,005.72	7	2,309.38	7	2,613.04	7	2,916.70
1/4	191.86	1/4	495.50	1/4	799.07	1/4	1,102.65	1/4	1,406.21	1/4	1,708.38	1/4	2,012.04	1/4	2,315.71	1/4	2,619.37	1/4	2,923.03
1/2	198.18	1/2	501.83	1/2	805.39	1/2	1,108.98	1/2	1,412.44	1/2	1,714.71	1/2	2,018.37	1/2	2,322.03	1/2	2,625.69	1/2	2,929.36
3/4	204.51	3/4	508.16	3/4	811.71	3/4	1,115.30	3/4	1,418.66	3/4	1,721.03	3/4	2,024.70	3/4	2,328.36	3/4	2,632.02	3/4	2,935.68
8	210.83	8	514.48	8	818.03	8	1,121.63	8	1,424.89	8	1,727.36	8	2,031.02	8	2,334.69	8	2,638.35	8	2,942.01
1/4	217.16	1/4	520.81	1/4	824.35	1/4	1,127.95	1/4	1,431.12	1/4	1,733.69	1/4	2,037.35	1/4	2,341.01	1/4	2,644.67	1/4	2,948.34
1/2	223.49	1/2	527.13	1/2	830.67	1/2	1,134.28	1/2	1,437.34	1/2	1,740.01	1/2	2,043.68	1/2	2,347.34	1/2	2,651.00	1/2	2,954.66
3/4	229.81	3/4	533.46	3/4	837.00	3/4	1,140.61	3/4	1,443.57	3/4	1,746.34	3/4	2,050.00	3/4	2,353.66	3/4	2,657.33	3/4	2,960.99
9	236.14	9	539.79	9	843.32	9	1,146.93	9	1,449.80	9	1,752.67	9	2,056.33	9	2,359.99	9	2,663.65	9	2,967.32
1/4	242.46	1/4	546.11	1/4	849.64	1/4	1,153.26	1/4	1,456.02	1/4	1,758.99	1/4	2,062.65	1/4	2,366.32	1/4	2,669.98	1/4	2,973.64
1/2	248.79	1/2	552.44	1/2	855.96	1/2	1,159.59	1/2	1,462.25	1/2	1,765.32	1/2	2,068.98	1/2	2,372.64	1/2	2,676.31	1/2	2,979.97
3/4	255.12	3/4	558.76	3/4	862.28	3/4	1,165.91	3/4	1,468.48	3/4	1,771.64	3/4	2,075.31	3/4	2,378.97	3/4	2,682.63	3/4	2,986.29
10	261.44	10	565.09	10	868.60	10	1,172.24	10	1,474.71	10	1,777.97	10	2,081.63	10	2,385.30	10	2,688.96	10	2,992.62
1/4	267.77	1/4	571.42	1/4	874.92	1/4	1,178.56	1/4	1,480.93	1/4	1,784.30	1/4	2,087.96	1/4	2,391.62	1/4	2,695.28	1/4	2,998.95
1/2	274.09	1/2	577.74	1/2	881.24	1/2	1,184.89	1/2	1,487.16	1/2	1,790.62	1/2	2,094.29	1/2	2,397.95	1/2	2,701.61	1/2	3,005.27
3/4	280.42	3/4	584.07	3/4	887.56	3/4	1,191.22	3/4	1,493.39	3/4	1,796.95	3/4	2,100.61	3/4	2,404.27	3/4	2,707.94	3/4	3,011.60
11	286.75	11	590.39	11	893.89	11	1,197.54	11	1,499.61	11	1,803.28	11	2,106.94	11	2,410.60	11	2,714.26	11	3,017.93
1/4	293.07	1/4	596.72	1/4	900.21	1/4	1,203.87	1/4	1,505.94	1/4	1,809.60	1/4	2,113.26	1/4	2,416.93	1/4	2,720.59	1/4	3,024.25
1/2	299.40	1/2	603.05	1/2	906.54	1/2	1,210.20	1/2	1,512.27	1/2	1,815.93	1/2	2,119.59	1/2	2,423.25	1/2	2,726.92	1/2	3,030.58
3/4	305.72	3/4	609.37	3/4	912.86	3/4	1,216.52	3/4	1,518.59	3/4	1,822.25	3/4	2,125.92	3/4	2,429.58	3/4	2,733.24	3/4	3,036.90

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "MM 312"

## 3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,043.23	0	3,346.89	0	3,650.52	0	3,954.16	0	4,256.26	0		0		0		0		0	
1/4	3,049.56	1/4	3,353.21	1/4	3,656.85	1/4	3,960.48	1/4	4,262.49	1/4		1/4		1/4		1/4		1/4	
1/2	3,055.88	1/2	3,359.54	1/2	3,663.17	1/2	3,966.81	1/2	4,268.73	1/2		1/2		1/2		1/2		1/2	
3/4	3,062.21	3/4	3,365.87	3/4	3,669.50	3/4	3,973.13	3/4	4,274.96	3/4		3/4		3/4		3/4		3/4	
1	3,068.54	1	3,372.19	1	3,675.82	1	3,979.46	1	4,281.19	1		1		1		1		1	
1/4	3,074.86	1/4	3,378.52	1/4	3,682.15	1/4	3,985.78	1/4	4,286.82	1/4		1/4		1/4		1/4		1/4	
1/2	3,081.19	1/2	3,384.84	1/2	3,688.48	1/2	3,992.11	1/2	4,292.45	1/2		1/2		1/2		1/2		1/2	
3/4	3,087.51	3/4	3,391.17	3/4	3,694.80	3/4	3,998.44	3/4	4,298.08	3/4		3/4		3/4		3/4		3/4	
2	3,093.84	2	3,397.49	2	3,701.13	2	4,004.76	2	4,303.71	2		2		2		2		2	
1/4	3,100.17	1/4	3,403.82	1/4	3,707.45	1/4	4,011.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,106.49	1/2	3,410.15	1/2	3,713.78	1/2	4,017.41	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,112.82	3/4	3,416.47	3/4	3,720.10	3/4	4,023.74	3/4		3/4		3/4		3/4		3/4		3/4	
3	3,119.15	3	3,422.80	3	3,726.43	3	4,030.06	3		3		3		3		3		3	
1/4	3,125.47	1/4	3,429.12	1/4	3,732.76	1/4	4,036.39	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,131.80	1/2	3,435.45	1/2	3,739.08	1/2	4,042.72	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,138.13	3/4	3,441.77	3/4	3,745.41	3/4	4,049.04	3/4		3/4		3/4		3/4		3/4		3/4	
4	3,144.45	4	3,448.10	4	3,751.73	4	4,055.37	4		4		4		4		4		4	
1/4	3,150.78	1/4	3,454.43	1/4	3,758.06	1/4	4,061.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,157.10	1/2	3,460.75	1/2	3,764.38	1/2	4,068.02	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,163.43	3/4	3,467.08	3/4	3,770.71	3/4	4,074.34	3/4		3/4		3/4		3/4		3/4		3/4	
5	3,169.76	5	3,473.40	5	3,777.04	5	4,080.67	5		5		5		5		5		5	
1/4	3,176.08	1/4	3,479.73	1/4	3,783.36	1/4	4,087.00	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,182.41	1/2	3,486.05	1/2	3,789.69	1/2	4,093.32	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,188.74	3/4	3,492.38	3/4	3,796.01	3/4	4,099.65	3/4		3/4		3/4		3/4		3/4		3/4	
6	3,195.06	6	3,498.71	6	3,802.34	6	4,105.97	6		6		6		6		6		6	
1/4	3,201.39	1/4	3,505.03	1/4	3,808.66	1/4	4,112.24	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,207.71	1/2	3,511.36	1/2	3,814.99	1/2	4,118.50	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,214.04	3/4	3,517.68	3/4	3,821.32	3/4	4,124.76	3/4		3/4		3/4		3/4		3/4		3/4	
7	3,220.37	7	3,524.01	7	3,827.64	7	4,131.03	7		7		7		7		7		7	
1/4	3,226.69	1/4	3,530.33	1/4	3,833.97	1/4	4,137.29	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,233.02	1/2	3,536.66	1/2	3,840.29	1/2	4,143.55	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,239.35	3/4	3,542.99	3/4	3,846.62	3/4	4,149.82	3/4		3/4		3/4		3/4		3/4		3/4	
8	3,245.67	8	3,549.31	8	3,852.94	8	4,156.08	8		8		8		8		8		8	
1/4	3,252.00	1/4	3,555.64	1/4	3,859.27	1/4	4,162.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,258.32	1/2	3,561.96	1/2	3,865.60	1/2	4,168.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,264.65	3/4	3,568.29	3/4	3,871.92	3/4	4,174.87	3/4		3/4		3/4		3/4		3/4		3/4	
9	3,270.98	9	3,574.61	9	3,878.25	9	4,181.13	9		9		9		9		9		9	
1/4	3,277.30	1/4	3,580.94	1/4	3,884.57	1/4	4,187.40	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,283.63	1/2	3,587.26	1/2	3,890.90	1/2	4,193.66	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,289.96	3/4	3,593.59	3/4	3,897.22	3/4	4,199.92	3/4		3/4		3/4		3/4		3/4		3/4	
10	3,296.28	10	3,599.92	10	3,903.55	10	4,206.19	10		10		10		10		10		10	
1/4	3,302.61	1/4	3,606.24	1/4	3,909.88	1/4	4,212.45	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,308.93	1/2	3,612.57	1/2	3,916.20	1/2	4,218.71	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,315.26	3/4	3,618.89	3/4	3,922.53	3/4	4,224.98	3/4		3/4		3/4		3/4		3/4		3/4	
11	3,321.59	11	3,625.22	11	3,928.85	11	4,231.24	11		11		11		11		11		11	
1/4	3,327.91	1/4	3,631.54	1/4	3,935.18	1/4	4,237.50	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	3,334.24	1/2	3,637.87	1/2	3,941.50	1/2	4,243.75	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	3,340.56	3/4	3,644.20	3/4	3,947.83	3/4	4,250.01	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/29/2015 CL  
CALCULATED: 04/30/2015 CL  
PRINTED: 05/01/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2015

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



# BARGE "MM 312"

## 4 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-08 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.	IN	10 FT.
0	17.14	0	228.26	0	447.07	0	658.58	0	874.80	0	1,090.92	0	1,309.41	0	1,527.62	0	1,745.62	0	1,963.62	0	
1/4	20.33	1/4	232.82	1/4	451.63	1/4	662.94	1/4	879.35	1/4	1,095.46	1/4	1,313.97	1/4	1,532.16	1/4	1,750.16	1/4	1,968.12	1/4	
1/2	23.52	1/2	237.38	1/2	456.19	1/2	667.30	1/2	883.90	1/2	1,100.01	1/2	1,318.52	1/2	1,536.70	1/2	1,754.70	1/2	1,972.62	1/2	
3/4	26.71	3/4	241.94	3/4	460.75	3/4	671.66	3/4	888.45	3/4	1,104.56	3/4	1,323.08	3/4	1,541.24	3/4	1,759.24	3/4	1,977.11	3/4	
1	29.90	1	246.50	1	465.31	1	676.02	1	893.00	1	1,109.11	1	1,327.63	1	1,545.79	1	1,763.79	1	1,981.61	1	
1/4	33.98	1/4	251.06	1/4	469.86	1/4	680.40	1/4	897.55	1/4	1,113.65	1/4	1,332.19	1/4	1,550.33	1/4	1,768.33	1/4	1,986.11	1/4	
1/2	38.07	1/2	255.62	1/2	474.42	1/2	684.78	1/2	902.10	1/2	1,118.20	1/2	1,336.74	1/2	1,554.87	1/2	1,772.87	1/2	1,990.60	1/2	
3/4	42.16	3/4	260.17	3/4	478.98	3/4	689.15	3/4	906.65	3/4	1,122.75	3/4	1,341.29	3/4	1,559.41	3/4	1,777.41	3/4	1,995.10	3/4	
2	46.25	2	264.73	2	483.54	2	693.53	2	911.20	2	1,127.29	2	1,345.85	2	1,563.95	2	1,781.95	2	1,999.60	2	
1/4	50.77	1/4	269.29	1/4	488.10	1/4	697.91	1/4	915.75	1/4	1,131.84	1/4	1,350.40	1/4	1,568.49	1/4	1,786.50	1/4	2,004.09	1/4	
1/2	55.30	1/2	273.85	1/2	492.66	1/2	702.28	1/2	920.30	1/2	1,136.39	1/2	1,354.96	1/2	1,573.04	1/2	1,791.04	1/2	2,008.59	1/2	
3/4	59.82	3/4	278.41	3/4	497.22	3/4	706.66	3/4	924.85	3/4	1,140.94	3/4	1,359.51	3/4	1,577.58	3/4	1,795.58	3/4	2,013.09	3/4	
3	64.35	3	282.97	3	501.77	3	711.03	3	929.40	3	1,145.48	3	1,364.07	3	1,582.12	3	1,800.12	3	2,017.58	3	
1/4	68.89	1/4	287.52	1/4	506.13	1/4	715.58	1/4	933.94	1/4	1,150.03	1/4	1,368.62	1/4	1,586.66	1/4	1,804.66	1/4	2,022.08	1/4	
1/2	73.43	1/2	292.08	1/2	510.49	1/2	720.13	1/2	938.49	1/2	1,154.58	1/2	1,373.18	1/2	1,591.20	1/2	1,809.20	1/2	2,026.58	1/2	
3/4	77.97	3/4	296.64	3/4	514.84	3/4	724.68	3/4	943.04	3/4	1,159.13	3/4	1,377.73	3/4	1,595.74	3/4	1,813.75	3/4	2,031.07	3/4	
4	82.51	4	301.20	4	519.20	4	729.23	4	947.59	4	1,163.67	4	1,382.28	4	1,600.29	4	1,818.29	4	2,035.57	4	
1/4	87.06	1/4	305.76	1/4	523.56	1/4	733.78	1/4	952.10	1/4	1,168.23	1/4	1,386.83	1/4	1,604.83	1/4	1,822.83	1/4	2,040.07	1/4	
1/2	91.60	1/2	310.32	1/2	527.92	1/2	738.33	1/2	956.61	1/2	1,172.78	1/2	1,391.37	1/2	1,609.37	1/2	1,827.37	1/2	2,044.56	1/2	
3/4	96.15	3/4	314.88	3/4	532.27	3/4	742.88	3/4	961.13	3/4	1,177.34	3/4	1,395.91	3/4	1,613.91	3/4	1,831.91	3/4	2,049.06	3/4	
5	100.69	5	319.43	5	536.63	5	747.43	5	965.64	5	1,181.89	5	1,400.45	5	1,618.45	5	1,836.45	5	2,053.56	5	
1/4	105.24	1/4	323.99	1/4	540.98	1/4	751.98	1/4	970.15	1/4	1,186.44	1/4	1,404.99	1/4	1,622.99	1/4	1,841.00	1/4	2,058.05	1/4	
1/2	109.79	1/2	328.55	1/2	545.34	1/2	756.53	1/2	974.66	1/2	1,191.00	1/2	1,409.53	1/2	1,627.54	1/2	1,845.54	1/2	2,062.54	1/2	
3/4	114.33	3/4	333.11	3/4	549.69	3/4	761.07	3/4	979.17	3/4	1,195.55	3/4	1,414.08	3/4	1,632.08	3/4	1,850.08	3/4	2,067.03	3/4	
6	118.88	6	337.67	6	554.05	6	765.62	6	983.68	6	1,200.11	6	1,418.62	6	1,636.62	6	1,854.62	6	2,071.52	6	
1/4	123.44	1/4	342.23	1/4	558.40	1/4	770.17	1/4	988.19	1/4	1,204.66	1/4	1,423.16	1/4	1,641.16	1/4	1,859.16	1/4	2,075.99	1/4	
1/2	127.99	1/2	346.79	1/2	562.76	1/2	774.72	1/2	992.71	1/2	1,209.22	1/2	1,427.70	1/2	1,645.70	1/2	1,863.70	1/2	2,080.47	1/2	
3/4	132.55	3/4	351.34	3/4	567.11	3/4	779.27	3/4	997.22	3/4	1,213.77	3/4	1,432.24	3/4	1,650.24	3/4	1,868.25	3/4	2,084.94	3/4	
7	137.11	7	355.90	7	571.47	7	783.82	7	1,001.73	7	1,218.33	7	1,436.78	7	1,654.79	7	1,872.79	7	2,089.41	7	
1/4	141.66	1/4	360.46	1/4	575.82	1/4	788.37	1/4	1,006.18	1/4	1,222.88	1/4	1,441.33	1/4	1,659.33	1/4	1,877.33	1/4	2,093.47	1/4	
1/2	146.22	1/2	365.02	1/2	580.18	1/2	792.92	1/2	1,010.62	1/2	1,227.43	1/2	1,445.87	1/2	1,663.87	1/2	1,881.87	1/2	2,097.52	1/2	
3/4	150.78	3/4	369.58	3/4	584.53	3/4	797.47	3/4	1,015.07	3/4	1,231.99	3/4	1,450.41	3/4	1,668.41	3/4	1,886.41	3/4	2,101.58	3/4	
8	155.33	8	374.14	8	588.89	8	802.02	8	1,019.51	8	1,236.54	8	1,454.95	8	1,672.95	8	1,890.95	8	2,105.63	8	
1/4	159.89	1/4	378.69	1/4	593.24	1/4	806.57	1/4	1,023.96	1/4	1,241.10	1/4	1,459.49	1/4	1,677.49	1/4	1,895.50	1/4	2,108.77	1/4	
1/2	164.45	1/2	383.25	1/2	597.60	1/2	811.12	1/2	1,028.41	1/2	1,245.65	1/2	1,464.03	1/2	1,682.04	1/2	1,900.04	1/2		1/2	
3/4	169.01	3/4	387.81	3/4	601.95	3/4	815.66	3/4	1,032.85	3/4	1,250.21	3/4	1,468.58	3/4	1,686.58	3/4	1,904.58	3/4		3/4	
9	173.56	9	392.37	9	606.31	9	820.21	9	1,037.30	9	1,254.76	9	1,473.12	9	1,691.12	9	1,909.12	9		9	
1/4	178.12	1/4	396.93	1/4	610.66	1/4	824.76	1/4	1,041.75	1/4	1,259.32	1/4	1,477.66	1/4	1,695.66	1/4	1,913.66	1/4		1/4	
1/2	182.68	1/2	401.49	1/2	615.02	1/2	829.31	1/2	1,046.19	1/2	1,263.87	1/2	1,482.20	1/2	1,700.20	1/2	1,918.20	1/2		1/2	
3/4	187.24	3/4	406.05	3/4	619.37	3/4	833.86	3/4	1,050.64	3/4	1,268.42	3/4	1,486.74	3/4	1,704.74	3/4	1,922.75	3/4		3/4	
10	191.80	10	410.60	10	623.73	10	838.41	10	1,055.09	10	1,272.98	10	1,491.28	10	1,709.29	10	1,927.29	10		10	
1/4	196.35	1/4	415.16	1/4	628.08	1/4	842.96	1/4	1,059.53	1/4	1,277.53	1/4	1,495.83	1/4	1,713.83	1/4	1,931.83	1/4		1/4	
1/2	200.91	1/2	419.72	1/2	632.43	1/2	847.51	1/2	1,063.98	1/2	1,282.09	1/2	1,500.37	1/2	1,718.37	1/2	1,936.37	1/2		1/2	
3/4	205.47	3/4	424.28	3/4	636.79	3/4	852.06	3/4	1,068.42	3/4	1,286.64	3/4	1,504.91	3/4	1,722.91	3/4	1,940.91	3/4		3/4	
11	210.03	11	428.84	11	641.14	11	856.61	11	1,072.87	11	1,291.20	11	1,509.45	11	1,727.45	11	1,945.45	11		11	
1/4	214.59	1/4	433.40	1/4	645.50	1/4	861.16	1/4	1,077.38	1/4	1,295.75	1/4	1,513.99	1/4	1,731.99	1/4	1,950.00	1/4		1/4	
1/2	219.15	1/2	437.96	1/2	649.86	1/2	865.71	1/2	1,081.89	1/2	1,300.30	1/2	1,518.53	1/2	1,736.54	1/2	1,954.54	1/2		1/2	
3/4	223.71	3/4	442.51	3/4	654.22	3/4	870.26	3/4	1,086.40	3/4	1,304.86	3/4	1,523.08	3/4	1,741.08	3/4	1,959.08	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 48'-09" FORWARD OF AFT BULKHEAD.  
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 49'-09" FORWARD OF AFT BULKHEAD.

STRAPPED: 04/29/2015 CL  
CALCULATED: 04/30/2015 CL  
PRINTED: 05/01/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2015

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



# BARGE "MM 312"

## 4 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-08 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.	IN	10 FT.
0	17.14	0	228.85	0	448.26	0	666.93	0	886.29	0	1,104.67	0	1,324.07	0	1,543.06	0	1,761.85	0	1,980.64	0	
1/4	20.33	1/4	233.42	1/4	452.83	1/4	671.49	1/4	890.86	1/4	1,109.24	1/4	1,328.64	1/4	1,547.62	1/4	1,766.41	1/4	1,985.15	1/4	
1/2	23.52	1/2	237.99	1/2	457.40	1/2	676.04	1/2	895.43	1/2	1,113.81	1/2	1,333.21	1/2	1,552.18	1/2	1,770.97	1/2	1,989.67	1/2	
3/4	26.71	3/4	242.56	3/4	461.98	3/4	680.60	3/4	900.00	3/4	1,118.38	3/4	1,337.78	3/4	1,556.74	3/4	1,775.53	3/4	1,994.18	3/4	
1	29.90	1	247.13	1	466.55	1	685.15	1	904.57	1	1,122.95	1	1,342.35	1	1,561.30	1	1,780.08	1	1,998.69	1	
1/4	34.00	1/4	251.70	1/4	471.12	1/4	689.72	1/4	909.15	1/4	1,127.52	1/4	1,346.92	1/4	1,565.85	1/4	1,784.64	1/4	2,003.21	1/4	
1/2	38.10	1/2	256.28	1/2	475.69	1/2	694.29	1/2	913.72	1/2	1,132.09	1/2	1,351.50	1/2	1,570.41	1/2	1,789.20	1/2	2,007.72	1/2	
3/4	42.21	3/4	260.85	3/4	480.26	3/4	698.87	3/4	918.29	3/4	1,136.66	3/4	1,356.07	3/4	1,574.97	3/4	1,793.76	3/4	2,012.23	3/4	
2	46.31	2	265.42	2	484.83	2	703.44	2	922.86	2	1,141.23	2	1,360.64	2	1,579.53	2	1,798.32	2	2,016.75	2	
1/4	50.84	1/4	269.99	1/4	489.40	1/4	708.01	1/4	927.43	1/4	1,145.80	1/4	1,365.21	1/4	1,584.09	1/4	1,802.87	1/4	2,021.26	1/4	
1/2	55.38	1/2	274.56	1/2	493.97	1/2	712.58	1/2	932.00	1/2	1,150.38	1/2	1,369.78	1/2	1,588.64	1/2	1,807.43	1/2	2,025.77	1/2	
3/4	59.92	3/4	279.13	3/4	498.54	3/4	717.15	3/4	936.57	3/4	1,154.95	3/4	1,374.35	3/4	1,593.20	3/4	1,811.99	3/4	2,030.29	3/4	
3	64.45	3	283.70	3	503.11	3	721.72	3	941.14	3	1,159.52	3	1,378.92	3	1,597.76	3	1,816.55	3	2,034.80	3	
1/4	69.01	1/4	288.27	1/4	507.66	1/4	726.29	1/4	945.72	1/4	1,164.09	1/4	1,383.49	1/4	1,602.32	1/4	1,821.11	1/4	2,039.31	1/4	
1/2	73.56	1/2	292.84	1/2	512.21	1/2	730.86	1/2	950.29	1/2	1,168.66	1/2	1,388.06	1/2	1,606.88	1/2	1,825.67	1/2	2,043.83	1/2	
3/4	78.11	3/4	297.42	3/4	516.76	3/4	735.44	3/4	954.86	3/4	1,173.23	3/4	1,392.63	3/4	1,611.43	3/4	1,830.22	3/4	2,048.34	3/4	
4	82.67	4	301.99	4	521.31	4	740.01	4	959.43	4	1,177.80	4	1,397.20	4	1,615.99	4	1,834.78	4	2,052.85	4	
1/4	87.22	1/4	306.56	1/4	525.86	1/4	744.58	1/4	964.00	1/4	1,182.37	1/4	1,401.76	1/4	1,620.55	1/4	1,839.34	1/4	2,057.36	1/4	
1/2	91.78	1/2	311.13	1/2	530.41	1/2	749.15	1/2	968.57	1/2	1,186.94	1/2	1,406.32	1/2	1,625.11	1/2	1,843.90	1/2	2,061.88	1/2	
3/4	96.34	3/4	315.70	3/4	534.96	3/4	753.72	3/4	973.14	3/4	1,191.51	3/4	1,410.88	3/4	1,629.67	3/4	1,848.46	3/4	2,066.39	3/4	
5	100.90	5	320.27	5	539.51	5	758.29	5	977.71	5	1,196.08	5	1,415.44	5	1,634.23	5	1,853.01	5	2,070.90	5	
1/4	105.46	1/4	324.84	1/4	544.06	1/4	762.86	1/4	982.29	1/4	1,200.66	1/4	1,419.99	1/4	1,638.78	1/4	1,857.57	1/4	2,075.40	1/4	
1/2	110.02	1/2	329.41	1/2	548.61	1/2	767.44	1/2	986.86	1/2	1,205.23	1/2	1,424.55	1/2	1,643.34	1/2	1,862.13	1/2	2,079.91	1/2	
3/4	114.58	3/4	333.98	3/4	553.16	3/4	772.01	3/4	991.43	3/4	1,209.80	3/4	1,429.11	3/4	1,647.90	3/4	1,866.69	3/4	2,084.42	3/4	
6	119.14	6	338.56	6	557.71	6	776.58	6	996.00	6	1,214.37	6	1,433.67	6	1,652.46	6	1,871.25	6	2,088.92	6	
1/4	123.71	1/4	343.13	1/4	562.26	1/4	781.15	1/4	1,000.57	1/4	1,218.94	1/4	1,438.23	1/4	1,657.02	1/4	1,875.80	1/4	2,093.41	1/4	
1/2	128.28	1/2	347.70	1/2	566.81	1/2	785.72	1/2	1,005.14	1/2	1,223.51	1/2	1,442.79	1/2	1,661.57	1/2	1,880.36	1/2	2,097.91	1/2	
3/4	132.86	3/4	352.27	3/4	571.36	3/4	790.29	3/4	1,009.71	3/4	1,228.08	3/4	1,447.34	3/4	1,666.13	3/4	1,884.92	3/4	2,102.40	3/4	
7	137.43	7	356.84	7	575.91	7	794.86	7	1,014.29	7	1,232.65	7	1,451.90	7	1,670.69	7	1,889.48	7	2,106.89	7	
1/4	142.00	1/4	361.41	1/4	580.46	1/4	799.43	1/4	1,018.79	1/4	1,237.22	1/4	1,456.46	1/4	1,675.25	1/4	1,894.04	1/4	2,110.94	1/4	
1/2	146.57	1/2	365.98	1/2	585.01	1/2	804.01	1/2	1,023.30	1/2	1,241.79	1/2	1,461.02	1/2	1,679.81	1/2	1,898.60	1/2	2,115.00	1/2	
3/4	151.14	3/4	370.55	3/4	589.56	3/4	808.58	3/4	1,027.80	3/4	1,246.36	3/4	1,465.58	3/4	1,684.36	3/4	1,903.15	3/4	2,119.05	3/4	
8	155.71	8	375.12	8	594.11	8	813.15	8	1,032.31	8	1,250.94	8	1,470.13	8	1,688.92	8	1,907.71	8	2,123.11	8	
1/4	160.28	1/4	379.70	1/4	598.66	1/4	817.72	1/4	1,036.82	1/4	1,255.51	1/4	1,474.69	1/4	1,693.48	1/4	1,912.27	1/4	2,126.25	1/4	
1/2	164.85	1/2	384.27	1/2	603.21	1/2	822.29	1/2	1,041.32	1/2	1,260.08	1/2	1,479.25	1/2	1,698.04	1/2	1,916.83	1/2		1/2	
3/4	169.42	3/4	388.84	3/4	607.76	3/4	826.86	3/4	1,045.83	3/4	1,264.65	3/4	1,483.81	3/4	1,702.60	3/4	1,921.39	3/4		3/4	
9	174.00	9	393.41	9	612.31	9	831.43	9	1,050.33	9	1,269.22	9	1,488.37	9	1,707.15	9	1,925.94	9		9	
1/4	178.57	1/4	397.98	1/4	616.86	1/4	836.00	1/4	1,054.84	1/4	1,273.79	1/4	1,492.92	1/4	1,711.71	1/4	1,930.50	1/4		1/4	
1/2	183.14	1/2	402.55	1/2	621.41	1/2	840.58	1/2	1,059.35	1/2	1,278.36	1/2	1,497.48	1/2	1,716.27	1/2	1,935.06	1/2		1/2	
3/4	187.71	3/4	407.12	3/4	625.96	3/4	845.15	3/4	1,063.85	3/4	1,282.93	3/4	1,502.04	3/4	1,720.83	3/4	1,939.62	3/4		3/4	
10	192.28	10	411.69	10	630.51	10	849.72	10	1,068.36	10	1,287.50	10	1,506.60	10	1,725.39	10	1,944.18	10		10	
1/4	196.85	1/4	416.26	1/4	635.06	1/4	854.29	1/4	1,072.86	1/4	1,292.07	1/4	1,511.16	1/4	1,729.95	1/4	1,948.73	1/4		1/4	
1/2	201.42	1/2	420.84	1/2	639.61	1/2	858.86	1/2	1,077.37	1/2	1,296.64	1/2	1,515.71	1/2	1,734.50	1/2	1,953.29	1/2		1/2	
3/4	205.99	3/4	425.41	3/4	644.16	3/4	863.43	3/4	1,081.88	3/4	1,301.22	3/4	1,520.27	3/4	1,739.06	3/4	1,957.85	3/4		3/4	
11	210.56	11	429.98	11	648.71	11	868.00	11	1,086.38	11	1,305.79	11	1,524.83	11	1,743.62	11	1,962.41	11		11	
1/4	215.14	1/4	434.55	1/4	653.26	1/4	872.57	1/4	1,090.95	1/4	1,310.36	1/4	1,529.39	1/4	1,748.18	1/4	1,966.97	1/4		1/4	
1/2	219.71	1/2	439.12	1/2	657.82	1/2	877.15	1/2	1,095.52	1/2	1,314.93	1/2	1,533.95	1/2	1,752.74	1/2	1,971.52	1/2		1/2	
3/4	224.28	3/4	443.69	3/4	662.37	3/4	881.72	3/4	1,100.10	3/4	1,319.50	3/4	1,538.51	3/4	1,757.29	3/4	1,976.08	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 48'-09" FORWARD OF AFT BULKHEAD.  
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 49'-09" FORWARD OF AFT BULKHEAD.

STRAPPED: 04/29/2015 CL  
CALCULATED: 04/30/2015 CL  
PRINTED: 05/01/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2015

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



# BARGE "MM 312"

# PORT 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	640	0	1,513	0	2,432	0	3,268	0		0		0		0		0	
1/4	8	1/4	657	1/4	1,532	1/4	2,451	1/4	3,283	1/4		1/4		1/4		1/4		1/4	
1/2	16	1/2	673	1/2	1,551	1/2	2,470	1/2	3,299	1/2		1/2		1/2		1/2		1/2	
3/4	23	3/4	690	3/4	1,570	3/4	2,488	3/4	3,314	3/4		3/4		3/4		3/4		3/4	
1	31	1	707	1	1,589	1	2,507	1	3,329	1		1		1		1		1	
1/4	41	1/4	724	1/4	1,609	1/4	2,526	1/4	3,344	1/4		1/4		1/4		1/4		1/4	
1/2	51	1/2	742	1/2	1,628	1/2	2,544	1/2	3,358	1/2		1/2		1/2		1/2		1/2	
3/4	61	3/4	759	3/4	1,647	3/4	2,563	3/4	3,373	3/4		3/4		3/4		3/4		3/4	
2	70	2	776	2	1,666	2	2,581	2	3,388	2		2		2		2		2	
1/4	81	1/4	794	1/4	1,685	1/4	2,600	1/4	3,402	1/4		1/4		1/4		1/4		1/4	
1/2	92	1/2	811	1/2	1,705	1/2	2,618	1/2	3,416	1/2		1/2		1/2		1/2		1/2	
3/4	104	3/4	829	3/4	1,724	3/4	2,636	3/4	3,430	3/4		3/4		3/4		3/4		3/4	
3	115	3	846	3	1,743	3	2,655	3	3,444	3		3		3		3		3	
1/4	127	1/4	864	1/4	1,763	1/4	2,673	1/4	3,457	1/4		1/4		1/4		1/4		1/4	
1/2	139	1/2	882	1/2	1,782	1/2	2,691	1/2	3,471	1/2		1/2		1/2		1/2		1/2	
3/4	151	3/4	899	3/4	1,801	3/4	2,709	3/4	3,484	3/4		3/4		3/4		3/4		3/4	
4	163	4	917	4	1,820	4	2,727	4	3,497	4		4		4		4		4	
1/4	176	1/4	935	1/4	1,840	1/4	2,745	1/4	3,510	1/4		1/4		1/4		1/4		1/4	
1/2	189	1/2	953	1/2	1,859	1/2	2,763	1/2	3,523	1/2		1/2		1/2		1/2		1/2	
3/4	201	3/4	971	3/4	1,878	3/4	2,781	3/4	3,535	3/4		3/4		3/4		3/4		3/4	
5	214	5	989	5	1,897	5	2,799	5	3,548	5		5		5		5		5	
1/4	228	1/4	1,007	1/4	1,917	1/4	2,817	1/4	3,560	1/4		1/4		1/4		1/4		1/4	
1/2	241	1/2	1,026	1/2	1,936	1/2	2,835	1/2	3,572	1/2		1/2		1/2		1/2		1/2	
3/4	255	3/4	1,044	3/4	1,955	3/4	2,852	3/4	3,584	3/4		3/4		3/4		3/4		3/4	
6	269	6	1,062	6	1,975	6	2,870	6	3,595	6		6		6		6		6	
1/4	283	1/4	1,081	1/4	1,994	1/4	2,887	1/4	3,606	1/4		1/4		1/4		1/4		1/4	
1/2	297	1/2	1,099	1/2	2,013	1/2	2,905	1/2	3,617	1/2		1/2		1/2		1/2		1/2	
3/4	311	3/4	1,117	3/4	2,032	3/4	2,922	3/4	3,628	3/4		3/4		3/4		3/4		3/4	
7	325	7	1,136	7	2,052	7	2,940	7	3,639	7		7		7		7		7	
1/4	340	1/4	1,154	1/4	2,071	1/4	2,957	1/4	3,648	1/4		1/4		1/4		1/4		1/4	
1/2	355	1/2	1,173	1/2	2,090	1/2	2,974	1/2	3,657	1/2		1/2		1/2		1/2		1/2	
3/4	370	3/4	1,192	3/4	2,109	3/4	2,991	3/4	3,667	3/4		3/4		3/4		3/4		3/4	
8	385	8	1,210	8	2,128	8	3,008	8	3,676	8		8		8		8		8	
1/4	400	1/4	1,229	1/4	2,148	1/4	3,025	1/4	3,684	1/4		1/4		1/4		1/4		1/4	
1/2	415	1/2	1,248	1/2	2,167	1/2	3,042	1/2	3,691	1/2		1/2		1/2		1/2		1/2	
3/4	431	3/4	1,266	3/4	2,186	3/4	3,059	3/4	3,699	3/4		3/4		3/4		3/4		3/4	
9	446	9	1,285	9	2,205	9	3,076	9	3,708	9		9		9		9		9	
1/4	462	1/4	1,304	1/4	2,224	1/4	3,092	1/4	3,716	1/4		1/4		1/4		1/4		1/4	
1/2	477	1/2	1,323	1/2	2,243	1/2	3,108	1/2	3,724	1/2		1/2		1/2		1/2		1/2	
3/4	493	3/4	1,342	3/4	2,262	3/4	3,125	3/4	3,732	3/4		3/4		3/4		3/4		3/4	
10	509	10	1,361	10	2,281	10	3,141	10	3,740	10		10		10		10		10	
1/4	525	1/4	1,380	1/4	2,300	1/4	3,157	1/4	3,748	1/4		1/4		1/4		1/4		1/4	
1/2	541	1/2	1,398	1/2	2,319	1/2	3,174	1/2	3,756	1/2		1/2		1/2		1/2		1/2	
3/4	557	3/4	1,417	3/4	2,338	3/4	3,190	3/4	3,764	3/4		3/4		3/4		3/4		3/4	
11	573	11	1,436	11	2,357	11	3,206	11	3,772	11		11		11		11		11	
1/4	590	1/4	1,456	1/4	2,376	1/4	3,221	1/4	3,780	1/4		1/4		1/4		1/4		1/4	
1/2	607	1/2	1,475	1/2	2,395	1/2	3,237	1/2	3,788	1/2		1/2		1/2		1/2		1/2	
3/4	623	3/4	1,494	3/4	2,413	3/4	3,253	3/4	3,796	3/4		3/4		3/4		3/4		3/4	

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE IS SCALED FROM THE BOTTOM OF TANK

STRAPPED: 04/29/2015 CL  
CALCULATED: 04/30/2015 CL  
PRINTED: 05/01/2015 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2015

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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





# BARGE "MM 312"

## STBD 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	640	0	1,513	0	2,432	0	3,268	0		0		0		0		0	
1/4	8	1/4	657	1/4	1,532	1/4	2,451	1/4	3,283	1/4		1/4		1/4		1/4		1/4	
1/2	16	1/2	673	1/2	1,551	1/2	2,470	1/2	3,299	1/2		1/2		1/2		1/2		1/2	
3/4	23	3/4	690	3/4	1,570	3/4	2,488	3/4	3,314	3/4		3/4		3/4		3/4		3/4	
1	31	1	707	1	1,589	1	2,507	1	3,329	1		1		1		1		1	
1/4	41	1/4	724	1/4	1,609	1/4	2,526	1/4	3,344	1/4		1/4		1/4		1/4		1/4	
1/2	51	1/2	742	1/2	1,628	1/2	2,544	1/2	3,358	1/2		1/2		1/2		1/2		1/2	
3/4	61	3/4	759	3/4	1,647	3/4	2,563	3/4	3,373	3/4		3/4		3/4		3/4		3/4	
2	70	2	776	2	1,666	2	2,581	2	3,388	2		2		2		2		2	
1/4	81	1/4	794	1/4	1,685	1/4	2,600	1/4	3,402	1/4		1/4		1/4		1/4		1/4	
1/2	92	1/2	811	1/2	1,705	1/2	2,618	1/2	3,416	1/2		1/2		1/2		1/2		1/2	
3/4	104	3/4	829	3/4	1,724	3/4	2,636	3/4	3,430	3/4		3/4		3/4		3/4		3/4	
3	115	3	846	3	1,743	3	2,655	3	3,444	3		3		3		3		3	
1/4	127	1/4	864	1/4	1,763	1/4	2,673	1/4	3,457	1/4		1/4		1/4		1/4		1/4	
1/2	139	1/2	882	1/2	1,782	1/2	2,691	1/2	3,471	1/2		1/2		1/2		1/2		1/2	
3/4	151	3/4	899	3/4	1,801	3/4	2,709	3/4	3,484	3/4		3/4		3/4		3/4		3/4	
4	163	4	917	4	1,820	4	2,727	4	3,497	4		4		4		4		4	
1/4	176	1/4	935	1/4	1,840	1/4	2,745	1/4	3,510	1/4		1/4		1/4		1/4		1/4	
1/2	189	1/2	953	1/2	1,859	1/2	2,763	1/2	3,523	1/2		1/2		1/2		1/2		1/2	
3/4	201	3/4	971	3/4	1,878	3/4	2,781	3/4	3,535	3/4		3/4		3/4		3/4		3/4	
5	214	5	989	5	1,897	5	2,799	5	3,548	5		5		5		5		5	
1/4	228	1/4	1,007	1/4	1,917	1/4	2,817	1/4	3,560	1/4		1/4		1/4		1/4		1/4	
1/2	241	1/2	1,026	1/2	1,936	1/2	2,835	1/2	3,572	1/2		1/2		1/2		1/2		1/2	
3/4	255	3/4	1,044	3/4	1,955	3/4	2,852	3/4	3,584	3/4		3/4		3/4		3/4		3/4	
6	269	6	1,062	6	1,975	6	2,870	6	3,595	6		6		6		6		6	
1/4	283	1/4	1,081	1/4	1,994	1/4	2,887	1/4	3,606	1/4		1/4		1/4		1/4		1/4	
1/2	297	1/2	1,099	1/2	2,013	1/2	2,905	1/2	3,617	1/2		1/2		1/2		1/2		1/2	
3/4	311	3/4	1,117	3/4	2,032	3/4	2,922	3/4	3,628	3/4		3/4		3/4		3/4		3/4	
7	325	7	1,136	7	2,052	7	2,940	7	3,639	7		7		7		7		7	
1/4	340	1/4	1,154	1/4	2,071	1/4	2,957	1/4	3,648	1/4		1/4		1/4		1/4		1/4	
1/2	355	1/2	1,173	1/2	2,090	1/2	2,974	1/2	3,657	1/2		1/2		1/2		1/2		1/2	
3/4	370	3/4	1,192	3/4	2,109	3/4	2,991	3/4	3,667	3/4		3/4		3/4		3/4		3/4	
8	385	8	1,210	8	2,128	8	3,008	8	3,676	8		8		8		8		8	
1/4	400	1/4	1,229	1/4	2,148	1/4	3,025	1/4	3,684	1/4		1/4		1/4		1/4		1/4	
1/2	415	1/2	1,248	1/2	2,167	1/2	3,042	1/2	3,691	1/2		1/2		1/2		1/2		1/2	
3/4	431	3/4	1,266	3/4	2,186	3/4	3,059	3/4	3,699	3/4		3/4		3/4		3/4		3/4	
9	446	9	1,285	9	2,205	9	3,076	9	3,708	9		9		9		9		9	
1/4	462	1/4	1,304	1/4	2,224	1/4	3,092	1/4	3,716	1/4		1/4		1/4		1/4		1/4	
1/2	477	1/2	1,323	1/2	2,243	1/2	3,108	1/2	3,724	1/2		1/2		1/2		1/2		1/2	
3/4	493	3/4	1,342	3/4	2,262	3/4	3,125	3/4	3,732	3/4		3/4		3/4		3/4		3/4	
10	509	10	1,361	10	2,281	10	3,141	10	3,740	10		10		10		10		10	
1/4	525	1/4	1,380	1/4	2,300	1/4	3,157	1/4	3,748	1/4		1/4		1/4		1/4		1/4	
1/2	541	1/2	1,398	1/2	2,319	1/2	3,174	1/2	3,756	1/2		1/2		1/2		1/2		1/2	
3/4	557	3/4	1,417	3/4	2,338	3/4	3,190	3/4	3,764	3/4		3/4		3/4		3/4		3/4	
11	573	11	1,436	11	2,357	11	3,206	11	3,772	11		11		11		11		11	
1/4	590	1/4	1,456	1/4	2,376	1/4	3,221	1/4	3,780	1/4		1/4		1/4		1/4		1/4	
1/2	607	1/2	1,475	1/2	2,395	1/2	3,237	1/2	3,788	1/2		1/2		1/2		1/2		1/2	
3/4	623	3/4	1,494	3/4	2,413	3/4	3,253	3/4	3,796	3/4		3/4		3/4		3/4		3/4	

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
CAPACITY TABLE IS SCALED FROM THE BOTTOM OF TANK

STRAPPED: 04/29/2015 CL  
CALCULATED: 04/30/2015 CL  
PRINTED: 05/01/2015 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2015

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



# BARGE "MM 312"

## INNAGE TRIM TABLE 8" HATCH

	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	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
1 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
2 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
2 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
3 PORT	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
3 STBD	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8
4 PORT	- 01-1/4	01-1/4	- 02-3/8	02-3/8	- 03-1/2	03-1/2	- 04-3/4	04-3/4	- 05-7/8	05-7/8	- 07-1/8	07-1/8
4 STBD	- 01-1/4	01-1/4	- 02-3/8	02-3/8	- 03-1/2	03-1/2	- 04-3/4	04-3/4	- 05-7/8	05-7/8	- 07-1/8	07-1/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 2 PORT IS 00-1/8"  
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 4 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

April 29, 2015

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

<http://www.pmacorp.net>



# BARGE "MM 312"

## ULLAGE TRIM TABLE HERMETIC

	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	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
2 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
2 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
3 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
3 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8
4 PORT	01-1/8	- 01-1/8	02-1/4	- 02-1/4	03-3/8	- 03-3/8	04-1/2	- 04-1/2	05-5/8	- 05-5/8	06-3/4	- 06-3/4
4 STBD	01-1/8	- 01-1/8	02-1/4	- 02-1/4	03-3/8	- 03-3/8	04-1/2	- 04-1/2	05-5/8	- 05-5/8	06-3/4	- 06-3/4

(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 4 PORT IS - 02-1/4"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 4 PORT, THE TRIM CORRECTED ULLAGE IS 3'-09 3/4"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

April 29, 2015

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

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# BARGE "MM 312"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	3,216.80	0	2,969.10	0	2,721.41	0	2,473.71	0	2,226.01	0	1,978.31	0	1,730.61	0	1,482.91
1/4		1/4		1/4	3,211.64	1/4	2,963.94	1/4	2,716.25	1/4	2,468.55	1/4	2,220.85	1/4	1,973.15	1/4	1,725.45	1/4	1,477.75
1/2		1/2		1/2	3,450.33	1/2	3,206.48	1/2	2,958.78	1/2	2,711.08	1/2	2,463.39	1/2	2,215.69	1/2	1,967.99	1/2	1,472.59
3/4		3/4		3/4	3,445.74	3/4	3,201.32	3/4	2,953.62	3/4	2,705.92	3/4	2,458.23	3/4	2,210.53	3/4	1,962.83	3/4	1,467.43
1		1		1	3,441.15	1	3,196.16	1	2,948.46	1	2,700.76	1	2,453.06	1	2,205.37	1	1,957.67	1	1,709.97
1/4		1/4		1/4	3,436.55	1/4	3,191.00	1/4	2,943.30	1/4	2,695.60	1/4	2,447.90	1/4	2,200.21	1/4	1,952.51	1/4	1,704.81
1/2		1/2		1/2	3,431.96	1/2	3,185.84	1/2	2,938.14	1/2	2,690.44	1/2	2,442.74	1/2	2,195.04	1/2	1,947.35	1/2	1,699.65
3/4		3/4		3/4	3,426.88	3/4	3,180.68	3/4	2,932.98	3/4	2,685.28	3/4	2,437.58	3/4	2,189.88	3/4	1,942.19	3/4	1,694.49
2		2		2	3,421.79	2	3,175.52	2	2,927.82	2	2,680.12	2	2,432.42	2	2,184.72	2	1,937.02	2	1,689.33
1/4		1/4		1/4	3,416.71	1/4	3,170.36	1/4	2,922.66	1/4	2,674.96	1/4	2,427.26	1/4	2,179.56	1/4	1,931.86	1/4	1,684.17
1/2		1/2		1/2	3,411.63	1/2	3,165.20	1/2	2,917.50	1/2	2,669.80	1/2	2,422.10	1/2	2,174.40	1/2	1,926.70	1/2	1,679.00
3/4		3/4		3/4	3,406.52	3/4	3,160.04	3/4	2,912.34	3/4	2,664.64	3/4	2,416.94	3/4	2,169.24	3/4	1,921.54	3/4	1,673.84
3		3		3	3,401.42	3	3,154.88	3	2,907.18	3	2,659.48	3	2,411.78	3	2,164.08	3	1,916.38	3	1,668.68
1/4		1/4		1/4	3,396.32	1/4	3,149.72	1/4	2,902.02	1/4	2,654.32	1/4	2,406.62	1/4	2,158.92	1/4	1,911.22	1/4	1,663.52
1/2		1/2		1/2	3,391.22	1/2	3,144.56	1/2	2,896.86	1/2	2,649.16	1/2	2,401.46	1/2	2,153.76	1/2	1,906.06	1/2	1,658.36
3/4		3/4		3/4	3,386.11	3/4	3,139.40	3/4	2,891.70	3/4	2,644.00	3/4	2,396.30	3/4	2,148.60	3/4	1,900.90	3/4	1,653.20
4		4		4	3,381.00	4	3,134.24	4	2,886.54	4	2,638.84	4	2,391.14	4	2,143.44	4	1,895.74	4	1,648.04
1/4		1/4		1/4	3,375.89	1/4	3,129.08	1/4	2,881.38	1/4	2,633.68	1/4	2,385.98	1/4	2,138.28	1/4	1,890.58	1/4	1,642.88
1/2		1/2		1/2	3,370.78	1/2	3,123.92	1/2	2,876.22	1/2	2,628.52	1/2	2,380.82	1/2	2,133.12	1/2	1,885.42	1/2	1,637.72
3/4		3/4		3/4	3,365.68	3/4	3,118.76	3/4	2,871.06	3/4	2,623.36	3/4	2,375.66	3/4	2,127.96	3/4	1,880.26	3/4	1,632.56
5		5		5	3,360.57	5	3,113.60	5	2,865.90	5	2,618.20	5	2,370.50	5	2,122.80	5	1,875.10	5	1,627.40
1/4		1/4		1/4	3,355.46	1/4	3,108.44	1/4	2,860.74	1/4	2,613.04	1/4	2,365.34	1/4	2,117.64	1/4	1,869.94	1/4	1,622.24
1/2		1/2		1/2	3,350.35	1/2	3,103.28	1/2	2,855.58	1/2	2,607.88	1/2	2,360.18	1/2	2,112.48	1/2	1,864.78	1/2	1,617.08
3/4		3/4		3/4	3,345.24	3/4	3,098.11	3/4	2,850.42	3/4	2,602.72	3/4	2,355.02	3/4	2,107.32	3/4	1,859.62	3/4	1,611.92
6		6		6	3,340.13	6	3,092.95	6	2,845.26	6	2,597.56	6	2,349.86	6	2,102.16	6	1,854.46	6	1,606.76
1/4		1/4		1/4	3,335.03	1/4	3,087.79	1/4	2,840.09	1/4	2,592.40	1/4	2,344.70	1/4	2,097.00	1/4	1,849.30	1/4	1,601.60
1/2		1/2		1/2	3,329.92	1/2	3,082.63	1/2	2,834.93	1/2	2,587.24	1/2	2,339.54	1/2	2,091.84	1/2	1,844.14	1/2	1,596.44
3/4		3/4		3/4	3,324.81	3/4	3,077.47	3/4	2,829.77	3/4	2,582.07	3/4	2,334.38	3/4	2,086.68	3/4	1,838.98	3/4	1,591.28
7		7		7	3,319.70	7	3,072.31	7	2,824.61	7	2,576.91	7	2,329.22	7	2,081.52	7	1,833.82	7	1,586.12
1/4		1/4		1/4	3,314.59	1/4	3,067.15	1/4	2,819.45	1/4	2,571.75	1/4	2,324.05	1/4	2,076.36	1/4	1,828.66	1/4	1,580.96
1/2		1/2		1/2	3,309.48	1/2	3,061.99	1/2	2,814.29	1/2	2,566.59	1/2	2,318.89	1/2	2,071.20	1/2	1,823.50	1/2	1,575.80
3/4		3/4		3/4	3,304.37	3/4	3,056.83	3/4	2,809.13	3/4	2,561.43	3/4	2,313.73	3/4	2,066.03	3/4	1,818.34	3/4	1,570.64
8		8		8	3,299.27	8	3,051.67	8	2,803.97	8	2,556.27	8	2,308.57	8	2,060.87	8	1,813.18	8	1,565.48
1/4		1/4		1/4	3,294.16	1/4	3,046.51	1/4	2,798.81	1/4	2,551.11	1/4	2,303.41	1/4	2,055.71	1/4	1,808.01	1/4	1,560.32
1/2		1/2		1/2	3,289.05	1/2	3,041.35	1/2	2,793.65	1/2	2,545.95	1/2	2,298.25	1/2	2,050.55	1/2	1,802.85	1/2	1,555.16
3/4		3/4		3/4	3,283.99	3/4	3,036.19	3/4	2,788.49	3/4	2,540.79	3/4	2,293.09	3/4	2,045.39	3/4	1,797.69	3/4	1,549.99
9		9		9	3,278.73	9	3,031.03	9	2,783.33	9	2,535.63	9	2,287.93	9	2,040.23	9	1,792.53	9	1,544.83
1/4		1/4		1/4	3,273.57	1/4	3,025.87	1/4	2,778.17	1/4	2,530.47	1/4	2,282.77	1/4	2,035.07	1/4	1,787.37	1/4	1,539.67
1/2		1/2		1/2	3,268.41	1/2	3,020.71	1/2	2,773.01	1/2	2,525.31	1/2	2,277.61	1/2	2,029.91	1/2	1,782.21	1/2	1,534.51
3/4		3/4		3/4	3,263.25	3/4	3,015.55	3/4	2,767.85	3/4	2,520.15	3/4	2,272.45	3/4	2,024.75	3/4	1,777.05	3/4	1,529.35
10		10		10	3,258.09	10	3,010.39	10	2,762.69	10	2,514.99	10	2,267.29	10	2,019.59	10	1,771.89	10	1,524.19
1/4		1/4		1/4	3,252.93	1/4	3,005.23	1/4	2,757.53	1/4	2,509.83	1/4	2,262.13	1/4	2,014.43	1/4	1,766.73	1/4	1,519.03
1/2		1/2		1/2	3,247.77	1/2	3,000.07	1/2	2,752.37	1/2	2,504.67	1/2	2,256.97	1/2	2,009.27	1/2	1,761.57	1/2	1,513.87
3/4		3/4		3/4	3,242.61	3/4	2,994.91	3/4	2,747.21	3/4	2,499.51	3/4	2,251.81	3/4	2,004.11	3/4	1,756.41	3/4	1,508.71
11		11		11	3,237.45	11	2,989.75	11	2,742.05	11	2,494.35	11	2,246.65	11	1,998.95	11	1,751.25	11	1,503.55
1/4		1/4		1/4	3,232.29	1/4	2,984.59	1/4	2,736.89	1/4	2,489.19	1/4	2,241.49	1/4	1,993.79	1/4	1,746.09	1/4	1,498.39
1/2		1/2		1/2	3,227.12	1/2	2,979.43	1/2	2,731.73	1/2	2,484.03	1/2	2,236.33	1/2	1,988.63	1/2	1,740.93	1/2	1,493.23
3/4		3/4		3/4	3,221.96	3/4	2,974.27	3/4	2,726.57	3/4	2,478.87	3/4	2,231.17	3/4	1,983.47	3/4	1,735.77	3/4	1,488.07

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 29'-06" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
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# BARGE "MM 312"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,235.21	0	987.90	0	740.27	0	494.41	0	248.74	0	43.91	0		0		0		0	
1/4	1,230.05	1/4	982.74	1/4	735.15	1/4	489.25	1/4	243.88	1/4	40.32	1/4		1/4		1/4		1/4	
1/2	1,224.89	1/2	977.58	1/2	730.02	1/2	484.09	1/2	239.02	1/2	36.72	1/2		1/2		1/2		1/2	
3/4	1,219.73	3/4	972.42	3/4	724.90	3/4	478.93	3/4	234.25	3/4	33.71	3/4		3/4		3/4		3/4	
1	1,214.57	1	967.26	1	719.78	1	473.77	1	229.48	1	30.71	1		1		1		1	
1/4	1,209.41	1/4	962.10	1/4	714.65	1/4	468.61	1/4	224.71	1/4	27.70	1/4		1/4		1/4		1/4	
1/2	1,204.25	1/2	956.94	1/2	709.53	1/2	463.45	1/2	219.94	1/2	24.69	1/2		1/2		1/2		1/2	
3/4	1,199.09	3/4	951.78	3/4	704.40	3/4	458.29	3/4	215.26	3/4	22.80	3/4		3/4		3/4		3/4	
2	1,193.93	2	946.62	2	699.28	2	453.13	2	210.58	2	20.92	2		2		2		2	
1/4	1,188.77	1/4	941.46	1/4	694.16	1/4	447.97	1/4	205.91	1/4	19.03	1/4		1/4		1/4		1/4	
1/2	1,183.61	1/2	936.30	1/2	689.03	1/2	442.81	1/2	201.23	1/2	17.14	1/2		1/2		1/2		1/2	
3/4	1,178.45	3/4	931.14	3/4	683.91	3/4	437.65	3/4	196.64	3/4		3/4		3/4		3/4		3/4	
3	1,173.29	3	925.98	3	678.78	3	432.49	3	192.06	3		3		3		3		3	
1/4	1,168.13	1/4	920.81	1/4	673.66	1/4	427.33	1/4	187.47	1/4		1/4		1/4		1/4		1/4	
1/2	1,162.96	1/2	915.65	1/2	668.53	1/2	422.17	1/2	182.88	1/2		1/2		1/2		1/2		1/2	
3/4	1,157.83	3/4	910.49	3/4	663.42	3/4	417.01	3/4	178.39	3/4		3/4		3/4		3/4		3/4	
4	1,152.69	4	905.33	4	658.30	4	411.85	4	173.90	4		4		4		4		4	
1/4	1,147.56	1/4	900.17	1/4	653.18	1/4	406.69	1/4	169.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,142.42	1/2	895.01	1/2	648.06	1/2	401.53	1/2	164.91	1/2		1/2		1/2		1/2		1/2	
3/4	1,137.28	3/4	889.85	3/4	642.94	3/4	396.37	3/4	160.51	3/4		3/4		3/4		3/4		3/4	
5	1,132.15	5	884.69	5	637.82	5	391.21	5	156.11	5		5		5		5		5	
1/4	1,127.01	1/4	879.53	1/4	632.70	1/4	386.05	1/4	151.70	1/4		1/4		1/4		1/4		1/4	
1/2	1,121.88	1/2	874.37	1/2	627.58	1/2	380.89	1/2	147.30	1/2		1/2		1/2		1/2		1/2	
3/4	1,116.74	3/4	869.21	3/4	622.47	3/4	375.73	3/4	142.99	3/4		3/4		3/4		3/4		3/4	
6	1,111.60	6	864.05	6	617.35	6	370.56	6	138.68	6		6		6		6		6	
1/4	1,106.47	1/4	858.89	1/4	612.23	1/4	365.40	1/4	134.37	1/4		1/4		1/4		1/4		1/4	
1/2	1,101.33	1/2	853.73	1/2	607.11	1/2	360.24	1/2	130.06	1/2		1/2		1/2		1/2		1/2	
3/4	1,096.20	3/4	848.57	3/4	601.99	3/4	355.08	3/4	125.84	3/4		3/4		3/4		3/4		3/4	
7	1,091.06	7	843.41	7	596.87	7	349.92	7	121.62	7		7		7		7		7	
1/4	1,085.92	1/4	838.25	1/4	591.75	1/4	344.76	1/4	117.41	1/4		1/4		1/4		1/4		1/4	
1/2	1,080.79	1/2	833.09	1/2	586.63	1/2	339.60	1/2	113.19	1/2		1/2		1/2		1/2		1/2	
3/4	1,075.63	3/4	827.93	3/4	581.51	3/4	334.44	3/4	109.06	3/4		3/4		3/4		3/4		3/4	
8	1,070.47	8	822.77	8	576.40	8	329.28	8	104.94	8		8		8		8		8	
1/4	1,065.31	1/4	817.61	1/4	571.28	1/4	324.12	1/4	100.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,060.15	1/2	812.45	1/2	566.16	1/2	318.96	1/2	96.68	1/2		1/2		1/2		1/2		1/2	
3/4	1,054.99	3/4	807.29	3/4	561.04	3/4	313.84	3/4	92.79	3/4		3/4		3/4		3/4		3/4	
9	1,049.82	9	802.13	9	555.92	9	308.71	9	88.89	9		9		9		9		9	
1/4	1,044.66	1/4	796.97	1/4	550.80	1/4	303.58	1/4	85.00	1/4		1/4		1/4		1/4		1/4	
1/2	1,039.50	1/2	791.80	1/2	545.68	1/2	298.46	1/2	81.10	1/2		1/2		1/2		1/2		1/2	
3/4	1,034.34	3/4	786.64	3/4	540.56	3/4	293.41	3/4	77.30	3/4		3/4		3/4		3/4		3/4	
10	1,029.18	10	781.48	10	535.45	10	288.37	10	73.50	10		10		10		10		10	
1/4	1,024.02	1/4	776.32	1/4	530.33	1/4	283.32	1/4	69.70	1/4		1/4		1/4		1/4		1/4	
1/2	1,018.86	1/2	771.16	1/2	525.21	1/2	278.28	1/2	65.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,013.70	3/4	766.00	3/4	520.09	3/4	273.32	3/4	62.20	3/4		3/4		3/4		3/4		3/4	
11	1,008.54	11	760.84	11	514.97	11	268.37	11	58.50	11		11		11		11		11	
1/4	1,003.38	1/4	755.68	1/4	509.85	1/4	263.42	1/4	54.80	1/4		1/4		1/4		1/4		1/4	
1/2	998.22	1/2	750.52	1/2	504.73	1/2	258.46	1/2	51.09	1/2		1/2		1/2		1/2		1/2	
3/4	993.06	3/4	745.40	3/4	499.57	3/4	253.60	3/4	47.50	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/29/2015 CL  
CALCULATED: 04/30/2015 CL  
PRINTED: 05/01/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2015

PRECISION MEASUREMENT  
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<http://www.pmacorp.net>



# BARGE "MM 312"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	3,219.20	0	2,971.47	0	2,723.74	0	2,475.99	0	2,228.25	0	1,980.50	0	1,732.75	0	1,485.00
1/4		1/4		1/4	3,214.04	1/4	2,966.31	1/4	2,718.57	1/4	2,470.83	1/4	2,223.08	1/4	1,975.34	1/4	1,727.59	1/4	1,479.84
1/2		1/2		1/2	3,452.77	1/2	3,208.88	1/2	2,961.15	1/2	2,713.41	1/2	2,465.67	1/2	2,217.92	1/2	1,970.18	1/2	1,474.68
3/4		3/4		3/4	3,448.18	3/4	3,203.72	3/4	2,955.98	3/4	2,708.25	3/4	2,460.51	3/4	2,212.76	3/4	1,965.01	3/4	1,469.52
1		1		1	3,443.58	1	3,198.56	1	2,950.82	1	2,703.09	1	2,455.35	1	2,207.60	1	1,959.85	1	1,464.36
1/4		1/4		1/4	3,438.99	1/4	3,193.40	1/4	2,945.66	1/4	2,697.93	1/4	2,450.19	1/4	2,202.44	1/4	1,954.69	1/4	1,459.20
1/2		1/2		1/2	3,434.40	1/2	3,188.23	1/2	2,940.50	1/2	2,692.77	1/2	2,445.02	1/2	2,197.28	1/2	1,949.53	1/2	1,454.04
3/4		3/4		3/4	3,429.31	3/4	3,183.07	3/4	2,935.34	3/4	2,687.61	3/4	2,439.86	3/4	2,192.12	3/4	1,944.37	3/4	1,448.87
2		2		2	3,424.23	2	3,177.91	2	2,930.18	2	2,682.45	2	2,434.70	2	2,186.95	2	1,939.21	2	1,443.71
1/4		1/4		1/4	3,419.14	1/4	3,172.75	1/4	2,925.02	1/4	2,677.29	1/4	2,429.54	1/4	2,181.79	1/4	1,934.05	1/4	1,438.55
1/2		1/2		1/2	3,414.06	1/2	3,167.59	1/2	2,919.86	1/2	2,672.12	1/2	2,424.38	1/2	2,176.63	1/2	1,928.88	1/2	1,433.39
3/4		3/4		3/4	3,408.95	3/4	3,162.43	3/4	2,914.70	3/4	2,666.96	3/4	2,419.22	3/4	2,171.47	3/4	1,923.72	3/4	1,428.23
3		3		3	3,403.85	3	3,157.27	3	2,909.53	3	2,661.80	3	2,414.06	3	2,166.31	3	1,918.56	3	1,423.07
1/4		1/4		1/4	3,398.75	1/4	3,152.11	1/4	2,904.37	1/4	2,656.64	1/4	2,408.90	1/4	2,161.15	1/4	1,913.40	1/4	1,417.91
1/2		1/2		1/2	3,393.65	1/2	3,146.95	1/2	2,899.21	1/2	2,651.48	1/2	2,403.73	1/2	2,155.99	1/2	1,908.24	1/2	1,412.74
3/4		3/4		3/4	3,388.54	3/4	3,141.78	3/4	2,894.05	3/4	2,646.32	3/4	2,398.57	3/4	2,150.83	3/4	1,903.08	3/4	1,407.58
4		4		4	3,383.43	4	3,136.62	4	2,888.89	4	2,641.16	4	2,393.41	4	2,145.66	4	1,897.92	4	1,402.42
1/4		1/4		1/4	3,378.32	1/4	3,131.46	1/4	2,883.73	1/4	2,636.00	1/4	2,388.25	1/4	2,140.50	1/4	1,892.76	1/4	1,397.26
1/2		1/2		1/2	3,373.21	1/2	3,126.30	1/2	2,878.57	1/2	2,630.84	1/2	2,383.09	1/2	2,135.34	1/2	1,887.59	1/2	1,392.10
3/4		3/4		3/4	3,368.10	3/4	3,121.14	3/4	2,873.41	3/4	2,625.67	3/4	2,377.93	3/4	2,130.18	3/4	1,882.43	3/4	1,386.94
5		5		5	3,362.99	5	3,115.98	5	2,868.25	5	2,620.51	5	2,372.77	5	2,125.02	5	1,877.27	5	1,381.78
1/4		1/4		1/4	3,357.88	1/4	3,110.82	1/4	2,863.08	1/4	2,615.35	1/4	2,367.60	1/4	2,119.86	1/4	1,872.11	1/4	1,376.62
1/2		1/2		1/2	3,352.77	1/2	3,105.66	1/2	2,857.92	1/2	2,610.19	1/2	2,362.44	1/2	2,114.70	1/2	1,866.95	1/2	1,371.45
3/4		3/4		3/4	3,347.66	3/4	3,100.50	3/4	2,852.76	3/4	2,605.03	3/4	2,357.28	3/4	2,109.53	3/4	1,861.79	3/4	1,366.29
6		6		6	3,342.55	6	3,095.33	6	2,847.60	6	2,599.87	6	2,352.12	6	2,104.37	6	1,856.63	6	1,361.13
1/4		1/4		1/4	3,337.44	1/4	3,090.17	1/4	2,842.44	1/4	2,594.71	1/4	2,346.96	1/4	2,099.21	1/4	1,851.46	1/4	1,355.97
1/2		1/2		1/2	3,332.33	1/2	3,085.01	1/2	2,837.28	1/2	2,589.54	1/2	2,341.80	1/2	2,094.05	1/2	1,846.30	1/2	1,350.81
3/4		3/4		3/4	3,327.22	3/4	3,079.85	3/4	2,832.12	3/4	2,584.38	3/4	2,336.64	3/4	2,088.89	3/4	1,841.14	3/4	1,345.65
7		7		7	3,322.11	7	3,074.69	7	2,826.96	7	2,579.22	7	2,331.47	7	2,083.73	7	1,835.98	7	1,340.49
1/4		1/4		1/4	3,317.01	1/4	3,069.53	1/4	2,821.80	1/4	2,574.06	1/4	2,326.31	1/4	2,078.57	1/4	1,830.82	1/4	1,335.32
1/2		1/2		1/2	3,311.90	1/2	3,064.37	1/2	2,816.63	1/2	2,568.90	1/2	2,321.15	1/2	2,073.40	1/2	1,825.66	1/2	1,330.16
3/4		3/4		3/4	3,306.79	3/4	3,059.21	3/4	2,811.47	3/4	2,563.74	3/4	2,315.99	3/4	2,068.24	3/4	1,820.50	3/4	1,325.00
8		8		8	3,301.68	8	3,054.05	8	2,806.31	8	2,558.58	8	2,310.83	8	2,063.08	8	1,815.33	8	1,319.84
1/4		1/4		1/4	3,296.57	1/4	3,048.88	1/4	2,801.15	1/4	2,553.41	1/4	2,305.67	1/4	2,057.92	1/4	1,810.17	1/4	1,314.68
1/2		1/2		1/2	3,291.46	1/2	3,043.72	1/2	2,795.99	1/2	2,548.25	1/2	2,300.51	1/2	2,052.76	1/2	1,805.01	1/2	1,309.52
3/4		3/4		3/4	3,286.29	3/4	3,038.56	3/4	2,790.83	3/4	2,543.09	3/4	2,295.34	3/4	2,047.60	3/4	1,799.85	3/4	1,304.36
9		9		9	3,281.13	9	3,033.40	9	2,785.67	9	2,537.93	9	2,290.18	9	2,042.44	9	1,794.69	9	1,299.19
1/4		1/4		1/4	3,275.97	1/4	3,028.24	1/4	2,780.51	1/4	2,532.77	1/4	2,285.02	1/4	2,037.27	1/4	1,789.53	1/4	1,294.03
1/2		1/2		1/2	3,270.81	1/2	3,023.08	1/2	2,775.35	1/2	2,527.61	1/2	2,279.86	1/2	2,032.11	1/2	1,784.37	1/2	1,288.87
3/4		3/4		3/4	3,265.65	3/4	3,017.92	3/4	2,770.18	3/4	2,522.45	3/4	2,274.70	3/4	2,026.95	3/4	1,779.20	3/4	1,283.71
10		10		10	3,260.49	10	3,012.76	10	2,765.02	10	2,517.28	10	2,269.54	10	2,021.79	10	1,774.04	10	1,278.55
1/4		1/4		1/4	3,255.33	1/4	3,007.60	1/4	2,759.86	1/4	2,512.12	1/4	2,264.38	1/4	2,016.63	1/4	1,768.88	1/4	1,273.39
1/2		1/2		1/2	3,250.17	1/2	3,002.43	1/2	2,754.70	1/2	2,506.96	1/2	2,259.21	1/2	2,011.47	1/2	1,763.72	1/2	1,268.23
3/4		3/4		3/4	3,245.01	3/4	2,997.27	3/4	2,749.54	3/4	2,501.80	3/4	2,254.05	3/4	2,006.31	3/4	1,758.56	3/4	1,263.06
11		11		11	3,239.85	11	2,992.11	11	2,744.38	11	2,496.64	11	2,248.89	11	2,001.14	11	1,753.40	11	1,257.90
1/4		1/4		1/4	3,234.68	1/4	2,986.95	1/4	2,739.22	1/4	2,491.48	1/4	2,243.73	1/4	1,995.98	1/4	1,748.24	1/4	1,252.74
1/2		1/2		1/2	3,229.52	1/2	2,981.79	1/2	2,734.06	1/2	2,486.32	1/2	2,238.57	1/2	1,990.82	1/2	1,743.07	1/2	1,247.58
3/4		3/4		3/4	3,224.36	3/4	2,976.63	3/4	2,728.90	3/4	2,481.15	3/4	2,233.41	3/4	1,985.66	3/4	1,737.91	3/4	1,242.42

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 29'-06" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 31'-00" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "MM 312"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,237.26	0	989.90	0	742.16	0	494.58	0	248.86	0	43.94	0		0		0		0	
1/4	1,232.10	1/4	984.74	1/4	737.00	1/4	489.42	1/4	244.00	1/4	40.34	1/4		1/4		1/4		1/4	
1/2	1,226.93	1/2	979.58	1/2	731.83	1/2	484.26	1/2	239.14	1/2	36.74	1/2		1/2		1/2		1/2	
3/4	1,221.77	3/4	974.42	3/4	726.67	3/4	479.10	3/4	234.37	3/4	33.73	3/4		3/4		3/4		3/4	
1	1,216.61	1	969.26	1	721.51	1	473.94	1	229.60	1	30.72	1		1		1		1	
1/4	1,211.45	1/4	964.10	1/4	716.35	1/4	468.78	1/4	224.83	1/4	27.71	1/4		1/4		1/4		1/4	
1/2	1,206.29	1/2	958.94	1/2	711.19	1/2	463.62	1/2	220.05	1/2	24.70	1/2		1/2		1/2		1/2	
3/4	1,201.13	3/4	953.77	3/4	706.03	3/4	458.45	3/4	215.38	3/4	22.81	3/4		3/4		3/4		3/4	
2	1,195.97	2	948.61	2	700.87	2	453.29	2	210.70	2	20.92	2		2		2		2	
1/4	1,190.80	1/4	943.45	1/4	695.70	1/4	448.13	1/4	206.02	1/4	19.03	1/4		1/4		1/4		1/4	
1/2	1,185.64	1/2	938.29	1/2	690.54	1/2	442.97	1/2	201.34	1/2	17.14	1/2		1/2		1/2		1/2	
3/4	1,180.48	3/4	933.13	3/4	685.38	3/4	437.81	3/4	196.75	3/4		3/4		3/4		3/4		3/4	
3	1,175.32	3	927.97	3	680.22	3	432.65	3	192.16	3		3		3		3		3	
1/4	1,170.16	1/4	922.81	1/4	675.06	1/4	427.49	1/4	187.58	1/4		1/4		1/4		1/4		1/4	
1/2	1,165.00	1/2	917.64	1/2	669.90	1/2	422.33	1/2	182.99	1/2		1/2		1/2		1/2		1/2	
3/4	1,159.86	3/4	912.48	3/4	664.74	3/4	417.16	3/4	178.49	3/4		3/4		3/4		3/4		3/4	
4	1,154.72	4	907.32	4	659.58	4	412.00	4	174.00	4		4		4		4		4	
1/4	1,149.59	1/4	902.16	1/4	654.43	1/4	406.84	1/4	169.50	1/4		1/4		1/4		1/4		1/4	
1/2	1,144.45	1/2	897.00	1/2	649.27	1/2	401.68	1/2	165.01	1/2		1/2		1/2		1/2		1/2	
3/4	1,139.31	3/4	891.84	3/4	644.12	3/4	396.52	3/4	160.60	3/4		3/4		3/4		3/4		3/4	
5	1,134.18	5	886.68	5	638.96	5	391.36	5	156.20	5		5		5		5		5	
1/4	1,129.04	1/4	881.51	1/4	633.80	1/4	386.20	1/4	151.79	1/4		1/4		1/4		1/4		1/4	
1/2	1,123.90	1/2	876.35	1/2	628.65	1/2	381.04	1/2	147.39	1/2		1/2		1/2		1/2		1/2	
3/4	1,118.77	3/4	871.19	3/4	623.49	3/4	375.87	3/4	143.08	3/4		3/4		3/4		3/4		3/4	
6	1,113.63	6	866.03	6	618.34	6	370.71	6	138.77	6		6		6		6		6	
1/4	1,108.49	1/4	860.87	1/4	613.18	1/4	365.55	1/4	134.45	1/4		1/4		1/4		1/4		1/4	
1/2	1,103.36	1/2	855.71	1/2	608.02	1/2	360.39	1/2	130.14	1/2		1/2		1/2		1/2		1/2	
3/4	1,098.22	3/4	850.55	3/4	602.87	3/4	355.23	3/4	125.92	3/4		3/4		3/4		3/4		3/4	
7	1,093.08	7	845.38	7	597.71	7	350.07	7	121.70	7		7		7		7		7	
1/4	1,087.95	1/4	840.22	1/4	592.56	1/4	344.91	1/4	117.48	1/4		1/4		1/4		1/4		1/4	
1/2	1,082.81	1/2	835.06	1/2	587.40	1/2	339.75	1/2	113.26	1/2		1/2		1/2		1/2		1/2	
3/4	1,077.65	3/4	829.90	3/4	582.24	3/4	334.59	3/4	109.13	3/4		3/4		3/4		3/4		3/4	
8	1,072.49	8	824.74	8	577.09	8	329.42	8	105.00	8		8		8		8		8	
1/4	1,067.32	1/4	819.58	1/4	571.93	1/4	324.26	1/4	100.88	1/4		1/4		1/4		1/4		1/4	
1/2	1,062.16	1/2	814.42	1/2	566.78	1/2	319.10	1/2	96.75	1/2		1/2		1/2		1/2		1/2	
3/4	1,057.00	3/4	809.25	3/4	561.62	3/4	313.97	3/4	92.85	3/4		3/4		3/4		3/4		3/4	
9	1,051.84	9	804.09	9	556.46	9	308.85	9	88.95	9		9		9		9		9	
1/4	1,046.68	1/4	798.93	1/4	551.31	1/4	303.72	1/4	85.06	1/4		1/4		1/4		1/4		1/4	
1/2	1,041.52	1/2	793.77	1/2	546.15	1/2	298.59	1/2	81.16	1/2		1/2		1/2		1/2		1/2	
3/4	1,036.36	3/4	788.61	3/4	541.00	3/4	293.55	3/4	77.36	3/4		3/4		3/4		3/4		3/4	
10	1,031.19	10	783.45	10	535.84	10	288.50	10	73.55	10		10		10		10		10	
1/4	1,026.03	1/4	778.29	1/4	530.68	1/4	283.46	1/4	69.75	1/4		1/4		1/4		1/4		1/4	
1/2	1,020.87	1/2	773.12	1/2	525.53	1/2	278.41	1/2	65.95	1/2		1/2		1/2		1/2		1/2	
3/4	1,015.71	3/4	767.96	3/4	520.37	3/4	273.45	3/4	62.24	3/4		3/4		3/4		3/4		3/4	
11	1,010.55	11	762.80	11	515.22	11	268.50	11	58.54	11		11		11		11		11	
1/4	1,005.39	1/4	757.64	1/4	510.06	1/4	263.55	1/4	54.83	1/4		1/4		1/4		1/4		1/4	
1/2	1,000.23	1/2	752.48	1/2	504.90	1/2	258.59	1/2	51.13	1/2		1/2		1/2		1/2		1/2	
3/4	995.07	3/4	747.32	3/4	499.74	3/4	253.73	3/4	47.53	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/29/2015 CL  
CALCULATED: 04/30/2015 CL  
PRINTED: 05/01/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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<http://www.pmacorp.net>



# BARGE "MM 312"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,002.89	0	3,699.33	0	3,395.77	0	3,092.20	0	2,788.63	0	2,485.06	0	2,181.49	0	1,877.92
1/4		1/4		1/4	3,996.57	1/4	3,693.01	1/4	3,389.45	1/4	3,085.88	1/4	2,782.31	1/4	2,478.74	1/4	2,175.16	1/4	1,871.59
1/2		1/2		1/2	4,289.10	1/2	3,990.24	1/2	3,686.68	1/2	3,383.12	1/2	3,079.55	1/2	2,775.98	1/2	2,472.41	1/2	2,168.84
3/4		3/4		3/4	4,283.47	3/4	3,983.92	3/4	3,680.36	3/4	3,376.80	3/4	3,073.23	3/4	2,769.66	3/4	2,466.09	3/4	2,162.52
1		1		1	4,277.84	1	3,977.60	1	3,674.03	1	3,370.47	1	3,066.90	1	2,763.33	1	2,459.76	1	2,156.19
1/4		1/4		1/4	4,272.22	1/4	3,971.27	1/4	3,667.71	1/4	3,364.15	1/4	3,060.58	1/4	2,757.01	1/4	2,453.44	1/4	2,149.87
1/2		1/2		1/2	4,266.59	1/2	3,964.95	1/2	3,661.39	1/2	3,357.82	1/2	3,054.26	1/2	2,750.68	1/2	2,447.11	1/2	2,143.54
3/4		3/4		3/4	4,260.36	3/4	3,958.62	3/4	3,655.06	3/4	3,351.50	3/4	3,047.93	3/4	2,744.36	3/4	2,440.79	3/4	2,137.22
2		2		2	4,254.13	2	3,952.30	2	3,648.74	2	3,345.18	2	3,041.61	2	2,738.04	2	2,434.46	2	2,130.89
1/4		1/4		1/4	4,247.90	1/4	3,945.98	1/4	3,642.41	1/4	3,338.85	1/4	3,035.28	1/4	2,731.71	1/4	2,428.14	1/4	2,124.57
1/2		1/2		1/2	4,241.66	1/2	3,939.65	1/2	3,636.09	1/2	3,332.53	1/2	3,028.96	1/2	2,725.39	1/2	2,421.82	1/2	2,118.24
3/4		3/4		3/4	4,235.41	3/4	3,933.33	3/4	3,629.77	3/4	3,326.20	3/4	3,022.63	3/4	2,719.06	3/4	2,415.49	3/4	2,111.92
3		3		3	4,229.16	3	3,927.00	3	3,623.44	3	3,319.88	3	3,016.31	3	2,712.74	3	2,409.17	3	2,105.60
1/4		1/4		1/4	4,222.91	1/4	3,920.68	1/4	3,617.12	1/4	3,313.56	1/4	3,009.99	1/4	2,706.41	1/4	2,402.84	1/4	2,099.27
1/2		1/2		1/2	4,216.65	1/2	3,914.35	1/2	3,610.79	1/2	3,307.23	1/2	3,003.66	1/2	2,700.09	1/2	2,396.52	1/2	2,092.95
3/4		3/4		3/4	4,210.39	3/4	3,908.03	3/4	3,604.47	3/4	3,300.91	3/4	2,997.34	3/4	2,693.77	3/4	2,390.19	3/4	2,086.62
4		4		4	4,204.13	4	3,901.71	4	3,598.14	4	3,294.58	4	2,991.01	4	2,687.44	4	2,383.87	4	2,080.30
1/4		1/4		1/4	4,197.87	1/4	3,895.38	1/4	3,591.82	1/4	3,288.26	1/4	2,984.69	1/4	2,681.12	1/4	2,377.55	1/4	2,073.97
1/2		1/2		1/2	4,191.61	1/2	3,889.06	1/2	3,585.50	1/2	3,281.93	1/2	2,978.36	1/2	2,674.79	1/2	2,371.22	1/2	2,067.65
3/4		3/4		3/4	4,185.35	3/4	3,882.73	3/4	3,579.17	3/4	3,275.61	3/4	2,972.04	3/4	2,668.47	3/4	2,364.90	3/4	2,061.33
5		5		5	4,179.09	5	3,876.41	5	3,572.85	5	3,269.29	5	2,965.71	5	2,662.14	5	2,358.57	5	2,055.00
1/4		1/4		1/4	4,172.83	1/4	3,870.08	1/4	3,566.52	1/4	3,262.96	1/4	2,959.39	1/4	2,655.82	1/4	2,352.25	1/4	2,048.68
1/2		1/2		1/2	4,166.56	1/2	3,863.76	1/2	3,560.20	1/2	3,256.64	1/2	2,953.07	1/2	2,649.49	1/2	2,345.92	1/2	2,042.35
3/4		3/4		3/4	4,160.30	3/4	3,857.44	3/4	3,553.87	3/4	3,250.31	3/4	2,946.74	3/4	2,643.17	3/4	2,339.60	3/4	2,036.03
6		6		6	4,154.04	6	3,851.11	6	3,547.55	6	3,243.99	6	2,940.42	6	2,636.85	6	2,333.27	6	2,029.70
1/4		1/4		1/4	4,147.78	1/4	3,844.79	1/4	3,541.23	1/4	3,237.66	1/4	2,934.09	1/4	2,630.52	1/4	2,326.95	1/4	2,023.38
1/2		1/2		1/2	4,141.52	1/2	3,838.46	1/2	3,534.90	1/2	3,231.34	1/2	2,927.77	1/2	2,624.20	1/2	2,320.63	1/2	2,017.05
3/4		3/4		3/4	4,135.26	3/4	3,832.14	3/4	3,528.58	3/4	3,225.01	3/4	2,921.44	3/4	2,617.87	3/4	2,314.30	3/4	2,010.73
7		7		7	4,129.00	7	3,825.82	7	3,522.25	7	3,218.69	7	2,915.12	7	2,611.55	7	2,307.98	7	2,004.41
1/4		1/4		1/4	4,122.74	1/4	3,819.49	1/4	3,515.93	1/4	3,212.37	1/4	2,908.79	1/4	2,605.22	1/4	2,301.65	1/4	1,998.08
1/2		1/2		1/2	4,116.48	1/2	3,813.17	1/2	3,509.61	1/2	3,206.04	1/2	2,902.47	1/2	2,598.90	1/2	2,295.33	1/2	1,991.76
3/4		3/4		3/4	4,110.21	3/4	3,806.84	3/4	3,503.28	3/4	3,199.72	3/4	2,896.15	3/4	2,592.57	3/4	2,289.00	3/4	1,985.43
8		8		8	4,103.95	8	3,800.52	8	3,496.96	8	3,193.39	8	2,889.82	8	2,586.25	8	2,282.68	8	1,979.11
1/4		1/4		1/4	4,097.69	1/4	3,794.19	1/4	3,490.63	1/4	3,187.07	1/4	2,883.50	1/4	2,579.93	1/4	2,276.35	1/4	1,972.78
1/2		1/2		1/2	4,091.43	1/2	3,787.87	1/2	3,484.31	1/2	3,180.74	1/2	2,877.17	1/2	2,573.60	1/2	2,270.03	1/2	1,966.46
3/4		3/4		3/4	4,085.11	3/4	3,781.55	3/4	3,477.98	3/4	3,174.42	3/4	2,870.85	3/4	2,567.28	3/4	2,263.71	3/4	1,960.13
9		9		9	4,078.78	9	3,775.22	9	3,471.66	9	3,168.10	9	2,864.52	9	2,560.95	9	2,257.38	9	1,953.81
1/4		1/4		1/4	4,072.46	1/4	3,768.90	1/4	3,465.34	1/4	3,161.77	1/4	2,858.20	1/4	2,554.63	1/4	2,251.06	1/4	1,947.49
1/2		1/2		1/2	4,066.14	1/2	3,762.57	1/2	3,459.01	1/2	3,155.45	1/2	2,851.88	1/2	2,548.30	1/2	2,244.73	1/2	1,941.16
3/4		3/4		3/4	4,059.81	3/4	3,756.25	3/4	3,452.69	3/4	3,149.12	3/4	2,845.55	3/4	2,541.98	3/4	2,238.41	3/4	1,934.84
10		10		10	4,053.49	10	3,749.93	10	3,446.36	10	3,142.80	10	2,839.23	10	2,535.66	10	2,232.08	10	1,928.51
1/4		1/4		1/4	4,047.16	1/4	3,743.60	1/4	3,440.04	1/4	3,136.47	1/4	2,832.90	1/4	2,529.33	1/4	2,225.76	1/4	1,922.19
1/2		1/2		1/2	4,040.84	1/2	3,737.28	1/2	3,433.72	1/2	3,130.15	1/2	2,826.58	1/2	2,523.01	1/2	2,219.44	1/2	1,915.86
3/4		3/4		3/4	4,034.51	3/4	3,730.95	3/4	3,427.39	3/4	3,123.82	3/4	2,820.25	3/4	2,516.68	3/4	2,213.11	3/4	1,909.54
11		11		11	4,028.19	11	3,724.63	11	3,421.07	11	3,117.50	11	2,813.93	11	2,510.36	11	2,206.79	11	1,903.22
1/4		1/4		1/4	4,021.87	1/4	3,718.30	1/4	3,414.74	1/4	3,111.18	1/4	2,807.60	1/4	2,504.03	1/4	2,200.46	1/4	1,896.89
1/2		1/2		1/2	4,015.54	1/2	3,711.98	1/2	3,408.42	1/2	3,104.85	1/2	2,801.28	1/2	2,497.71	1/2	2,194.14	1/2	1,890.57
3/4		3/4		3/4	4,009.22	3/4	3,705.66	3/4	3,402.09	3/4	3,098.53	3/4	2,794.96	3/4	2,491.38	3/4	2,187.81	3/4	1,884.24

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.  
 GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.  
 GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

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





# BARGE "MM 312"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,574.35	0	1,272.36	0	969.35	0	678.77	0	375.21	0	74.15	0		0		0		0	
1/4	1,568.02	1/4	1,266.04	1/4	963.30	1/4	672.44	1/4	368.88	1/4	68.03	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,561.70	1/2	1,259.71	1/2	957.26	1/2	666.12	1/2	362.56	1/2	61.91	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,555.37	3/4	1,253.39	3/4	951.21	3/4	659.80	3/4	356.23	3/4	56.39	3/4		3/4	3/4	3/4		3/4	3/4
1	1,549.05	1	1,247.06	1	945.16	1	653.47	1	349.91	1	50.87	1		1		1		1	
1/4	1,542.72	1/4	1,240.74	1/4	939.12	1/4	647.15	1/4	343.59	1/4	45.36	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,536.40	1/2	1,234.41	1/2	933.07	1/2	640.82	1/2	337.26	1/2	39.84	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,530.08	3/4	1,228.09	3/4	927.03	3/4	634.50	3/4	330.94	3/4	35.58	3/4		3/4	3/4	3/4		3/4	3/4
2	1,523.75	2	1,221.77	2	920.98	2	628.18	2	324.61	2	31.33	2		2		2		2	
1/4	1,517.43	1/4	1,215.44	1/4	914.94	1/4	621.85	1/4	318.29	1/4	27.07	1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,511.10	1/2	1,209.12	1/2	908.89	1/2	615.53	1/2	311.97	1/2	22.81	1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,504.78	3/4	1,202.79	3/4	902.84	3/4	609.20	3/4	305.64	3/4		3/4		3/4	3/4	3/4		3/4	3/4
3	1,498.45	3	1,196.47	3	896.80	3	602.88	3	299.32	3		3		3		3		3	
1/4	1,492.13	1/4	1,190.14	1/4	890.75	1/4	596.55	1/4	292.99	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,485.80	1/2	1,183.82	1/2	884.71	1/2	590.23	1/2	286.67	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,479.58	3/4	1,177.49	3/4	878.67	3/4	583.91	3/4	280.34	3/4		3/4		3/4	3/4	3/4		3/4	3/4
4	1,473.35	4	1,171.17	4	872.63	4	577.58	4	274.02	4		4		4		4		4	
1/4	1,467.13	1/4	1,164.85	1/4	866.59	1/4	571.26	1/4	267.70	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,460.90	1/2	1,158.52	1/2	860.55	1/2	564.93	1/2	261.37	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,454.68	3/4	1,152.20	3/4	854.51	3/4	558.61	3/4	255.05	3/4		3/4		3/4	3/4	3/4		3/4	3/4
5	1,448.45	5	1,145.87	5	848.47	5	552.29	5	248.72	5		5		5		5		5	
1/4	1,442.23	1/4	1,139.55	1/4	842.43	1/4	545.96	1/4	242.40	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,436.00	1/2	1,133.22	1/2	836.38	1/2	539.64	1/2	236.08	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,429.78	3/4	1,126.90	3/4	830.34	3/4	533.31	3/4	229.75	3/4		3/4		3/4	3/4	3/4		3/4	3/4
6	1,423.55	6	1,120.58	6	824.30	6	526.99	6	223.43	6		6		6		6		6	
1/4	1,417.33	1/4	1,114.25	1/4	818.26	1/4	520.66	1/4	217.10	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,411.10	1/2	1,107.93	1/2	812.22	1/2	514.34	1/2	210.78	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,404.88	3/4	1,101.60	3/4	806.18	3/4	508.02	3/4	204.45	3/4		3/4		3/4	3/4	3/4		3/4	3/4
7	1,398.65	7	1,095.28	7	800.14	7	501.69	7	198.13	7		7		7		7		7	
1/4	1,392.43	1/4	1,088.95	1/4	794.10	1/4	495.37	1/4	191.81	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,386.20	1/2	1,082.63	1/2	788.06	1/2	489.04	1/2	185.48	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,379.88	3/4	1,076.30	3/4	782.02	3/4	482.72	3/4	179.16	3/4		3/4		3/4	3/4	3/4		3/4	3/4
8	1,373.55	8	1,069.98	8	775.98	8	476.39	8	172.83	8		8		8		8		8	
1/4	1,367.23	1/4	1,063.66	1/4	769.94	1/4	470.07	1/4	166.51	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,360.90	1/2	1,057.33	1/2	763.90	1/2	463.75	1/2	160.18	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,354.58	3/4	1,051.01	3/4	757.86	3/4	457.42	3/4	154.03	3/4		3/4		3/4	3/4	3/4		3/4	3/4
9	1,348.25	9	1,044.68	9	751.82	9	451.10	9	147.88	9		9		9		9		9	
1/4	1,341.93	1/4	1,038.36	1/4	745.78	1/4	444.77	1/4	141.72	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,335.60	1/2	1,032.03	1/2	739.74	1/2	438.45	1/2	135.57	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,329.28	3/4	1,025.71	3/4	733.70	3/4	432.13	3/4	129.42	3/4		3/4		3/4	3/4	3/4		3/4	3/4
10	1,322.96	10	1,019.38	10	727.66	10	425.80	10	123.27	10		10		10		10		10	
1/4	1,316.63	1/4	1,013.06	1/4	721.62	1/4	419.48	1/4	117.12	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,310.31	1/2	1,006.74	1/2	715.58	1/2	413.15	1/2	110.97	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,303.98	3/4	1,000.41	3/4	709.54	3/4	406.83	3/4	104.83	3/4		3/4		3/4	3/4	3/4		3/4	3/4
11	1,297.66	11	994.09	11	703.50	11	400.50	11	98.68	11		11		11		11		11	
1/4	1,291.33	1/4	987.76	1/4	697.46	1/4	394.18	1/4	92.54	1/4		1/4		1/4	1/4	1/4		1/4	1/4
1/2	1,285.01	1/2	981.44	1/2	691.42	1/2	387.86	1/2	86.40	1/2		1/2		1/2	1/2	1/2		1/2	1/2
3/4	1,278.69	3/4	975.39	3/4	685.09	3/4	381.53	3/4	80.27	3/4		3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/29/2015 CL  
CALCULATED: 04/30/2015 CL  
PRINTED: 05/01/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2015

PRECISION MEASUREMENT  
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# BARGE "MM 312"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,013.97	0	3,710.59	0	3,407.20	0	3,103.81	0	2,800.41	0	2,497.01	0	2,193.62	0	1,890.22
1/4		1/4		1/4	4,007.65	1/4	3,704.27	1/4	3,400.88	1/4	3,097.49	1/4	2,794.09	1/4	2,490.69	1/4	2,187.30	1/4	1,883.90
1/2		1/2		1/2	4,300.01	1/2	3,697.95	1/2	3,394.56	1/2	3,091.17	1/2	2,787.77	1/2	2,484.37	1/2	2,180.97	1/2	1,877.58
3/4		3/4		3/4	4,294.39	3/4	3,995.01	3/4	3,691.63	3/4	3,388.24	3/4	3,084.85	3/4	2,781.45	3/4	2,478.05	3/4	1,871.26
1		1		1	4,288.76	1	3,988.69	1	3,685.31	1	3,381.92	1	3,078.53	1	2,775.13	1	2,471.73	1	1,864.93
1/4		1/4		1/4	4,283.14	1/4	3,982.37	1/4	3,678.99	1/4	3,375.60	1/4	3,072.21	1/4	2,768.81	1/4	2,465.41	1/4	1,858.61
1/2		1/2		1/2	4,277.51	1/2	3,976.05	1/2	3,672.67	1/2	3,369.28	1/2	3,065.89	1/2	2,762.49	1/2	2,459.09	1/2	1,852.29
3/4		3/4		3/4	4,271.28	3/4	3,969.73	3/4	3,666.34	3/4	3,362.96	3/4	3,059.57	3/4	2,756.17	3/4	2,452.77	3/4	1,845.97
2		2		2	4,265.06	2	3,963.41	2	3,660.02	2	3,356.64	2	3,053.24	2	2,749.85	2	2,446.45	2	1,839.65
1/4		1/4		1/4	4,258.83	1/4	3,957.09	1/4	3,653.70	1/4	3,350.32	1/4	3,046.92	1/4	2,743.53	1/4	2,440.13	1/4	1,833.33
1/2		1/2		1/2	4,252.60	1/2	3,950.77	1/2	3,647.38	1/2	3,344.00	1/2	3,040.60	1/2	2,737.20	1/2	2,433.81	1/2	1,827.01
3/4		3/4		3/4	4,246.35	3/4	3,944.45	3/4	3,641.06	3/4	3,337.68	3/4	3,034.28	3/4	2,730.88	3/4	2,427.49	3/4	1,820.69
3		3		3	4,240.10	3	3,938.13	3	3,634.74	3	3,331.36	3	3,027.96	3	2,724.56	3	2,421.16	3	1,814.37
1/4		1/4		1/4	4,233.86	1/4	3,931.81	1/4	3,628.42	1/4	3,325.04	1/4	3,021.64	1/4	2,718.24	1/4	2,414.84	1/4	1,808.05
1/2		1/2		1/2	4,227.61	1/2	3,925.49	1/2	3,622.10	1/2	3,318.72	1/2	3,015.32	1/2	2,711.92	1/2	2,408.52	1/2	1,801.73
3/4		3/4		3/4	4,221.35	3/4	3,919.16	3/4	3,615.78	3/4	3,312.40	3/4	3,009.00	3/4	2,705.60	3/4	2,402.20	3/4	1,795.41
4		4		4	4,215.09	4	3,912.84	4	3,609.46	4	3,306.08	4	3,002.68	4	2,699.28	4	2,395.88	4	1,789.08
1/4		1/4		1/4	4,208.84	1/4	3,906.52	1/4	3,603.14	1/4	3,299.76	1/4	2,996.36	1/4	2,692.96	1/4	2,389.56	1/4	1,782.76
1/2		1/2		1/2	4,202.58	1/2	3,900.20	1/2	3,596.82	1/2	3,293.44	1/2	2,990.04	1/2	2,686.64	1/2	2,383.24	1/2	1,776.44
3/4		3/4		3/4	4,196.32	3/4	3,893.88	3/4	3,590.50	3/4	3,287.11	3/4	2,983.72	3/4	2,680.32	3/4	2,376.92	3/4	1,770.12
5		5		5	4,190.07	5	3,887.56	5	3,584.18	5	3,280.79	5	2,977.40	5	2,674.00	5	2,370.60	5	1,763.80
1/4		1/4		1/4	4,183.81	1/4	3,881.24	1/4	3,577.86	1/4	3,274.47	1/4	2,971.07	1/4	2,667.68	1/4	2,364.28	1/4	1,757.48
1/2		1/2		1/2	4,177.55	1/2	3,874.92	1/2	3,571.54	1/2	3,268.15	1/2	2,964.75	1/2	2,661.36	1/2	2,357.96	1/2	1,751.16
3/4		3/4		3/4	4,171.29	3/4	3,868.60	3/4	3,565.22	3/4	3,261.83	3/4	2,958.43	3/4	2,655.03	3/4	2,351.64	3/4	1,744.84
6		6		6	4,165.04	6	3,862.28	6	3,558.90	6	3,255.51	6	2,952.11	6	2,648.71	6	2,345.32	6	1,738.52
1/4		1/4		1/4	4,158.78	1/4	3,855.96	1/4	3,552.58	1/4	3,249.19	1/4	2,945.79	1/4	2,642.39	1/4	2,338.99	1/4	1,732.20
1/2		1/2		1/2	4,152.52	1/2	3,849.64	1/2	3,546.26	1/2	3,242.87	1/2	2,939.47	1/2	2,636.07	1/2	2,332.67	1/2	1,725.88
3/4		3/4		3/4	4,146.26	3/4	3,843.32	3/4	3,539.93	3/4	3,236.55	3/4	2,933.15	3/4	2,629.75	3/4	2,326.35	3/4	1,719.56
7		7		7	4,140.00	7	3,837.00	7	3,533.61	7	3,230.23	7	2,926.83	7	2,623.43	7	2,320.03	7	1,713.24
1/4		1/4		1/4	4,133.75	1/4	3,830.68	1/4	3,527.29	1/4	3,223.91	1/4	2,920.51	1/4	2,617.11	1/4	2,313.71	1/4	1,706.91
1/2		1/2		1/2	4,127.49	1/2	3,824.36	1/2	3,520.97	1/2	3,217.59	1/2	2,914.19	1/2	2,610.79	1/2	2,307.39	1/2	1,700.59
3/4		3/4		3/4	4,121.23	3/4	3,818.04	3/4	3,514.65	3/4	3,211.26	3/4	2,907.87	3/4	2,604.47	3/4	2,301.07	3/4	1,694.27
8		8		8	4,114.97	8	3,811.72	8	3,508.33	8	3,204.94	8	2,901.55	8	2,598.15	8	2,294.75	8	1,687.95
1/4		1/4		1/4	4,108.72	1/4	3,805.40	1/4	3,502.01	1/4	3,198.62	1/4	2,895.22	1/4	2,591.83	1/4	2,288.43	1/4	1,681.63
1/2		1/2		1/2	4,102.46	1/2	3,799.08	1/2	3,495.69	1/2	3,192.30	1/2	2,888.90	1/2	2,585.51	1/2	2,282.11	1/2	1,675.31
3/4		3/4		3/4	4,096.14	3/4	3,792.75	3/4	3,489.37	3/4	3,185.98	3/4	2,882.58	3/4	2,579.18	3/4	2,275.79	3/4	1,668.99
9		9		9	4,089.82	9	3,786.43	9	3,483.05	9	3,179.66	9	2,876.26	9	2,572.86	9	2,269.47	9	1,662.67
1/4		1/4		1/4	4,083.50	1/4	3,780.11	1/4	3,476.73	1/4	3,173.34	1/4	2,869.94	1/4	2,566.54	1/4	2,263.14	1/4	1,656.35
1/2		1/2		1/2	4,077.18	1/2	3,773.79	1/2	3,470.41	1/2	3,167.02	1/2	2,863.62	1/2	2,560.22	1/2	2,256.82	1/2	1,650.03
3/4		3/4		3/4	4,070.86	3/4	3,767.47	3/4	3,464.09	3/4	3,160.70	3/4	2,857.30	3/4	2,553.90	3/4	2,250.50	3/4	1,643.71
10		10		10	4,064.54	10	3,761.15	10	3,457.77	10	3,154.38	10	2,850.98	10	2,547.58	10	2,244.18	10	1,637.39
1/4		1/4		1/4	4,058.22	1/4	3,754.83	1/4	3,451.45	1/4	3,148.06	1/4	2,844.66	1/4	2,541.26	1/4	2,237.86	1/4	1,631.06
1/2		1/2		1/2	4,051.90	1/2	3,748.51	1/2	3,445.13	1/2	3,141.74	1/2	2,838.34	1/2	2,534.94	1/2	2,231.54	1/2	1,624.74
3/4		3/4		3/4	4,045.57	3/4	3,742.19	3/4	3,438.81	3/4	3,135.42	3/4	2,832.02	3/4	2,528.62	3/4	2,225.22	3/4	1,618.42
11		11		11	4,039.25	11	3,735.87	11	3,432.49	11	3,129.09	11	2,825.70	11	2,522.30	11	2,218.90	11	1,612.10
1/4		1/4		1/4	4,032.93	1/4	3,729.55	1/4	3,426.17	1/4	3,122.77	1/4	2,819.38	1/4	2,515.98	1/4	2,212.58	1/4	1,605.78
1/2		1/2		1/2	4,026.61	1/2	3,723.23	1/2	3,419.85	1/2	3,116.45	1/2	2,813.05	1/2	2,509.66	1/2	2,206.26	1/2	1,599.46
3/4		3/4		3/4	4,020.29	3/4	3,716.91	3/4	3,413.52	3/4	3,110.13	3/4	2,806.73	3/4	2,503.34	3/4	2,199.94	3/4	1,593.14

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "MM 312"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,586.82	0	1,285.01	0	981.61	0	678.38	0	374.99	0	74.11	0		0		0		0	
1/4	1,580.50	1/4	1,278.69	1/4	975.29	1/4	672.06	1/4	368.67	1/4	67.99	1/4		1/4		1/4		1/4	
1/2	1,574.18	1/2	1,272.37	1/2	968.97	1/2	665.74	1/2	362.35	1/2	61.87	1/2		1/2		1/2		1/2	
3/4	1,567.86	3/4	1,266.05	3/4	962.65	3/4	659.42	3/4	356.03	3/4	56.36	3/4		3/4		3/4		3/4	
1	1,561.54	1	1,259.72	1	956.33	1	653.10	1	349.71	1	50.84	1		1		1		1	
1/4	1,555.22	1/4	1,253.40	1/4	950.01	1/4	646.78	1/4	343.39	1/4	45.33	1/4		1/4		1/4		1/4	
1/2	1,548.89	1/2	1,247.08	1/2	943.68	1/2	640.45	1/2	337.07	1/2	39.81	1/2		1/2		1/2		1/2	
3/4	1,542.57	3/4	1,240.76	3/4	937.36	3/4	634.13	3/4	330.75	3/4	35.56	3/4		3/4		3/4		3/4	
2	1,536.25	2	1,234.44	2	931.04	2	627.81	2	324.42	2	31.31	2		2		2		2	
1/4	1,529.93	1/4	1,228.12	1/4	924.72	1/4	621.49	1/4	318.10	1/4	27.05	1/4		1/4		1/4		1/4	
1/2	1,523.61	1/2	1,221.80	1/2	918.40	1/2	615.17	1/2	311.78	1/2	22.80	1/2		1/2		1/2		1/2	
3/4	1,517.29	3/4	1,215.48	3/4	912.08	3/4	608.85	3/4	305.46	3/4		3/4		3/4		3/4		3/4	
3	1,510.97	3	1,209.16	3	905.76	3	602.53	3	299.14	3		3		3		3		3	
1/4	1,504.65	1/4	1,202.84	1/4	899.44	1/4	596.21	1/4	292.82	1/4		1/4		1/4		1/4		1/4	
1/2	1,498.33	1/2	1,196.52	1/2	893.12	1/2	589.89	1/2	286.50	1/2		1/2		1/2		1/2		1/2	
3/4	1,492.11	3/4	1,190.20	3/4	886.80	3/4	583.57	3/4	280.18	3/4		3/4		3/4		3/4		3/4	
4	1,485.88	4	1,183.88	4	880.49	4	577.25	4	273.86	4		4		4		4		4	
1/4	1,479.66	1/4	1,177.55	1/4	874.17	1/4	570.93	1/4	267.54	1/4		1/4		1/4		1/4		1/4	
1/2	1,473.44	1/2	1,171.23	1/2	867.86	1/2	564.61	1/2	261.22	1/2		1/2		1/2		1/2		1/2	
3/4	1,467.22	3/4	1,164.91	3/4	861.54	3/4	558.29	3/4	254.90	3/4		3/4		3/4		3/4		3/4	
5	1,461.00	5	1,158.59	5	855.22	5	551.97	5	248.58	5		5		5		5		5	
1/4	1,454.78	1/4	1,152.27	1/4	848.91	1/4	545.65	1/4	242.26	1/4		1/4		1/4		1/4		1/4	
1/2	1,448.56	1/2	1,145.95	1/2	842.59	1/2	539.32	1/2	235.94	1/2		1/2		1/2		1/2		1/2	
3/4	1,442.33	3/4	1,139.63	3/4	836.28	3/4	533.00	3/4	229.62	3/4		3/4		3/4		3/4		3/4	
6	1,436.11	6	1,133.31	6	829.96	6	526.68	6	223.29	6		6		6		6		6	
1/4	1,429.89	1/4	1,126.99	1/4	823.65	1/4	520.36	1/4	216.97	1/4		1/4		1/4		1/4		1/4	
1/2	1,423.67	1/2	1,120.67	1/2	817.33	1/2	514.04	1/2	210.65	1/2		1/2		1/2		1/2		1/2	
3/4	1,417.45	3/4	1,114.35	3/4	811.02	3/4	507.72	3/4	204.33	3/4		3/4		3/4		3/4		3/4	
7	1,411.23	7	1,108.03	7	804.70	7	501.40	7	198.01	7		7		7		7		7	
1/4	1,405.00	1/4	1,101.70	1/4	798.38	1/4	495.08	1/4	191.69	1/4		1/4		1/4		1/4		1/4	
1/2	1,398.78	1/2	1,095.38	1/2	792.07	1/2	488.76	1/2	185.37	1/2		1/2		1/2		1/2		1/2	
3/4	1,392.46	3/4	1,089.06	3/4	785.75	3/4	482.44	3/4	179.05	3/4		3/4		3/4		3/4		3/4	
8	1,386.14	8	1,082.74	8	779.44	8	476.12	8	172.73	8		8		8		8		8	
1/4	1,379.82	1/4	1,076.42	1/4	773.12	1/4	469.80	1/4	166.41	1/4		1/4		1/4		1/4		1/4	
1/2	1,373.50	1/2	1,070.10	1/2	766.81	1/2	463.48	1/2	160.09	1/2		1/2		1/2		1/2		1/2	
3/4	1,367.18	3/4	1,063.78	3/4	760.49	3/4	457.16	3/4	153.94	3/4		3/4		3/4		3/4		3/4	
9	1,360.86	9	1,057.46	9	754.18	9	450.84	9	147.79	9		9		9		9		9	
1/4	1,354.54	1/4	1,051.14	1/4	747.86	1/4	444.52	1/4	141.64	1/4		1/4		1/4		1/4		1/4	
1/2	1,348.22	1/2	1,044.82	1/2	741.54	1/2	438.20	1/2	135.49	1/2		1/2		1/2		1/2		1/2	
3/4	1,341.90	3/4	1,038.50	3/4	735.23	3/4	431.87	3/4	129.34	3/4		3/4		3/4		3/4		3/4	
10	1,335.57	10	1,032.18	10	728.91	10	425.55	10	123.20	10		10		10		10		10	
1/4	1,329.25	1/4	1,025.86	1/4	722.60	1/4	419.23	1/4	117.05	1/4		1/4		1/4		1/4		1/4	
1/2	1,322.93	1/2	1,019.53	1/2	716.28	1/2	412.91	1/2	110.90	1/2		1/2		1/2		1/2		1/2	
3/4	1,316.61	3/4	1,013.21	3/4	709.97	3/4	406.59	3/4	104.76	3/4		3/4		3/4		3/4		3/4	
11	1,310.29	11	1,006.89	11	703.65	11	400.27	11	98.62	11		11		11		11		11	
1/4	1,303.97	1/4	1,000.57	1/4	697.33	1/4	393.95	1/4	92.48	1/4		1/4		1/4		1/4		1/4	
1/2	1,297.65	1/2	994.25	1/2	691.02	1/2	387.63	1/2	86.34	1/2		1/2		1/2		1/2		1/2	
3/4	1,291.33	3/4	987.93	3/4	684.70	3/4	381.31	3/4	80.23	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/29/2015 CL  
CALCULATED: 04/30/2015 CL  
PRINTED: 05/01/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2015

PRECISION MEASUREMENT  
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<http://www.pmacorp.net>



# BARGE "MM 312"

# 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,002.89	0	3,699.33	0	3,395.77	0	3,092.20	0	2,788.63	0	2,485.06	0	2,181.49	0	1,877.92
1/4		1/4		1/4	3,996.57	1/4	3,693.01	1/4	3,389.45	1/4	3,085.88	1/4	2,782.31	1/4	2,478.74	1/4	2,175.16	1/4	1,871.59
1/2		1/2	4,289.10	1/2	3,990.24	1/2	3,686.68	1/2	3,383.12	1/2	3,079.55	1/2	2,775.98	1/2	2,472.41	1/2	2,168.84	1/2	1,865.27
3/4		3/4	4,283.47	3/4	3,983.92	3/4	3,680.36	3/4	3,376.80	3/4	3,073.23	3/4	2,769.66	3/4	2,466.09	3/4	2,162.52	3/4	1,858.94
1		1	4,277.84	1	3,977.60	1	3,674.03	1	3,370.47	1	3,066.90	1	2,763.33	1	2,459.76	1	2,156.19	1	1,852.62
1/4		1/4	4,272.22	1/4	3,971.27	1/4	3,667.71	1/4	3,364.15	1/4	3,060.58	1/4	2,757.01	1/4	2,453.44	1/4	2,149.87	1/4	1,846.30
1/2		1/2	4,266.59	1/2	3,964.95	1/2	3,661.39	1/2	3,357.82	1/2	3,054.26	1/2	2,750.68	1/2	2,447.11	1/2	2,143.54	1/2	1,839.97
3/4		3/4	4,260.36	3/4	3,958.62	3/4	3,655.06	3/4	3,351.50	3/4	3,047.93	3/4	2,744.36	3/4	2,440.79	3/4	2,137.22	3/4	1,833.65
2		2	4,254.13	2	3,952.30	2	3,648.74	2	3,345.18	2	3,041.61	2	2,738.04	2	2,434.46	2	2,130.89	2	1,827.32
1/4		1/4	4,247.90	1/4	3,945.98	1/4	3,642.41	1/4	3,338.85	1/4	3,035.28	1/4	2,731.71	1/4	2,428.14	1/4	2,124.57	1/4	1,821.00
1/2		1/2	4,241.66	1/2	3,939.65	1/2	3,636.09	1/2	3,332.53	1/2	3,028.96	1/2	2,725.39	1/2	2,421.82	1/2	2,118.24	1/2	1,814.67
3/4		3/4	4,235.41	3/4	3,933.33	3/4	3,629.77	3/4	3,326.20	3/4	3,022.63	3/4	2,719.06	3/4	2,415.49	3/4	2,111.92	3/4	1,808.35
3		3	4,229.16	3	3,927.00	3	3,623.44	3	3,319.88	3	3,016.31	3	2,712.74	3	2,409.17	3	2,105.60	3	1,802.02
1/4		1/4	4,222.91	1/4	3,920.68	1/4	3,617.12	1/4	3,313.56	1/4	3,009.99	1/4	2,706.41	1/4	2,402.84	1/4	2,099.27	1/4	1,795.70
1/2		1/2	4,216.65	1/2	3,914.35	1/2	3,610.79	1/2	3,307.23	1/2	3,003.66	1/2	2,700.09	1/2	2,396.52	1/2	2,092.95	1/2	1,789.38
3/4		3/4	4,210.39	3/4	3,908.03	3/4	3,604.47	3/4	3,300.91	3/4	2,997.34	3/4	2,693.77	3/4	2,390.19	3/4	2,086.62	3/4	1,783.05
4		4	4,204.13	4	3,901.71	4	3,598.14	4	3,294.58	4	2,991.01	4	2,687.44	4	2,383.87	4	2,080.30	4	1,776.73
1/4		1/4	4,197.87	1/4	3,895.38	1/4	3,591.82	1/4	3,288.26	1/4	2,984.69	1/4	2,681.12	1/4	2,377.55	1/4	2,073.97	1/4	1,770.40
1/2		1/2	4,191.61	1/2	3,889.06	1/2	3,585.50	1/2	3,281.93	1/2	2,978.36	1/2	2,674.79	1/2	2,371.22	1/2	2,067.65	1/2	1,764.08
3/4		3/4	4,185.35	3/4	3,882.73	3/4	3,579.17	3/4	3,275.61	3/4	2,972.04	3/4	2,668.47	3/4	2,364.90	3/4	2,061.33	3/4	1,757.75
5		5	4,179.09	5	3,876.41	5	3,572.85	5	3,269.29	5	2,965.71	5	2,662.14	5	2,358.57	5	2,055.00	5	1,751.43
1/4		1/4	4,172.83	1/4	3,870.08	1/4	3,566.52	1/4	3,262.96	1/4	2,959.39	1/4	2,655.82	1/4	2,352.25	1/4	2,048.68	1/4	1,745.11
1/2		1/2	4,166.56	1/2	3,863.76	1/2	3,560.20	1/2	3,256.64	1/2	2,953.07	1/2	2,649.49	1/2	2,345.92	1/2	2,042.35	1/2	1,738.78
3/4		3/4	4,160.30	3/4	3,857.44	3/4	3,553.87	3/4	3,250.31	3/4	2,946.74	3/4	2,643.17	3/4	2,339.60	3/4	2,036.03	3/4	1,732.46
6		6	4,154.04	6	3,851.11	6	3,547.55	6	3,243.99	6	2,940.42	6	2,636.85	6	2,333.27	6	2,029.70	6	1,726.13
1/4		1/4	4,147.78	1/4	3,844.79	1/4	3,541.23	1/4	3,237.66	1/4	2,934.09	1/4	2,630.52	1/4	2,326.95	1/4	2,023.38	1/4	1,719.81
1/2		1/2	4,141.52	1/2	3,838.46	1/2	3,534.90	1/2	3,231.34	1/2	2,927.77	1/2	2,624.20	1/2	2,320.63	1/2	2,017.05	1/2	1,713.48
3/4		3/4	4,135.26	3/4	3,832.14	3/4	3,528.58	3/4	3,225.01	3/4	2,921.44	3/4	2,617.87	3/4	2,314.30	3/4	2,010.73	3/4	1,707.16
7		7	4,129.00	7	3,825.82	7	3,522.25	7	3,218.69	7	2,915.12	7	2,611.55	7	2,307.98	7	2,004.41	7	1,700.83
1/4		1/4	4,122.74	1/4	3,819.49	1/4	3,515.93	1/4	3,212.37	1/4	2,908.79	1/4	2,605.22	1/4	2,301.65	1/4	1,998.08	1/4	1,694.51
1/2		1/2	4,116.48	1/2	3,813.17	1/2	3,509.61	1/2	3,206.04	1/2	2,902.47	1/2	2,598.90	1/2	2,295.33	1/2	1,991.76	1/2	1,688.19
3/4		3/4	4,110.21	3/4	3,806.84	3/4	3,503.28	3/4	3,199.72	3/4	2,896.15	3/4	2,592.57	3/4	2,289.00	3/4	1,985.43	3/4	1,681.86
8		8	4,103.95	8	3,800.52	8	3,496.96	8	3,193.39	8	2,889.82	8	2,586.25	8	2,282.68	8	1,979.11	8	1,675.54
1/4		1/4	4,097.69	1/4	3,794.19	1/4	3,490.63	1/4	3,187.07	1/4	2,883.50	1/4	2,579.93	1/4	2,276.35	1/4	1,972.78	1/4	1,669.21
1/2		1/2	4,091.43	1/2	3,787.87	1/2	3,484.31	1/2	3,180.74	1/2	2,877.17	1/2	2,573.60	1/2	2,270.03	1/2	1,966.46	1/2	1,662.89
3/4		3/4	4,085.11	3/4	3,781.55	3/4	3,477.98	3/4	3,174.42	3/4	2,870.85	3/4	2,567.28	3/4	2,263.71	3/4	1,960.13	3/4	1,656.56
9		9	4,078.78	9	3,775.22	9	3,471.66	9	3,168.10	9	2,864.52	9	2,560.95	9	2,257.38	9	1,953.81	9	1,650.24
1/4		1/4	4,072.46	1/4	3,768.90	1/4	3,465.34	1/4	3,161.77	1/4	2,858.20	1/4	2,554.63	1/4	2,251.06	1/4	1,947.49	1/4	1,643.91
1/2		1/2	4,066.14	1/2	3,762.57	1/2	3,459.01	1/2	3,155.45	1/2	2,851.88	1/2	2,548.30	1/2	2,244.73	1/2	1,941.16	1/2	1,637.59
3/4		3/4	4,059.81	3/4	3,756.25	3/4	3,452.69	3/4	3,149.12	3/4	2,845.55	3/4	2,541.98	3/4	2,238.41	3/4	1,934.84	3/4	1,631.27
10		10	4,053.49	10	3,749.93	10	3,446.36	10	3,142.80	10	2,839.23	10	2,535.66	10	2,232.08	10	1,928.51	10	1,624.94
1/4		1/4	4,047.16	1/4	3,743.60	1/4	3,440.04	1/4	3,136.47	1/4	2,832.90	1/4	2,529.33	1/4	2,225.76	1/4	1,922.19	1/4	1,618.62
1/2		1/2	4,040.84	1/2	3,737.28	1/2	3,433.72	1/2	3,130.15	1/2	2,826.58	1/2	2,523.01	1/2	2,219.44	1/2	1,915.86	1/2	1,612.29
3/4		3/4	4,034.51	3/4	3,730.95	3/4	3,427.39	3/4	3,123.82	3/4	2,820.25	3/4	2,516.68	3/4	2,213.11	3/4	1,909.54	3/4	1,605.97
11		11	4,028.19	11	3,724.63	11	3,421.07	11	3,117.50	11	2,813.93	11	2,510.36	11	2,206.79	11	1,903.22	11	1,599.64
1/4		1/4	4,021.87	1/4	3,718.30	1/4	3,414.74	1/4	3,111.18	1/4	2,807.60	1/4	2,504.03	1/4	2,200.46	1/4	1,896.89	1/4	1,593.32
1/2		1/2	4,015.54	1/2	3,711.98	1/2	3,408.42	1/2	3,104.85	1/2	2,801.28	1/2	2,497.71	1/2	2,194.14	1/2	1,890.57	1/2	1,587.00
3/4		3/4	4,009.22	3/4	3,705.66	3/4	3,402.09	3/4	3,098.53	3/4	2,794.96	3/4	2,491.38	3/4	2,187.81	3/4	1,884.24	3/4	1,580.67

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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# BARGE "MM 312"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,574.35	0	1,272.36	0	969.35	0	678.77	0	375.21	0	74.15	0		0		0		0	
1/4	1,568.02	1/4	1,266.04	1/4	963.30	1/4	672.44	1/4	368.88	1/4	68.03	1/4		1/4		1/4		1/4	
1/2	1,561.70	1/2	1,259.71	1/2	957.26	1/2	666.12	1/2	362.56	1/2	61.91	1/2		1/2		1/2		1/2	
3/4	1,555.37	3/4	1,253.39	3/4	951.21	3/4	659.80	3/4	356.23	3/4	56.39	3/4		3/4		3/4		3/4	
1	1,549.05	1	1,247.06	1	945.16	1	653.47	1	349.91	1	50.87	1		1		1		1	
1/4	1,542.72	1/4	1,240.74	1/4	939.12	1/4	647.15	1/4	343.59	1/4	45.36	1/4		1/4		1/4		1/4	
1/2	1,536.40	1/2	1,234.41	1/2	933.07	1/2	640.82	1/2	337.26	1/2	39.84	1/2		1/2		1/2		1/2	
3/4	1,530.08	3/4	1,228.09	3/4	927.03	3/4	634.50	3/4	330.94	3/4	35.58	3/4		3/4		3/4		3/4	
2	1,523.75	2	1,221.77	2	920.98	2	628.18	2	324.61	2	31.33	2		2		2		2	
1/4	1,517.43	1/4	1,215.44	1/4	914.94	1/4	621.85	1/4	318.29	1/4	27.07	1/4		1/4		1/4		1/4	
1/2	1,511.10	1/2	1,209.12	1/2	908.89	1/2	615.53	1/2	311.97	1/2	22.81	1/2		1/2		1/2		1/2	
3/4	1,504.78	3/4	1,202.79	3/4	902.84	3/4	609.20	3/4	305.64	3/4		3/4		3/4		3/4		3/4	
3	1,498.45	3	1,196.47	3	896.80	3	602.88	3	299.32	3		3		3		3		3	
1/4	1,492.13	1/4	1,190.14	1/4	890.75	1/4	596.55	1/4	292.99	1/4		1/4		1/4		1/4		1/4	
1/2	1,485.80	1/2	1,183.82	1/2	884.71	1/2	590.23	1/2	286.67	1/2		1/2		1/2		1/2		1/2	
3/4	1,479.58	3/4	1,177.49	3/4	878.67	3/4	583.91	3/4	280.34	3/4		3/4		3/4		3/4		3/4	
4	1,473.35	4	1,171.17	4	872.63	4	577.58	4	274.02	4		4		4		4		4	
1/4	1,467.13	1/4	1,164.85	1/4	866.59	1/4	571.26	1/4	267.70	1/4		1/4		1/4		1/4		1/4	
1/2	1,460.90	1/2	1,158.52	1/2	860.55	1/2	564.93	1/2	261.37	1/2		1/2		1/2		1/2		1/2	
3/4	1,454.68	3/4	1,152.20	3/4	854.51	3/4	558.61	3/4	255.05	3/4		3/4		3/4		3/4		3/4	
5	1,448.45	5	1,145.87	5	848.47	5	552.29	5	248.72	5		5		5		5		5	
1/4	1,442.23	1/4	1,139.55	1/4	842.43	1/4	545.96	1/4	242.40	1/4		1/4		1/4		1/4		1/4	
1/2	1,436.00	1/2	1,133.22	1/2	836.38	1/2	539.64	1/2	236.08	1/2		1/2		1/2		1/2		1/2	
3/4	1,429.78	3/4	1,126.90	3/4	830.34	3/4	533.31	3/4	229.75	3/4		3/4		3/4		3/4		3/4	
6	1,423.55	6	1,120.58	6	824.30	6	526.99	6	223.43	6		6		6		6		6	
1/4	1,417.33	1/4	1,114.25	1/4	818.26	1/4	520.66	1/4	217.10	1/4		1/4		1/4		1/4		1/4	
1/2	1,411.10	1/2	1,107.93	1/2	812.22	1/2	514.34	1/2	210.78	1/2		1/2		1/2		1/2		1/2	
3/4	1,404.88	3/4	1,101.60	3/4	806.18	3/4	508.02	3/4	204.45	3/4		3/4		3/4		3/4		3/4	
7	1,398.65	7	1,095.28	7	800.14	7	501.69	7	198.13	7		7		7		7		7	
1/4	1,392.43	1/4	1,088.95	1/4	794.10	1/4	495.37	1/4	191.81	1/4		1/4		1/4		1/4		1/4	
1/2	1,386.20	1/2	1,082.63	1/2	788.06	1/2	489.04	1/2	185.48	1/2		1/2		1/2		1/2		1/2	
3/4	1,379.88	3/4	1,076.30	3/4	782.02	3/4	482.72	3/4	179.16	3/4		3/4		3/4		3/4		3/4	
8	1,373.55	8	1,069.98	8	775.98	8	476.39	8	172.83	8		8		8		8		8	
1/4	1,367.23	1/4	1,063.66	1/4	769.94	1/4	470.07	1/4	166.51	1/4		1/4		1/4		1/4		1/4	
1/2	1,360.90	1/2	1,057.33	1/2	763.90	1/2	463.75	1/2	160.18	1/2		1/2		1/2		1/2		1/2	
3/4	1,354.58	3/4	1,051.01	3/4	757.86	3/4	457.42	3/4	154.03	3/4		3/4		3/4		3/4		3/4	
9	1,348.25	9	1,044.68	9	751.82	9	451.10	9	147.88	9		9		9		9		9	
1/4	1,341.93	1/4	1,038.36	1/4	745.78	1/4	444.77	1/4	141.72	1/4		1/4		1/4		1/4		1/4	
1/2	1,335.60	1/2	1,032.03	1/2	739.74	1/2	438.45	1/2	135.57	1/2		1/2		1/2		1/2		1/2	
3/4	1,329.28	3/4	1,025.71	3/4	733.70	3/4	432.13	3/4	129.42	3/4		3/4		3/4		3/4		3/4	
10	1,322.96	10	1,019.38	10	727.66	10	425.80	10	123.27	10		10		10		10		10	
1/4	1,316.63	1/4	1,013.06	1/4	721.62	1/4	419.48	1/4	117.12	1/4		1/4		1/4		1/4		1/4	
1/2	1,310.31	1/2	1,006.74	1/2	715.58	1/2	413.15	1/2	110.97	1/2		1/2		1/2		1/2		1/2	
3/4	1,303.98	3/4	1,000.41	3/4	709.54	3/4	406.83	3/4	104.83	3/4		3/4		3/4		3/4		3/4	
11	1,297.66	11	994.09	11	703.50	11	400.50	11	98.68	11		11		11		11		11	
1/4	1,291.33	1/4	987.76	1/4	697.46	1/4	394.18	1/4	92.54	1/4		1/4		1/4		1/4		1/4	
1/2	1,285.01	1/2	981.44	1/2	691.42	1/2	387.86	1/2	86.40	1/2		1/2		1/2		1/2		1/2	
3/4	1,278.69	3/4	975.39	3/4	685.09	3/4	381.53	3/4	80.27	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/29/2015 CL  
CALCULATED: 04/30/2015 CL  
PRINTED: 05/01/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2015

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



# BARGE "MM 312"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0	4,023.74	0	3,720.11	0	3,416.47	0	3,112.82	0	2,809.16	0	2,505.50	0	2,201.83	0	1,898.17
1/4		1/4		1/4	4,017.41	1/4	3,713.78	1/4	3,410.15	1/4	3,106.50	1/4	2,802.83	1/4	2,499.17	1/4	2,195.51	1/4	1,891.85
1/2		1/2		1/2	4,011.09	1/2	3,707.45	1/2	3,403.82	1/2	3,100.17	1/2	2,796.51	1/2	2,492.84	1/2	2,189.18	1/2	1,885.52
3/4		3/4	4,303.71	3/4	4,004.76	3/4	3,701.13	3/4	3,397.50	3/4	3,093.84	3/4	2,790.18	3/4	2,486.52	3/4	2,182.86	3/4	1,879.19
1		1	4,298.08	1	3,998.44	1	3,694.80	1	3,391.17	1	3,087.52	1	2,783.85	1	2,480.19	1	2,176.53	1	1,872.87
1/4		1/4	4,292.45	1/4	3,992.11	1/4	3,688.48	1/4	3,384.84	1/4	3,081.19	1/4	2,777.53	1/4	2,473.87	1/4	2,170.20	1/4	1,866.54
1/2		1/2	4,286.82	1/2	3,985.79	1/2	3,682.15	1/2	3,378.52	1/2	3,074.86	1/2	2,771.20	1/2	2,467.54	1/2	2,163.88	1/2	1,860.21
3/4		3/4	4,281.19	3/4	3,979.46	3/4	3,675.83	3/4	3,372.19	3/4	3,068.54	3/4	2,764.87	3/4	2,461.21	3/4	2,157.55	3/4	1,853.89
2		2	4,274.96	2	3,973.13	2	3,669.50	2	3,365.87	2	3,062.21	2	2,758.55	2	2,454.89	2	2,151.22	2	1,847.56
1/4		1/4	4,268.73	1/4	3,966.81	1/4	3,663.17	1/4	3,359.54	1/4	3,055.88	1/4	2,752.22	1/4	2,448.56	1/4	2,144.90	1/4	1,841.23
1/2		1/2	4,262.49	1/2	3,960.48	1/2	3,656.85	1/2	3,353.22	1/2	3,049.56	1/2	2,745.90	1/2	2,442.23	1/2	2,138.57	1/2	1,834.91
3/4		3/4	4,256.26	3/4	3,954.16	3/4	3,650.52	3/4	3,346.89	3/4	3,043.23	3/4	2,739.57	3/4	2,435.91	3/4	2,132.24	3/4	1,828.58
3		3	4,250.01	3	3,947.83	3	3,644.20	3	3,340.56	3	3,036.91	3	2,733.24	3	2,429.58	3	2,125.92	3	1,822.26
1/4		1/4	4,243.75	1/4	3,941.51	1/4	3,637.87	1/4	3,334.24	1/4	3,030.58	1/4	2,726.92	1/4	2,423.25	1/4	2,119.59	1/4	1,815.93
1/2		1/2	4,237.50	1/2	3,935.18	1/2	3,631.55	1/2	3,327.91	1/2	3,024.25	1/2	2,720.59	1/2	2,416.93	1/2	2,113.27	1/2	1,809.60
3/4		3/4	4,231.24	3/4	3,928.85	3/4	3,625.22	3/4	3,321.59	3/4	3,017.93	3/4	2,714.26	3/4	2,410.60	3/4	2,106.94	3/4	1,803.28
4		4	4,224.98	4	3,922.53	4	3,618.89	4	3,315.26	4	3,011.60	4	2,707.94	4	2,404.28	4	2,100.61	4	1,796.95
1/4		1/4	4,218.72	1/4	3,916.20	1/4	3,612.57	1/4	3,308.94	1/4	3,005.27	1/4	2,701.61	1/4	2,397.95	1/4	2,094.29	1/4	1,790.62
1/2		1/2	4,212.45	1/2	3,909.88	1/2	3,606.24	1/2	3,302.61	1/2	2,998.95	1/2	2,695.29	1/2	2,391.62	1/2	2,087.96	1/2	1,784.30
3/4		3/4	4,206.19	3/4	3,903.55	3/4	3,599.92	3/4	3,296.28	3/4	2,992.62	3/4	2,688.96	3/4	2,385.30	3/4	2,081.63	3/4	1,777.97
5		5	4,199.92	5	3,897.23	5	3,593.59	5	3,289.96	5	2,986.30	5	2,682.63	5	2,378.97	5	2,075.31	5	1,771.65
1/4		1/4	4,193.66	1/4	3,890.90	1/4	3,587.27	1/4	3,283.63	1/4	2,979.97	1/4	2,676.31	1/4	2,372.64	1/4	2,068.98	1/4	1,765.32
1/2		1/2	4,187.40	1/2	3,884.57	1/2	3,580.94	1/2	3,277.31	1/2	2,973.64	1/2	2,669.98	1/2	2,366.32	1/2	2,062.66	1/2	1,758.99
3/4		3/4	4,181.13	3/4	3,878.25	3/4	3,574.61	3/4	3,270.98	3/4	2,967.32	3/4	2,663.65	3/4	2,359.99	3/4	2,056.33	3/4	1,752.67
6		6	4,174.87	6	3,871.92	6	3,568.29	6	3,264.65	6	2,960.99	6	2,657.33	6	2,353.67	6	2,050.00	6	1,746.34
1/4		1/4	4,168.61	1/4	3,865.60	1/4	3,561.96	1/4	3,258.33	1/4	2,954.66	1/4	2,651.00	1/4	2,347.34	1/4	2,043.68	1/4	1,740.01
1/2		1/2	4,162.34	1/2	3,859.27	1/2	3,555.64	1/2	3,252.00	1/2	2,948.34	1/2	2,644.68	1/2	2,341.01	1/2	2,037.35	1/2	1,733.69
3/4		3/4	4,156.08	3/4	3,852.95	3/4	3,549.31	3/4	3,245.67	3/4	2,942.01	3/4	2,638.35	3/4	2,334.69	3/4	2,031.02	3/4	1,727.36
7		7	4,149.82	7	3,846.62	7	3,542.99	7	3,239.35	7	2,935.68	7	2,632.02	7	2,328.36	7	2,024.70	7	1,721.04
1/4		1/4	4,143.55	1/4	3,840.29	1/4	3,536.66	1/4	3,233.02	1/4	2,929.36	1/4	2,625.70	1/4	2,322.03	1/4	2,018.37	1/4	1,714.71
1/2		1/2	4,137.29	1/2	3,833.97	1/2	3,530.33	1/2	3,226.69	1/2	2,923.03	1/2	2,619.37	1/2	2,315.71	1/2	2,012.05	1/2	1,708.38
3/4		3/4	4,131.03	3/4	3,827.64	3/4	3,524.01	3/4	3,220.37	3/4	2,916.71	3/4	2,613.04	3/4	2,309.38	3/4	2,005.72	3/4	1,702.06
8		8	4,124.76	8	3,821.32	8	3,517.68	8	3,214.04	8	2,910.38	8	2,606.72	8	2,303.05	8	1,999.39	8	1,695.73
1/4		1/4	4,118.50	1/4	3,814.99	1/4	3,511.36	1/4	3,207.72	1/4	2,904.05	1/4	2,600.39	1/4	2,296.73	1/4	1,993.07	1/4	1,689.40
1/2		1/2	4,112.24	1/2	3,808.67	1/2	3,505.03	1/2	3,201.39	1/2	2,897.73	1/2	2,594.06	1/2	2,290.40	1/2	1,986.74	1/2	1,683.08
3/4		3/4	4,105.97	3/4	3,802.34	3/4	3,498.71	3/4	3,195.06	3/4	2,891.40	3/4	2,587.74	3/4	2,284.08	3/4	1,980.41	3/4	1,676.75
9		9	4,099.65	9	3,796.01	9	3,492.38	9	3,188.74	9	2,885.07	9	2,581.41	9	2,277.75	9	1,974.09	9	1,670.42
1/4		1/4	4,093.32	1/4	3,789.69	1/4	3,486.06	1/4	3,182.41	1/4	2,878.75	1/4	2,575.09	1/4	2,271.42	1/4	1,967.76	1/4	1,664.10
1/2		1/2	4,087.00	1/2	3,783.36	1/2	3,479.73	1/2	3,176.08	1/2	2,872.42	1/2	2,568.76	1/2	2,265.10	1/2	1,961.43	1/2	1,657.77
3/4		3/4	4,080.67	3/4	3,777.04	3/4	3,473.40	3/4	3,169.76	3/4	2,866.10	3/4	2,562.43	3/4	2,258.77	3/4	1,955.11	3/4	1,651.45
10		10	4,074.35	10	3,770.71	10	3,467.08	10	3,163.43	10	2,859.77	10	2,556.11	10	2,252.44	10	1,948.78	10	1,645.12
1/4		1/4	4,068.02	1/4	3,764.39	1/4	3,460.75	1/4	3,157.11	1/4	2,853.44	1/4	2,549.78	1/4	2,246.12	1/4	1,942.46	1/4	1,638.79
1/2		1/2	4,061.69	1/2	3,758.06	1/2	3,454.43	1/2	3,150.78	1/2	2,847.12	1/2	2,543.45	1/2	2,239.79	1/2	1,936.13	1/2	1,632.47
3/4		3/4	4,055.37	3/4	3,751.73	3/4	3,448.10	3/4	3,144.45	3/4	2,840.79	3/4	2,537.13	3/4	2,233.47	3/4	1,929.80	3/4	1,626.14
11		11	4,049.04	11	3,745.41	11	3,441.78	11	3,138.13	11	2,834.46	11	2,530.80	11	2,227.14	11	1,923.48	11	1,619.81
1/4		1/4	4,042.72	1/4	3,739.08	1/4	3,435.45	1/4	3,131.80	1/4	2,828.14	1/4	2,524.48	1/4	2,220.81	1/4	1,917.15	1/4	1,613.49
1/2		1/2	4,036.39	1/2	3,732.76	1/2	3,429.12	1/2	3,125.47	1/2	2,821.81	1/2	2,518.15	1/2	2,214.49	1/2	1,910.82	1/2	1,607.16
3/4		3/4	4,030.07	3/4	3,726.43	3/4	3,422.80	3/4	3,119.15	3/4	2,815.49	3/4	2,511.82	3/4	2,208.16	3/4	1,904.50	3/4	1,600.84

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 36'-03" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 37'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

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



# BARGE "MM 312"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 15'-02 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,594.51	0	1,292.44	0	988.78	0	685.29	0	381.64	0	80.30	0		0		0		0	
1/4	1,588.18	1/4	1,286.11	1/4	982.45	1/4	678.96	1/4	375.31	1/4	74.17	1/4		1/4	1/4		1/4	1/4	
1/2	1,581.86	1/2	1,279.78	1/2	976.13	1/2	672.63	1/2	368.99	1/2	68.05	1/2		1/2	1/2		1/2	1/2	
3/4	1,575.53	3/4	1,273.46	3/4	969.80	3/4	666.31	3/4	362.66	3/4	61.93	3/4		3/4	3/4		3/4	3/4	
1	1,569.20	1	1,267.13	1	963.47	1	659.98	1	356.33	1	56.41	1		1	1		1	1	
1/4	1,562.88	1/4	1,260.81	1/4	957.15	1/4	653.66	1/4	350.01	1/4	50.89	1/4		1/4	1/4		1/4	1/4	
1/2	1,556.55	1/2	1,254.48	1/2	950.82	1/2	647.33	1/2	343.68	1/2	45.37	1/2		1/2	1/2		1/2	1/2	
3/4	1,550.23	3/4	1,248.15	3/4	944.50	3/4	641.00	3/4	337.36	3/4	39.85	3/4		3/4	3/4		3/4	3/4	
2	1,543.90	2	1,241.83	2	938.17	2	634.68	2	331.03	2	35.59	2		2	2		2	2	
1/4	1,537.57	1/4	1,235.50	1/4	931.84	1/4	628.35	1/4	324.70	1/4	31.33	1/4		1/4	1/4		1/4	1/4	
1/2	1,531.25	1/2	1,229.18	1/2	925.52	1/2	622.03	1/2	318.38	1/2	27.08	1/2		1/2	1/2		1/2	1/2	
3/4	1,524.92	3/4	1,222.85	3/4	919.19	3/4	615.70	3/4	312.05	3/4	22.82	3/4		3/4	3/4		3/4	3/4	
3	1,518.59	3	1,216.52	3	912.87	3	609.37	3	305.73	3		3		3	3		3	3	
1/4	1,512.27	1/4	1,210.20	1/4	906.54	1/4	603.05	1/4	299.40	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	1,505.94	1/2	1,203.87	1/2	900.21	1/2	596.72	1/2	293.07	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	1,499.61	3/4	1,197.54	3/4	893.89	3/4	590.40	3/4	286.75	3/4		3/4		3/4	3/4		3/4	3/4	
4	1,493.39	4	1,191.22	4	887.57	4	584.07	4	280.42	4		4		4	4		4	4	
1/4	1,487.16	1/4	1,184.89	1/4	881.24	1/4	577.74	1/4	274.10	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	1,480.93	1/2	1,178.57	1/2	874.92	1/2	571.42	1/2	267.77	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	1,474.71	3/4	1,172.24	3/4	868.60	3/4	565.09	3/4	261.44	3/4		3/4		3/4	3/4		3/4	3/4	
5	1,468.48	5	1,165.91	5	862.28	5	558.77	5	255.12	5		5		5	5		5	5	
1/4	1,462.25	1/4	1,159.59	1/4	855.96	1/4	552.44	1/4	248.79	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	1,456.03	1/2	1,153.26	1/2	849.64	1/2	546.11	1/2	242.47	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	1,449.80	3/4	1,146.93	3/4	843.32	3/4	539.79	3/4	236.14	3/4		3/4		3/4	3/4		3/4	3/4	
6	1,443.57	6	1,140.61	6	837.00	6	533.46	6	229.81	6		6		6	6		6	6	
1/4	1,437.34	1/4	1,134.28	1/4	830.68	1/4	527.14	1/4	223.49	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	1,431.12	1/2	1,127.96	1/2	824.35	1/2	520.81	1/2	217.16	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	1,424.89	3/4	1,121.63	3/4	818.03	3/4	514.48	3/4	210.84	3/4		3/4		3/4	3/4		3/4	3/4	
7	1,418.66	7	1,115.30	7	811.71	7	508.16	7	204.51	7		7		7	7		7	7	
1/4	1,412.44	1/4	1,108.98	1/4	805.39	1/4	501.83	1/4	198.18	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	1,406.21	1/2	1,102.65	1/2	799.07	1/2	495.51	1/2	191.86	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	1,399.98	3/4	1,096.33	3/4	792.75	3/4	489.18	3/4	185.53	3/4		3/4		3/4	3/4		3/4	3/4	
8	1,393.66	8	1,090.00	8	786.43	8	482.85	8	179.21	8		8		8	8		8	8	
1/4	1,387.33	1/4	1,083.67	1/4	780.11	1/4	476.53	1/4	172.88	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	1,381.00	1/2	1,077.35	1/2	773.79	1/2	470.20	1/2	166.55	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	1,374.68	3/4	1,071.02	3/4	767.46	3/4	463.88	3/4	160.23	3/4		3/4		3/4	3/4		3/4	3/4	
9	1,368.35	9	1,064.69	9	761.14	9	457.55	9	154.07	9		9		9	9		9	9	
1/4	1,362.03	1/4	1,058.37	1/4	754.82	1/4	451.22	1/4	147.92	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	1,355.70	1/2	1,052.04	1/2	748.50	1/2	444.90	1/2	141.76	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	1,349.37	3/4	1,045.72	3/4	742.18	3/4	438.57	3/4	135.61	3/4		3/4		3/4	3/4		3/4	3/4	
10	1,343.05	10	1,039.39	10	735.86	10	432.25	10	129.46	10		10		10	10		10	10	
1/4	1,336.72	1/4	1,033.06	1/4	729.54	1/4	425.92	1/4	123.30	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	1,330.39	1/2	1,026.74	1/2	723.22	1/2	419.59	1/2	117.15	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	1,324.07	3/4	1,020.41	3/4	716.90	3/4	413.27	3/4	111.00	3/4		3/4		3/4	3/4		3/4	3/4	
11	1,317.74	11	1,014.08	11	710.57	11	406.94	11	104.85	11		11		11	11		11	11	
1/4	1,311.42	1/4	1,007.76	1/4	704.25	1/4	400.62	1/4	98.71	1/4		1/4		1/4	1/4		1/4	1/4	
1/2	1,305.09	1/2	1,001.43	1/2	697.93	1/2	394.29	1/2	92.56	1/2		1/2		1/2	1/2		1/2	1/2	
3/4	1,298.76	3/4	995.11	3/4	691.61	3/4	387.96	3/4	86.42	3/4		3/4		3/4	3/4		3/4	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/29/2015 CL  
CALCULATED: 04/30/2015 CL  
PRINTED: 05/01/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2015

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



# BARGE "MM 312"

## 4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-08 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	2,108.77	0	1,895.49	0	1,677.49	0	1,459.49	0	1,241.10	0	1,023.96	0	806.57	0	593.24	0	378.69	0	159.89
1/4	1/4	1/4	2,105.63	1/4	1,890.95	1/4	1,672.95	1/4	1,454.95	1/4	1,236.54	1/4	1,019.51	1/4	802.02	1/4	588.89	1/4	374.13	1/4	155.33
1/2	1/2	1/2	2,101.58	1/2	1,886.41	1/2	1,668.41	1/2	1,450.41	1/2	1,231.99	1/2	1,015.07	1/2	797.47	1/2	584.53	1/2	369.58	1/2	150.78
3/4	3/4	3/4	2,097.52	3/4	1,881.87	3/4	1,663.87	3/4	1,445.87	3/4	1,227.43	3/4	1,010.62	3/4	792.92	3/4	580.18	3/4	365.02	3/4	146.22
1		1	2,093.47	1	1,877.33	1	1,659.33	1	1,441.32	1	1,222.88	1	1,006.17	1	788.37	1	575.82	1	360.46	1	141.66
1/4	1/4	1/4	2,089.41	1/4	1,872.79	1/4	1,654.78	1/4	1,436.78	1/4	1,218.32	1/4	1,001.73	1/4	783.82	1/4	571.47	1/4	355.90	1/4	137.11
1/2	1/2	1/2	2,084.94	1/2	1,868.24	1/2	1,650.24	1/2	1,432.24	1/2	1,213.77	1/2	997.22	1/2	779.27	1/2	567.11	1/2	351.34	1/2	132.55
3/4	3/4	3/4	2,080.46	3/4	1,863.70	3/4	1,645.70	3/4	1,427.70	3/4	1,209.22	3/4	992.70	3/4	774.72	3/4	562.76	3/4	346.78	3/4	127.99
2		2	2,075.99	2	1,859.16	2	1,641.16	2	1,423.16	2	1,204.66	2	988.19	2	770.17	2	558.40	2	342.23	2	123.44
1/4	1/4	1/4	2,071.51	1/4	1,854.62	1/4	1,636.62	1/4	1,418.62	1/4	1,200.11	1/4	983.68	1/4	765.62	1/4	554.05	1/4	337.67	1/4	118.88
1/2	1/2	1/2	2,067.02	1/2	1,850.08	1/2	1,632.08	1/2	1,414.07	1/2	1,195.55	1/2	979.17	1/2	761.07	1/2	549.69	1/2	333.11	1/2	114.33
3/4	3/4	3/4	2,062.53	3/4	1,845.54	3/4	1,627.53	3/4	1,409.53	3/4	1,191.00	3/4	974.66	3/4	756.52	3/4	545.34	3/4	328.55	3/4	109.78
3		3	2,058.04	3	1,840.99	3	1,622.99	3	1,404.99	3	1,186.44	3	970.15	3	751.97	3	540.98	3	323.99	3	105.24
1/4	1/4	1/4	2,053.55	1/4	1,836.45	1/4	1,618.45	1/4	1,400.45	1/4	1,181.89	1/4	965.64	1/4	747.43	1/4	536.63	1/4	319.43	1/4	100.69
1/2	1/2	1/2	2,049.06	1/2	1,831.91	1/2	1,613.91	1/2	1,395.91	1/2	1,177.33	1/2	961.12	1/2	742.88	1/2	532.27	1/2	314.87	1/2	96.15
3/4	3/4	3/4	2,044.56	3/4	1,827.37	3/4	1,609.37	3/4	1,391.37	3/4	1,172.78	3/4	956.61	3/4	738.33	3/4	527.91	3/4	310.32	3/4	91.60
4		4	2,040.07	4	1,822.83	4	1,604.83	4	1,386.82	4	1,168.23	4	952.10	4	733.78	4	523.56	4	305.76	4	87.05
1/4	1/4	1/4	2,035.57	1/4	1,818.29	1/4	1,600.28	1/4	1,382.28	1/4	1,163.67	1/4	947.59	1/4	729.23	1/4	519.20	1/4	301.20	1/4	82.51
1/2	1/2	1/2	2,031.07	1/2	1,813.74	1/2	1,595.74	1/2	1,377.73	1/2	1,159.12	1/2	943.04	1/2	724.68	1/2	514.84	1/2	296.64	1/2	77.97
3/4	3/4	3/4	2,026.58	3/4	1,809.20	3/4	1,591.20	3/4	1,373.17	3/4	1,154.58	3/4	938.49	3/4	720.13	3/4	510.49	3/4	292.08	3/4	73.43
5		5	2,022.08	5	1,804.66	5	1,586.66	5	1,368.62	5	1,150.03	5	933.94	5	715.58	5	506.13	5	287.52	5	68.89
1/4	1/4	1/4	2,017.58	1/4	1,800.12	1/4	1,582.12	1/4	1,364.06	1/4	1,145.48	1/4	929.39	1/4	711.03	1/4	501.77	1/4	282.96	1/4	64.35
1/2	1/2	1/2	2,013.09	1/2	1,795.58	1/2	1,577.58	1/2	1,359.51	1/2	1,140.93	1/2	924.84	1/2	706.66	1/2	497.21	1/2	278.41	1/2	59.82
3/4	3/4	3/4	2,008.59	3/4	1,791.04	3/4	1,573.03	3/4	1,354.96	3/4	1,136.39	3/4	920.30	3/4	702.28	3/4	492.66	3/4	273.85	3/4	55.30
6		6	2,004.09	6	1,786.49	6	1,568.49	6	1,350.40	6	1,131.84	6	915.75	6	697.90	6	488.10	6	269.29	6	50.77
1/4	1/4	1/4	1,999.60	1/4	1,781.95	1/4	1,563.95	1/4	1,345.85	1/4	1,127.29	1/4	911.20	1/4	693.53	1/4	483.54	1/4	264.73	1/4	46.25
1/2	1/2	1/2	1,995.10	1/2	1,777.41	1/2	1,559.41	1/2	1,341.29	1/2	1,122.75	1/2	906.65	1/2	689.15	1/2	478.98	1/2	260.17	1/2	42.16
3/4	3/4	3/4	1,990.60	3/4	1,772.87	3/4	1,554.87	3/4	1,336.74	3/4	1,118.20	3/4	902.10	3/4	684.78	3/4	474.42	3/4	255.61	3/4	38.07
7		7	1,986.10	7	1,768.33	7	1,550.33	7	1,332.18	7	1,113.65	7	897.55	7	680.40	7	469.86	7	251.06	7	33.98
1/4	1/4	1/4	1,981.61	1/4	1,763.79	1/4	1,545.78	1/4	1,327.63	1/4	1,109.10	1/4	893.00	1/4	676.02	1/4	465.30	1/4	246.50	1/4	29.89
1/2	1/2	1/2	1,977.11	1/2	1,759.24	1/2	1,541.24	1/2	1,323.08	1/2	1,104.56	1/2	888.45	1/2	671.66	1/2	460.75	1/2	241.94	1/2	26.71
3/4	3/4	3/4	1,972.61	3/4	1,754.70	3/4	1,536.70	3/4	1,318.52	3/4	1,100.01	3/4	883.90	3/4	667.30	3/4	456.19	3/4	237.38	3/4	23.52
8		8	1,968.12	8	1,750.16	8	1,532.16	8	1,313.97	8	1,095.46	8	879.35	8	662.94	8	451.63	8	232.82	8	20.33
1/4	1/4	1/4	1,963.62	1/4	1,745.62	1/4	1,527.62	1/4	1,309.41	1/4	1,090.91	1/4	874.80	1/4	658.58	1/4	447.07	1/4	228.26	1/4	17.14
1/2	1/2	1/2	1,959.08	1/2	1,741.08	1/2	1,523.08	1/2	1,304.86	1/2	1,086.40	1/2	870.25	1/2	654.22	1/2	442.51	1/2	223.70	1/2	
3/4	3/4	3/4	1,954.54	3/4	1,736.54	3/4	1,518.53	3/4	1,300.30	3/4	1,081.89	3/4	865.70	3/4	649.86	3/4	437.95	3/4	219.15	3/4	
9		9	1,950.00	9	1,731.99	9	1,513.99	9	1,295.75	9	1,077.38	9	861.16	9	645.50	9	433.40	9	214.59	9	
1/4	1/4	1/4	1,945.45	1/4	1,727.45	1/4	1,509.45	1/4	1,291.19	1/4	1,072.87	1/4	856.61	1/4	641.14	1/4	428.84	1/4	210.03	1/4	
1/2	1/2	1/2	1,940.91	1/2	1,722.91	1/2	1,504.91	1/2	1,286.64	1/2	1,068.42	1/2	852.06	1/2	636.79	1/2	424.28	1/2	205.47	1/2	
3/4	3/4	3/4	1,936.37	3/4	1,718.37	3/4	1,500.37	3/4	1,282.09	3/4	1,063.98	3/4	847.51	3/4	632.43	3/4	419.72	3/4	200.91	3/4	
10		10	1,931.83	10	1,713.83	10	1,495.83	10	1,277.53	10	1,059.53	10	842.96	10	628.08	10	415.16	10	196.35	10	
1/4	1/4	1/4	1,927.29	1/4	1,709.28	1/4	1,491.28	1/4	1,272.98	1/4	1,055.08	1/4	838.41	1/4	623.72	1/4	410.60	1/4	191.79	1/4	
1/2	1/2	1/2	1,922.74	1/2	1,704.74	1/2	1,486.74	1/2	1,268.42	1/2	1,050.64	1/2	833.86	1/2	619.37	1/2	406.04	1/2	187.24	1/2	
3/4	3/4	3/4	1,918.20	3/4	1,700.20	3/4	1,482.20	3/4	1,263.87	3/4	1,046.19	3/4	829.31	3/4	615.01	3/4	401.49	3/4	182.68	3/4	
11		11	1,913.66	11	1,695.66	11	1,477.66	11	1,259.31	11	1,041.74	11	824.76	11	610.66	11	396.93	11	178.12	11	
1/4	1/4	1/4	1,909.12	1/4	1,691.12	1/4	1,473.12	1/4	1,254.76	1/4	1,037.30	1/4	820.21	1/4	606.30	1/4	392.37	1/4	173.56	1/4	
1/2	1/2	1/2	1,904.58	1/2	1,686.58	1/2	1,468.57	1/2	1,250.20	1/2	1,032.85	1/2	815.66	1/2	601.95	1/2	387.81	1/2	169.00	1/2	
3/4	3/4	3/4	1,900.04	3/4	1,682.03	3/4	1,464.03	3/4	1,245.65	3/4	1,028.41	3/4	811.11	3/4	597.60	3/4	383.25	3/4	164.45	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 48'-09" FORWARD OF AFT BULKHEAD.  
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 49'-09" FORWARD OF AFT BULKHEAD.

STRAPPED: 04/29/2015 CL  
CALCULATED: 04/30/2015 CL  
PRINTED: 05/01/2015 JS

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2015

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
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<http://www.pmacorp.net>





# BARGE "MM 312"

## 4 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 10'-08 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	2,126.25	0	1,912.27	0	1,693.48	0	1,474.69	0	1,255.51	0	1,036.82	0	817.72	0	598.66	0	379.70	0	160.28
1/4	1/4	1/4	2,123.11	1/4	1,907.71	1/4	1,688.92	1/4	1,470.14	1/4	1,250.94	1/4	1,032.31	1/4	813.15	1/4	594.11	1/4	375.13	1/4	155.71
1/2	1/2	1/2	2,119.05	1/2	1,903.15	1/2	1,684.37	1/2	1,465.58	1/2	1,246.37	1/2	1,027.81	1/2	808.58	1/2	589.56	1/2	370.55	1/2	151.14
3/4	3/4	3/4	2,115.00	3/4	1,898.60	3/4	1,679.81	3/4	1,461.02	3/4	1,241.80	3/4	1,023.30	3/4	804.01	3/4	585.01	3/4	365.98	3/4	146.57
1		1	2,110.94	1	1,894.04	1	1,675.25	1	1,456.46	1	1,237.22	1	1,018.79	1	799.44	1	580.46	1	361.41	1	142.00
1/4	1/4	1/4	2,106.89	1/4	1,889.48	1/4	1,670.69	1/4	1,451.90	1/4	1,232.65	1/4	1,014.29	1/4	794.86	1/4	575.91	1/4	356.84	1/4	137.43
1/2	1/2	1/2	2,102.40	1/2	1,884.92	1/2	1,666.13	1/2	1,447.34	1/2	1,228.08	1/2	1,009.72	1/2	790.29	1/2	571.36	1/2	352.27	1/2	132.86
3/4	3/4	3/4	2,097.91	3/4	1,880.36	3/4	1,661.58	3/4	1,442.79	3/4	1,223.51	3/4	1,005.14	3/4	785.72	3/4	566.81	3/4	347.70	3/4	128.29
2		2	2,093.42	2	1,875.81	2	1,657.02	2	1,438.23	2	1,218.94	2	1,000.57	2	781.15	2	562.26	2	343.13	2	123.72
1/4	1/4	1/4	2,088.93	1/4	1,871.25	1/4	1,652.46	1/4	1,433.67	1/4	1,214.37	1/4	996.00	1/4	776.58	1/4	557.71	1/4	338.56	1/4	119.14
1/2	1/2	1/2	2,084.42	1/2	1,866.69	1/2	1,647.90	1/2	1,429.11	1/2	1,209.80	1/2	991.43	1/2	772.01	1/2	553.16	1/2	333.99	1/2	114.58
3/4	3/4	3/4	2,079.91	3/4	1,862.13	3/4	1,643.34	3/4	1,424.55	3/4	1,205.23	3/4	986.86	3/4	767.44	3/4	548.61	3/4	329.41	3/4	110.02
3		3	2,075.41	3	1,857.57	3	1,638.78	3	1,420.00	3	1,200.66	3	982.29	3	762.87	3	544.06	3	324.84	3	105.46
1/4	1/4	1/4	2,070.90	1/4	1,853.02	1/4	1,634.23	1/4	1,415.44	1/4	1,196.09	1/4	977.72	1/4	758.29	1/4	539.51	1/4	320.27	1/4	100.90
1/2	1/2	1/2	2,066.39	1/2	1,848.46	1/2	1,629.67	1/2	1,410.88	1/2	1,191.52	1/2	973.15	1/2	753.72	1/2	534.97	1/2	315.70	1/2	96.34
3/4	3/4	3/4	2,061.88	3/4	1,843.90	3/4	1,625.11	3/4	1,406.32	3/4	1,186.94	3/4	968.57	3/4	749.15	3/4	530.42	3/4	311.13	3/4	91.78
4		4	2,057.37	4	1,839.34	4	1,620.55	4	1,401.76	4	1,182.37	4	964.00	4	744.58	4	525.87	4	306.56	4	87.23
1/4	1/4	1/4	2,052.85	1/4	1,834.78	1/4	1,615.99	1/4	1,397.21	1/4	1,177.80	1/4	959.43	1/4	740.01	1/4	521.32	1/4	301.99	1/4	82.67
1/2	1/2	1/2	2,048.34	1/2	1,830.23	1/2	1,611.44	1/2	1,392.63	1/2	1,173.23	1/2	954.86	1/2	735.44	1/2	516.77	1/2	297.42	1/2	78.11
3/4	3/4	3/4	2,043.83	3/4	1,825.67	3/4	1,606.88	3/4	1,388.06	3/4	1,168.66	3/4	950.29	3/4	730.87	3/4	512.22	3/4	292.85	3/4	73.56
5		5	2,039.31	5	1,821.11	5	1,602.32	5	1,383.49	5	1,164.09	5	945.72	5	726.29	5	507.67	5	288.27	5	69.01
1/4	1/4	1/4	2,034.80	1/4	1,816.55	1/4	1,597.76	1/4	1,378.92	1/4	1,159.52	1/4	941.15	1/4	721.72	1/4	503.12	1/4	283.70	1/4	64.46
1/2	1/2	1/2	2,030.29	1/2	1,811.99	1/2	1,593.20	1/2	1,374.35	1/2	1,154.95	1/2	936.57	1/2	717.15	1/2	498.55	1/2	279.13	1/2	59.92
3/4	3/4	3/4	2,025.77	3/4	1,807.43	3/4	1,588.65	3/4	1,369.78	3/4	1,150.38	3/4	932.00	3/4	712.58	3/4	493.97	3/4	274.56	3/4	55.38
6		6	2,021.26	6	1,802.88	6	1,584.09	6	1,365.21	6	1,145.81	6	927.43	6	708.01	6	489.40	6	269.99	6	50.84
1/4	1/4	1/4	2,016.75	1/4	1,798.32	1/4	1,579.53	1/4	1,360.64	1/4	1,141.24	1/4	922.86	1/4	703.44	1/4	484.83	1/4	265.42	1/4	46.31
1/2	1/2	1/2	2,012.23	1/2	1,793.76	1/2	1,574.97	1/2	1,356.07	1/2	1,136.66	1/2	918.29	1/2	698.87	1/2	480.26	1/2	260.85	1/2	42.21
3/4	3/4	3/4	2,007.72	3/4	1,789.20	3/4	1,570.41	3/4	1,351.50	3/4	1,132.09	3/4	913.72	3/4	694.30	3/4	475.69	3/4	256.28	3/4	38.11
7		7	2,003.21	7	1,784.64	7	1,565.86	7	1,346.93	7	1,127.52	7	909.15	7	689.72	7	471.12	7	251.71	7	34.00
1/4	1/4	1/4	1,998.70	1/4	1,780.09	1/4	1,561.30	1/4	1,342.35	1/4	1,122.95	1/4	904.58	1/4	685.15	1/4	466.55	1/4	247.13	1/4	29.90
1/2	1/2	1/2	1,994.18	1/2	1,775.53	1/2	1,556.74	1/2	1,337.78	1/2	1,118.38	1/2	900.00	1/2	680.60	1/2	461.98	1/2	242.56	1/2	26.71
3/4	3/4	3/4	1,989.67	3/4	1,770.97	3/4	1,552.18	3/4	1,333.21	3/4	1,113.81	3/4	895.43	3/4	676.04	3/4	457.41	3/4	237.99	3/4	23.52
8		8	1,985.16	8	1,766.41	8	1,547.62	8	1,328.64	8	1,109.24	8	890.86	8	671.49	8	452.83	8	233.42	8	20.34
1/4	1/4	1/4	1,980.64	1/4	1,761.85	1/4	1,543.06	1/4	1,324.07	1/4	1,104.67	1/4	886.29	1/4	666.93	1/4	448.26	1/4	228.85	1/4	17.14
1/2	1/2	1/2	1,976.08	1/2	1,757.30	1/2	1,538.51	1/2	1,319.50	1/2	1,100.10	1/2	881.72	1/2	662.38	1/2	443.69	1/2	224.28	1/2	
3/4	3/4	3/4	1,971.53	3/4	1,752.74	3/4	1,533.95	3/4	1,314.93	3/4	1,095.53	3/4	877.15	3/4	657.82	3/4	439.12	3/4	219.71	3/4	
9		9	1,966.97	9	1,748.18	9	1,529.39	9	1,310.36	9	1,090.96	9	872.58	9	653.27	9	434.55	9	215.14	9	
1/4	1/4	1/4	1,962.41	1/4	1,743.62	1/4	1,524.83	1/4	1,305.79	1/4	1,086.38	1/4	868.01	1/4	648.71	1/4	429.98	1/4	210.57	1/4	
1/2	1/2	1/2	1,957.85	1/2	1,739.06	1/2	1,520.27	1/2	1,301.22	1/2	1,081.88	1/2	863.43	1/2	644.16	1/2	425.41	1/2	205.99	1/2	
3/4	3/4	3/4	1,953.29	3/4	1,734.51	3/4	1,515.72	3/4	1,296.65	3/4	1,077.37	3/4	858.86	3/4	639.61	3/4	420.84	3/4	201.42	3/4	
10		10	1,948.74	10	1,729.95	10	1,511.16	10	1,292.07	10	1,072.87	10	854.29	10	635.06	10	416.27	10	196.85	10	
1/4	1/4	1/4	1,944.18	1/4	1,725.39	1/4	1,506.60	1/4	1,287.50	1/4	1,068.36	1/4	849.72	1/4	630.51	1/4	411.69	1/4	192.28	1/4	
1/2	1/2	1/2	1,939.62	1/2	1,720.83	1/2	1,502.04	1/2	1,282.93	1/2	1,063.85	1/2	845.15	1/2	625.96	1/2	407.12	1/2	187.71	1/2	
3/4	3/4	3/4	1,935.06	3/4	1,716.27	3/4	1,497.48	3/4	1,278.36	3/4	1,059.35	3/4	840.58	3/4	621.41	3/4	402.55	3/4	183.14	3/4	
11		11	1,930.50	11	1,711.71	11	1,492.93	11	1,273.79	11	1,054.84	11	836.01	11	616.86	11	397.98	11	178.57	11	
1/4	1/4	1/4	1,925.95	1/4	1,707.16	1/4	1,488.37	1/4	1,269.22	1/4	1,050.34	1/4	831.43	1/4	612.31	1/4	393.41	1/4	174.00	1/4	
1/2	1/2	1/2	1,921.39	1/2	1,702.60	1/2	1,483.81	1/2	1,264.65	1/2	1,045.83	1/2	826.86	1/2	607.76	1/2	388.84	1/2	169.43	1/2	
3/4	3/4	3/4	1,916.83	3/4	1,698.04	3/4	1,479.25	3/4	1,260.08	3/4	1,041.32	3/4	822.29	3/4	603.21	3/4	384.27	3/4	164.86	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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.

GAUGE POINT: (HERMETIC - 2" VALVE) LOCATED 12'-09" OFF CENTERLINE AND 48'-09" FORWARD OF AFT BULKHEAD.  
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 49'-09" FORWARD OF AFT BULKHEAD.

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# BARGE "MM 312"

## ULLAGE TRIM TABLE 8" HATCH

	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	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
1 STBD	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
2 PORT	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
2 STBD	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
3 PORT	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
3 STBD	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-3/8	- 00-3/8
4 PORT	01-1/4	- 01-1/4	02-3/8	- 02-3/8	03-1/2	- 03-1/2	04-3/4	- 04-3/4	05-7/8	- 05-7/8	07-1/8	- 07-1/8
4 STBD	01-1/4	- 01-1/4	02-3/8	- 02-3/8	03-1/2	- 03-1/2	04-3/4	- 04-3/4	05-7/8	- 05-7/8	07-1/8	- 07-1/8

(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 - 00-1/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 237'-03"

April 29, 2015

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