



# BARGE "MM 93"

## ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
1 STBD	- 00-0/8	00-0/8	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8
2 PORT	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4
2 STBD	- 00-0/8	00-0/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4
3 PORT	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4
3 STBD	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4
4 PORT	00-3/4	- 00-3/4	01-1/2	- 01-1/2	02-1/4	- 02-1/4	03-1/8	- 03-1/8	03-7/8	- 03-7/8	04-5/8	- 04-5/8
4 STBD	00-3/4	- 00-3/4	01-1/2	- 01-1/2	02-1/4	- 02-1/4	03-1/8	- 03-1/8	03-7/8	- 03-7/8	04-5/8	- 04-5/8

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

**EXAMPLE FOR ABOVE TRIM CORRECTIONS:**

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

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

LENGTH BETWEEN DRAFT MARKS: 237'-00"

May 15, 2013

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

<http://www.pmacorp.net>



# BARGE "MM 93" MAGNOLIA BARGE

# 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-07 3/4"

1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0		0	2,373.13	0	2,119.70	0	1,866.01	0	1,612.25	0	1,358.49	0	1,104.80	0	851.84	0	600.09	0	347.84	0	126.84
1/4		1/4	2,367.88	1/4	2,114.41	1/4	1,860.73	1/4	1,606.96	1/4	1,353.20	1/4	1,099.51	1/4	846.55	1/4	594.87	1/4	342.67	1/4	122.68
1/2	2,605.55	1/2	2,362.64	1/2	2,109.12	1/2	1,855.44	1/2	1,601.68	1/2	1,347.92	1/2	1,094.22	1/2	841.26	1/2	589.65	1/2	337.51	1/2	118.52
3/4	2,602.47	3/4	2,357.39	3/4	2,103.84	3/4	1,850.15	3/4	1,596.39	3/4	1,342.63	3/4	1,088.93	3/4	835.98	3/4	584.43	3/4	332.34	3/4	114.36
1	2,598.51	1	2,352.15	1	2,098.55	1	1,844.87	1	1,591.10	1	1,337.34	1	1,083.65	1	830.69	1	579.21	1	327.26	1	110.28
1/4	2,594.54	1/4	2,346.90	1/4	2,093.27	1/4	1,839.58	1/4	1,585.82	1/4	1,332.06	1/4	1,078.36	1/4	825.40	1/4	573.99	1/4	322.18	1/4	106.21
1/2	2,590.58	1/2	2,341.66	1/2	2,087.98	1/2	1,834.29	1/2	1,580.53	1/2	1,326.77	1/2	1,073.07	1/2	820.11	1/2	568.77	1/2	317.09	1/2	102.13
3/4	2,586.61	3/4	2,336.41	3/4	2,082.70	3/4	1,829.01	3/4	1,575.24	3/4	1,321.48	3/4	1,067.79	3/4	814.82	3/4	563.55	3/4	312.01	3/4	98.06
2	2,581.76	2	2,331.12	2	2,077.41	2	1,823.72	2	1,569.96	2	1,316.20	2	1,062.53	2	809.53	2	558.33	2	307.01	2	94.16
1/4	2,576.92	1/4	2,325.84	1/4	2,072.12	1/4	1,818.43	1/4	1,564.67	1/4	1,310.91	1/4	1,057.28	1/4	804.25	1/4	553.11	1/4	302.01	1/4	90.26
1/2	2,572.07	1/2	2,320.55	1/2	2,066.84	1/2	1,813.15	1/2	1,559.38	1/2	1,305.62	1/2	1,052.03	1/2	798.96	1/2	547.89	1/2	297.01	1/2	86.36
3/4	2,567.22	3/4	2,315.27	3/4	2,061.55	3/4	1,807.86	3/4	1,554.10	3/4	1,300.34	3/4	1,046.77	3/4	793.67	3/4	542.67	3/4	292.01	3/4	82.46
3	2,561.98	3	2,309.98	3	2,056.27	3	1,802.57	3	1,548.81	3	1,295.05	3	1,041.52	3	788.42	3	537.45	3	287.09	3	78.75
1/4	2,556.73	1/4	2,304.70	1/4	2,050.98	1/4	1,797.29	1/4	1,543.52	1/4	1,289.76	1/4	1,036.27	1/4	783.16	1/4	532.22	1/4	282.17	1/4	75.04
1/2	2,551.49	1/2	2,299.41	1/2	2,045.70	1/2	1,792.00	1/2	1,538.24	1/2	1,284.48	1/2	1,031.01	1/2	777.91	1/2	527.00	1/2	277.26	1/2	71.33
3/4	2,546.24	3/4	2,294.12	3/4	2,040.41	3/4	1,786.71	3/4	1,532.95	3/4	1,279.19	3/4	1,025.76	3/4	772.65	3/4	521.78	3/4	272.34	3/4	67.61
4	2,541.00	4	2,288.84	4	2,035.12	4	1,781.43	4	1,527.66	4	1,273.91	4	1,020.51	4	767.40	4	516.56	4	267.50	4	64.00
1/4	2,535.75	1/4	2,283.55	1/4	2,029.84	1/4	1,776.14	1/4	1,522.38	1/4	1,268.63	1/4	1,015.26	1/4	762.15	1/4	511.34	1/4	262.67	1/4	60.38
1/2	2,530.50	1/2	2,278.27	1/2	2,024.55	1/2	1,770.85	1/2	1,517.09	1/2	1,263.36	1/2	1,010.01	1/2	756.89	1/2	506.12	1/2	257.83	1/2	56.76
3/4	2,525.26	3/4	2,272.98	3/4	2,019.27	3/4	1,765.57	3/4	1,511.80	3/4	1,258.08	3/4	1,004.76	3/4	751.64	3/4	500.89	3/4	252.99	3/4	53.14
5	2,520.01	5	2,267.70	5	2,013.98	5	1,760.28	5	1,506.52	5	1,252.80	5	999.51	5	746.41	5	495.61	5	248.44	5	49.61
1/4	2,514.77	1/4	2,262.41	1/4	2,008.70	1/4	1,754.99	1/4	1,501.23	1/4	1,247.52	1/4	994.26	1/4	741.17	1/4	490.32	1/4	243.89	1/4	46.09
1/2	2,509.52	1/2	2,257.12	1/2	2,003.41	1/2	1,749.71	1/2	1,495.94	1/2	1,242.25	1/2	989.01	1/2	735.94	1/2	485.03	1/2	239.33	1/2	42.56
3/4	2,504.28	3/4	2,251.84	3/4	1,998.12	3/4	1,744.42	3/4	1,490.66	3/4	1,236.97	3/4	983.76	3/4	730.71	3/4	479.74	3/4	234.78	3/4	39.03
6	2,499.03	6	2,246.55	6	1,992.84	6	1,739.13	6	1,485.37	6	1,231.68	6	978.51	6	725.48	6	474.45	6	230.31	6	35.61
1/4	2,493.78	1/4	2,241.27	1/4	1,987.55	1/4	1,733.85	1/4	1,480.08	1/4	1,226.40	1/4	973.26	1/4	720.25	1/4	469.17	1/4	225.83	1/4	32.19
1/2	2,488.54	1/2	2,235.98	1/2	1,982.27	1/2	1,728.56	1/2	1,474.80	1/2	1,221.11	1/2	968.00	1/2	715.01	1/2	463.88	1/2	221.36	1/2	28.77
3/4	2,483.29	3/4	2,230.70	3/4	1,976.98	3/4	1,723.27	3/4	1,469.51	3/4	1,215.82	3/4	962.75	3/4	709.78	3/4	458.59	3/4	216.89	3/4	25.35
7	2,478.05	7	2,225.41	7	1,971.70	7	1,717.99	7	1,464.22	7	1,210.54	7	957.50	7	704.56	7	453.30	7	212.50	7	22.73
1/4	2,472.80	1/4	2,220.12	1/4	1,966.41	1/4	1,712.70	1/4	1,458.94	1/4	1,205.25	1/4	952.24	1/4	699.33	1/4	448.02	1/4	208.11	1/4	20.11
1/2	2,467.55	1/2	2,214.84	1/2	1,961.12	1/2	1,707.41	1/2	1,453.65	1/2	1,199.96	1/2	946.99	1/2	694.11	1/2	442.73	1/2	203.72	1/2	17.49
3/4	2,462.31	3/4	2,209.55	3/4	1,955.84	3/4	1,702.13	3/4	1,448.36	3/4	1,194.67	3/4	941.74	3/4	688.88	3/4	437.44	3/4	199.33	3/4	14.87
8	2,457.06	8	2,204.27	8	1,950.56	8	1,696.84	8	1,443.08	8	1,189.39	8	936.45	8	683.66	8	432.15	8	195.04	8	11.11
1/4	2,451.82	1/4	2,198.98	1/4	1,945.28	1/4	1,691.55	1/4	1,437.79	1/4	1,184.10	1/4	931.16	1/4	678.43	1/4	426.86	1/4	190.74	1/4	8.84
1/2	2,446.57	1/2	2,193.70	1/2	1,940.00	1/2	1,686.27	1/2	1,432.50	1/2	1,178.81	1/2	925.87	1/2	673.21	1/2	421.58	1/2	186.44	1/2	6.57
3/4	2,441.33	3/4	2,188.41	3/4	1,934.72	3/4	1,680.98	3/4	1,427.22	3/4	1,173.53	3/4	920.58	3/4	667.98	3/4	416.29	3/4	182.14	3/4	4.20
9	2,436.08	9	2,183.12	9	1,929.44	9	1,675.69	9	1,421.93	9	1,168.24	9	915.30	9	662.76	9	411.00	9	177.93	9	1.85
1/4	2,430.83	1/4	2,177.84	1/4	1,924.16	1/4	1,670.41	1/4	1,416.64	1/4	1,162.95	1/4	910.01	1/4	657.53	1/4	405.71	1/4	173.71	1/4	-0.50
1/2	2,425.59	1/2	2,172.55	1/2	1,918.87	1/2	1,665.12	1/2	1,411.36	1/2	1,157.67	1/2	904.72	1/2	652.31	1/2	400.43	1/2	169.50	1/2	-2.15
3/4	2,420.34	3/4	2,167.27	3/4	1,913.59	3/4	1,659.83	3/4	1,406.07	3/4	1,152.38	3/4	899.43	3/4	647.09	3/4	395.14	3/4	165.29	3/4	-4.50
10	2,415.10	10	2,161.98	10	1,908.31	10	1,654.55	10	1,400.78	10	1,147.09	10	894.14	10	641.86	10	389.85	10	160.95	10	-7.85
1/4	2,409.85	1/4	2,156.70	1/4	1,903.02	1/4	1,649.26	1/4	1,395.50	1/4	1,141.80	1/4	888.86	1/4	636.64	1/4	384.56	1/4	156.62	1/4	-11.20
1/2	2,404.60	1/2	2,151.41	1/2	1,897.73	1/2	1,643.97	1/2	1,390.21	1/2	1,136.52	1/2	883.57	1/2	631.42	1/2	379.27	1/2	152.29	1/2	-14.55
3/4	2,399.36	3/4	2,146.12	3/4	1,892.45	3/4	1,638.69	3/4	1,384.92	3/4	1,131.23	3/4	878.28	3/4	626.20	3/4	373.99	3/4	147.95	3/4	-17.90
11	2,394.11	11	2,140.84	11	1,887.16	11	1,633.40	11	1,379.64	11	1,125.94	11	872.99	11	620.97	11	368.74	11	143.71	11	-21.25
1/4	2,388.87	1/4	2,135.55	1/4	1,881.87	1/4	1,628.11	1/4	1,374.35	1/4	1,120.66	1/4	867.70	1/4	615.75	1/4	363.49	1/4	139.47	1/4	-24.60
1/2	2,383.62	1/2	2,130.27	1/2	1,876.59	1/2	1,622.82	1/2	1,369.06	1/2	1,115.37	1/2	862.42	1/2	610.53	1/2	358.25	1/2	135.23	1/2	-27.95
3/4	2,378.38	3/4	2,124.98	3/4	1,871.30	3/4	1,617.54	3/4	1,363.78	3/4	1,110.08	3/4	857.13	3/4	605.31	3/4	353.00	3/4	130.99	3/4	-31.30

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: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 30'-00" FORWARD OF AFT BULKHEAD.  
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 32'-00" FORWARD OF AFT BULKHEAD

STRAPPED: 05/09/2013 CL - SW  
CALCULATED: 05/10/2013 CL  
PRINTED: 05/15/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2013

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



# BARGE "MM 93" MAGNOLIA BARGE

1 STBD  
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-08"

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.	IN	11 FT.
0		0	2,382.82	0	2,129.16	0	1,875.23	0	1,621.20	0	1,367.17	0	1,113.22	0	860.00	0	606.70	0	353.45	0	131.18
1/4		1/4	2,377.57	1/4	2,123.87	1/4	1,869.93	1/4	1,615.91	1/4	1,361.88	1/4	1,107.92	1/4	854.71	1/4	601.44	1/4	348.28	1/4	127.01
1/2		1/2	2,372.32	1/2	2,118.58	1/2	1,864.64	1/2	1,610.62	1/2	1,356.59	1/2	1,102.63	1/2	849.41	1/2	596.18	1/2	343.11	1/2	122.85
3/4	2,610.22	3/4	2,367.07	3/4	2,113.29	3/4	1,859.35	3/4	1,605.32	3/4	1,351.30	3/4	1,097.34	3/4	844.12	3/4	590.92	3/4	337.94	3/4	118.69
1	2,607.14	1	2,361.82	1	2,108.00	1	1,854.06	1	1,600.03	1	1,346.01	1	1,092.05	1	838.83	1	585.66	1	332.77	1	114.52
1/4	2,603.17	1/4	2,356.57	1/4	2,102.71	1/4	1,848.76	1/4	1,594.74	1/4	1,340.71	1/4	1,086.75	1/4	833.53	1/4	580.40	1/4	327.68	1/4	110.44
1/2	2,599.20	1/2	2,351.31	1/2	2,097.42	1/2	1,843.47	1/2	1,589.45	1/2	1,335.42	1/2	1,081.46	1/2	828.24	1/2	575.14	1/2	322.59	1/2	106.36
3/4	2,595.23	3/4	2,346.06	3/4	2,092.13	3/4	1,838.18	3/4	1,584.15	3/4	1,330.13	3/4	1,076.17	3/4	822.95	3/4	569.88	3/4	317.50	3/4	102.28
2	2,591.26	2	2,340.81	2	2,086.83	2	1,832.89	2	1,578.86	2	1,324.84	2	1,070.88	2	817.65	2	564.62	2	312.41	2	98.20
1/4	2,586.41	1/4	2,335.52	1/4	2,081.54	1/4	1,827.60	1/4	1,573.57	1/4	1,319.54	1/4	1,065.62	1/4	812.36	1/4	559.36	1/4	307.41	1/4	94.29
1/2	2,581.56	1/2	2,330.23	1/2	2,076.25	1/2	1,822.30	1/2	1,568.28	1/2	1,314.25	1/2	1,060.36	1/2	807.07	1/2	554.10	1/2	302.40	1/2	90.39
3/4	2,576.71	3/4	2,324.94	3/4	2,070.96	3/4	1,817.01	3/4	1,562.99	3/4	1,308.96	3/4	1,055.10	3/4	801.77	3/4	548.84	3/4	297.40	3/4	86.48
3	2,571.86	3	2,319.65	3	2,065.67	3	1,811.72	3	1,557.69	3	1,303.67	3	1,049.84	3	796.48	3	543.58	3	292.39	3	82.58
1/4	2,566.61	1/4	2,314.36	1/4	2,060.38	1/4	1,806.43	1/4	1,552.40	1/4	1,298.38	1/4	1,044.58	1/4	791.19	1/4	538.32	1/4	287.47	1/4	78.86
1/2	2,561.36	1/2	2,309.07	1/2	2,055.09	1/2	1,801.13	1/2	1,547.11	1/2	1,293.08	1/2	1,039.33	1/2	785.89	1/2	533.06	1/2	282.54	1/2	75.14
3/4	2,556.11	3/4	2,303.77	3/4	2,049.80	3/4	1,795.84	3/4	1,541.82	3/4	1,287.79	3/4	1,034.07	3/4	780.60	3/4	527.80	3/4	277.62	3/4	71.43
4	2,550.86	4	2,298.48	4	2,044.51	4	1,790.55	4	1,536.52	4	1,282.50	4	1,028.81	4	775.30	4	522.54	4	272.70	4	67.71
1/4	2,545.61	1/4	2,293.19	1/4	2,039.21	1/4	1,785.26	1/4	1,531.23	1/4	1,277.22	1/4	1,023.55	1/4	770.01	1/4	517.28	1/4	267.86	1/4	64.09
1/2	2,540.35	1/2	2,287.90	1/2	2,033.92	1/2	1,779.97	1/2	1,525.94	1/2	1,271.93	1/2	1,018.30	1/2	764.72	1/2	512.02	1/2	263.01	1/2	60.47
3/4	2,535.10	3/4	2,282.61	3/4	2,028.63	3/4	1,774.67	3/4	1,520.65	3/4	1,266.65	3/4	1,013.04	3/4	759.42	3/4	506.75	3/4	258.17	3/4	56.84
5	2,529.85	5	2,277.32	5	2,023.34	5	1,769.38	5	1,515.36	5	1,261.79	5	1,007.79	5	754.13	5	501.49	5	253.33	5	53.22
1/4	2,524.60	1/4	2,272.03	1/4	2,018.05	1/4	1,764.09	1/4	1,510.06	1/4	1,256.08	1/4	1,002.53	1/4	748.86	1/4	496.20	1/4	248.77	1/4	49.68
1/2	2,519.35	1/2	2,266.74	1/2	2,012.76	1/2	1,758.80	1/2	1,504.77	1/2	1,250.80	1/2	997.28	1/2	743.59	1/2	490.90	1/2	244.21	1/2	46.15
3/4	2,514.10	3/4	2,261.44	3/4	2,007.47	3/4	1,753.50	3/4	1,499.48	3/4	1,245.52	3/4	992.02	3/4	738.32	3/4	485.61	3/4	239.65	3/4	42.62
6	2,508.85	6	2,256.15	6	2,002.18	6	1,748.21	6	1,494.19	6	1,240.23	6	986.77	6	733.04	6	480.32	6	235.09	6	39.08
1/4	2,503.60	1/4	2,250.86	1/4	1,996.88	1/4	1,742.92	1/4	1,488.89	1/4	1,234.94	1/4	981.51	1/4	727.77	1/4	475.03	1/4	230.62	1/4	35.66
1/2	2,498.35	1/2	2,245.57	1/2	1,991.59	1/2	1,737.63	1/2	1,483.60	1/2	1,229.65	1/2	976.25	1/2	722.50	1/2	469.73	1/2	226.14	1/2	32.23
3/4	2,493.09	3/4	2,240.28	3/4	1,986.30	3/4	1,732.34	3/4	1,478.31	3/4	1,224.36	3/4	970.99	3/4	717.23	3/4	464.44	3/4	221.66	3/4	28.81
7	2,487.84	7	2,234.99	7	1,981.01	7	1,727.04	7	1,473.02	7	1,219.06	7	965.73	7	711.96	7	459.15	7	217.18	7	25.39
1/4	2,482.59	1/4	2,229.70	1/4	1,975.72	1/4	1,721.75	1/4	1,467.73	1/4	1,213.77	1/4	960.47	1/4	706.69	1/4	453.85	1/4	212.79	1/4	22.76
1/2	2,477.34	1/2	2,224.41	1/2	1,970.43	1/2	1,716.46	1/2	1,462.43	1/2	1,208.48	1/2	955.21	1/2	701.43	1/2	448.56	1/2	208.39	1/2	20.14
3/4	2,472.09	3/4	2,219.11	3/4	1,965.14	3/4	1,711.17	3/4	1,457.14	3/4	1,203.19	3/4	949.96	3/4	696.17	3/4	443.27	3/4	204.00	3/4	17.51
8	2,466.84	8	2,213.82	8	1,959.85	8	1,705.88	8	1,451.85	8	1,197.90	8	944.70	8	690.90	8	437.97	8	199.60	8	14.89
1/4	2,461.59	1/4	2,208.53	1/4	1,954.56	1/4	1,700.58	1/4	1,446.56	1/4	1,192.60	1/4	939.40	1/4	685.64	1/4	432.68	1/4	195.30	1/4	
1/2	2,456.34	1/2	2,203.24	1/2	1,949.27	1/2	1,695.29	1/2	1,441.27	1/2	1,187.31	1/2	934.11	1/2	680.37	1/2	427.39	1/2	191.00	1/2	
3/4	2,451.09	3/4	2,197.95	3/4	1,943.99	3/4	1,690.00	3/4	1,435.97	3/4	1,182.02	3/4	928.82	3/4	675.11	3/4	422.09	3/4	186.70	3/4	
9	2,445.83	9	2,192.66	9	1,938.70	9	1,684.71	9	1,430.68	9	1,176.73	9	923.52	9	669.85	9	416.80	9	182.39	9	
1/4	2,440.58	1/4	2,187.37	1/4	1,933.42	1/4	1,679.41	1/4	1,425.39	1/4	1,171.43	1/4	918.23	1/4	664.58	1/4	411.51	1/4	178.17	1/4	
1/2	2,435.33	1/2	2,182.08	1/2	1,928.13	1/2	1,674.12	1/2	1,420.10	1/2	1,166.14	1/2	912.94	1/2	659.32	1/2	406.21	1/2	173.95	1/2	
3/4	2,430.08	3/4	2,176.79	3/4	1,922.85	3/4	1,668.83	3/4	1,414.80	3/4	1,160.85	3/4	907.64	3/4	654.05	3/4	400.92	3/4	169.73	3/4	
10	2,424.83	10	2,171.49	10	1,917.56	10	1,663.54	10	1,409.51	10	1,155.56	10	902.35	10	648.79	10	395.63	10	165.51	10	
1/4	2,419.58	1/4	2,166.20	1/4	1,912.27	1/4	1,658.25	1/4	1,404.22	1/4	1,150.26	1/4	897.06	1/4	643.53	1/4	390.33	1/4	161.17	1/4	
1/2	2,414.33	1/2	2,160.91	1/2	1,906.98	1/2	1,652.95	1/2	1,398.93	1/2	1,144.97	1/2	891.76	1/2	638.26	1/2	385.04	1/2	156.84	1/2	
3/4	2,409.08	3/4	2,155.62	3/4	1,901.69	3/4	1,647.66	3/4	1,393.64	3/4	1,139.68	3/4	886.47	3/4	633.00	3/4	379.75	3/4	152.50	3/4	
11	2,403.83	11	2,150.33	11	1,896.39	11	1,642.37	11	1,388.34	11	1,134.39	11	881.17	11	627.74	11	374.45	11	148.16	11	
1/4	2,398.57	1/4	2,145.04	1/4	1,891.10	1/4	1,637.08	1/4	1,383.05	1/4	1,129.09	1/4	875.88	1/4	622.48	1/4	369.20	1/4	143.91	1/4	
1/2	2,393.32	1/2	2,139.75	1/2	1,885.81	1/2	1,631.78	1/2	1,377.76	1/2	1,123.80	1/2	870.59	1/2	617.22	1/2	363.95	1/2	139.67	1/2	
3/4	2,388.07	3/4	2,134.46	3/4	1,880.52	3/4	1,626.49	3/4	1,372.47	3/4	1,118.51	3/4	865.29	3/4	611.96	3/4	358.70	3/4	135.42	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: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 30'-00" FORWARD OF AFT BULKHEAD.  
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 32'-00" FORWARD OF AFT BULKHEAD

STRAPPED: 05/09/2013 CL - SW  
CALCULATED: 05/10/2013 CL  
PRINTED: 05/15/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2013

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



# BARGE "MM 93" MAGNOLIA BARGE

# 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-07 1/2"

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.	IN	11 FT.
0		0	2,651.03	0	2,374.07	0	2,096.91	0	1,819.67	0	1,542.42	0	1,265.25	0	991.16	0	724.93	0	453.08	0	180.39
1/4	2,910.83	1/4	2,645.29	1/4	2,368.30	1/4	2,091.13	1/4	1,813.89	1/4	1,536.65	1/4	1,259.47	1/4	985.38	1/4	719.46	1/4	447.30	1/4	174.63
1/2	2,907.46	1/2	2,639.56	1/2	2,362.52	1/2	2,085.36	1/2	1,808.11	1/2	1,530.87	1/2	1,253.69	1/2	979.61	1/2	713.99	1/2	441.52	1/2	168.87
3/4	2,903.13	3/4	2,633.82	3/4	2,356.75	3/4	2,079.58	3/4	1,802.34	3/4	1,525.09	3/4	1,247.92	3/4	973.83	3/4	708.51	3/4	435.74	3/4	163.12
1	2,898.80	1	2,628.09	1	2,350.97	1	2,073.81	1	1,796.56	1	1,519.32	1	1,242.14	1	968.05	1	703.04	1	429.97	1	157.36
1/4	2,894.47	1/4	2,622.35	1/4	2,345.20	1/4	2,068.03	1/4	1,790.79	1/4	1,513.54	1/4	1,236.36	1/4	962.27	1/4	697.56	1/4	424.19	1/4	151.61
1/2	2,890.13	1/2	2,616.62	1/2	2,339.42	1/2	2,062.25	1/2	1,785.01	1/2	1,507.77	1/2	1,230.59	1/2	956.50	1/2	692.09	1/2	418.41	1/2	145.85
3/4	2,884.84	3/4	2,610.84	3/4	2,333.65	3/4	2,056.48	3/4	1,779.23	3/4	1,501.99	3/4	1,224.94	3/4	950.72	3/4	686.61	3/4	412.64	3/4	140.20
2	2,879.55	2	2,605.07	2	2,327.87	2	2,050.70	2	1,773.46	2	1,496.22	2	1,219.30	2	944.94	2	681.14	2	406.86	2	134.54
1/4	2,874.25	1/4	2,599.29	1/4	2,322.10	1/4	2,044.93	1/4	1,767.68	1/4	1,490.44	1/4	1,213.66	1/4	939.16	1/4	675.66	1/4	401.08	1/4	128.89
1/2	2,868.96	1/2	2,593.52	1/2	2,316.32	1/2	2,039.15	1/2	1,761.91	1/2	1,484.66	1/2	1,208.01	1/2	933.39	1/2	670.19	1/2	395.31	1/2	123.24
3/4	2,863.22	3/4	2,587.74	3/4	2,310.55	3/4	2,033.37	3/4	1,756.13	3/4	1,478.89	3/4	1,202.37	3/4	927.88	3/4	664.71	3/4	389.53	3/4	117.70
3	2,857.49	3	2,581.97	3	2,304.77	3	2,027.60	3	1,750.35	3	1,473.11	3	1,196.72	3	922.37	3	659.24	3	383.75	3	112.16
1/4	2,851.75	1/4	2,576.20	1/4	2,299.00	1/4	2,021.82	1/4	1,744.58	1/4	1,467.34	1/4	1,191.08	1/4	916.86	1/4	653.76	1/4	377.97	1/4	106.63
1/2	2,846.02	1/2	2,570.42	1/2	2,293.23	1/2	2,016.05	1/2	1,738.80	1/2	1,461.56	1/2	1,185.43	1/2	911.35	1/2	648.29	1/2	372.20	1/2	101.09
3/4	2,840.28	3/4	2,564.65	3/4	2,287.45	3/4	2,010.27	3/4	1,733.03	3/4	1,455.79	3/4	1,179.79	3/4	905.85	3/4	642.81	3/4	366.42	3/4	95.57
4	2,834.55	4	2,558.87	4	2,281.68	4	2,004.49	4	1,727.25	4	1,450.03	4	1,174.15	4	900.34	4	637.34	4	360.64	4	90.04
1/4	2,828.81	1/4	2,553.10	1/4	2,275.90	1/4	1,998.72	1/4	1,721.48	1/4	1,444.26	1/4	1,168.51	1/4	894.83	1/4	631.86	1/4	354.87	1/4	84.52
1/2	2,823.08	1/2	2,547.32	1/2	2,270.13	1/2	1,992.94	1/2	1,715.70	1/2	1,438.49	1/2	1,162.87	1/2	889.32	1/2	626.39	1/2	349.09	1/2	78.99
3/4	2,817.34	3/4	2,541.55	3/4	2,264.35	3/4	1,987.17	3/4	1,709.92	3/4	1,432.72	3/4	1,157.23	3/4	883.84	3/4	620.61	3/4	343.53	3/4	73.48
5	2,811.61	5	2,535.77	5	2,258.58	5	1,981.39	5	1,704.15	5	1,426.96	5	1,151.54	5	878.35	5	614.83	5	337.97	5	67.96
1/4	2,805.87	1/4	2,530.00	1/4	2,252.80	1/4	1,975.62	1/4	1,698.37	1/4	1,421.19	1/4	1,145.95	1/4	872.86	1/4	609.05	1/4	332.41	1/4	62.44
1/2	2,800.14	1/2	2,524.22	1/2	2,247.03	1/2	1,969.84	1/2	1,692.60	1/2	1,415.42	1/2	1,140.31	1/2	867.38	1/2	603.28	1/2	326.85	1/2	56.93
3/4	2,794.40	3/4	2,518.45	3/4	2,241.25	3/4	1,964.06	3/4	1,686.82	3/4	1,409.65	3/4	1,134.66	3/4	861.89	3/4	597.50	3/4	321.29	3/4	51.44
6	2,788.67	6	2,512.67	6	2,235.48	6	1,958.29	6	1,681.04	6	1,403.87	6	1,129.02	6	856.40	6	591.72	6	315.73	6	45.96
1/4	2,782.93	1/4	2,506.90	1/4	2,229.70	1/4	1,952.51	1/4	1,675.27	1/4	1,398.10	1/4	1,123.37	1/4	850.92	1/4	585.95	1/4	310.17	1/4	40.47
1/2	2,777.20	1/2	2,501.12	1/2	2,223.93	1/2	1,946.74	1/2	1,669.49	1/2	1,392.32	1/2	1,117.73	1/2	845.43	1/2	580.17	1/2	304.62	1/2	34.99
3/4	2,771.46	3/4	2,495.35	3/4	2,218.15	3/4	1,940.96	3/4	1,663.72	3/4	1,386.54	3/4	1,112.08	3/4	839.95	3/4	574.39	3/4	299.06	3/4	30.28
7	2,765.73	7	2,489.57	7	2,212.38	7	1,935.18	7	1,657.94	7	1,380.77	7	1,106.44	7	834.48	7	568.62	7	293.50	7	25.58
1/4	2,759.99	1/4	2,483.80	1/4	2,206.60	1/4	1,929.41	1/4	1,652.16	1/4	1,374.99	1/4	1,100.80	1/4	829.00	1/4	562.84	1/4	287.94	1/4	20.88
1/2	2,754.26	1/2	2,478.02	1/2	2,200.83	1/2	1,923.63	1/2	1,646.39	1/2	1,369.22	1/2	1,095.15	1/2	823.52	1/2	557.06	1/2	282.38	1/2	16.18
3/4	2,748.52	3/4	2,472.25	3/4	2,195.06	3/4	1,917.86	3/4	1,640.61	3/4	1,363.44	3/4	1,089.37	3/4	818.04	3/4	551.28	3/4	276.83	3/4	
8	2,742.79	8	2,466.47	8	2,189.29	8	1,912.08	8	1,634.84	8	1,357.66	8	1,083.60	8	812.56	8	545.51	8	271.28	8	
1/4	2,737.05	1/4	2,460.70	1/4	2,183.52	1/4	1,906.30	1/4	1,629.06	1/4	1,351.89	1/4	1,077.82	1/4	807.08	1/4	539.73	1/4	265.73	1/4	
1/2	2,731.32	1/2	2,454.92	1/2	2,177.75	1/2	1,900.53	1/2	1,623.29	1/2	1,346.11	1/2	1,072.04	1/2	801.60	1/2	533.95	1/2	260.18	1/2	
3/4	2,725.58	3/4	2,449.15	3/4	2,171.98	3/4	1,894.75	3/4	1,617.51	3/4	1,340.33	3/4	1,066.26	3/4	796.12	3/4	528.18	3/4	254.64	3/4	
9	2,719.85	9	2,443.37	9	2,166.21	9	1,888.98	9	1,611.73	9	1,334.56	9	1,060.49	9	790.65	9	522.40	9	249.09	9	
1/4	2,714.11	1/4	2,437.60	1/4	2,160.44	1/4	1,883.20	1/4	1,605.96	1/4	1,328.78	1/4	1,054.71	1/4	785.17	1/4	516.62	1/4	243.54	1/4	
1/2	2,708.38	1/2	2,431.82	1/2	2,154.67	1/2	1,877.42	1/2	1,600.18	1/2	1,323.01	1/2	1,048.93	1/2	779.69	1/2	510.85	1/2	237.99	1/2	
3/4	2,702.64	3/4	2,426.05	3/4	2,148.89	3/4	1,871.65	3/4	1,594.41	3/4	1,317.23	3/4	1,043.16	3/4	774.21	3/4	505.07	3/4	232.22	3/4	
10	2,696.91	10	2,420.27	10	2,143.12	10	1,865.87	10	1,588.63	10	1,311.45	10	1,037.38	10	768.74	10	499.29	10	226.46	10	
1/4	2,691.17	1/4	2,414.50	1/4	2,137.34	1/4	1,860.10	1/4	1,582.85	1/4	1,305.68	1/4	1,031.60	1/4	763.26	1/4	493.51	1/4	220.69	1/4	
1/2	2,685.44	1/2	2,408.72	1/2	2,131.56	1/2	1,854.32	1/2	1,577.08	1/2	1,299.90	1/2	1,025.82	1/2	757.78	1/2	487.74	1/2	214.92	1/2	
3/4	2,679.70	3/4	2,402.95	3/4	2,125.79	3/4	1,848.55	3/4	1,571.30	3/4	1,294.13	3/4	1,020.05	3/4	752.31	3/4	481.96	3/4	209.17	3/4	
11	2,673.97	11	2,397.17	11	2,120.01	11	1,842.77	11	1,565.53	11	1,288.35	11	1,014.27	11	746.83	11	476.18	11	203.41	11	
1/4	2,668.23	1/4	2,391.40	1/4	2,114.24	1/4	1,836.99	1/4	1,559.75	1/4	1,282.57	1/4	1,008.49	1/4	741.36	1/4	470.41	1/4	197.66	1/4	
1/2	2,662.50	1/2	2,385.62	1/2	2,108.46	1/2	1,831.22	1/2	1,553.97	1/2	1,276.80	1/2	1,002.71	1/2	735.88	1/2	464.63	1/2	191.90	1/2	
3/4	2,656.76	3/4	2,379.85	3/4	2,102.68	3/4	1,825.44	3/4	1,548.20	3/4	1,271.02	3/4	996.94	3/4	730.41	3/4	458.85	3/4	186.14	3/4	

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CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES.  
GAUGE POINT: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 32'-06" FORWARD OF AFT BULKHEAD.  
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 34'-06" FORWARD OF AFT BULKHEAD

STRAPPED: 05/09/2013 CL - SW  
CALCULATED: 05/10/2013 CL  
PRINTED: 05/15/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2013

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



# BARGE "MM 93" MAGNOLIA BARGE

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-07 1/4"

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.	IN	11 FT.
0	2,926.82	0	2,661.20	0	2,384.12	0	2,106.87	0	1,829.54	0	1,552.21	0	1,274.94	0	1,000.77	0	724.27	0	447.44	0	174.69
1/4	2,923.46	1/4	2,655.47	1/4	2,378.34	1/4	2,101.09	1/4	1,823.76	1/4	1,546.43	1/4	1,269.17	1/4	994.99	1/4	718.52	1/4	441.66	1/4	168.93
1/2	2,919.12	1/2	2,649.73	1/2	2,372.57	1/2	2,095.31	1/2	1,817.98	1/2	1,540.65	1/2	1,263.39	1/2	989.21	1/2	712.77	1/2	435.88	1/2	163.17
3/4	2,914.79	3/4	2,643.99	3/4	2,366.79	3/4	2,089.53	3/4	1,812.20	3/4	1,534.88	3/4	1,257.61	3/4	983.43	3/4	707.03	3/4	430.10	3/4	157.41
1	2,910.46	1	2,638.25	1	2,361.01	1	2,083.76	1	1,806.43	1	1,529.10	1	1,251.83	1	977.65	1	701.28	1	424.33	1	151.65
1/4	2,906.12	1/4	2,632.52	1/4	2,355.24	1/4	2,077.98	1/4	1,800.65	1/4	1,523.32	1/4	1,246.06	1/4	971.88	1/4	695.54	1/4	418.55	1/4	145.90
1/2	2,900.83	1/2	2,626.74	1/2	2,349.46	1/2	2,072.20	1/2	1,794.87	1/2	1,517.54	1/2	1,240.41	1/2	966.10	1/2	689.79	1/2	412.77	1/2	140.24
3/4	2,895.53	3/4	2,620.96	3/4	2,343.68	3/4	2,066.42	3/4	1,789.09	3/4	1,511.76	3/4	1,234.76	3/4	960.32	3/4	684.05	3/4	406.99	3/4	134.59
2	2,890.23	2	2,615.19	2	2,337.91	2	2,060.65	2	1,783.32	2	1,505.99	2	1,229.12	2	954.54	2	678.30	2	401.21	2	128.93
1/4	2,884.94	1/4	2,609.41	1/4	2,332.13	1/4	2,054.87	1/4	1,777.54	1/4	1,500.21	1/4	1,223.47	1/4	948.76	1/4	672.55	1/4	395.43	1/4	123.28
1/2	2,879.20	1/2	2,603.63	1/2	2,326.35	1/2	2,049.09	1/2	1,771.76	1/2	1,494.43	1/2	1,217.82	1/2	942.98	1/2	666.81	1/2	389.65	1/2	117.74
3/4	2,873.46	3/4	2,597.86	3/4	2,320.58	3/4	2,043.31	3/4	1,765.98	3/4	1,488.65	3/4	1,212.18	3/4	937.20	3/4	661.06	3/4	383.87	3/4	112.20
3	2,867.73	3	2,592.08	3	2,314.80	3	2,037.54	3	1,760.21	3	1,482.88	3	1,206.53	3	931.42	3	655.32	3	378.10	3	106.66
1/4	2,861.99	1/4	2,586.30	1/4	2,309.02	1/4	2,031.76	1/4	1,754.43	1/4	1,477.10	1/4	1,200.89	1/4	925.64	1/4	649.57	1/4	372.32	1/4	101.13
1/2	2,856.25	1/2	2,580.53	1/2	2,303.25	1/2	2,025.98	1/2	1,748.65	1/2	1,471.33	1/2	1,195.24	1/2	919.86	1/2	643.83	1/2	366.54	1/2	95.60
3/4	2,850.52	3/4	2,574.75	3/4	2,297.47	3/4	2,020.20	3/4	1,742.87	3/4	1,465.56	3/4	1,189.60	3/4	914.08	3/4	638.08	3/4	360.76	3/4	90.07
4	2,844.78	4	2,568.97	4	2,291.69	4	2,014.42	4	1,737.09	4	1,459.79	4	1,183.96	4	908.31	4	632.33	4	354.98	4	84.55
1/4	2,839.04	1/4	2,563.20	1/4	2,285.92	1/4	2,008.65	1/4	1,731.32	1/4	1,454.02	1/4	1,178.32	1/4	902.53	1/4	626.58	1/4	349.20	1/4	79.02
1/2	2,833.31	1/2	2,557.42	1/2	2,280.14	1/2	2,002.87	1/2	1,725.54	1/2	1,448.25	1/2	1,172.67	1/2	896.77	1/2	620.80	1/2	343.64	1/2	73.50
3/4	2,827.57	3/4	2,551.64	3/4	2,274.36	3/4	1,997.09	3/4	1,719.76	3/4	1,442.49	3/4	1,167.03	3/4	891.01	3/4	615.03	3/4	338.08	3/4	67.98
5	2,821.83	5	2,545.87	5	2,268.59	5	1,991.31	5	1,713.98	5	1,436.72	5	1,161.39	5	885.26	5	609.25	5	332.52	5	62.46
1/4	2,816.10	1/4	2,540.09	1/4	2,262.81	1/4	1,985.54	1/4	1,708.21	1/4	1,430.95	1/4	1,155.74	1/4	879.50	1/4	603.47	1/4	326.96	1/4	56.95
1/2	2,810.36	1/2	2,534.31	1/2	2,257.03	1/2	1,979.76	1/2	1,702.43	1/2	1,425.17	1/2	1,150.10	1/2	873.74	1/2	597.69	1/2	321.40	1/2	51.46
3/4	2,804.62	3/4	2,528.54	3/4	2,251.26	3/4	1,973.98	3/4	1,696.65	3/4	1,419.39	3/4	1,144.45	3/4	867.98	3/4	591.91	3/4	315.84	3/4	45.97
6	2,798.89	6	2,522.76	6	2,245.48	6	1,968.20	6	1,690.87	6	1,413.61	6	1,138.81	6	862.23	6	586.13	6	310.27	6	40.48
1/4	2,793.15	1/4	2,516.98	1/4	2,239.70	1/4	1,962.43	1/4	1,685.10	1/4	1,407.84	1/4	1,133.16	1/4	856.47	1/4	580.35	1/4	304.71	1/4	35.00
1/2	2,787.41	1/2	2,511.21	1/2	2,233.93	1/2	1,956.65	1/2	1,679.32	1/2	1,402.06	1/2	1,127.51	1/2	850.72	1/2	574.57	1/2	299.15	1/2	30.29
3/4	2,781.67	3/4	2,505.43	3/4	2,228.15	3/4	1,950.87	3/4	1,673.54	3/4	1,396.28	3/4	1,121.87	3/4	844.97	3/4	568.80	3/4	293.59	3/4	25.59
7	2,775.94	7	2,499.65	7	2,222.37	7	1,945.09	7	1,667.76	7	1,390.50	7	1,116.22	7	839.22	7	563.02	7	288.03	7	20.89
1/4	2,770.20	1/4	2,493.88	1/4	2,216.60	1/4	1,939.31	1/4	1,661.98	1/4	1,384.72	1/4	1,110.57	1/4	833.47	1/4	557.24	1/4	282.47	1/4	16.18
1/2	2,764.46	1/2	2,488.10	1/2	2,210.82	1/2	1,933.54	1/2	1,656.21	1/2	1,378.95	1/2	1,104.80	1/2	827.72	1/2	551.46	1/2	276.92	1/2	
3/4	2,758.73	3/4	2,482.32	3/4	2,205.05	3/4	1,927.76	3/4	1,650.43	3/4	1,373.17	3/4	1,099.02	3/4	821.97	3/4	545.68	3/4	271.37	3/4	
8	2,752.99	8	2,476.55	8	2,199.28	8	1,921.98	8	1,644.65	8	1,367.39	8	1,093.24	8	816.22	8	539.90	8	265.82	8	
1/4	2,747.25	1/4	2,470.77	1/4	2,193.51	1/4	1,916.20	1/4	1,638.87	1/4	1,361.61	1/4	1,087.46	1/4	810.47	1/4	534.12	1/4	260.27	1/4	
1/2	2,741.52	1/2	2,464.99	1/2	2,187.74	1/2	1,910.43	1/2	1,633.10	1/2	1,355.84	1/2	1,081.68	1/2	804.72	1/2	528.34	1/2	254.72	1/2	
3/4	2,735.78	3/4	2,459.22	3/4	2,181.97	3/4	1,904.65	3/4	1,627.32	3/4	1,350.06	3/4	1,075.90	3/4	798.97	3/4	522.57	3/4	249.17	3/4	
9	2,730.04	9	2,453.44	9	2,176.19	9	1,898.87	9	1,621.54	9	1,344.28	9	1,070.12	9	793.22	9	516.79	9	243.62	9	
1/4	2,724.31	1/4	2,447.66	1/4	2,170.42	1/4	1,893.09	1/4	1,615.76	1/4	1,338.50	1/4	1,064.34	1/4	787.47	1/4	511.01	1/4	238.07	1/4	
1/2	2,718.57	1/2	2,441.89	1/2	2,164.64	1/2	1,887.32	1/2	1,609.99	1/2	1,332.72	1/2	1,058.56	1/2	781.73	1/2	505.23	1/2	232.30	1/2	
3/4	2,712.83	3/4	2,436.11	3/4	2,158.87	3/4	1,881.54	3/4	1,604.21	3/4	1,326.95	3/4	1,052.78	3/4	775.98	3/4	499.45	3/4	226.53	3/4	
10	2,707.10	10	2,430.33	10	2,153.09	10	1,875.76	10	1,598.43	10	1,321.17	10	1,047.00	10	770.23	10	493.67	10	220.76	10	
1/4	2,701.36	1/4	2,424.56	1/4	2,147.31	1/4	1,869.98	1/4	1,592.65	1/4	1,315.39	1/4	1,041.23	1/4	764.48	1/4	487.89	1/4	214.99	1/4	
1/2	2,695.62	1/2	2,418.78	1/2	2,141.53	1/2	1,864.20	1/2	1,586.87	1/2	1,309.61	1/2	1,035.45	1/2	758.74	1/2	482.11	1/2	209.23	1/2	
3/4	2,689.89	3/4	2,413.00	3/4	2,135.76	3/4	1,858.43	3/4	1,581.10	3/4	1,303.83	3/4	1,029.67	3/4	752.99	3/4	476.33	3/4	203.48	3/4	
11	2,684.15	11	2,407.23	11	2,129.98	11	1,852.65	11	1,575.32	11	1,298.06	11	1,023.89	11	747.25	11	470.56	11	197.72	11	
1/4	2,678.41	1/4	2,401.45	1/4	2,124.20	1/4	1,846.87	1/4	1,569.54	1/4	1,292.28	1/4	1,018.11	1/4	741.50	1/4	464.78	1/4	191.96	1/4	
1/2	2,672.68	1/2	2,395.67	1/2	2,118.42	1/2	1,841.09	1/2	1,563.76	1/2	1,286.50	1/2	1,012.33	1/2	735.76	1/2	459.00	1/2	186.20	1/2	
3/4	2,666.94	3/4	2,389.90	3/4	2,112.65	3/4	1,835.32	3/4	1,557.99	3/4	1,280.72	3/4	1,006.55	3/4	730.01	3/4	453.22	3/4	180.44	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: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 32'-06" FORWARD OF AFT BULKHEAD.  
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 34'-06" FORWARD OF AFT BULKHEAD

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# BARGE "MM 93" MAGNOLIA BARGE

# 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-07 1/2"

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.	IN	11 FT.
0		0	2,612.48	0	2,339.52	0	2,066.36	0	1,793.11	0	1,519.87	0	1,246.69	0	976.61	0	714.38	0	446.52	0	177.78
1/4	2,868.50	1/4	2,606.82	1/4	2,333.83	1/4	2,060.67	1/4	1,787.42	1/4	1,514.18	1/4	1,241.00	1/4	970.91	1/4	708.99	1/4	440.83	1/4	172.11
1/2	2,865.18	1/2	2,601.17	1/2	2,328.14	1/2	2,054.97	1/2	1,781.73	1/2	1,508.48	1/2	1,235.31	1/2	965.22	1/2	703.60	1/2	435.14	1/2	166.44
3/4	2,860.91	3/4	2,595.52	3/4	2,322.45	3/4	2,049.28	3/4	1,776.04	3/4	1,502.79	3/4	1,229.62	3/4	959.53	3/4	698.21	3/4	429.44	3/4	160.76
1	2,856.65	1	2,589.87	1	2,316.75	1	2,043.59	1	1,770.34	1	1,497.10	1	1,223.92	1	953.83	1	692.82	1	423.75	1	155.09
1/4	2,852.38	1/4	2,584.22	1/4	2,311.06	1/4	2,037.90	1/4	1,764.65	1/4	1,491.41	1/4	1,218.23	1/4	948.14	1/4	687.43	1/4	418.06	1/4	149.42
1/2	2,848.11	1/2	2,578.57	1/2	2,305.37	1/2	2,032.20	1/2	1,758.96	1/2	1,485.71	1/2	1,212.54	1/2	942.44	1/2	682.04	1/2	412.36	1/2	143.75
3/4	2,842.89	3/4	2,572.88	3/4	2,299.68	3/4	2,026.51	3/4	1,753.27	3/4	1,480.02	3/4	1,206.98	3/4	936.75	3/4	676.65	3/4	406.67	3/4	138.18
2	2,837.67	2	2,567.18	2	2,293.99	2	2,020.82	2	1,747.57	2	1,474.33	2	1,201.41	2	931.06	2	671.25	2	400.98	2	132.60
1/4	2,832.45	1/4	2,561.49	1/4	2,288.30	1/4	2,015.13	1/4	1,741.88	1/4	1,468.64	1/4	1,195.85	1/4	925.36	1/4	665.86	1/4	395.28	1/4	127.03
1/2	2,827.23	1/2	2,555.80	1/2	2,282.60	1/2	2,009.43	1/2	1,736.19	1/2	1,462.94	1/2	1,190.29	1/2	919.67	1/2	660.47	1/2	389.59	1/2	121.46
3/4	2,821.58	3/4	2,550.11	3/4	2,276.91	3/4	2,003.74	3/4	1,730.50	3/4	1,457.25	3/4	1,184.73	3/4	914.24	3/4	655.08	3/4	383.89	3/4	116.01
3	2,815.93	3	2,544.42	3	2,271.22	3	1,998.05	3	1,724.80	3	1,451.56	3	1,179.17	3	908.82	3	649.69	3	378.20	3	110.55
1/4	2,810.28	1/4	2,538.73	1/4	2,265.53	1/4	1,992.36	1/4	1,719.11	1/4	1,445.87	1/4	1,173.61	1/4	903.39	1/4	644.30	1/4	372.51	1/4	105.09
1/2	2,804.63	1/2	2,533.03	1/2	2,259.84	1/2	1,986.66	1/2	1,713.42	1/2	1,440.17	1/2	1,168.05	1/2	897.97	1/2	638.91	1/2	366.81	1/2	99.64
3/4	2,798.98	3/4	2,527.34	3/4	2,254.15	3/4	1,980.97	3/4	1,707.73	3/4	1,434.49	3/4	1,162.49	3/4	892.55	3/4	633.51	3/4	361.12	3/4	94.19
4	2,793.32	4	2,521.65	4	2,248.45	4	1,975.28	4	1,702.03	4	1,428.81	4	1,156.93	4	887.12	4	628.12	4	355.43	4	88.75
1/4	2,787.67	1/4	2,515.96	1/4	2,242.76	1/4	1,969.59	1/4	1,696.34	1/4	1,423.12	1/4	1,151.38	1/4	881.70	1/4	622.73	1/4	349.73	1/4	83.31
1/2	2,782.02	1/2	2,510.27	1/2	2,237.07	1/2	1,963.89	1/2	1,690.65	1/2	1,417.44	1/2	1,145.82	1/2	876.27	1/2	617.33	1/2	344.04	1/2	77.86
3/4	2,776.37	3/4	2,504.58	3/4	2,231.38	3/4	1,958.20	3/4	1,684.96	3/4	1,411.76	3/4	1,140.26	3/4	870.87	3/4	611.64	3/4	338.56	3/4	72.42
5	2,770.72	5	2,498.88	5	2,225.69	5	1,952.51	5	1,679.26	5	1,406.07	5	1,134.70	5	865.47	5	605.95	5	333.08	5	66.99
1/4	2,765.07	1/4	2,493.19	1/4	2,220.00	1/4	1,946.81	1/4	1,673.57	1/4	1,400.39	1/4	1,129.15	1/4	860.06	1/4	600.25	1/4	327.60	1/4	61.55
1/2	2,759.42	1/2	2,487.50	1/2	2,214.30	1/2	1,941.12	1/2	1,667.88	1/2	1,394.71	1/2	1,123.59	1/2	854.66	1/2	594.56	1/2	322.13	1/2	56.12
3/4	2,753.76	3/4	2,481.81	3/4	2,208.61	3/4	1,935.43	3/4	1,662.18	3/4	1,389.01	3/4	1,118.03	3/4	849.26	3/4	588.86	3/4	316.65	3/4	50.71
6	2,748.11	6	2,476.12	6	2,202.92	6	1,929.74	6	1,656.49	6	1,383.32	6	1,112.47	6	843.85	6	583.17	6	311.17	6	45.30
1/4	2,742.46	1/4	2,470.43	1/4	2,197.23	1/4	1,924.04	1/4	1,650.80	1/4	1,377.63	1/4	1,106.90	1/4	838.45	1/4	577.48	1/4	305.69	1/4	39.90
1/2	2,736.81	1/2	2,464.74	1/2	2,191.54	1/2	1,918.35	1/2	1,645.11	1/2	1,371.94	1/2	1,101.34	1/2	833.05	1/2	571.78	1/2	300.21	1/2	34.49
3/4	2,731.16	3/4	2,459.04	3/4	2,185.85	3/4	1,912.66	3/4	1,639.41	3/4	1,366.24	3/4	1,095.78	3/4	827.65	3/4	566.09	3/4	294.73	3/4	29.86
7	2,725.51	7	2,453.35	7	2,180.16	7	1,906.97	7	1,633.72	7	1,360.55	7	1,090.22	7	822.26	7	560.40	7	289.25	7	25.22
1/4	2,719.85	1/4	2,447.66	1/4	2,174.46	1/4	1,901.27	1/4	1,628.03	1/4	1,354.86	1/4	1,084.66	1/4	816.86	1/4	554.70	1/4	283.77	1/4	20.59
1/2	2,714.20	1/2	2,441.97	1/2	2,168.77	1/2	1,895.58	1/2	1,622.34	1/2	1,349.16	1/2	1,079.10	1/2	811.47	1/2	549.01	1/2	278.30	1/2	15.96
3/4	2,708.55	3/4	2,436.28	3/4	2,163.09	3/4	1,889.89	3/4	1,616.64	3/4	1,343.47	3/4	1,073.40	3/4	806.07	3/4	543.32	3/4	272.83	3/4	
8	2,702.90	8	2,430.59	8	2,157.40	8	1,884.20	8	1,610.95	8	1,337.78	8	1,067.71	8	800.68	8	537.62	8	267.36	8	
1/4	2,697.25	1/4	2,424.89	1/4	2,151.71	1/4	1,878.50	1/4	1,605.26	1/4	1,332.09	1/4	1,062.02	1/4	795.28	1/4	531.93	1/4	261.89	1/4	
1/2	2,691.60	1/2	2,419.20	1/2	2,146.03	1/2	1,872.81	1/2	1,599.57	1/2	1,326.39	1/2	1,056.32	1/2	789.89	1/2	526.23	1/2	256.42	1/2	
3/4	2,685.95	3/4	2,413.51	3/4	2,140.34	3/4	1,867.12	3/4	1,593.87	3/4	1,320.70	3/4	1,050.63	3/4	784.49	3/4	520.54	3/4	250.96	3/4	
9	2,680.29	9	2,407.82	9	2,134.66	9	1,861.43	9	1,588.18	9	1,315.01	9	1,044.93	9	779.10	9	514.85	9	245.49	9	
1/4	2,674.64	1/4	2,402.13	1/4	2,128.97	1/4	1,855.73	1/4	1,582.49	1/4	1,309.31	1/4	1,039.24	1/4	773.70	1/4	509.15	1/4	240.02	1/4	
1/2	2,668.99	1/2	2,396.44	1/2	2,123.29	1/2	1,850.04	1/2	1,576.80	1/2	1,303.62	1/2	1,033.55	1/2	768.30	1/2	503.46	1/2	234.55	1/2	
3/4	2,663.34	3/4	2,390.74	3/4	2,117.59	3/4	1,844.35	3/4	1,571.10	3/4	1,297.93	3/4	1,027.85	3/4	762.91	3/4	497.77	3/4	228.87	3/4	
10	2,657.69	10	2,385.05	10	2,111.90	10	1,838.66	10	1,565.41	10	1,292.24	10	1,022.16	10	757.52	10	492.07	10	223.19	10	
1/4	2,652.04	1/4	2,379.36	1/4	2,106.21	1/4	1,832.96	1/4	1,559.72	1/4	1,286.54	1/4	1,016.47	1/4	752.13	1/4	486.38	1/4	217.50	1/4	
1/2	2,646.39	1/2	2,373.67	1/2	2,100.52	1/2	1,827.27	1/2	1,554.03	1/2	1,280.85	1/2	1,010.77	1/2	746.73	1/2	480.69	1/2	211.82	1/2	
3/4	2,640.73	3/4	2,367.98	3/4	2,094.82	3/4	1,821.58	3/4	1,548.33	3/4	1,275.16	3/4	1,005.08	3/4	741.34	3/4	474.99	3/4	206.15	3/4	
11	2,635.08	11	2,362.29	11	2,089.13	11	1,815.89	11	1,542.64	11	1,269.46	11	999.38	11	735.95	11	469.30	11	200.47	11	
1/4	2,629.43	1/4	2,356.59	1/4	2,083.44	1/4	1,810.19	1/4	1,536.95	1/4	1,263.77	1/4	993.69	1/4	730.56	1/4	463.61	1/4	194.80	1/4	
1/2	2,623.78	1/2	2,350.90	1/2	2,077.74	1/2	1,804.50	1/2	1,531.26	1/2	1,258.08	1/2	988.00	1/2	725.17	1/2	457.91	1/2	189.13	1/2	
3/4	2,618.13	3/4	2,345.21	3/4	2,072.05	3/4	1,798.81	3/4	1,525.56	3/4	1,252.39	3/4	982.30	3/4	719.78	3/4	452.22	3/4	183.46	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: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 33'-06" FORWARD OF AFT BULKHEAD.  
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 35'-06" FORWARD OF AFT BULKHEAD

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



# BARGE "MM 93" MAGNOLIA BARGE

# 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-08"

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.	IN	11 FT.
0		0	2,638.85	0	2,365.98	0	2,092.82	0	1,819.57	0	1,546.33	0	1,273.15	0	1,003.07	0	730.55	0	457.91	0	189.13
1/4		1/4	2,633.20	1/4	2,360.29	1/4	2,087.13	1/4	1,813.88	1/4	1,540.64	1/4	1,267.46	1/4	997.38	1/4	724.89	1/4	452.22	1/4	183.46
1/2		1/2	2,627.55	1/2	2,354.59	1/2	2,081.43	1/2	1,808.19	1/2	1,534.94	1/2	1,261.77	1/2	991.68	1/2	719.23	1/2	446.52	1/2	177.78
3/4	2,883.58	3/4	2,621.90	3/4	2,348.90	3/4	2,075.74	3/4	1,802.50	3/4	1,529.25	3/4	1,256.07	3/4	985.99	3/4	713.57	3/4	440.83	3/4	172.11
1	2,880.26	1	2,616.25	1	2,343.21	1	2,070.05	1	1,796.80	1	1,523.56	1	1,250.38	1	980.29	1	707.91	1	435.14	1	166.44
1/4	2,875.99	1/4	2,610.60	1/4	2,337.52	1/4	2,064.36	1/4	1,791.11	1/4	1,517.87	1/4	1,244.69	1/4	974.60	1/4	702.25	1/4	429.44	1/4	160.76
1/2	2,871.72	1/2	2,604.94	1/2	2,331.83	1/2	2,058.66	1/2	1,785.42	1/2	1,512.17	1/2	1,239.00	1/2	968.91	1/2	696.59	1/2	423.75	1/2	155.09
3/4	2,867.45	3/4	2,599.29	3/4	2,326.14	3/4	2,052.97	3/4	1,779.73	3/4	1,506.48	3/4	1,233.30	3/4	963.21	3/4	690.93	3/4	418.06	3/4	149.42
2	2,863.18	2	2,593.64	2	2,320.44	2	2,047.28	2	1,774.03	2	1,500.79	2	1,227.61	2	957.52	2	685.27	2	412.36	2	143.75
1/4	2,857.96	1/4	2,587.95	1/4	2,314.75	1/4	2,041.59	1/4	1,768.34	1/4	1,495.10	1/4	1,222.05	1/4	951.82	1/4	679.61	1/4	406.67	1/4	138.18
1/2	2,852.74	1/2	2,582.26	1/2	2,309.06	1/2	2,035.89	1/2	1,762.65	1/2	1,489.40	1/2	1,216.49	1/2	946.13	1/2	673.95	1/2	400.98	1/2	132.60
3/4	2,847.53	3/4	2,576.57	3/4	2,303.37	3/4	2,030.20	3/4	1,756.95	3/4	1,483.71	3/4	1,210.93	3/4	940.44	3/4	668.29	3/4	395.28	3/4	127.03
3	2,842.31	3	2,570.87	3	2,297.68	3	2,024.51	3	1,751.26	3	1,478.02	3	1,205.37	3	934.74	3	662.62	3	389.59	3	121.46
1/4	2,836.66	1/4	2,565.18	1/4	2,291.99	1/4	2,018.81	1/4	1,745.57	1/4	1,472.32	1/4	1,199.80	1/4	929.05	1/4	656.96	1/4	383.89	1/4	116.01
1/2	2,831.00	1/2	2,559.49	1/2	2,286.29	1/2	2,013.12	1/2	1,739.88	1/2	1,466.63	1/2	1,194.24	1/2	923.35	1/2	651.30	1/2	378.20	1/2	110.55
3/4	2,825.35	3/4	2,553.80	3/4	2,280.60	3/4	2,007.43	3/4	1,734.18	3/4	1,460.94	3/4	1,188.68	3/4	917.66	3/4	645.64	3/4	372.51	3/4	105.09
4	2,819.70	4	2,548.11	4	2,274.91	4	2,001.74	4	1,728.49	4	1,455.25	4	1,183.12	4	911.97	4	639.98	4	366.81	4	99.64
1/4	2,814.05	1/4	2,542.42	1/4	2,269.22	1/4	1,996.04	1/4	1,722.80	1/4	1,449.56	1/4	1,177.56	1/4	906.27	1/4	634.32	1/4	361.12	1/4	94.19
1/2	2,808.40	1/2	2,536.72	1/2	2,263.53	1/2	1,990.35	1/2	1,717.11	1/2	1,443.88	1/2	1,172.01	1/2	900.58	1/2	628.66	1/2	355.43	1/2	88.75
3/4	2,802.75	3/4	2,531.03	3/4	2,257.84	3/4	1,984.66	3/4	1,711.41	3/4	1,438.20	3/4	1,166.45	3/4	894.89	3/4	623.00	3/4	349.73	3/4	83.31
5	2,797.09	5	2,525.34	5	2,252.14	5	1,978.97	5	1,705.72	5	1,432.51	5	1,160.89	5	889.19	5	617.33	5	344.04	5	77.86
1/4	2,791.44	1/4	2,519.65	1/4	2,246.45	1/4	1,973.27	1/4	1,700.03	1/4	1,426.83	1/4	1,155.33	1/4	883.52	1/4	611.64	1/4	338.56	1/4	72.42
1/2	2,785.79	1/2	2,513.96	1/2	2,240.76	1/2	1,967.58	1/2	1,694.34	1/2	1,421.15	1/2	1,149.78	1/2	877.85	1/2	605.95	1/2	333.08	1/2	66.99
3/4	2,780.14	3/4	2,508.27	3/4	2,235.07	3/4	1,961.89	3/4	1,688.64	3/4	1,415.46	3/4	1,144.22	3/4	872.18	3/4	600.25	3/4	327.60	3/4	61.55
6	2,774.49	6	2,502.58	6	2,229.38	6	1,956.20	6	1,682.95	6	1,409.78	6	1,138.66	6	866.50	6	594.56	6	322.13	6	56.12
1/4	2,768.84	1/4	2,496.88	1/4	2,223.69	1/4	1,950.50	1/4	1,677.26	1/4	1,404.09	1/4	1,133.10	1/4	860.83	1/4	588.86	1/4	316.65	1/4	50.71
1/2	2,763.19	1/2	2,491.19	1/2	2,218.00	1/2	1,944.81	1/2	1,671.57	1/2	1,398.39	1/2	1,127.54	1/2	855.16	1/2	583.17	1/2	311.17	1/2	45.30
3/4	2,757.53	3/4	2,485.50	3/4	2,212.30	3/4	1,939.12	3/4	1,665.87	3/4	1,392.70	3/4	1,121.98	3/4	849.49	3/4	577.48	3/4	305.69	3/4	39.90
7	2,751.88	7	2,479.81	7	2,206.61	7	1,933.43	7	1,660.18	7	1,387.01	7	1,116.42	7	843.81	7	571.78	7	300.21	7	34.49
1/4	2,746.23	1/4	2,474.12	1/4	2,200.92	1/4	1,927.73	1/4	1,654.49	1/4	1,381.32	1/4	1,110.86	1/4	838.15	1/4	566.09	1/4	294.73	1/4	29.86
1/2	2,740.58	1/2	2,468.43	1/2	2,195.23	1/2	1,922.04	1/2	1,648.80	1/2	1,375.62	1/2	1,105.29	1/2	832.49	1/2	560.40	1/2	289.25	1/2	25.22
3/4	2,734.93	3/4	2,462.73	3/4	2,189.54	3/4	1,916.35	3/4	1,643.10	3/4	1,369.93	3/4	1,099.73	3/4	826.82	3/4	554.70	3/4	283.77	3/4	20.59
8	2,729.28	8	2,457.04	8	2,183.85	8	1,910.66	8	1,637.41	8	1,364.24	8	1,094.17	8	821.16	8	549.01	8	278.30	8	15.96
1/4	2,723.63	1/4	2,451.35	1/4	2,178.16	1/4	1,904.96	1/4	1,631.72	1/4	1,358.54	1/4	1,088.48	1/4	815.49	1/4	543.32	1/4	272.83	1/4	
1/2	2,717.97	1/2	2,445.66	1/2	2,172.47	1/2	1,899.27	1/2	1,626.03	1/2	1,352.85	1/2	1,082.78	1/2	809.83	1/2	537.62	1/2	267.36	1/2	
3/4	2,712.32	3/4	2,439.97	3/4	2,166.79	3/4	1,893.58	3/4	1,620.33	3/4	1,347.16	3/4	1,077.09	3/4	804.16	3/4	531.93	3/4	261.89	3/4	
9	2,706.67	9	2,434.28	9	2,161.10	9	1,887.88	9	1,614.64	9	1,341.47	9	1,071.40	9	798.50	9	526.23	9	256.42	9	
1/4	2,701.02	1/4	2,428.58	1/4	2,155.42	1/4	1,882.19	1/4	1,608.95	1/4	1,335.77	1/4	1,065.70	1/4	792.84	1/4	520.54	1/4	250.96	1/4	
1/2	2,695.37	1/2	2,422.89	1/2	2,149.73	1/2	1,876.50	1/2	1,603.25	1/2	1,330.08	1/2	1,060.01	1/2	787.17	1/2	514.85	1/2	245.49	1/2	
3/4	2,689.72	3/4	2,417.20	3/4	2,144.04	3/4	1,870.81	3/4	1,597.56	3/4	1,324.39	3/4	1,054.31	3/4	781.51	3/4	509.15	3/4	240.02	3/4	
10	2,684.06	10	2,411.51	10	2,138.36	10	1,865.11	10	1,591.87	10	1,318.70	10	1,048.62	10	775.84	10	503.46	10	234.55	10	
1/4	2,678.41	1/4	2,405.82	1/4	2,132.67	1/4	1,859.42	1/4	1,586.18	1/4	1,313.00	1/4	1,042.93	1/4	770.18	1/4	497.77	1/4	228.87	1/4	
1/2	2,672.76	1/2	2,400.13	1/2	2,126.97	1/2	1,853.73	1/2	1,580.48	1/2	1,307.31	1/2	1,037.23	1/2	764.52	1/2	492.07	1/2	223.19	1/2	
3/4	2,667.11	3/4	2,394.43	3/4	2,121.28	3/4	1,848.04	3/4	1,574.79	3/4	1,301.62	3/4	1,031.54	3/4	758.85	3/4	486.38	3/4	217.50	3/4	
11	2,661.46	11	2,388.74	11	2,115.59	11	1,842.34	11	1,569.10	11	1,295.92	11	1,025.85	11	753.19	11	480.69	11	211.82	11	
1/4	2,655.81	1/4	2,383.05	1/4	2,109.90	1/4	1,836.65	1/4	1,563.41	1/4	1,290.23	1/4	1,020.15	1/4	747.53	1/4	474.99	1/4	206.15	1/4	
1/2	2,650.16	1/2	2,377.36	1/2	2,104.20	1/2	1,830.96	1/2	1,557.71	1/2	1,284.54	1/2	1,014.46	1/2	741.87	1/2	469.30	1/2	200.47	1/2	
3/4	2,644.50	3/4	2,371.67	3/4	2,098.51	3/4	1,825.27	3/4	1,552.02	3/4	1,278.85	3/4	1,008.76	3/4	736.21	3/4	463.61	3/4	194.80	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.  
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# BARGE "MM 93" MAGNOLIA BARGE

# 4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-07"

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.	IN	11 FT.
0	2,943.03	0	2,672.94	0	2,393.78	0	2,114.48	0	1,835.31	0	1,557.66	0	1,280.41	0	1,003.86	0	733.34	0	457.41	0	176.45
1/4	2,938.66	1/4	2,667.16	1/4	2,387.96	1/4	2,108.66	1/4	1,829.49	1/4	1,551.92	1/4	1,274.59	1/4	998.03	1/4	727.75	1/4	451.58	1/4	170.63
1/2	2,934.28	1/2	2,661.38	1/2	2,382.14	1/2	2,102.84	1/2	1,823.67	1/2	1,546.17	1/2	1,268.77	1/2	992.21	1/2	722.17	1/2	445.76	1/2	164.81
3/4	2,929.90	3/4	2,655.60	3/4	2,376.32	3/4	2,097.02	3/4	1,817.85	3/4	1,540.43	3/4	1,262.95	3/4	986.38	3/4	716.58	3/4	439.93	3/4	158.99
1	2,925.52	1	2,649.82	1	2,370.50	1	2,091.20	1	1,812.03	1	1,534.68	1	1,257.13	1	980.56	1	710.99	1	434.10	1	153.17
1/4	2,920.17	1/4	2,644.01	1/4	2,364.68	1/4	2,085.38	1/4	1,806.20	1/4	1,528.94	1/4	1,251.42	1/4	974.73	1/4	705.40	1/4	428.27	1/4	147.31
1/2	2,914.82	1/2	2,638.19	1/2	2,358.86	1/2	2,079.56	1/2	1,800.38	1/2	1,523.19	1/2	1,245.72	1/2	968.91	1/2	699.82	1/2	422.44	1/2	141.45
3/4	2,909.46	3/4	2,632.37	3/4	2,353.04	3/4	2,073.74	3/4	1,794.56	3/4	1,517.45	3/4	1,240.02	3/4	963.08	3/4	694.23	3/4	416.61	3/4	135.59
2	2,904.11	2	2,626.55	2	2,347.22	2	2,067.92	2	1,788.74	2	1,511.70	2	1,234.32	2	957.26	2	688.64	2	410.79	2	129.73
1/4	2,898.33	1/4	2,620.73	1/4	2,341.40	1/4	2,062.11	1/4	1,782.92	1/4	1,505.96	1/4	1,228.61	1/4	951.64	1/4	683.05	1/4	404.96	1/4	123.85
1/2	2,892.55	1/2	2,614.91	1/2	2,335.58	1/2	2,056.29	1/2	1,777.10	1/2	1,500.21	1/2	1,222.91	1/2	946.01	1/2	677.47	1/2	399.13	1/2	117.97
3/4	2,886.77	3/4	2,609.09	3/4	2,329.76	3/4	2,050.48	3/4	1,771.27	3/4	1,494.47	3/4	1,217.21	3/4	940.39	3/4	671.88	3/4	393.31	3/4	112.08
3	2,880.99	3	2,603.27	3	2,323.94	3	2,044.67	3	1,765.45	3	1,488.72	3	1,211.50	3	934.77	3	666.29	3	387.48	3	106.20
1/4	2,875.21	1/4	2,597.45	1/4	2,318.12	1/4	2,038.85	1/4	1,759.63	1/4	1,482.99	1/4	1,205.81	1/4	929.15	1/4	660.70	1/4	381.65	1/4	100.33
1/2	2,869.43	1/2	2,591.63	1/2	2,312.31	1/2	2,033.04	1/2	1,753.81	1/2	1,477.25	1/2	1,200.12	1/2	923.53	1/2	655.11	1/2	375.82	1/2	94.46
3/4	2,863.66	3/4	2,585.81	3/4	2,306.49	3/4	2,027.23	3/4	1,747.99	3/4	1,471.51	3/4	1,194.43	3/4	917.91	3/4	649.52	3/4	370.00	3/4	88.59
4	2,857.88	4	2,579.99	4	2,300.67	4	2,021.41	4	1,742.16	4	1,465.78	4	1,188.74	4	912.29	4	643.93	4	364.17	4	82.72
1/4	2,852.10	1/4	2,574.17	1/4	2,294.85	1/4	2,015.60	1/4	1,736.34	1/4	1,460.05	1/4	1,183.05	1/4	906.69	1/4	638.10	1/4	358.28	1/4	76.85
1/2	2,846.32	1/2	2,568.35	1/2	2,289.03	1/2	2,009.78	1/2	1,730.52	1/2	1,454.32	1/2	1,177.36	1/2	901.09	1/2	632.27	1/2	352.38	1/2	70.99
3/4	2,840.54	3/4	2,562.54	3/4	2,283.21	3/4	2,003.97	3/4	1,724.70	3/4	1,448.60	3/4	1,171.67	3/4	895.49	3/4	626.45	3/4	346.49	3/4	65.12
5	2,834.76	5	2,556.72	5	2,277.39	5	1,998.16	5	1,718.88	5	1,442.87	5	1,165.98	5	889.89	5	620.62	5	340.60	5	59.26
1/4	2,828.98	1/4	2,550.90	1/4	2,271.57	1/4	1,992.34	1/4	1,713.11	1/4	1,437.12	1/4	1,160.28	1/4	884.29	1/4	614.79	1/4	334.70	1/4	53.43
1/2	2,823.20	1/2	2,545.08	1/2	2,265.75	1/2	1,986.53	1/2	1,707.34	1/2	1,431.38	1/2	1,154.57	1/2	878.69	1/2	608.96	1/2	328.81	1/2	47.60
3/4	2,817.42	3/4	2,539.26	3/4	2,259.93	3/4	1,980.72	3/4	1,701.58	3/4	1,425.63	3/4	1,148.87	3/4	873.10	3/4	603.13	3/4	322.92	3/4	41.77
6	2,811.64	6	2,533.44	6	2,254.11	6	1,974.90	6	1,695.81	6	1,419.88	6	1,143.17	6	867.50	6	597.30	6	317.02	6	35.93
1/4	2,805.86	1/4	2,527.62	1/4	2,248.29	1/4	1,969.09	1/4	1,690.04	1/4	1,414.12	1/4	1,137.47	1/4	861.90	1/4	591.47	1/4	311.13	1/4	31.04
1/2	2,800.08	1/2	2,521.80	1/2	2,242.47	1/2	1,963.28	1/2	1,684.28	1/2	1,408.37	1/2	1,131.76	1/2	856.31	1/2	585.64	1/2	305.23	1/2	26.14
3/4	2,794.30	3/4	2,515.98	3/4	2,236.65	3/4	1,957.46	3/4	1,678.51	3/4	1,402.61	3/4	1,126.06	3/4	850.72	3/4	579.82	3/4	299.34	3/4	21.24
7	2,788.53	7	2,510.16	7	2,230.83	7	1,951.65	7	1,672.74	7	1,396.85	7	1,120.36	7	845.13	7	573.99	7	293.44	7	16.35
1/4	2,782.75	1/4	2,504.34	1/4	2,225.02	1/4	1,945.84	1/4	1,666.98	1/4	1,391.03	1/4	1,114.53	1/4	839.54	1/4	568.16	1/4	287.56	1/4	11.46
1/2	2,776.97	1/2	2,498.52	1/2	2,219.21	1/2	1,940.02	1/2	1,661.21	1/2	1,385.21	1/2	1,108.71	1/2	833.95	1/2	562.33	1/2	281.67	1/2	6.57
3/4	2,771.19	3/4	2,492.70	3/4	2,213.39	3/4	1,934.21	3/4	1,655.44	3/4	1,379.39	3/4	1,102.88	3/4	828.36	3/4	556.50	3/4	275.79	3/4	1.68
8	2,765.41	8	2,486.88	8	2,207.58	8	1,928.40	8	1,649.68	8	1,373.56	8	1,097.06	8	822.76	8	550.67	8	269.91	8	0.79
1/4	2,759.63	1/4	2,481.06	1/4	2,201.77	1/4	1,922.58	1/4	1,643.91	1/4	1,367.74	1/4	1,091.23	1/4	817.17	1/4	544.84	1/4	264.01	1/4	0.10
1/2	2,753.85	1/2	2,475.25	1/2	2,195.95	1/2	1,916.77	1/2	1,638.14	1/2	1,361.92	1/2	1,085.41	1/2	811.58	1/2	539.01	1/2	258.11	1/2	0.00
3/4	2,748.07	3/4	2,469.43	3/4	2,190.14	3/4	1,910.96	3/4	1,632.38	3/4	1,356.10	3/4	1,079.58	3/4	805.99	3/4	533.19	3/4	252.22	3/4	0.00
9	2,742.29	9	2,463.61	9	2,184.32	9	1,905.14	9	1,626.61	9	1,350.28	9	1,073.76	9	800.40	9	527.36	9	246.32	9	0.00
1/4	2,736.51	1/4	2,457.79	1/4	2,178.50	1/4	1,899.33	1/4	1,620.86	1/4	1,344.46	1/4	1,067.93	1/4	794.81	1/4	521.53	1/4	240.49	1/4	0.00
1/2	2,730.73	1/2	2,451.97	1/2	2,172.68	1/2	1,893.51	1/2	1,615.12	1/2	1,338.63	1/2	1,062.11	1/2	789.22	1/2	515.70	1/2	234.66	1/2	0.00
3/4	2,724.95	3/4	2,446.15	3/4	2,166.86	3/4	1,887.70	3/4	1,609.37	3/4	1,332.81	3/4	1,056.28	3/4	783.63	3/4	509.87	3/4	228.83	3/4	0.00
10	2,719.18	10	2,440.33	10	2,161.04	10	1,881.89	10	1,603.63	10	1,326.99	10	1,050.46	10	778.04	10	504.04	10	223.00	10	0.00
1/4	2,713.40	1/4	2,434.51	1/4	2,155.22	1/4	1,876.07	1/4	1,597.88	1/4	1,321.17	1/4	1,044.63	1/4	772.45	1/4	498.21	1/4	217.18	1/4	0.00
1/2	2,707.62	1/2	2,428.69	1/2	2,149.40	1/2	1,870.24	1/2	1,592.14	1/2	1,315.35	1/2	1,038.81	1/2	766.87	1/2	492.39	1/2	211.36	1/2	0.00
3/4	2,701.84	3/4	2,422.87	3/4	2,143.58	3/4	1,864.42	3/4	1,586.39	3/4	1,309.52	3/4	1,032.98	3/4	761.28	3/4	486.56	3/4	205.54	3/4	0.00
11	2,696.06	11	2,417.05	11	2,137.76	11	1,858.60	11	1,580.65	11	1,303.70	11	1,027.16	11	755.69	11	480.73	11	199.72	11	0.00
1/4	2,690.28	1/4	2,411.23	1/4	2,131.94	1/4	1,852.78	1/4	1,574.90	1/4	1,297.88	1/4	1,021.33	1/4	750.10	1/4	474.90	1/4	193.91	1/4	0.00
1/2	2,684.50	1/2	2,405.41	1/2	2,126.12	1/2	1,846.96	1/2	1,569.16	1/2	1,292.06	1/2	1,015.51	1/2	744.52	1/2	469.07	1/2	188.09	1/2	0.00
3/4	2,678.72	3/4	2,399.59	3/4	2,120.30	3/4	1,841.14	3/4	1,563.41	3/4	1,286.24	3/4	1,009.68	3/4	738.93	3/4	463.24	3/4	182.27	3/4	0.00

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: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 48'-09" FORWARD OF AFT BULKHEAD.  
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 50'-09" FORWARD OF AFT BULKHEAD

STRAPPED: 05/09/2013 CL - SW  
CALCULATED: 05/10/2013 CL  
PRINTED: 05/15/2013 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2013

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





# BARGE "MM 93" MAGNOLIA BARGE

# 4 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-07 1/2"

1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
0			2,675.51		2,399.01		2,122.30		1,845.73		1,570.41		1,295.70		1,021.54		745.19		468.49		187.85
1/4	2,935.35	1/4	2,669.78	1/4	2,393.25	1/4	2,116.54	1/4	1,839.96	1/4	1,564.71	1/4	1,289.93	1/4	1,015.76	1/4	739.45	1/4	462.67	1/4	182.04
1/2	2,931.95	1/2	2,664.06	1/2	2,387.48	1/2	2,110.77	1/2	1,834.19	1/2	1,559.02	1/2	1,284.16	1/2	1,009.99	1/2	733.71	1/2	456.85	1/2	176.23
3/4	2,927.58	3/4	2,658.33	3/4	2,381.71	3/4	2,105.00	3/4	1,828.42	3/4	1,553.32	3/4	1,278.38	3/4	1,004.21	3/4	727.96	3/4	451.03	3/4	170.42
1	2,923.21	1	2,652.61	1	2,375.95	1	2,099.24	1	1,822.65	1	1,547.62	1	1,272.61	1	998.44	1	722.22	1	445.21	1	164.61
1/4	2,918.83	1/4	2,646.88	1/4	2,370.18	1/4	2,093.47	1/4	1,816.89	1/4	1,541.93	1/4	1,266.84	1/4	992.66	1/4	716.48	1/4	439.38	1/4	158.79
1/2	2,914.46	1/2	2,641.16	1/2	2,364.42	1/2	2,087.71	1/2	1,811.12	1/2	1,536.23	1/2	1,261.07	1/2	986.89	1/2	710.74	1/2	433.56	1/2	152.98
3/4	2,909.11	3/4	2,635.39	3/4	2,358.65	3/4	2,081.94	3/4	1,805.35	3/4	1,530.54	3/4	1,255.41	3/4	981.11	3/4	705.00	3/4	427.74	3/4	147.13
2	2,903.77	2	2,629.63	2	2,352.89	2	2,076.17	2	1,799.58	2	1,524.84	2	1,249.76	2	975.34	2	699.26	2	421.92	2	141.28
1/4	2,898.42	1/4	2,623.86	1/4	2,347.12	1/4	2,070.41	1/4	1,793.81	1/4	1,519.15	1/4	1,244.11	1/4	969.56	1/4	693.51	1/4	416.10	1/4	135.43
1/2	2,893.08	1/2	2,618.10	1/2	2,341.36	1/2	2,064.64	1/2	1,788.05	1/2	1,513.45	1/2	1,238.46	1/2	963.79	1/2	687.77	1/2	410.28	1/2	129.58
3/4	2,887.35	3/4	2,612.33	3/4	2,335.59	3/4	2,058.88	3/4	1,782.28	3/4	1,507.76	3/4	1,232.80	3/4	958.01	3/4	682.03	3/4	404.46	3/4	123.70
3	2,881.62	3	2,606.57	3	2,329.83	3	2,053.12	3	1,776.51	3	1,502.06	3	1,227.15	3	952.24	3	676.29	3	398.64	3	117.82
1/4	2,875.90	1/4	2,600.80	1/4	2,324.06	1/4	2,047.36	1/4	1,770.74	1/4	1,496.36	1/4	1,221.50	1/4	946.46	1/4	670.55	1/4	392.82	1/4	111.95
1/2	2,870.17	1/2	2,595.03	1/2	2,318.30	1/2	2,041.60	1/2	1,764.97	1/2	1,490.67	1/2	1,215.84	1/2	940.69	1/2	664.80	1/2	387.00	1/2	106.07
3/4	2,864.45	3/4	2,589.27	3/4	2,312.53	3/4	2,035.84	3/4	1,759.21	3/4	1,484.98	3/4	1,210.20	3/4	934.91	3/4	659.06	3/4	381.18	3/4	100.21
4	2,858.72	4	2,583.50	4	2,306.76	4	2,030.08	4	1,753.44	4	1,479.30	4	1,204.56	4	929.14	4	653.32	4	375.36	4	94.34
1/4	2,853.00	1/4	2,577.74	1/4	2,301.00	1/4	2,024.32	1/4	1,747.67	1/4	1,473.61	1/4	1,198.92	1/4	923.36	1/4	647.57	1/4	369.54	1/4	88.48
1/2	2,847.27	1/2	2,571.97	1/2	2,295.23	1/2	2,018.56	1/2	1,741.90	1/2	1,467.92	1/2	1,193.28	1/2	917.59	1/2	641.83	1/2	363.72	1/2	82.61
3/4	2,841.55	3/4	2,566.21	3/4	2,289.47	3/4	2,012.80	3/4	1,736.14	3/4	1,462.25	3/4	1,187.64	3/4	911.83	3/4	636.05	3/4	357.84	3/4	76.76
5	2,835.82	5	2,560.44	5	2,283.70	5	2,007.04	5	1,730.37	5	1,456.57	5	1,182.00	5	906.08	5	630.28	5	351.95	5	70.90
1/4	2,830.10	1/4	2,554.68	1/4	2,277.94	1/4	2,001.28	1/4	1,724.60	1/4	1,450.89	1/4	1,176.36	1/4	900.33	1/4	624.50	1/4	346.06	1/4	65.05
1/2	2,824.37	1/2	2,548.91	1/2	2,272.17	1/2	1,995.52	1/2	1,718.83	1/2	1,445.22	1/2	1,170.72	1/2	894.57	1/2	618.73	1/2	340.18	1/2	59.19
3/4	2,818.65	3/4	2,543.15	3/4	2,266.41	3/4	1,989.77	3/4	1,713.11	3/4	1,439.52	3/4	1,165.06	3/4	888.82	3/4	612.95	3/4	334.29	3/4	53.36
6	2,812.92	6	2,537.38	6	2,260.64	6	1,984.01	6	1,707.40	6	1,433.82	6	1,159.41	6	883.07	6	607.18	6	328.40	6	47.54
1/4	2,807.19	1/4	2,531.62	1/4	2,254.88	1/4	1,978.25	1/4	1,701.68	1/4	1,428.13	1/4	1,153.76	1/4	877.31	1/4	601.41	1/4	322.52	1/4	41.72
1/2	2,801.47	1/2	2,525.85	1/2	2,249.11	1/2	1,972.49	1/2	1,695.96	1/2	1,422.43	1/2	1,148.10	1/2	871.56	1/2	595.63	1/2	316.63	1/2	35.89
3/4	2,795.74	3/4	2,520.08	3/4	2,243.35	3/4	1,966.73	3/4	1,690.25	3/4	1,416.72	3/4	1,142.45	3/4	865.82	3/4	589.86	3/4	310.74	3/4	31.00
7	2,790.02	7	2,514.32	7	2,237.58	7	1,960.97	7	1,684.53	7	1,411.01	7	1,136.80	7	860.07	7	584.08	7	304.86	7	26.11
1/4	2,784.29	1/4	2,508.55	1/4	2,231.81	1/4	1,955.21	1/4	1,678.81	1/4	1,405.31	1/4	1,131.14	1/4	854.32	1/4	578.31	1/4	298.97	1/4	21.22
1/2	2,778.57	1/2	2,502.79	1/2	2,226.05	1/2	1,949.45	1/2	1,673.10	1/2	1,399.60	1/2	1,125.49	1/2	848.58	1/2	572.53	1/2	293.08	1/2	16.33
3/4	2,772.84	3/4	2,497.02	3/4	2,220.29	3/4	1,943.69	3/4	1,667.38	3/4	1,393.83	3/4	1,119.72	3/4	842.83	3/4	566.76	3/4	287.20	3/4	
8	2,767.12	8	2,491.26	8	2,214.53	8	1,937.93	8	1,661.66	8	1,388.05	8	1,113.94	8	837.09	8	560.98	8	281.33	8	
1/4	2,761.39	1/4	2,485.49	1/4	2,208.77	1/4	1,932.17	1/4	1,655.95	1/4	1,382.28	1/4	1,108.17	1/4	831.34	1/4	555.21	1/4	275.45	1/4	
1/2	2,755.67	1/2	2,479.73	1/2	2,203.01	1/2	1,926.41	1/2	1,650.23	1/2	1,376.51	1/2	1,102.39	1/2	825.60	1/2	549.43	1/2	269.57	1/2	
3/4	2,749.94	3/4	2,473.96	3/4	2,197.25	3/4	1,920.65	3/4	1,644.51	3/4	1,370.74	3/4	1,096.61	3/4	819.85	3/4	543.66	3/4	263.68	3/4	
9	2,744.21	9	2,468.20	9	2,191.49	9	1,914.89	9	1,638.80	9	1,364.97	9	1,090.84	9	814.10	9	537.88	9	257.80	9	
1/4	2,738.49	1/4	2,462.43	1/4	2,185.73	1/4	1,909.13	1/4	1,633.08	1/4	1,359.19	1/4	1,085.06	1/4	808.36	1/4	532.11	1/4	251.91	1/4	
1/2	2,732.76	1/2	2,456.66	1/2	2,179.97	1/2	1,903.37	1/2	1,627.36	1/2	1,353.42	1/2	1,079.29	1/2	802.61	1/2	526.33	1/2	246.02	1/2	
3/4	2,727.04	3/4	2,450.90	3/4	2,174.20	3/4	1,897.61	3/4	1,621.67	3/4	1,347.65	3/4	1,073.51	3/4	796.87	3/4	520.56	3/4	240.20	3/4	
10	2,721.31	10	2,445.13	10	2,168.44	10	1,891.85	10	1,615.97	10	1,341.88	10	1,067.74	10	791.13	10	514.78	10	234.37	10	
1/4	2,715.59	1/4	2,439.37	1/4	2,162.67	1/4	1,886.09	1/4	1,610.27	1/4	1,336.10	1/4	1,061.96	1/4	785.38	1/4	509.01	1/4	228.55	1/4	
1/2	2,709.86	1/2	2,433.60	1/2	2,156.90	1/2	1,880.33	1/2	1,604.58	1/2	1,330.33	1/2	1,056.19	1/2	779.64	1/2	503.23	1/2	222.73	1/2	
3/4	2,704.14	3/4	2,427.84	3/4	2,151.14	3/4	1,874.56	3/4	1,598.88	3/4	1,324.56	3/4	1,050.41	3/4	773.90	3/4	497.46	3/4	216.92	3/4	
11	2,698.41	11	2,422.07	11	2,145.37	11	1,868.80	11	1,593.19	11	1,318.79	11	1,044.64	11	768.16	11	491.68	11	211.10	11	
1/4	2,692.69	1/4	2,416.31	1/4	2,139.60	1/4	1,863.03	1/4	1,587.49	1/4	1,313.02	1/4	1,038.86	1/4	762.41	1/4	485.91	1/4	205.29	1/4	
1/2	2,686.96	1/2	2,410.54	1/2	2,133.84	1/2	1,857.26	1/2	1,581.80	1/2	1,307.24	1/2	1,033.09	1/2	756.67	1/2	480.13	1/2	199.48	1/2	
3/4	2,681.24	3/4	2,404.78	3/4	2,128.07	3/4	1,851.49	3/4	1,576.10	3/4	1,301.47	3/4	1,027.31	3/4	750.93	3/4	474.31	3/4	193.67	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: (MMC) LOCATED 12'-09" OFF CENTERLINE AND 48'-09" FORWARD OF AFT BULKHEAD.  
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 50'-09" FORWARD OF AFT BULKHEAD

STRAPPED: 05/09/2013 CL - SW  
CALCULATED: 05/10/2013 CL  
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CANCELS AND SUPERCEDES  
ALL PRIOR TO 05/2013

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