



BARGE "MM 16"

ULLAGE (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	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-4/8	- 00-4/8
1 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-4/8	- 00-4/8
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	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-3/4	- 00-3/4	00-7/8	- 00-7/8
3 STBD	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-3/8	- 00-3/8	00-1/2	- 00-1/2	00-3/4	- 00-3/4	00-7/8	- 00-7/8
4 PORT	00-7/8	- 00-7/8	01-3/4	- 01-3/4	02-5/8	- 02-5/8	03-1/2	- 03-1/2	04-1/4	- 04-1/4	05-1/8	- 05-1/8
4 STBD	00-7/8	- 00-7/8	01-3/4	- 01-3/4	02-5/8	- 02-5/8	03-4/8	- 03-4/8	04-1/4	- 04-1/4	05-1/8	- 05-1/8

(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 - 00-1/4"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 1/4"

LENGTH BETWEEN DRAFT MARKS: 237'-00"

April 24, 2014

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MM 16"

ULLAGE (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	- 00-1/8	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	- 00-0/8	00-0/8	- 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	00-2/8
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	03-0/8	- 03-0/8	03-3/4	- 03-3/4	04-1/2	- 04-1/2
4 STBD	00-3/4	- 00-3/4	01-1/2	- 01-1/2	02-1/4	- 02-1/4	03-0/8	- 03-0/8	03-3/4	- 03-3/4	04-1/2	- 04-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 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"

April 24, 2014

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

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BARGE "MM 16" MAGNOLIA BARGE

1 PORT 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	2,378.79	0	2,125.35	0	1,871.63	0	1,617.82	0	1,364.02	0	1,110.28	0	857.28	0	605.42	0	353.06	0	131.02	
1/4	1/4	2,373.55	1/4	2,120.07	1/4	1,866.34	1/4	1,612.53	1/4	1,358.73	1/4	1,104.99	1/4	851.99	1/4	600.20	1/4	347.90	1/4	126.86	
1/2	1/2	2,368.30	1/2	2,114.78	1/2	1,861.05	1/2	1,607.25	1/2	1,353.44	1/2	1,099.70	1/2	846.70	1/2	594.98	1/2	342.73	1/2	122.70	
3/4	3/4	2,606.01	3/4	2,363.05	3/4	2,109.49	3/4	1,855.76	3/4	1,601.96	3/4	1,348.15	3/4	1,094.41	3/4	841.41	3/4	589.76	3/4	337.57	118.54
1	1	2,602.93	1	2,357.81	1	2,104.21	1	1,850.48	1	1,596.67	1	1,342.87	1	1,089.13	1	836.12	1	584.53	1	332.40	114.38
1/4	1/4	2,598.96	1/4	2,352.56	1/4	2,098.92	1/4	1,845.19	1/4	1,591.38	1/4	1,337.58	1/4	1,083.84	1/4	830.83	1/4	579.31	1/4	327.32	110.31
1/2	1/2	2,595.00	1/2	2,347.31	1/2	2,093.63	1/2	1,839.90	1/2	1,586.10	1/2	1,332.29	1/2	1,078.55	1/2	825.55	1/2	574.09	1/2	322.23	106.23
3/4	3/4	2,591.03	3/4	2,342.06	3/4	2,088.35	3/4	1,834.61	3/4	1,580.81	3/4	1,327.00	3/4	1,073.26	3/4	820.26	3/4	568.87	3/4	317.15	102.15
2	2	2,587.06	2	2,336.82	2	2,083.06	2	1,829.33	2	1,575.52	2	1,321.72	2	1,067.97	2	814.97	2	563.65	2	312.07	98.08
1/4	1/4	2,582.22	1/4	2,331.53	1/4	2,077.77	1/4	1,824.04	1/4	1,570.23	1/4	1,316.43	1/4	1,062.72	1/4	809.68	1/4	558.43	1/4	307.07	94.18
1/2	1/2	2,577.37	1/2	2,326.24	1/2	2,072.49	1/2	1,818.75	1/2	1,564.95	1/2	1,311.14	1/2	1,057.47	1/2	804.39	1/2	553.21	1/2	302.07	90.27
3/4	3/4	2,572.52	3/4	2,320.96	3/4	2,067.20	3/4	1,813.46	3/4	1,559.66	3/4	1,305.85	3/4	1,052.21	3/4	799.10	3/4	547.98	3/4	297.06	86.37
3	3	2,567.68	3	2,315.67	3	2,061.91	3	1,808.17	3	1,554.37	3	1,300.57	3	1,046.96	3	793.81	3	542.76	3	292.06	82.47
1/4	1/4	2,562.43	1/4	2,310.38	1/4	2,056.63	1/4	1,802.89	1/4	1,549.08	1/4	1,295.28	1/4	1,041.70	1/4	788.56	1/4	537.54	1/4	287.14	78.76
1/2	1/2	2,557.18	1/2	2,305.10	1/2	2,051.34	1/2	1,797.60	1/2	1,543.79	1/2	1,289.99	1/2	1,036.45	1/2	783.30	1/2	532.32	1/2	282.23	75.05
3/4	3/4	2,551.94	3/4	2,299.81	3/4	2,046.05	3/4	1,792.31	3/4	1,538.51	3/4	1,284.70	3/4	1,031.20	3/4	778.05	3/4	527.10	3/4	277.31	71.34
4	4	2,546.69	4	2,294.53	4	2,040.77	4	1,787.02	4	1,533.22	4	1,279.41	4	1,025.94	4	772.59	4	521.88	4	272.39	67.63
1/4	1/4	2,541.44	1/4	2,289.24	1/4	2,035.48	1/4	1,781.74	1/4	1,527.93	1/4	1,274.14	1/4	1,020.69	1/4	767.54	1/4	516.65	1/4	267.65	64.01
1/2	1/2	2,536.20	1/2	2,283.95	1/2	2,030.20	1/2	1,776.45	1/2	1,522.64	1/2	1,268.86	1/2	1,015.44	1/2	762.28	1/2	511.43	1/2	262.71	60.39
3/4	3/4	2,530.95	3/4	2,278.67	3/4	2,024.91	3/4	1,771.16	3/4	1,517.36	3/4	1,263.58	3/4	1,010.19	3/4	757.03	3/4	506.21	3/4	257.88	56.77
5	5	2,525.70	5	2,273.38	5	2,019.62	5	1,765.87	5	1,512.07	5	1,258.30	5	1,004.94	5	751.77	5	500.98	5	253.04	53.16
1/4	1/4	2,520.46	1/4	2,268.09	1/4	2,014.34	1/4	1,760.59	1/4	1,506.78	1/4	1,253.02	1/4	999.69	1/4	746.54	1/4	495.69	1/4	248.49	49.63
1/2	1/2	2,515.21	1/2	2,262.81	1/2	2,009.05	1/2	1,755.30	1/2	1,501.49	1/2	1,247.74	1/2	994.44	1/2	741.31	1/2	490.41	1/2	243.93	46.10
3/4	3/4	2,509.96	3/4	2,257.52	3/4	2,003.76	3/4	1,750.01	3/4	1,496.21	3/4	1,242.47	3/4	989.19	3/4	736.07	3/4	485.12	3/4	239.38	42.57
6	6	2,504.72	6	2,252.23	6	1,998.46	6	1,744.72	6	1,490.92	6	1,237.19	6	983.94	6	730.84	6	479.83	6	234.82	39.04
1/4	1/4	2,499.47	1/4	2,246.95	1/4	1,993.19	1/4	1,739.44	1/4	1,485.63	1/4	1,231.90	1/4	978.68	1/4	725.61	1/4	474.54	1/4	230.35	35.62
1/2	1/2	2,494.22	1/2	2,241.66	1/2	1,987.90	1/2	1,734.15	1/2	1,480.34	1/2	1,226.61	1/2	973.43	1/2	720.37	1/2	469.25	1/2	225.88	32.20
3/4	3/4	2,488.98	3/4	2,236.37	3/4	1,982.62	3/4	1,728.86	3/4	1,475.06	3/4	1,221.32	3/4	968.18	3/4	715.14	3/4	463.96	3/4	221.40	28.78
7	7	2,483.73	7	2,231.09	7	1,977.33	7	1,723.67	7	1,469.77	7	1,216.04	7	962.92	7	709.91	7	458.67	7	216.93	25.36
1/4	1/4	2,478.48	1/4	2,225.80	1/4	1,972.04	1/4	1,718.29	1/4	1,464.48	1/4	1,210.75	1/4	957.67	1/4	704.68	1/4	453.38	1/4	212.54	22.74
1/2	1/2	2,473.23	1/2	2,220.51	1/2	1,966.76	1/2	1,713.00	1/2	1,459.19	1/2	1,205.46	1/2	952.41	1/2	699.46	1/2	448.10	1/2	208.15	20.12
3/4	3/4	2,467.99	3/4	2,215.23	3/4	1,961.47	3/4	1,707.71	3/4	1,453.91	3/4	1,200.17	3/4	947.16	3/4	694.23	3/4	442.81	3/4	203.76	17.50
8	8	2,462.74	8	2,209.94	8	1,956.18	8	1,702.42	8	1,448.62	8	1,194.88	8	941.90	8	689.00	8	437.52	8	199.37	14.88
1/4	1/4	2,457.49	1/4	2,204.65	1/4	1,950.90	1/4	1,697.14	1/4	1,443.33	1/4	1,189.60	1/4	936.61	1/4	683.78	1/4	432.23	1/4	195.07	11.94
1/2	1/2	2,452.25	1/2	2,199.37	1/2	1,945.62	1/2	1,691.85	1/2	1,438.04	1/2	1,184.31	1/2	931.33	1/2	678.55	1/2	426.94	1/2	190.77	9.12
3/4	3/4	2,447.00	3/4	2,194.08	3/4	1,940.34	3/4	1,686.56	3/4	1,432.76	3/4	1,179.02	3/4	926.04	3/4	673.33	3/4	421.65	3/4	186.48	6.44
9	9	2,441.75	9	2,188.79	9	1,935.06	9	1,681.27	9	1,427.47	9	1,173.73	9	920.75	9	668.10	9	416.36	9	182.18	3.82
1/4	1/4	2,436.51	1/4	2,183.51	1/4	1,929.78	1/4	1,675.98	1/4	1,422.18	1/4	1,168.44	1/4	915.46	1/4	662.88	1/4	411.07	1/4	177.96	1.14
1/2	1/2	2,431.26	1/2	2,178.22	1/2	1,924.49	1/2	1,670.70	1/2	1,416.89	1/2	1,163.16	1/2	910.17	1/2	657.65	1/2	405.79	1/2	173.75	0.22
3/4	3/4	2,426.01	3/4	2,172.93	3/4	1,919.21	3/4	1,665.41	3/4	1,411.60	3/4	1,157.87	3/4	904.88	3/4	652.43	3/4	400.50	3/4	169.53	0.24
10	10	2,420.77	10	2,167.65	10	1,913.93	10	1,660.12	10	1,406.32	10	1,152.58	10	899.59	10	647.20	10	395.21	10	165.32	0.10
1/4	1/4	2,415.52	1/4	2,162.36	1/4	1,908.64	1/4	1,654.83	1/4	1,401.03	1/4	1,147.29	1/4	894.30	1/4	641.98	1/4	389.92	1/4	160.98	0.04
1/2	1/2	2,410.27	1/2	2,157.07	1/2	1,903.35	1/2	1,649.55	1/2	1,395.74	1/2	1,142.01	1/2	889.01	1/2	636.75	1/2	384.63	1/2	156.65	0.02
3/4	3/4	2,405.03	3/4	2,151.79	3/4	1,898.06	3/4	1,644.26	3/4	1,390.45	3/4	1,136.72	3/4	883.72	3/4	631.53	3/4	379.34	3/4	152.32	0.01
11	11	2,399.78	11	2,146.50	11	1,892.78	11	1,638.97	11	1,385.17	11	1,131.43	11	878.44	11	626.31	11	374.05	11	147.98	0.01
1/4	1/4	2,394.53	1/4	2,141.21	1/4	1,887.49	1/4	1,633.68	1/4	1,379.88	1/4	1,126.14	1/4	873.15	1/4	621.08	1/4	368.81	1/4	143.74	0.01
1/2	1/2	2,389.29	1/2	2,135.93	1/2	1,882.20	1/2	1,628.40	1/2	1,374.59	1/2	1,120.85	1/2	867.86	1/2	615.86	1/2	363.56	1/2	139.50	0.01
3/4	3/4	2,384.04	3/4	2,130.64	3/4	1,876.91	3/4	1,623.11	3/4	1,369.30	3/4	1,115.57	3/4	862.57	3/4	610.64	3/4	358.31	3/4	135.26	0.01

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



BARGE "MM 16" MAGNOLIA BARGE

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-08"

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.	
0	0	2,378.73	0	2,125.51	0	1,872.01	0	1,618.42	0	1,364.83	0	1,111.31	0	858.53	0	605.66	0	352.84	0	130.95		
1/4	1/4	2,373.49	1/4	2,120.23	1/4	1,866.72	1/4	1,613.14	1/4	1,359.55	1/4	1,106.02	1/4	853.24	1/4	600.41	1/4	347.68	1/4	126.80		
1/2	1/2	2,368.25	1/2	2,114.95	1/2	1,861.44	1/2	1,607.85	1/2	1,354.26	1/2	1,100.74	1/2	847.96	1/2	595.16	1/2	342.52	1/2	122.64		
3/4	3/4	2,605.75	3/4	2,363.01	3/4	2,109.67	3/4	1,856.16	3/4	1,602.57	3/4	1,348.98	3/4	1,095.46	3/4	842.67	3/4	589.91	3/4	337.36	3/4	118.48
1	1	2,602.67	1	2,357.77	1	2,104.39	1	1,850.88	1	1,597.29	1	1,343.70	1	1,090.17	1	837.39	1	584.66	1	332.19	1	114.33
1/4	1/4	2,598.71	1/4	2,352.52	1/4	2,099.10	1/4	1,845.59	1/4	1,592.00	1/4	1,338.41	1/4	1,084.89	1/4	832.10	1/4	579.40	1/4	327.12	1/4	110.25
1/2	1/2	2,594.74	1/2	2,347.28	1/2	2,093.82	1/2	1,840.31	1/2	1,586.72	1/2	1,333.13	1/2	1,079.61	1/2	826.82	1/2	574.15	1/2	322.04	1/2	106.18
3/4	3/4	2,590.78	3/4	2,342.04	3/4	2,088.54	3/4	1,835.03	3/4	1,581.44	3/4	1,327.85	3/4	1,074.32	3/4	821.53	3/4	568.90	3/4	316.96	3/4	102.10
2	2	2,586.82	2	2,336.80	2	2,083.26	2	1,829.74	2	1,576.15	2	1,322.57	2	1,069.04	2	816.25	2	563.65	2	311.88	2	98.03
1/4	1/4	2,581.98	1/4	2,331.52	1/4	2,077.97	1/4	1,824.46	1/4	1,570.87	1/4	1,317.28	1/4	1,063.79	1/4	810.97	1/4	558.40	1/4	306.88	1/4	94.13
1/2	1/2	2,577.14	1/2	2,326.23	1/2	2,072.69	1/2	1,819.18	1/2	1,565.59	1/2	1,312.00	1/2	1,058.54	1/2	805.68	1/2	553.15	1/2	301.88	1/2	90.23
3/4	3/4	2,572.29	3/4	2,320.95	3/4	2,067.41	3/4	1,813.89	3/4	1,560.31	3/4	1,306.72	3/4	1,053.29	3/4	800.40	3/4	547.90	3/4	296.89	3/4	86.33
3	3	2,567.45	3	2,315.67	3	2,062.13	3	1,808.61	3	1,555.02	3	1,301.43	3	1,048.04	3	795.11	3	542.65	3	291.89	3	82.43
1/4	1/4	2,562.21	1/4	2,310.39	1/4	2,056.85	1/4	1,803.33	1/4	1,549.74	1/4	1,296.15	1/4	1,042.79	1/4	789.83	1/4	537.40	1/4	286.97	1/4	78.72
1/2	1/2	2,556.97	1/2	2,305.11	1/2	2,051.56	1/2	1,798.04	1/2	1,544.46	1/2	1,290.87	1/2	1,037.54	1/2	784.54	1/2	532.15	1/2	282.06	1/2	75.01
3/4	3/4	2,551.72	3/4	2,299.82	3/4	2,046.28	3/4	1,792.76	3/4	1,539.17	3/4	1,285.58	3/4	1,032.29	3/4	779.26	3/4	526.89	3/4	277.14	3/4	71.31
4	4	2,546.48	4	2,294.54	4	2,041.00	4	1,787.48	4	1,533.89	4	1,280.30	4	1,027.04	4	773.98	4	521.64	4	272.23	4	67.60
1/4	1/4	2,541.24	1/4	2,289.26	1/4	2,035.72	1/4	1,782.20	1/4	1,528.61	1/4	1,275.03	1/4	1,021.80	1/4	768.69	1/4	516.39	1/4	267.40	1/4	63.98
1/2	1/2	2,536.00	1/2	2,283.98	1/2	2,030.44	1/2	1,776.91	1/2	1,523.32	1/2	1,269.75	1/2	1,016.55	1/2	763.41	1/2	511.14	1/2	262.56	1/2	60.36
3/4	3/4	2,530.76	3/4	2,278.69	3/4	2,025.15	3/4	1,771.63	3/4	1,518.04	3/4	1,264.48	3/4	1,011.31	3/4	758.12	3/4	505.88	3/4	257.73	3/4	56.74
5	5	2,525.51	5	2,273.41	5	2,019.87	5	1,766.35	5	1,512.76	5	1,259.20	5	1,006.06	5	752.84	5	500.63	5	252.90	5	53.13
1/4	1/4	2,520.27	1/4	2,268.13	1/4	2,014.59	1/4	1,761.06	1/4	1,507.47	1/4	1,253.93	1/4	1,000.81	1/4	747.57	1/4	495.35	1/4	248.34	1/4	49.60
1/2	1/2	2,515.03	1/2	2,262.85	1/2	2,009.31	1/2	1,755.78	1/2	1,502.19	1/2	1,248.66	1/2	995.57	1/2	742.31	1/2	490.06	1/2	243.79	1/2	46.07
3/4	3/4	2,509.79	3/4	2,257.57	3/4	2,004.03	3/4	1,750.50	3/4	1,496.91	3/4	1,243.38	3/4	990.32	3/4	737.05	3/4	484.78	3/4	239.24	3/4	42.54
6	6	2,504.54	6	2,252.28	6	1,998.74	6	1,745.21	6	1,491.62	6	1,238.11	6	985.08	6	731.79	6	479.49	6	234.69	6	39.01
1/4	1/4	2,499.30	1/4	2,247.00	1/4	1,993.46	1/4	1,739.93	1/4	1,486.34	1/4	1,232.82	1/4	979.83	1/4	726.52	1/4	474.21	1/4	230.22	1/4	35.60
1/2	1/2	2,494.06	1/2	2,241.72	1/2	1,988.18	1/2	1,734.65	1/2	1,481.06	1/2	1,227.54	1/2	974.58	1/2	721.26	1/2	468.93	1/2	225.75	1/2	32.18
3/4	3/4	2,488.82	3/4	2,236.44	3/4	1,982.90	3/4	1,729.36	3/4	1,475.78	3/4	1,222.26	3/4	969.33	3/4	716.00	3/4	463.64	3/4	221.28	3/4	28.76
7	7	2,483.58	7	2,231.16	7	1,977.61	7	1,724.08	7	1,470.49	7	1,216.97	7	964.08	7	710.74	7	458.36	7	216.81	7	25.34
1/4	1/4	2,478.33	1/4	2,225.87	1/4	1,972.33	1/4	1,718.80	1/4	1,465.21	1/4	1,211.69	1/4	958.83	1/4	705.48	1/4	453.07	1/4	212.42	1/4	22.72
1/2	1/2	2,473.09	1/2	2,220.59	1/2	1,967.05	1/2	1,713.52	1/2	1,459.93	1/2	1,206.41	1/2	953.58	1/2	700.23	1/2	447.79	1/2	208.04	1/2	20.10
3/4	3/4	2,467.85	3/4	2,215.31	3/4	1,961.77	3/4	1,708.23	3/4	1,454.64	3/4	1,201.12	3/4	948.33	3/4	694.97	3/4	442.51	3/4	203.65	3/4	17.48
8	8	2,462.61	8	2,210.03	8	1,956.49	8	1,702.95	8	1,449.36	8	1,195.84	8	943.08	8	689.72	8	437.22	8	199.26	8	14.86
1/4	1/4	2,457.37	1/4	2,204.75	1/4	1,951.21	1/4	1,697.67	1/4	1,444.08	1/4	1,190.56	1/4	937.79	1/4	684.46	1/4	431.94	1/4	194.97	1/4	11.88
1/2	1/2	2,452.12	1/2	2,199.46	1/2	1,945.93	1/2	1,692.38	1/2	1,438.79	1/2	1,185.27	1/2	932.51	1/2	679.21	1/2	426.65	1/2	190.67	1/2	9.12
3/4	3/4	2,446.88	3/4	2,194.18	3/4	1,940.66	3/4	1,687.10	3/4	1,433.51	3/4	1,179.99	3/4	927.22	3/4	673.95	3/4	421.37	3/4	186.38	3/4	6.44
9	9	2,441.64	9	2,188.90	9	1,935.38	9	1,681.82	9	1,428.23	9	1,174.71	9	921.94	9	668.70	9	416.08	9	182.08	9	3.76
1/4	1/4	2,436.40	1/4	2,183.62	1/4	1,930.10	1/4	1,676.53	1/4	1,422.94	1/4	1,169.42	1/4	916.65	1/4	663.44	1/4	410.80	1/4	177.87	1/4	1.00
1/2	1/2	2,431.16	1/2	2,178.33	1/2	1,924.83	1/2	1,671.25	1/2	1,417.66	1/2	1,164.14	1/2	911.37	1/2	658.19	1/2	405.52	1/2	173.66	1/2	0.24
3/4	3/4	2,425.91	3/4	2,173.05	3/4	1,919.55	3/4	1,665.97	3/4	1,412.38	3/4	1,158.86	3/4	906.09	3/4	652.93	3/4	400.23	3/4	169.44	3/4	0.48
10	10	2,420.67	10	2,167.77	10	1,914.27	10	1,660.68	10	1,407.10	10	1,153.57	10	900.80	10	647.68	10	394.95	10	165.23	10	0.72
1/4	1/4	2,415.43	1/4	2,162.49	1/4	1,908.99	1/4	1,655.40	1/4	1,401.81	1/4	1,148.29	1/4	895.52	1/4	642.42	1/4	389.66	1/4	160.90	1/4	0.96
1/2	1/2	2,410.19	1/2	2,157.21	1/2	1,903.71	1/2	1,650.12	1/2	1,396.63	1/2	1,143.01	1/2	890.23	1/2	637.17	1/2	384.38	1/2	156.57	1/2	1.20
3/4	3/4	2,404.94	3/4	2,151.92	3/4	1,898.42	3/4	1,644.83	3/4	1,391.25	3/4	1,137.72	3/4	884.95	3/4	631.92	3/4	379.10	3/4	152.24	3/4	1.44
11	11	2,399.70	11	2,146.64	11	1,893.14	11	1,639.55	11	1,385.96	11	1,132.44	11	879.66	11	626.66	11	373.81	11	147.91	11	1.68
1/4	1/4	2,394.46	1/4	2,141.36	1/4	1,887.86	1/4	1,634.27	1/4	1,380.68	1/4	1,127.16	1/4	874.38	1/4	621.41	1/4	368.57	1/4	143.67	1/4	1.92
1/2	1/2	2,389.22	1/2	2,136.08	1/2	1,882.57	1/2	1,628.99	1/2	1,375.40	1/2	1,121.87	1/2	869.09	1/2	616.16	1/2	363.33	1/2	139.43	1/2	2.16
3/4	3/4	2,383.98	3/4	2,130.80	3/4	1,877.29	3/4	1,623.70	3/4	1,370.11	3/4	1,116.59	3/4	863.81	3/4	610.91	3/4	358.08	3/4	135.19	3/4	2.40

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 30'-00" FORWARD OF AFT BULKHEAD.
GAUGE POINT: (6" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 32'-00" FORWARD OF AFT BULKHEAD

STRAPPED: 05/06/2014 CL
CALCULATED: 05/06/2014 CL
PRINTED: 05/07/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2014

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



BARGE "MM 16" MAGNOLIA BARGE

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-08 1/4"

N	1 FT.	N	2 FT.	N	3 FT.	N	4 FT.	N	5 FT.	N	6 FT.	N	7 FT.	N	8 FT.	N	9 FT.	N	10 FT.	N	11 FT.		
0		0	2,677.06	0	2,399.30	0	2,121.23	0	1,843.07	0	1,564.91	0	1,286.82	0	1,011.83	0	743.81	0	471.96	0	198.31		
1/4		1/4	2,671.30	1/4	2,393.51	1/4	2,115.43	1/4	1,837.27	1/4	1,559.11	1/4	1,281.02	1/4	1,006.03	1/4	738.32	1/4	466.17	1/4	192.54		
1/2		1/2	2,665.55	1/2	2,387.72	1/2	2,109.64	1/2	1,831.48	1/2	1,553.32	1/2	1,275.22	1/2	1,000.23	1/2	732.83	1/2	460.37	1/2	186.76		
3/4		3/4	2,659.79	3/4	2,381.92	3/4	2,103.84	3/4	1,825.68	3/4	1,547.52	3/4	1,269.43	3/4	994.44	3/4	727.33	3/4	454.58	3/4	180.99		
1	2,920.45	1	2,654.04	1	2,376.13	1	2,098.05	1	1,819.89	1	1,541.73	1	1,263.63	1	988.64	1	721.84	1	448.78	1	175.21		
1/4		1/4	2,917.07	1/4	2,648.29	1/4	2,370.33	1/4	2,092.25	1/4	1,814.09	1/4	1,535.93	1/4	1,257.84	1/4	982.85	1/4	716.35	1/4	442.98	1/4	169.44
1/2		1/2	2,912.72	1/2	2,642.53	1/2	2,364.54	1/2	2,086.46	1/2	1,808.30	1/2	1,530.14	1/2	1,252.04	1/2	977.05	1/2	710.86	1/2	437.19	1/2	163.66
3/4		3/4	2,908.38	3/4	2,636.78	3/4	2,358.75	3/4	2,080.66	3/4	1,802.50	3/4	1,524.34	3/4	1,246.25	3/4	971.25	3/4	705.36	3/4	431.39	3/4	157.89
2	2,904.03	2	2,631.02	2	2,352.95	2	2,074.87	2	1,796.71	2	1,518.55	2	1,240.45	2	965.46	2	699.87	2	425.60	2	152.11		
1/4		1/4	2,899.69	1/4	2,625.27	1/4	2,347.16	1/4	2,069.07	1/4	1,790.91	1/4	1,512.75	1/4	1,234.66	1/4	959.66	1/4	694.38	1/4	419.80	1/4	146.34
1/2		1/2	2,894.38	1/2	2,619.48	1/2	2,341.36	1/2	2,063.28	1/2	1,785.12	1/2	1,506.96	1/2	1,229.00	1/2	953.86	1/2	688.88	1/2	414.00	1/2	140.66
3/4		3/4	2,889.06	3/4	2,613.68	3/4	2,335.57	3/4	2,057.48	3/4	1,779.32	3/4	1,501.16	3/4	1,223.33	3/4	948.07	3/4	683.39	3/4	408.21	3/4	134.99
3	2,883.75	3	2,607.89	3	2,329.78	3	2,051.69	3	1,773.53	3	1,495.37	3	1,217.67	3	942.27	3	677.80	3	402.41	3	129.32		
1/4		1/4	2,878.44	1/4	2,602.09	1/4	2,323.98	1/4	2,045.89	1/4	1,767.73	1/4	1,489.57	1/4	1,212.01	1/4	936.47	1/4	672.41	1/4	396.62	1/4	123.65
1/2		1/2	2,872.69	1/2	2,596.30	1/2	2,318.19	1/2	2,040.10	1/2	1,761.94	1/2	1,483.78	1/2	1,206.34	1/2	930.95	1/2	666.91	1/2	390.82	1/2	118.09
3/4		3/4	2,866.93	3/4	2,590.51	3/4	2,312.39	3/4	2,034.30	3/4	1,756.14	3/4	1,477.98	3/4	1,200.68	3/4	925.42	3/4	661.42	3/4	385.02	3/4	112.54
4	2,861.18	4	2,584.71	4	2,306.60	4	2,028.51	4	1,750.35	4	1,472.19	4	1,195.02	4	919.90	4	655.93	4	379.23	4	106.98		
1/4		1/4	2,855.43	1/4	2,578.92	1/4	2,300.81	1/4	2,022.71	1/4	1,744.55	1/4	1,466.39	1/4	1,189.35	1/4	914.37	1/4	650.44	1/4	373.43	1/4	101.43
1/2		1/2	2,849.67	1/2	2,573.12	1/2	2,295.01	1/2	2,016.92	1/2	1,738.76	1/2	1,460.61	1/2	1,183.70	1/2	908.84	1/2	644.94	1/2	367.63	1/2	95.89
3/4		3/4	2,843.92	3/4	2,567.33	3/4	2,289.22	3/4	2,011.12	3/4	1,732.98	3/4	1,454.82	3/4	1,178.04	3/4	903.32	3/4	639.45	3/4	361.84	3/4	90.35
5	2,838.16	5	2,561.54	5	2,283.42	5	2,005.33	5	1,727.17	5	1,449.03	5	1,172.38	5	897.79	5	633.95	5	356.04	5	84.80		
1/4		1/4	2,832.41	1/4	2,555.74	1/4	2,277.63	1/4	1,999.63	1/4	1,721.37	1/4	1,443.25	1/4	1,166.72	1/4	892.26	1/4	628.46	1/4	350.25	1/4	79.26
1/2		1/2	2,826.66	1/2	2,549.95	1/2	2,271.84	1/2	1,993.74	1/2	1,715.58	1/2	1,437.46	1/2	1,161.06	1/2	886.76	1/2	622.66	1/2	344.67	1/2	73.72
3/4		3/4	2,820.90	3/4	2,544.15	3/4	2,266.04	3/4	1,987.94	3/4	1,709.78	3/4	1,431.68	3/4	1,155.40	3/4	881.26	3/4	616.87	3/4	339.09	3/4	68.19
6	2,815.15	6	2,538.36	6	2,260.25	6	1,982.15	6	1,703.99	6	1,425.89	6	1,148.74	6	875.75	6	611.07	6	333.51	6	62.65		
1/4		1/4	2,809.40	1/4	2,532.57	1/4	2,254.45	1/4	1,976.35	1/4	1,698.19	1/4	1,420.10	1/4	1,144.08	1/4	870.25	1/4	605.27	1/4	327.94	1/4	57.12
1/2		1/2	2,803.64	1/2	2,526.77	1/2	2,248.66	1/2	1,970.56	1/2	1,692.40	1/2	1,414.31	1/2	1,138.42	1/2	864.74	1/2	599.48	1/2	322.36	1/2	51.62
3/4		3/4	2,797.89	3/4	2,520.98	3/4	2,242.87	3/4	1,964.76	3/4	1,686.60	3/4	1,408.51	3/4	1,132.75	3/4	859.24	3/4	593.68	3/4	316.78	3/4	46.11
7	2,792.13	7	2,515.18	7	2,237.07	7	1,958.97	7	1,680.81	7	1,402.72	7	1,127.09	7	853.73	7	587.89	7	311.20	7	40.61		
1/4		1/4	2,786.38	1/4	2,509.39	1/4	2,231.28	1/4	1,953.17	1/4	1,675.01	1/4	1,396.92	1/4	1,121.43	1/4	848.23	1/4	582.09	1/4	305.63	1/4	35.11
1/2		1/2	2,780.63	1/2	2,503.60	1/2	2,225.48	1/2	1,947.38	1/2	1,669.22	1/2	1,391.13	1/2	1,115.76	1/2	842.73	1/2	576.29	1/2	300.05	1/2	30.39
3/4		3/4	2,774.87	3/4	2,497.80	3/4	2,219.69	3/4	1,941.58	3/4	1,663.42	3/4	1,385.33	3/4	1,110.10	3/4	837.24	3/4	570.50	3/4	294.47	3/4	25.67
8	2,769.12	8	2,492.01	8	2,213.90	8	1,935.79	8	1,657.63	8	1,379.54	8	1,104.44	8	831.74	8	564.70	8	288.89	8	20.95		
1/4		1/4	2,763.36	1/4	2,486.21	1/4	2,208.10	1/4	1,929.99	1/4	1,651.83	1/4	1,373.74	1/4	1,098.77	1/4	826.24	1/4	558.91	1/4	283.32	1/4	16.23
1/2		1/2	2,757.61	1/2	2,480.42	1/2	2,202.31	1/2	1,924.20	1/2	1,646.04	1/2	1,367.95	1/2	1,092.98	1/2	820.75	1/2	553.11	1/2	277.75	1/2	
3/4		3/4	2,751.86	3/4	2,474.63	3/4	2,196.53	3/4	1,918.40	3/4	1,640.24	3/4	1,362.15	3/4	1,087.18	3/4	815.25	3/4	547.31	3/4	272.18	3/4	
9	2,746.10	9	2,468.83	9	2,190.74	9	1,912.61	9	1,634.45	9	1,356.36	9	1,081.38	9	809.75	9	541.52	9	266.61	9	11.99		
1/4		1/4	2,740.35	1/4	2,463.04	1/4	2,184.95	1/4	1,906.81	1/4	1,628.65	1/4	1,350.56	1/4	1,075.59	1/4	804.26	1/4	535.72	1/4	261.05	1/4	
1/2		1/2	2,734.59	1/2	2,457.24	1/2	2,179.16	1/2	1,901.02	1/2	1,622.86	1/2	1,344.77	1/2	1,069.79	1/2	798.76	1/2	529.93	1/2	255.48	1/2	
3/4		3/4	2,728.84	3/4	2,451.45	3/4	2,173.37	3/4	1,895.22	3/4	1,617.06	3/4	1,338.97	3/4	1,064.00	3/4	793.26	3/4	524.13	3/4	249.91	3/4	
10	2,723.09	10	2,445.66	10	2,167.58	10	1,889.43	10	1,611.27	10	1,333.18	10	1,058.20	10	787.77	10	518.33	10	244.35	10			
1/4		1/4	2,717.33	1/4	2,439.86	1/4	2,161.79	1/4	1,883.63	1/4	1,605.47	1/4	1,327.38	1/4	1,052.40	1/4	782.27	1/4	512.54	1/4	238.78	1/4	
1/2		1/2	2,711.58	1/2	2,434.07	1/2	2,156.00	1/2	1,877.84	1/2	1,599.68	1/2	1,321.59	1/2	1,046.61	1/2	776.77	1/2	506.74	1/2	232.99	1/2	
3/4		3/4	2,705.82	3/4	2,428.27	3/4	2,150.20	3/4	1,872.04	3/4	1,593.88	3/4	1,315.79	3/4	1,040.81	3/4	771.28	3/4	500.95	3/4	227.21	3/4	
11	2,700.07	11	2,422.48	11	2,144.41	11	1,866.25	11	1,588.09	11	1,310.00	11	1,035.01	11	765.78	11	495.15	11	221.42	11			
1/4		1/4	2,694.32	1/4	2,416.69	1/4	2,138.61	1/4	1,860.45	1/4	1,582.29	1/4	1,304.20	1/4	1,029.22	1/4	760.29	1/4	489.35	1/4	215.64	1/4	
1/2		1/2	2,688.56	1/2	2,410.89	1/2	2,132.82	1/2	1,854.66	1/2	1,576.50	1/2	1,298.41	1/2	1,023.42	1/2	754.80	1/2	483.56	1/2	209.86	1/2	



BARGE "MM 16" MAGNOLIA BARGE

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-07 1/2"

N	1 FT.	N	2 FT.	N	3 FT.	N	4 FT.	N	5 FT.	N	6 FT.	N	7 FT.	N	8 FT.	N	9 FT.	N	10 FT.	N	11 FT.
0	0	0	2,667.35	0	2,390.27	0	2,112.97	0	1,835.60	0	1,558.23	0	1,280.92	0	1,006.71	0	730.12	0	453.29	0	180.47
1/4	2,927.28	1/4	2,661.62	1/4	2,384.49	1/4	2,107.20	1/4	1,829.82	1/4	1,552.45	1/4	1,275.14	1/4	1,000.93	1/4	724.38	1/4	447.51	1/4	174.71
1/2	2,923.91	1/2	2,655.88	1/2	2,378.71	1/2	2,101.42	1/2	1,824.04	1/2	1,546.67	1/2	1,269.36	1/2	995.15	1/2	718.63	1/2	441.73	1/2	168.95
3/4	2,919.58	3/4	2,650.14	3/4	2,372.94	3/4	2,095.64	3/4	1,818.27	3/4	1,540.89	3/4	1,263.59	3/4	989.37	3/4	712.68	3/4	435.95	3/4	163.20
1	2,915.24	1	2,644.40	1	2,367.16	1	2,089.86	1	1,812.49	1	1,535.11	1	1,257.81	1	983.59	1	707.14	1	430.17	1	157.44
1/4	2,910.91	1/4	2,638.66	1/4	2,361.38	1/4	2,084.08	1/4	1,806.71	1/4	1,529.34	1/4	1,252.03	1/4	977.81	1/4	701.39	1/4	424.39	1/4	151.68
1/2	2,906.58	1/2	2,632.93	1/2	2,355.60	1/2	2,078.30	1/2	1,800.93	1/2	1,523.56	1/2	1,246.25	1/2	972.03	1/2	695.64	1/2	418.61	1/2	145.92
3/4	2,901.28	3/4	2,627.15	3/4	2,349.82	3/4	2,072.52	3/4	1,795.15	3/4	1,517.78	3/4	1,240.60	3/4	966.25	3/4	689.90	3/4	412.83	3/4	140.26
2	2,895.98	2	2,621.37	2	2,344.05	2	2,066.75	2	1,789.37	2	1,512.00	2	1,234.95	2	960.47	2	684.15	2	407.05	2	134.61
1/4	2,890.68	1/4	2,615.59	1/4	2,338.27	1/4	2,060.97	1/4	1,783.59	1/4	1,506.22	1/4	1,229.31	1/4	954.69	1/4	678.41	1/4	401.27	1/4	128.95
1/2	2,885.39	1/2	2,609.82	1/2	2,332.49	1/2	2,055.19	1/2	1,777.82	1/2	1,500.44	1/2	1,223.66	1/2	948.91	1/2	672.66	1/2	395.49	1/2	123.30
3/4	2,879.65	3/4	2,604.04	3/4	2,326.71	3/4	2,049.41	3/4	1,772.04	3/4	1,494.66	3/4	1,218.01	3/4	943.13	3/4	666.91	3/4	389.71	3/4	117.76
3	2,873.91	3	2,598.26	3	2,320.94	3	2,043.63	3	1,766.26	3	1,488.89	3	1,212.37	3	937.35	3	661.17	3	383.93	3	112.22
1/4	2,868.17	1/4	2,592.48	1/4	2,315.16	1/4	2,037.85	1/4	1,760.48	1/4	1,483.11	1/4	1,206.72	1/4	931.57	1/4	655.42	1/4	378.15	1/4	106.68
1/2	2,862.44	1/2	2,586.71	1/2	2,309.38	1/2	2,032.07	1/2	1,754.70	1/2	1,477.33	1/2	1,201.07	1/2	925.79	1/2	649.67	1/2	372.37	1/2	101.14
3/4	2,856.70	3/4	2,580.93	3/4	2,303.60	3/4	2,026.30	3/4	1,748.92	3/4	1,471.56	3/4	1,195.43	3/4	920.01	3/4	643.92	3/4	366.59	3/4	95.61
4	2,850.96	4	2,575.15	4	2,297.83	4	2,020.52	4	1,743.14	4	1,465.79	4	1,189.79	4	914.23	4	638.18	4	360.81	4	90.09
1/4	2,845.22	1/4	2,569.37	1/4	2,292.05	1/4	2,014.74	1/4	1,737.37	1/4	1,460.02	1/4	1,184.14	1/4	908.45	1/4	632.43	1/4	355.03	1/4	84.56
1/2	2,839.48	1/2	2,563.60	1/2	2,286.27	1/2	2,008.96	1/2	1,731.59	1/2	1,454.25	1/2	1,178.50	1/2	902.67	1/2	626.68	1/2	349.26	1/2	79.03
3/4	2,833.75	3/4	2,557.82	3/4	2,280.49	3/4	2,003.18	3/4	1,725.81	3/4	1,448.48	3/4	1,172.85	3/4	896.91	3/4	620.90	3/4	343.69	3/4	73.51
5	2,828.01	5	2,552.04	5	2,274.72	5	1,997.40	5	1,720.03	5	1,442.71	5	1,167.21	5	891.15	5	615.12	5	338.13	5	67.99
1/4	2,822.27	1/4	2,546.28	1/4	2,268.94	1/4	1,991.62	1/4	1,714.25	1/4	1,436.94	1/4	1,161.57	1/4	885.39	1/4	609.34	1/4	332.57	1/4	62.47
1/2	2,816.53	1/2	2,540.49	1/2	2,263.16	1/2	1,985.84	1/2	1,708.47	1/2	1,431.17	1/2	1,155.92	1/2	879.63	1/2	603.56	1/2	327.01	1/2	56.95
3/4	2,810.80	3/4	2,534.71	3/4	2,257.38	3/4	1,980.07	3/4	1,702.69	3/4	1,425.39	3/4	1,150.28	3/4	873.88	3/4	597.78	3/4	321.45	3/4	51.47
6	2,805.06	6	2,528.93	6	2,251.61	6	1,974.29	6	1,696.91	6	1,419.61	6	1,144.63	6	868.12	6	592.00	6	315.88	6	45.98
1/4	2,799.32	1/4	2,523.15	1/4	2,245.83	1/4	1,968.51	1/4	1,691.14	1/4	1,413.83	1/4	1,138.98	1/4	862.36	1/4	586.22	1/4	310.32	1/4	40.49
1/2	2,793.58	1/2	2,517.38	1/2	2,240.05	1/2	1,962.73	1/2	1,685.36	1/2	1,408.06	1/2	1,133.34	1/2	856.60	1/2	580.44	1/2	304.76	1/2	35.00
3/4	2,787.85	3/4	2,511.60	3/4	2,234.27	3/4	1,956.95	3/4	1,679.58	3/4	1,402.28	3/4	1,127.69	3/4	850.85	3/4	574.66	3/4	299.20	3/4	30.30
7	2,782.11	7	2,505.82	7	2,228.50	7	1,951.17	7	1,673.80	7	1,396.50	7	1,122.04	7	845.10	7	568.88	7	293.64	7	25.59
1/4	2,776.37	1/4	2,500.04	1/4	2,222.72	1/4	1,945.39	1/4	1,668.02	1/4	1,390.72	1/4	1,116.39	1/4	839.35	1/4	563.10	1/4	288.07	1/4	20.89
1/2	2,770.63	1/2	2,494.26	1/2	2,216.94	1/2	1,939.62	1/2	1,662.24	1/2	1,384.94	1/2	1,110.75	1/2	833.60	1/2	557.32	1/2	282.51	1/2	16.18
3/4	2,764.89	3/4	2,488.49	3/4	2,211.17	3/4	1,933.84	3/4	1,656.46	3/4	1,379.16	3/4	1,104.97	3/4	827.85	3/4	551.54	3/4	276.96	3/4	
8	2,759.16	8	2,482.71	8	2,205.40	8	1,928.06	8	1,650.69	8	1,373.38	8	1,099.19	8	822.10	8	545.77	8	271.41	8	
1/4	2,753.42	1/4	2,476.93	1/4	2,199.62	1/4	1,922.28	1/4	1,644.91	1/4	1,367.60	1/4	1,093.41	1/4	816.35	1/4	539.99	1/4	265.86	1/4	
1/2	2,747.68	1/2	2,471.15	1/2	2,193.85	1/2	1,916.50	1/2	1,639.13	1/2	1,361.82	1/2	1,087.63	1/2	810.60	1/2	534.21	1/2	260.31	1/2	
3/4	2,741.94	3/4	2,465.38	3/4	2,188.08	3/4	1,910.72	3/4	1,633.35	3/4	1,356.05	3/4	1,081.85	3/4	804.85	3/4	528.43	3/4	254.76	3/4	
9	2,736.21	9	2,459.60	9	2,182.31	9	1,904.94	9	1,627.57	9	1,350.27	9	1,076.07	9	799.10	9	522.65	9	249.20	9	
1/4	2,730.47	1/4	2,453.82	1/4	2,176.53	1/4	1,899.17	1/4	1,621.79	1/4	1,344.49	1/4	1,070.29	1/4	793.35	1/4	516.87	1/4	243.65	1/4	
1/2	2,724.73	1/2	2,448.04	1/2	2,170.76	1/2	1,893.39	1/2	1,616.01	1/2	1,338.71	1/2	1,064.51	1/2	787.60	1/2	511.09	1/2	238.10	1/2	
3/4	2,718.99	3/4	2,442.27	3/4	2,164.98	3/4	1,887.61	3/4	1,610.24	3/4	1,332.93	3/4	1,058.73	3/4	781.85	3/4	505.31	3/4	232.33	3/4	
10	2,713.26	10	2,436.49	10	2,159.20	10	1,881.83	10	1,604.46	10	1,327.15	10	1,052.95	10	776.10	10	499.53	10	226.56	10	
1/4	2,707.52	1/4	2,430.71	1/4	2,153.42	1/4	1,876.05	1/4	1,598.68	1/4	1,321.37	1/4	1,047.17	1/4	770.35	1/4	493.75	1/4	220.79	1/4	
1/2	2,701.78	1/2	2,424.93	1/2	2,147.65	1/2	1,870.27	1/2	1,592.90	1/2	1,315.59	1/2	1,041.39	1/2	764.60	1/2	487.97	1/2	215.02	1/2	
3/4	2,696.04	3/4	2,419.16	3/4	2,141.87	3/4	1,864.49	3/4	1,584.49	3/4	1,309.82	3/4	1,035.61	3/4	758.86	3/4	482.19	3/4	209.27	3/4	
11	2,690.30	11	2,413.38	11	2,136.09	11	1,858.72	11	1,581.34	11	1,304.04	11	1,029.83	11	753.11	11	476.41	11	203.51	11	
1/4	2,684.57	1/4	2,407.60	1/4	2,130.31	1/4	1,852.94	1/4	1,575.56	1/4	1,298.26	1/4	1,024.05	1/4	747.36	1/4	470.63	1/4	197.75	1/4	
1/2	2,678.83	1/2	2,401.82	1/2	2,124.53	1/2	1,847.16	1/2	1,569.79	1/2	1,292.48	1/2	1,018.27	1/2	741.62	1/2	464.85	1/2	191.99	1/2	
3/4	2,673.09	3/4	2,396.05	3/4	2,118.75	3/4	1,841.38	3/4	1,564.01	3/4	1,286.70	3/4	1,012.49	3/4	735.87	3/4	459.07	3/4	186.23	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



BARGE "MM 16" MAGNOLIA BARGE

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-08 1/4"

1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.			
N	R	N	R	N	R	N	R	N	R	N	R	N	R	N	R	N	R	N	R	N	R	N	R
0	0	2,629.01	0	2,356.22	0	2,083.11	0	1,809.91	0	1,536.70	0	1,263.57	0	993.53	0	730.44	0	463.53	0	194.77			
1/4	1/4	2,623.36	1/4	2,350.53	1/4	2,077.42	1/4	1,804.21	1/4	1,531.01	1/4	1,257.88	1/4	987.84	1/4	725.05	1/4	457.84	1/4	189.10			
1/2	1/2	2,617.71	1/2	2,344.84	1/2	2,071.72	1/2	1,798.52	1/2	1,525.32	1/2	1,252.19	1/2	982.15	1/2	719.66	1/2	452.15	1/2	183.43			
3/4	3/4	2,612.06	3/4	2,339.15	3/4	2,066.03	3/4	1,792.83	3/4	1,519.63	3/4	1,246.50	3/4	976.45	3/4	714.27	3/4	446.45	3/4	177.75			
1	1	2,868.05	1	2,606.41	1	2,333.46	1	2,060.34	1	1,787.14	1	1,513.94	1	1,240.80	1	970.76	1	708.88	1	440.76	1	172.08	
1/4	1/4	2,864.73	1/4	2,600.76	1/4	2,327.77	1/4	2,054.65	1/4	1,781.45	1/4	1,508.25	1/4	1,235.11	1/4	965.07	1/4	703.49	1/4	435.07	1/4	166.41	
1/2	1/2	2,860.46	1/2	2,595.11	1/2	2,322.08	1/2	2,048.96	1/2	1,775.76	1/2	1,502.55	1/2	1,229.42	1/2	959.37	1/2	698.10	1/2	429.37	1/2	160.74	
3/4	3/4	2,856.19	3/4	2,589.46	3/4	2,316.39	3/4	2,043.27	3/4	1,770.06	3/4	1,496.86	3/4	1,223.73	3/4	953.68	3/4	692.71	3/4	423.68	3/4	155.07	
2	2	2,851.93	2	2,583.81	2	2,310.70	2	2,037.57	2	1,764.37	2	1,491.17	2	1,218.04	2	947.99	2	687.32	2	417.99	2	149.39	
1/4	1/4	2,847.66	1/4	2,578.16	1/4	2,305.01	1/4	2,031.88	1/4	1,758.68	1/4	1,485.48	1/4	1,212.34	1/4	942.30	1/4	681.93	1/4	412.30	1/4	143.72	
1/2	1/2	2,842.44	1/2	2,572.47	1/2	2,299.31	1/2	2,026.19	1/2	1,752.99	1/2	1,479.79	1/2	1,206.78	1/2	936.60	1/2	676.54	1/2	406.60	1/2	138.15	
3/4	3/4	2,837.22	3/4	2,566.78	3/4	2,293.62	3/4	2,020.50	3/4	1,747.30	3/4	1,474.10	3/4	1,201.22	3/4	930.91	3/4	671.15	3/4	400.91	3/4	132.58	
3	3	2,832.00	3	2,561.09	3	2,287.93	3	2,014.81	3	1,741.61	3	1,466.40	3	1,195.66	3	925.22	3	665.76	3	395.22	3	127.01	
1/4	1/4	2,826.79	1/4	2,555.40	1/4	2,282.24	1/4	2,009.12	1/4	1,735.91	1/4	1,462.71	1/4	1,190.10	1/4	919.52	1/4	660.37	1/4	389.53	1/4	121.44	
1/2	1/2	2,821.13	1/2	2,549.71	1/2	2,276.55	1/2	2,003.42	1/2	1,730.22	1/2	1,457.02	1/2	1,184.54	1/2	914.10	1/2	654.98	1/2	383.83	1/2	115.99	
3/4	3/4	2,815.48	3/4	2,544.01	3/4	2,270.86	3/4	1,997.73	3/4	1,724.53	3/4	1,451.33	3/4	1,178.98	3/4	908.68	3/4	649.59	3/4	378.14	3/4	110.53	
4	4	2,809.83	4	2,538.32	4	2,265.17	4	1,992.04	4	1,718.84	4	1,445.64	4	1,173.42	4	903.25	4	644.20	4	372.45	4	105.08	
1/4	1/4	2,804.18	1/4	2,532.63	1/4	2,259.48	1/4	1,986.35	1/4	1,713.15	1/4	1,439.95	1/4	1,167.86	1/4	897.83	1/4	638.81	1/4	366.76	1/4	99.62	
1/2	1/2	2,798.53	1/2	2,526.94	1/2	2,253.79	1/2	1,980.66	1/2	1,707.46	1/2	1,434.26	1/2	1,162.31	1/2	892.40	1/2	633.41	1/2	361.06	1/2	94.18	
3/4	3/4	2,792.88	3/4	2,521.25	3/4	2,248.10	3/4	1,974.97	3/4	1,701.76	3/4	1,428.58	3/4	1,156.75	3/4	886.98	3/4	628.02	3/4	355.37	3/4	88.74	
5	5	2,787.23	5	2,515.56	5	2,242.41	5	1,969.27	5	1,696.07	5	1,422.90	5	1,151.19	5	881.56	5	622.63	5	349.68	5	83.29	
1/4	1/4	2,781.58	1/4	2,509.87	1/4	2,236.72	1/4	1,963.58	1/4	1,690.38	1/4	1,417.22	1/4	1,145.84	1/4	876.13	1/4	617.23	1/4	343.98	1/4	77.85	
1/2	1/2	2,775.93	1/2	2,504.18	1/2	2,231.03	1/2	1,957.89	1/2	1,684.69	1/2	1,411.53	1/2	1,140.08	1/2	870.73	1/2	611.54	1/2	338.51	1/2	72.41	
3/4	3/4	2,770.28	3/4	2,498.49	3/4	2,225.34	3/4	1,952.20	3/4	1,679.00	3/4	1,405.85	3/4	1,134.52	3/4	865.33	3/4	605.85	3/4	333.03	3/4	66.98	
6	6	2,764.63	6	2,492.80	6	2,219.65	6	1,946.51	6	1,673.31	6	1,400.17	6	1,128.97	6	859.93	6	600.16	6	327.55	6	61.54	
1/4	1/4	2,758.98	1/4	2,487.11	1/4	2,213.95	1/4	1,940.82	1/4	1,667.61	1/4	1,394.49	1/4	1,123.41	1/4	854.52	1/4	594.46	1/4	322.07	1/4	56.11	
1/2	1/2	2,753.33	1/2	2,481.42	1/2	2,208.26	1/2	1,935.12	1/2	1,661.92	1/2	1,388.79	1/2	1,117.85	1/2	849.12	1/2	588.77	1/2	316.60	1/2	50.70	
3/4	3/4	2,747.68	3/4	2,475.73	3/4	2,202.57	3/4	1,929.43	3/4	1,656.23	3/4	1,383.10	3/4	1,112.29	3/4	843.72	3/4	583.08	3/4	311.12	3/4	45.30	
7	7	2,742.03	7	2,470.04	7	2,196.88	7	1,923.74	7	1,650.54	7	1,377.41	7	1,106.73	7	838.32	7	577.38	7	305.64	7	39.89	
1/4	1/4	2,736.38	1/4	2,464.35	1/4	2,191.19	1/4	1,918.05	1/4	1,644.85	1/4	1,371.72	1/4	1,101.17	1/4	832.92	1/4	571.69	1/4	300.16	1/4	34.49	
1/2	1/2	2,730.73	1/2	2,458.65	1/2	2,185.50	1/2	1,912.36	1/2	1,639.15	1/2	1,366.03	1/2	1,095.61	1/2	827.52	1/2	566.00	1/2	294.68	1/2	29.85	
3/4	3/4	2,725.07	3/4	2,452.96	3/4	2,179.81	3/4	1,906.66	3/4	1,633.46	3/4	1,360.33	3/4	1,090.05	3/4	822.13	3/4	560.31	3/4	289.21	3/4	25.22	
8	8	2,719.42	8	2,447.27	8	2,174.12	8	1,900.97	8	1,627.77	8	1,354.64	8	1,084.49	8	816.73	8	554.61	8	283.73	8	20.59	
1/4	1/4	2,713.77	1/4	2,441.58	1/4	2,168.43	1/4	1,895.28	1/4	1,622.08	1/4	1,348.95	1/4	1,078.93	1/4	811.34	1/4	548.92	1/4	278.25	1/4	15.95	
1/2	1/2	2,708.12	1/2	2,435.89	1/2	2,162.74	1/2	1,889.59	1/2	1,616.39	1/2	1,343.26	1/2	1,073.23	1/2	805.94	1/2	543.23	1/2	272.78	1/2	11.11	
3/4	3/4	2,702.47	3/4	2,430.20	3/4	2,157.06	3/4	1,883.90	3/4	1,610.70	3/4	1,337.57	3/4	1,067.54	3/4	800.55	3/4	537.54	3/4	267.32	3/4	6.74	
9	9	2,696.82	9	2,424.51	9	2,151.37	9	1,878.21	9	1,605.00	9	1,331.87	9	1,061.85	9	795.16	9	531.84	9	261.85	9	1.29	
1/4	1/4	2,691.17	1/4	2,418.82	1/4	2,145.69	1/4	1,872.51	1/4	1,599.31	1/4	1,326.18	1/4	1,056.16	1/4	789.76	1/4	526.15	1/4	256.38	1/4	0.00	
1/2	1/2	2,685.52	1/2	2,413.13	1/2	2,140.00	1/2	1,866.82	1/2	1,593.62	1/2	1,320.49	1/2	1,050.46	1/2	784.37	1/2	520.46	1/2	250.92	1/2	0.00	
3/4	3/4	2,679.87	3/4	2,407.44	3/4	2,134.32	3/4	1,861.13	3/4	1,587.93	3/4	1,314.80	3/4	1,044.77	3/4	778.97	3/4	514.77	3/4	245.45	3/4	0.00	
10	10	2,674.22	10	2,401.75	10	2,128.63	10	1,855.44	10	1,582.24	10	1,309.11	10	1,039.08	10	773.58	10	509.07	10	239.98	10	0.00	
1/4	1/4	2,668.57	1/4	2,396.06	1/4	2,122.95	1/4	1,849.75	1/4	1,576.55	1/4	1,303.42	1/4	1,033.38	1/4	768.18	1/4	503.38	1/4	234.52	1/4	0.00	
1/2	1/2	2,662.92	1/2	2,390.37	1/2	2,117.26	1/2	1,844.06	1/2	1,570.85	1/2	1,297.72	1/2	1,027.69	1/2	762.79	1/2	497.69	1/2	228.83	1/2	0.00	
3/4	3/4	2,657.27	3/4	2,384.68	3/4	2,111.57	3/4	1,833.36	3/4	1,565.16	3/4	1,292.03	3/4	1,022.00	3/4	757.40	3/4	491.99	3/4	223.15	3/4	0.00	
11	11	2,651.62	11	2,378.98	11	2,105.87	11	1,822.67	11	1,559.47	11	1,286.34	11	1,016.30	11	752.01	11	486.30	11	217.47	11	0.00	
1/4	1/4	2,645.97	1/4	2,373.29	1/4	2,100.18	1/4	1,826.98	1/4	1,553.78	1/4	1,280.65	1/4	1,010.61	1/4	746.61	1/4	480.61	1/4	211.79	1/4	0.00	
1/2	1/2	2,640.32	1/2	2,367.60	1/2	2,094.49	1/2	1,821.29	1/2	1,548.09	1/2	1,274.96	1/2	1,004.92	1/2	741.22	1/2	474.92	1/2	206.11	1/2	0.00	
3/4	3/4	2,634.67	3/4	2,361.91	3/4	2,088.80	3/4	1,815.60	3/4	1,542.40	3/4	1,269.26	3/4	999.23	3/4	735.83	3/4	469.22	3/4	200.44	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: (HERMETIC - 2" VALVE) 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

STRAPPED: 05/06/2014 CL
CALCULATED: 05/06/2014 CL
PRINTED: 05/07/2014 SW

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2014



BARGE "MM 16" MAGNOLIA BARGE

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-08"

1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		10 FT.		11 FT.		
0	0	2,639.70	0	2,366.73	0	2,093.48	0	1,820.15	0	1,546.82	0	1,273.56	0	1,003.39	0	730.78	0	458.06	0	189.19		
1/4	1/4	2,634.04	1/4	2,361.04	1/4	2,087.79	1/4	1,814.46	1/4	1,541.13	1/4	1,267.86	1/4	997.69	1/4	725.12	1/4	452.36	1/4	183.51		
1/2	1/2	2,628.39	1/2	2,355.35	1/2	2,082.10	1/2	1,808.76	1/2	1,535.43	1/2	1,262.17	1/2	992.00	1/2	719.46	1/2	446.67	1/2	177.84		
3/4	3/4	2,884.50	3/4	2,622.74	3/4	2,349.65	3/4	2,076.40	3/4	1,803.07	3/4	1,529.74	3/4	1,256.48	3/4	986.30	3/4	713.80	3/4	440.97	3/4	172.16
1	1	2,881.18	1	2,617.08	1	2,343.96	1	2,070.71	1	1,797.38	1	1,524.04	1	1,250.78	1	980.61	1	708.13	1	436.27	1	166.49
1 1/4	1 1/4	2,876.91	1 1/4	2,611.43	1 1/4	2,338.27	1 1/4	2,065.01	1 1/4	1,791.68	1 1/4	1,518.35	1 1/4	1,245.09	1 1/4	974.91	1 1/4	702.47	1 1/4	429.58	1 1/4	160.81
1 1/2	1 1/2	2,872.64	1 1/2	2,605.78	1 1/2	2,332.57	1 1/2	2,059.32	1 1/2	1,785.99	1 1/2	1,512.66	1 1/2	1,239.39	1 1/2	969.21	1 1/2	696.81	1 1/2	423.88	1 1/2	155.14
3 1/4	3 1/4	2,868.37	3 1/4	2,600.12	3 1/4	2,326.88	3 1/4	2,053.82	3 1/4	1,780.29	3 1/4	1,506.96	3 1/4	1,233.70	3 1/4	963.52	3 1/4	691.15	3 1/4	418.19	3 1/4	149.47
2	2	2,864.10	2	2,594.47	2	2,321.19	2	2,047.93	2	1,774.60	2	1,501.27	2	1,228.00	2	957.82	2	685.48	2	412.49	2	143.79
2 1/4	2 1/4	2,858.88	2 1/4	2,588.78	2 1/4	2,315.49	2 1/4	2,042.24	2 1/4	1,768.90	2 1/4	1,495.57	2 1/4	1,222.44	2 1/4	952.13	2 1/4	679.82	2 1/4	406.80	2 1/4	138.22
1 1/2	1 1/2	2,853.66	1 1/2	2,583.08	1 1/2	2,309.80	1 1/2	2,036.54	1 1/2	1,763.21	1 1/2	1,489.88	1 1/2	1,216.88	1 1/2	946.43	1 1/2	674.16	1 1/2	401.10	1 1/2	132.64
3 1/4	3 1/4	2,848.43	3 1/4	2,577.39	3 1/4	2,304.11	3 1/4	2,030.85	3 1/4	1,757.52	3 1/4	1,484.18	3 1/4	1,211.31	3 1/4	940.74	3 1/4	668.50	3 1/4	395.41	3 1/4	127.07
3	3	2,843.21	3	2,571.70	3	2,298.41	3	2,025.15	3	1,751.82	3	1,478.49	3	1,205.75	3	935.04	3	662.84	3	389.71	3	121.50
1 1/4	1 1/4	2,837.56	1 1/4	2,566.00	1 1/4	2,292.72	1 1/4	2,019.46	1 1/4	1,746.13	1 1/4	1,472.80	1 1/4	1,200.19	1 1/4	929.34	1 1/4	657.17	1 1/4	384.02	1 1/4	116.04
1 1/2	1 1/2	2,831.91	1 1/2	2,560.31	1 1/2	2,287.03	1 1/2	2,013.76	1 1/2	1,740.43	1 1/2	1,467.10	1 1/2	1,194.62	1 1/2	923.65	1 1/2	651.51	1 1/2	378.32	1 1/2	110.58
3 1/4	3 1/4	2,826.25	3 1/4	2,554.62	3 1/4	2,281.33	3 1/4	2,008.07	3 1/4	1,734.74	3 1/4	1,461.41	3 1/4	1,189.06	3 1/4	917.95	3 1/4	645.85	3 1/4	372.62	3 1/4	105.13
4	4	2,820.60	4	2,548.92	4	2,275.64	4	2,002.37	4	1,729.04	4	1,455.71	4	1,183.50	4	912.26	4	640.19	4	366.93	4	99.67
1 1/4	1 1/4	2,814.95	1 1/4	2,543.23	1 1/4	2,269.95	1 1/4	1,996.68	1 1/4	1,723.35	1 1/4	1,450.03	1 1/4	1,177.94	1 1/4	906.56	1 1/4	634.52	1 1/4	361.23	1 1/4	94.22
1 1/2	1 1/2	2,809.29	1 1/2	2,537.53	1 1/2	2,264.25	1 1/2	1,990.99	1 1/2	1,717.65	1 1/2	1,444.34	1 1/2	1,172.38	1 1/2	900.87	1 1/2	628.86	1 1/2	355.54	1 1/2	88.78
3 1/4	3 1/4	2,803.64	3 1/4	2,531.84	3 1/4	2,258.56	3 1/4	1,985.29	3 1/4	1,711.96	3 1/4	1,438.66	3 1/4	1,166.82	3 1/4	895.17	3 1/4	623.19	3 1/4	349.84	3 1/4	83.33
5	5	2,797.99	5	2,526.15	5	2,252.86	5	1,979.60	5	1,706.27	5	1,432.97	5	1,161.26	5	889.47	5	617.53	5	344.15	5	77.89
1 1/4	1 1/4	2,792.33	1 1/4	2,520.45	1 1/4	2,247.17	1 1/4	1,973.90	1 1/4	1,700.57	1 1/4	1,427.29	1 1/4	1,155.70	1 1/4	883.80	1 1/4	611.83	1 1/4	338.67	1 1/4	72.45
1 1/2	1 1/2	2,786.68	1 1/2	2,514.76	1 1/2	2,241.48	1 1/2	1,968.21	1 1/2	1,694.88	1 1/2	1,421.60	1 1/2	1,150.14	1 1/2	878.13	1 1/2	606.14	1 1/2	333.19	1 1/2	67.01
3 1/4	3 1/4	2,781.03	3 1/4	2,509.07	3 1/4	2,235.78	3 1/4	1,962.51	3 1/4	1,689.18	3 1/4	1,415.91	3 1/4	1,144.58	3 1/4	872.45	3 1/4	600.44	3 1/4	327.71	3 1/4	61.57
6	6	2,775.37	6	2,503.37	6	2,230.09	6	1,956.82	6	1,683.49	6	1,410.23	6	1,139.03	6	866.78	6	594.75	6	322.23	6	56.13
1 1/4	1 1/4	2,769.72	1 1/4	2,497.68	1 1/4	2,224.40	1 1/4	1,951.12	1 1/4	1,677.79	1 1/4	1,404.53	1 1/4	1,133.46	1 1/4	861.11	1 1/4	589.05	1 1/4	316.75	1 1/4	50.72
1 1/2	1 1/2	2,764.07	1 1/2	2,491.99	1 1/2	2,218.70	1 1/2	1,945.43	1 1/2	1,672.10	1 1/2	1,398.84	1 1/2	1,127.90	1 1/2	855.43	1 1/2	583.35	1 1/2	311.27	1 1/2	45.32
3 1/4	3 1/4	2,758.41	3 1/4	2,486.29	3 1/4	2,213.01	3 1/4	1,939.74	3 1/4	1,666.40	3 1/4	1,393.15	3 1/4	1,122.34	3 1/4	849.76	3 1/4	577.66	3 1/4	305.79	3 1/4	39.91
7	7	2,752.76	7	2,480.60	7	2,207.32	7	1,934.04	7	1,660.71	7	1,387.45	7	1,116.77	7	844.08	7	571.96	7	300.31	7	34.50
1 1/4	1 1/4	2,747.11	1 1/4	2,474.91	1 1/4	2,201.62	1 1/4	1,928.35	1 1/4	1,655.02	1 1/4	1,381.76	1 1/4	1,111.21	1 1/4	838.42	1 1/4	566.27	1 1/4	294.83	1 1/4	29.87
1 1/2	1 1/2	2,741.45	1 1/2	2,469.21	1 1/2	2,195.93	1 1/2	1,922.65	1 1/2	1,649.32	1 1/2	1,376.06	1 1/2	1,105.65	1 1/2	832.75	1 1/2	560.57	1 1/2	289.34	1 1/2	25.23
3 1/4	3 1/4	2,735.80	3 1/4	2,463.52	3 1/4	2,190.24	3 1/4	1,916.96	3 1/4	1,643.63	3 1/4	1,370.37	3 1/4	1,100.08	3 1/4	827.08	3 1/4	554.88	3 1/4	283.86	3 1/4	20.59
8	8	2,730.15	8	2,457.83	8	2,184.54	8	1,911.26	8	1,637.93	8	1,364.67	8	1,094.52	8	821.42	8	549.18	8	278.38	8	15.96
1 1/4	1 1/4	2,724.49	1 1/4	2,452.13	1 1/4	2,178.86	1 1/4	1,905.57	1 1/4	1,632.24	1 1/4	1,358.98	1 1/4	1,088.82	1 1/4	815.75	1 1/4	543.49	1 1/4	272.91	1 1/4	11.11
1 1/2	1 1/2	2,718.84	1 1/2	2,446.44	1 1/2	2,173.17	1 1/2	1,899.88	1 1/2	1,626.54	1 1/2	1,353.28	1 1/2	1,083.13	1 1/2	810.09	1 1/2	537.79	1 1/2	267.44	1 1/2	6.25
3 1/4	3 1/4	2,713.19	3 1/4	2,440.75	3 1/4	2,167.48	3 1/4	1,894.18	3 1/4	1,620.85	3 1/4	1,347.59	3 1/4	1,077.43	3 1/4	804.42	3 1/4	532.10	3 1/4	261.97	3 1/4	1.39
9	9	2,707.53	9	2,435.05	9	2,161.79	9	1,888.49	9	1,615.16	9	1,341.89	9	1,071.74	9	798.75	9	526.40	9	256.51	9	0.03
1 1/4	1 1/4	2,701.88	1 1/4	2,429.36	1 1/4	2,156.10	1 1/4	1,882.79	1 1/4	1,609.46	1 1/4	1,336.20	1 1/4	1,066.04	1 1/4	793.09	1 1/4	520.71	1 1/4	251.04	1 1/4	0.00
1 1/2	1 1/2	2,696.23	1 1/2	2,423.67	1 1/2	2,150.42	1 1/2	1,877.10	1 1/2	1,603.77	1 1/2	1,330.51	1 1/2	1,060.35	1 1/2	787.42	1 1/2	515.01	1 1/2	245.57	1 1/2	0.00
3 1/4	3 1/4	2,690.57	3 1/4	2,417.97	3 1/4	2,144.73	3 1/4	1,871.40	3 1/4	1,598.07	3 1/4	1,324.81	3 1/4	1,054.65	3 1/4	781.76	3 1/4	509.31	3 1/4	240.10	3 1/4	0.00
10	10	2,684.92	10	2,412.28	10	2,139.04	10	1,865.71	10	1,592.38	10	1,319.12	10	1,048.95	10	776.09	10	503.62	10	234.63	10	0.00
1 1/4	1 1/4	2,679.27	1 1/4	2,406.59	1 1/4	2,133.35	1 1/4	1,860.01	1 1/4	1,586.68	1 1/4	1,313.42	1 1/4	1,043.26	1 1/4	770.42	1 1/4	497.92	1 1/4	228.94	1 1/4	0.00
1 1/2	1 1/2	2,673.62	1 1/2	2,400.89	1 1/2	2,127.65	1 1/2	1,854.32	1 1/2	1,580.99	1 1/2	1,307.73	1 1/2	1,037.56	1 1/2	764.76	1 1/2	492.23	1 1/2	223.26	1 1/2	0.00
3 1/4	3 1/4	2,667.96	3 1/4	2,395.20	3 1/4	2,121.96	3 1/4	1,848.63	3 1/4	1,575.29	3 1/4	1,302.03	3 1/4	1,031.87	3 1/4	759.10	3 1/4	486.53	3 1/4	217.57	3 1/4	0.00
11	11	2,662.31	11	2,389.51	11	2,116.26	11	1,842.93	11	1,569.60	11	1,296.34	11	1,026.17	11	753.43	11	480.84	11	211.89	11	0.00
1 1/4	1 1/4	2,656.66	1 1/4	2,383.81	1 1/4	2,110.57	1 1/4	1,837.24	1 1/4	1,563.91	1 1/4	1,290.64	1 1/4	1,020.48	1 1/4	747.77	1 1/4	475.14	1 1/4	206.21	1 1/4	0.00
1 1/2	1 1/2	2,651.00	1 1/2	2,378.12	1 1/2	2,104.87	1 1/2	1,831.54	1 1/2	1,558.21	1 1/2	1,284.95	1 1/2	1,014.78	1 1/2	742.11	1 1/2	469.45	1 1/2	200.54	1 1/2	0.00
3 1/4	3 1/4	2,645.35	3 1/4	2,372.43	3 1/4	2,099.18	3 1/4	1,825.85	3 1/4	1,552.52	3 1/4	1,279.25	3 1/4	1,009.08	3 1/4	736.44	3 1/4	463.75	3 1/4	194.86	3 1/4	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: (HERMETIC - 2"



BARGE "MM 16" MAGNOLIA BARGE

4 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-08"

	1 FT.	2 FT.	3 FT.	4 FT.	5 FT.	6 FT.	7 FT.	8 FT.	9 FT.	10 FT.	11 FT.											
0	0	2,691.04	0	2,412.55	0	2,133.78	0	1,855.14	0	1,577.70	0	1,301.27	0	1,025.24	0	754.28	0	479.83	0	199.35		
1/4	1/4	2,685.27	1/4	2,406.74	1/4	2,127.97	1/4	1,849.32	1/4	1,571.97	1/4	1,295.46	1/4	1,019.43	1/4	748.70	1/4	474.01	1/4	193.54		
1/2	1/2	2,679.50	1/2	2,400.93	1/2	2,122.16	1/2	1,843.51	1/2	1,566.23	1/2	1,289.65	1/2	1,013.61	1/2	743.13	1/2	468.19	1/2	187.73		
3/4	3/4	2,673.73	3/4	2,395.12	3/4	2,116.35	3/4	1,837.70	3/4	1,560.50	3/4	1,283.84	3/4	1,007.80	3/4	737.55	3/4	462.38	3/4	181.92		
1	1	2,667.96	1	2,389.32	1	2,110.54	1	1,831.89	1	1,554.76	1	1,278.03	1	1,001.98	1	731.97	1	456.56	1	176.11		
1/4	1/4	2,662.20	1/4	2,383.51	1/4	2,104.73	1/4	1,826.08	1/4	1,549.03	1/4	1,272.22	1/4	996.17	1/4	726.39	1/4	450.74	1/4	170.31		
1/2	1/2	2,628.81	1/2	2,656.43	1/2	2,377.70	1/2	2,098.92	1/2	1,820.27	1/2	1,543.29	1/2	1,266.40	1/2	990.36	1/2	720.82	1/2	444.92	1/2	164.50
3/4	3/4	2,624.44	3/4	2,650.66	3/4	2,371.89	3/4	2,093.11	3/4	1,814.46	3/4	1,537.56	3/4	1,260.59	3/4	984.54	3/4	715.24	3/4	439.10	3/4	158.69
2	2	2,620.07	2	2,644.89	2	2,366.08	2	2,087.30	2	1,808.65	2	1,531.82	2	1,254.78	2	978.73	2	709.66	2	433.29	2	152.88
1/4	1/4	2,914.73	1/4	2,639.08	1/4	2,360.27	1/4	2,081.49	1/4	1,802.84	1/4	1,526.09	1/4	1,249.09	1/4	972.91	1/4	704.09	1/4	427.47	1/4	147.03
1/2	1/2	2,909.39	1/2	2,633.27	1/2	2,354.47	1/2	2,075.68	1/2	1,797.03	1/2	1,520.35	1/2	1,243.40	1/2	967.10	1/2	698.51	1/2	421.65	1/2	141.18
3/4	3/4	2,904.04	3/4	2,627.46	3/4	2,348.66	3/4	2,069.88	3/4	1,791.22	3/4	1,514.62	3/4	1,237.71	3/4	961.28	3/4	692.93	3/4	415.84	3/4	135.34
3	3	2,898.70	3	2,621.66	3	2,342.85	3	2,064.07	3	1,785.41	3	1,508.88	3	1,232.01	3	955.47	3	687.35	3	410.02	3	129.49
1/4	1/4	2,892.93	1/4	2,615.85	1/4	2,337.04	1/4	2,058.26	1/4	1,779.59	1/4	1,503.15	1/4	1,226.32	1/4	949.86	1/4	681.78	1/4	404.20	1/4	123.62
1/2	1/2	2,887.16	1/2	2,610.04	1/2	2,331.23	1/2	2,052.46	1/2	1,773.78	1/2	1,497.42	1/2	1,220.63	1/2	944.25	1/2	676.20	1/2	398.39	1/2	117.74
3/4	3/4	2,881.39	3/4	2,604.23	3/4	2,325.42	3/4	2,046.66	3/4	1,767.97	3/4	1,491.68	3/4	1,214.94	3/4	938.64	3/4	670.62	3/4	392.57	3/4	111.87
4	4	2,875.63	4	2,598.42	4	2,319.61	4	2,040.85	4	1,762.16	4	1,485.95	4	1,209.25	4	933.03	4	665.05	4	386.75	4	106.00
1/4	1/4	2,869.88	1/4	2,592.61	1/4	2,313.81	1/4	2,035.05	1/4	1,756.35	1/4	1,480.22	1/4	1,203.57	1/4	927.42	1/4	659.47	1/4	380.94	1/4	100.14
1/2	1/2	2,864.09	1/2	2,586.81	1/2	2,308.00	1/2	2,029.25	1/2	1,750.54	1/2	1,474.50	1/2	1,197.89	1/2	921.81	1/2	653.89	1/2	375.12	1/2	94.28
3/4	3/4	2,858.32	3/4	2,581.00	3/4	2,302.19	3/4	2,023.45	3/4	1,744.73	3/4	1,468.77	3/4	1,192.21	3/4	916.20	3/4	648.31	3/4	369.30	3/4	88.42
5	5	2,852.55	5	2,575.19	5	2,296.38	5	2,017.64	5	1,738.92	5	1,463.04	5	1,186.53	5	910.59	5	642.73	5	363.49	5	82.56
1/4	1/4	2,846.78	1/4	2,569.38	1/4	2,290.57	1/4	2,011.84	1/4	1,733.11	1/4	1,457.33	1/4	1,180.85	1/4	905.00	1/4	636.91	1/4	357.61	1/4	76.71
1/2	1/2	2,841.02	1/2	2,563.57	1/2	2,284.76	1/2	2,006.04	1/2	1,727.30	1/2	1,451.61	1/2	1,175.17	1/2	899.41	1/2	631.09	1/2	351.72	1/2	70.85
3/4	3/4	2,835.25	3/4	2,557.76	3/4	2,278.95	3/4	2,000.24	3/4	1,721.49	3/4	1,445.90	3/4	1,169.49	3/4	893.82	3/4	625.27	3/4	345.84	3/4	65.00
6	6	2,829.48	6	2,551.95	6	2,273.15	6	1,994.43	6	1,715.67	6	1,440.18	6	1,163.81	6	888.23	6	619.46	6	339.96	6	59.15
1/4	1/4	2,823.71	1/4	2,546.15	1/4	2,267.34	1/4	1,988.63	1/4	1,709.92	1/4	1,434.45	1/4	1,158.11	1/4	882.64	1/4	613.64	1/4	334.08	1/4	53.33
1/2	1/2	2,817.94	1/2	2,540.34	1/2	2,261.53	1/2	1,982.83	1/2	1,704.16	1/2	1,428.71	1/2	1,152.42	1/2	877.05	1/2	607.82	1/2	328.19	1/2	47.51
3/4	3/4	2,812.17	3/4	2,534.53	3/4	2,255.72	3/4	1,977.03	3/4	1,698.41	3/4	1,422.97	3/4	1,146.73	3/4	871.47	3/4	602.00	3/4	322.31	3/4	41.69
7	7	2,806.41	7	2,528.72	7	2,249.91	7	1,971.22	7	1,692.65	7	1,417.24	7	1,141.04	7	865.88	7	596.18	7	316.43	7	35.86
1/4	1/4	2,800.64	1/4	2,522.91	1/4	2,244.10	1/4	1,965.42	1/4	1,686.89	1/4	1,411.49	1/4	1,135.34	1/4	860.30	1/4	590.37	1/4	310.54	1/4	30.98
1/2	1/2	2,794.87	1/2	2,517.10	1/2	2,238.30	1/2	1,959.62	1/2	1,681.14	1/2	1,405.74	1/2	1,129.65	1/2	854.72	1/2	584.55	1/2	304.66	1/2	26.09
3/4	3/4	2,789.10	3/4	2,511.29	3/4	2,232.49	3/4	1,953.81	3/4	1,675.38	3/4	1,400.00	3/4	1,123.96	3/4	849.13	3/4	578.73	3/4	298.78	3/4	21.20
8	8	2,783.33	8	2,505.49	8	2,226.68	8	1,948.01	8	1,669.63	8	1,394.25	8	1,118.27	8	843.55	8	572.91	8	292.89	8	16.32
1/4	1/4	2,777.56	1/4	2,499.68	1/4	2,220.88	1/4	1,942.21	1/4	1,663.87	1/4	1,388.44	1/4	1,112.45	1/4	837.97	1/4	567.10	1/4	287.02	1/4	11.45
1/2	1/2	2,771.80	1/2	2,493.87	1/2	2,215.07	1/2	1,936.41	1/2	1,658.11	1/2	1,382.63	1/2	1,106.64	1/2	832.39	1/2	561.28	1/2	281.15	1/2	6.58
3/4	3/4	2,766.03	3/4	2,488.06	3/4	2,209.27	3/4	1,930.60	3/4	1,652.36	3/4	1,376.82	3/4	1,100.83	3/4	826.81	3/4	555.46	3/4	275.27	3/4	1.71
9	9	2,760.26	9	2,482.25	9	2,203.47	9	1,924.80	9	1,646.60	9	1,371.00	9	1,095.01	9	821.23	9	549.64	9	269.40	9	0.86
1/4	1/4	2,754.49	1/4	2,476.44	1/4	2,197.66	1/4	1,919.00	1/4	1,640.84	1/4	1,365.19	1/4	1,089.20	1/4	815.65	1/4	543.82	1/4	263.51	1/4	0.01
1/2	1/2	2,748.72	1/2	2,470.64	1/2	2,191.86	1/2	1,913.20	1/2	1,635.09	1/2	1,359.38	1/2	1,083.38	1/2	810.07	1/2	538.01	1/2	257.63	1/2	0.16
3/4	3/4	2,742.95	3/4	2,464.83	3/4	2,186.06	3/4	1,907.39	3/4	1,629.33	3/4	1,353.57	3/4	1,077.57	3/4	804.49	3/4	532.19	3/4	251.75	3/4	0.31
10	10	2,737.18	10	2,459.02	10	2,180.25	10	1,901.59	10	1,623.58	10	1,347.76	10	1,071.75	10	798.90	10	526.37	10	245.86	10	0.46
1/4	1/4	2,731.42	1/4	2,453.21	1/4	2,174.44	1/4	1,895.79	1/4	1,617.84	1/4	1,341.95	1/4	1,065.94	1/4	793.33	1/4	520.55	1/4	240.04	1/4	0.61
1/2	1/2	2,725.65	1/2	2,447.40	1/2	2,168.64	1/2	1,889.98	1/2	1,612.11	1/2	1,336.14	1/2	1,060.13	1/2	787.75	1/2	514.74	1/2	234.22	1/2	0.76
3/4	3/4	2,719.88	3/4	2,441.59	3/4	2,162.83	3/4	1,884.18	3/4	1,606.37	3/4	1,330.33	3/4	1,054.31	3/4	782.17	3/4	508.92	3/4	228.40	3/4	0.91
11	11	2,714.11	11	2,435.78	11	2,157.02	11	1,878.38	11	1,600.64	11	1,324.52	11	1,048.50	11	776.59	11	503.10	11	222.58	11	1.06
1/4	1/4	2,708.34	1/4	2,429.98	1/4	2,151.21	1/4	1,872.57	1/4	1,594.90	1/4	1,318.70	1/4	1,042.68	1/4	771.01	1/4	497.28	1/4	216.78	1/4	1.21
1/2	1/2	2,702.57	1/2	2,424.17	1/2	2,145.40	1/2	1,866.76	1/2	1,589.17	1/2	1,312.89	1/2	1,036.87	1/2	765.43	1/2	491.46	1/2	210.97	1/2	1.36
3/4	3/4	2,696.81	3/4	2,418.36	3/4	2,139.59	3/4	1,860.95	3/4	1,583.43	3/4	1,307.08	3/4	1,031.06	3/4	759.86	3/4	485.65	3/4	205.16	3/4	1.51

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'-06" FORWARD OF AFT BULKHEAD
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 50'-06" FORWARD OF AFT BULKHEAD

STRAPPED: 05/06/2014 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2014

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



BARGE "MM 16" MAGNOLIA BARGE

4 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-08"

N	1 FT.	N	2 FT.	N	3 FT.	N	4 FT.	N	5 FT.	N	6 FT.	N	7 FT.	N	8 FT.	N	9 FT.	N	10 FT.	N	11 FT.	
0	0	0	2,684.46	0	2,408.30	0	2,131.85	0	1,855.53	0	1,580.32	0	1,306.03	0	1,032.13	0	755.97	0	479.69	0	199.29	
1/4		1/4	2,678.74	1/4	2,402.54	1/4	2,126.09	1/4	1,849.77	1/4	1,574.63	1/4	1,300.26	1/4	1,026.36	1/4	750.23	1/4	473.87	1/4	193.48	
1/2		1/2	2,673.02	1/2	2,396.78	1/2	2,120.33	1/2	1,844.01	1/2	1,568.84	1/2	1,294.49	1/2	1,020.59	1/2	744.49	1/2	468.05	1/2	187.68	
3/4		3/4	2,932.62	3/4	2,667.30	3/4	2,391.02	3/4	2,114.57	3/4	1,838.24	3/4	1,563.25	3/4	1,288.73	3/4	1,014.82	3/4	738.76	3/4	462.24	181.87
1	2,929.22	1	2,661.58	1	2,385.26	1	2,108.81	1	1,832.48	1	1,557.56	1	1,282.96	1	1,009.05	1	733.02	1	456.42	1	176.06	
1/4	2,924.85	1/4	2,655.86	1/4	2,379.50	1/4	2,103.05	1/4	1,826.72	1/4	1,551.87	1/4	1,277.19	1/4	1,003.28	1/4	727.28	1/4	450.61	1/4	170.26	
1/2	2,920.49	1/2	2,650.14	1/2	2,373.74	1/2	2,097.28	1/2	1,820.96	1/2	1,546.18	1/2	1,271.43	1/2	997.51	1/2	721.55	1/2	444.79	1/2	164.45	
3/4	2,916.12	3/4	2,644.42	3/4	2,367.98	3/4	2,091.52	3/4	1,815.19	3/4	1,540.49	3/4	1,265.66	3/4	991.74	3/4	715.81	3/4	438.97	3/4	158.64	
2	2,911.75	2	2,638.70	2	2,362.22	2	2,085.76	2	1,809.43	2	1,534.80	2	1,259.89	2	985.97	2	710.08	2	433.16	2	152.84	
1/4	2,906.41	1/4	2,632.94	1/4	2,356.46	1/4	2,080.00	1/4	1,803.67	1/4	1,529.11	1/4	1,254.24	1/4	980.20	1/4	704.34	1/4	427.34	1/4	146.99	
1/2	2,901.06	1/2	2,627.18	1/2	2,350.70	1/2	2,074.24	1/2	1,797.91	1/2	1,523.42	1/2	1,248.60	1/2	974.43	1/2	698.60	1/2	421.53	1/2	141.14	
3/4	2,895.72	3/4	2,621.42	3/4	2,344.94	3/4	2,068.48	3/4	1,792.14	3/4	1,517.73	3/4	1,242.95	3/4	968.66	3/4	692.87	3/4	415.71	3/4	135.30	
3	2,890.38	3	2,615.66	3	2,339.18	3	2,062.72	3	1,786.38	3	1,512.04	3	1,237.30	3	962.89	3	687.13	3	409.90	3	129.45	
1/4	2,884.66	1/4	2,609.90	1/4	2,333.42	1/4	2,056.96	1/4	1,780.62	1/4	1,506.35	1/4	1,231.65	1/4	957.12	1/4	681.39	1/4	404.08	1/4	123.58	
1/2	2,878.94	1/2	2,604.14	1/2	2,327.66	1/2	2,051.21	1/2	1,774.86	1/2	1,500.66	1/2	1,226.01	1/2	951.35	1/2	675.66	1/2	398.27	1/2	117.71	
3/4	2,873.22	3/4	2,598.38	3/4	2,321.90	3/4	2,045.46	3/4	1,769.09	3/4	1,494.97	3/4	1,220.36	3/4	945.58	3/4	669.92	3/4	392.45	3/4	111.84	
4	2,867.50	4	2,592.62	4	2,316.14	4	2,039.70	4	1,763.33	4	1,489.28	4	1,214.71	4	939.81	4	664.18	4	386.64	4	105.97	
1/4	2,861.78	1/4	2,586.86	1/4	2,310.38	1/4	2,033.95	1/4	1,757.57	1/4	1,483.60	1/4	1,209.08	1/4	934.04	1/4	658.45	1/4	380.82	1/4	100.11	
1/2	2,856.06	1/2	2,581.10	1/2	2,304.62	1/2	2,028.19	1/2	1,751.81	1/2	1,477.92	1/2	1,203.44	1/2	928.27	1/2	652.71	1/2	375.01	1/2	94.25	
3/4	2,850.34	3/4	2,575.34	3/4	2,298.86	3/4	2,022.44	3/4	1,746.04	3/4	1,472.24	3/4	1,197.80	3/4	922.50	3/4	646.97	3/4	369.20	3/4	88.39	
5	2,844.62	5	2,569.58	5	2,293.10	5	2,016.68	5	1,740.28	5	1,466.56	5	1,192.17	5	916.73	5	641.23	5	363.38	5	82.54	
1/4	2,838.90	1/4	2,563.82	1/4	2,287.34	1/4	2,010.93	1/4	1,734.52	1/4	1,460.89	1/4	1,186.53	1/4	910.98	1/4	635.46	1/4	357.50	1/4	76.68	
1/2	2,833.18	1/2	2,558.06	1/2	2,281.58	1/2	2,005.18	1/2	1,728.76	1/2	1,455.21	1/2	1,180.80	1/2	905.24	1/2	629.69	1/2	351.62	1/2	70.83	
3/4	2,827.46	3/4	2,552.30	3/4	2,275.82	3/4	1,999.42	3/4	1,722.99	3/4	1,449.54	3/4	1,175.26	3/4	899.49	3/4	623.92	3/4	345.74	3/4	64.98	
6	2,821.74	6	2,546.54	6	2,270.06	6	1,993.67	6	1,717.23	6	1,443.87	6	1,169.63	6	893.74	6	618.15	6	339.86	6	59.13	
1/4	2,816.02	1/4	2,540.78	1/4	2,264.30	1/4	1,987.91	1/4	1,711.52	1/4	1,438.18	1/4	1,163.98	1/4	887.99	1/4	612.38	1/4	333.98	1/4	53.31	
1/2	2,810.30	1/2	2,535.02	1/2	2,258.54	1/2	1,982.16	1/2	1,705.81	1/2	1,432.49	1/2	1,158.33	1/2	882.24	1/2	606.61	1/2	328.10	1/2	47.49	
3/4	2,804.58	3/4	2,529.26	3/4	2,252.78	3/4	1,976.40	3/4	1,700.10	3/4	1,426.80	3/4	1,152.68	3/4	876.50	3/4	600.84	3/4	322.22	3/4	41.68	
7	2,798.86	7	2,523.50	7	2,247.02	7	1,970.65	7	1,694.38	7	1,421.10	7	1,147.03	7	870.75	7	595.07	7	316.33	7	35.86	
1/4	2,793.14	1/4	2,517.74	1/4	2,241.26	1/4	1,964.90	1/4	1,688.67	1/4	1,415.40	1/4	1,141.39	1/4	865.01	1/4	589.30	1/4	310.45	1/4	30.97	
1/2	2,787.42	1/2	2,511.98	1/2	2,235.50	1/2	1,959.14	1/2	1,682.96	1/2	1,409.70	1/2	1,135.74	1/2	859.27	1/2	583.54	1/2	304.57	1/2	26.08	
3/4	2,781.70	3/4	2,506.22	3/4	2,229.74	3/4	1,953.39	3/4	1,677.25	3/4	1,404.00	3/4	1,130.09	3/4	853.53	3/4	577.77	3/4	298.69	3/4	21.20	
8	2,775.98	8	2,500.46	8	2,223.98	8	1,947.63	8	1,671.54	8	1,398.29	8	1,124.44	8	847.79	8	572.00	8	292.81	8	16.31	
1/4	2,770.26	1/4	2,494.70	1/4	2,218.22	1/4	1,941.88	1/4	1,665.83	1/4	1,392.53	1/4	1,118.67	1/4	842.05	1/4	566.23	1/4	286.94	1/4		
1/2	2,764.54	1/2	2,488.94	1/2	2,212.47	1/2	1,936.12	1/2	1,660.12	1/2	1,386.76	1/2	1,112.90	1/2	836.31	1/2	560.46	1/2	281.06	1/2		
3/4	2,758.82	3/4	2,483.18	3/4	2,206.71	3/4	1,930.37	3/4	1,654.40	3/4	1,380.99	3/4	1,107.13	3/4	830.57	3/4	554.69	3/4	275.19	3/4		
9	2,753.10	9	2,477.42	9	2,200.96	9	1,924.62	9	1,648.69	9	1,375.23	9	1,101.36	9	824.83	9	548.92	9	269.32	9		
1/4	2,747.38	1/4	2,471.66	1/4	2,195.20	1/4	1,918.86	1/4	1,642.98	1/4	1,369.46	1/4	1,095.59	1/4	819.09	1/4	543.15	1/4	263.44	1/4		
1/2	2,741.66	1/2	2,465.90	1/2	2,189.45	1/2	1,913.11	1/2	1,637.27	1/2	1,363.69	1/2	1,089.82	1/2	813.35	1/2	537.38	1/2	257.55	1/2		
3/4	2,735.94	3/4	2,460.14	3/4	2,183.69	3/4	1,907.35	3/4	1,631.56	3/4	1,357.93	3/4	1,084.05	3/4	807.60	3/4	531.61	3/4	251.67	3/4		
10	2,730.22	10	2,454.38	10	2,177.94	10	1,901.60	10	1,625.85	10	1,352.16	10	1,078.28	10	801.86	10	525.84	10	245.79	10		
1/4	2,724.50	1/4	2,448.62	1/4	2,172.18	1/4	1,895.84	1/4	1,620.16	1/4	1,346.39	1/4	1,072.51	1/4	796.13	1/4	520.07	1/4	239.97	1/4		
1/2	2,718.78	1/2	2,442.86	1/2	2,166.42	1/2	1,890.09	1/2	1,614.47	1/2	1,340.63	1/2	1,066.74	1/2	790.39	1/2	514.30	1/2	234.15	1/2		
3/4	2,713.06	3/4	2,437.10	3/4	2,160.66	3/4	1,884.34	3/4	1,608.77	3/4	1,334.86	3/4	1,060.97	3/4	784.65	3/4	508.53	3/4	228.34	3/4		
11	2,707.34	11	2,431.34	11	2,154.89	11	1,878.58	11	1,603.08	11	1,329.09	11	1,055.20	11	778.91	11	502.76	11	222.52	11		
1/4	2,701.62	1/4	2,425.58	1/4	2,149.13	1/4	1,872.82	1/4	1,597.39	1/4	1,323.33	1/4	1,049.43	1/4	773.18	1/4	496.99	1/4	216.71	1/4		
1/2	2,695.90	1/2	2,419.82	1/2	2,143.37	1/2	1,867.06	1/2	1,591.70	1/2	1,317.56	1/2	1,043.66	1/2	767.44	1/2	491.22	1/2	210.91	1/2		
3/4	2,690.18	3/4	2,414.06	3/4	2,137.61	3/4	1,861.29	3/4	1,586.01	3/4	1,311.79	3/4	1,037.90	3/4	761.70	3/4	485.46	3/4	205.10	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'-08" FORWARD OF AFT BULKHEAD
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF



BARGE "MM 16"

INNAGE (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	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-4/8	00-4/8
1 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-4/8	00-4/8
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	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 00-7/8	00-7/8
3 STBD	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-3/4	00-3/4	- 00-7/8	00-7/8
4 PORT	- 00-7/8	00-7/8	- 01-3/4	01-3/4	- 02-5/8	02-5/8	- 03-1/2	03-1/2	- 04-1/4	04-1/4	- 05-1/8	05-1/8
4 STBD	- 00-7/8	00-7/8	- 01-3/4	01-3/4	- 02-5/8	02-5/8	- 03-4/8	03-4/8	- 04-1/4	04-1/4	- 05-1/8	05-1/8

(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 00-1/4"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED INNAGE IS 4'-00 1/4"

LENGTH BETWEEN DRAFT MARKS: 237'-00"

April 24, 2014

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MM 16"

INNAGE (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	00-1/8	- 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	00-0/8	- 00-0/8	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	- 03-0/8	03-0/8	- 03-3/4	03-3/4	- 04-1/2	04-1/2
4 STBD	- 00-3/4	00-3/4	- 01-1/2	01-1/2	- 02-1/4	02-1/4	- 03-0/8	03-0/8	- 03-3/4	03-3/4	- 04-1/2	04-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

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

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 2 PORT IS - 00-1/8"
 FOR A MEASURED INNAGE GAUGE OF 4'-00" ON 2 PORT, THE TRIM CORRECTED INNAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 237'-00"

April 24, 2014

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "MM 16" MAGNOLIA BARGE

1 PORT
INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-08"

N	0 FT.	N	1 FT.	N	2 FT.	N	3 FT.	N	4 FT.	N	5 FT.	N	6 FT.	N	7 FT.	N	8 FT.	N	9 FT.	N	10 FT.
0	14.88	0	199.37	0	437.52	0	689.00	0	941.90	0	1,194.88	0	1,448.62	0	1,702.42	0	1,956.18	0	2,209.94	0	2,462.74
1/4	17.50	1/4	203.76	1/4	442.81	1/4	694.23	1/4	947.16	1/4	1,200.17	1/4	1,453.90	1/4	1,707.71	1/4	1,961.47	1/4	2,215.22	1/4	2,467.99
1/2	20.12	1/2	208.15	1/2	448.09	1/2	699.45	1/2	952.41	1/2	1,205.46	1/2	1,459.19	1/2	1,713.00	1/2	1,966.75	1/2	2,220.51	1/2	2,473.23
3/4	22.74	3/4	212.54	3/4	453.38	3/4	704.68	3/4	957.66	3/4	1,210.75	3/4	1,464.48	3/4	1,718.28	3/4	1,972.04	3/4	2,225.80	3/4	2,478.48
1	25.36	1	216.93	1	458.67	1	709.90	1	962.92	1	1,216.03	1	1,469.77	1	1,723.57	1	1,977.33	1	2,231.08	1	2,483.73
1 1/4	28.78	1 1/4	221.40	1 1/4	463.96	1 1/4	715.14	1 1/4	968.17	1 1/4	1,221.32	1 1/4	1,475.05	1 1/4	1,728.86	1 1/4	1,982.61	1 1/4	2,236.37	1 1/4	2,488.97
1 1/2	32.20	1 1/2	225.87	1 1/2	469.25	1 1/2	720.37	1 1/2	973.43	1 1/2	1,226.61	1 1/2	1,480.34	1 1/2	1,734.15	1 1/2	1,987.90	1 1/2	2,241.66	1 1/2	2,494.22
3 1/4	35.62	3 1/4	230.35	3 1/4	474.54	3 1/4	725.60	3 1/4	978.68	3 1/4	1,231.90	3 1/4	1,485.63	3 1/4	1,739.43	3 1/4	1,993.19	3 1/4	2,246.94	3 1/4	2,499.47
2	39.03	2	234.82	2	479.83	2	730.84	2	983.94	2	1,237.19	2	1,490.92	2	1,744.72	2	1,998.47	2	2,252.23	2	2,504.71
2 1/4	42.56	2 1/4	239.37	2 1/4	485.11	2 1/4	736.07	2 1/4	989.19	2 1/4	1,242.46	2 1/4	1,496.20	2 1/4	1,750.01	2 1/4	2,003.76	2 1/4	2,257.52	2 1/4	2,509.96
2 1/2	46.09	2 1/2	243.93	2 1/2	490.40	2 1/2	741.30	2 1/2	994.44	2 1/2	1,247.74	2 1/2	1,501.49	2 1/2	1,755.30	2 1/2	2,009.05	2 1/2	2,262.80	2 1/2	2,515.21
3 1/4	49.62	3 1/4	248.48	3 1/4	495.69	3 1/4	746.54	3 1/4	999.69	3 1/4	1,253.02	3 1/4	1,506.78	3 1/4	1,760.58	3 1/4	2,014.33	3 1/4	2,268.09	3 1/4	2,520.45
3	53.15	3	253.04	3	500.98	3	751.77	3	1,004.94	3	1,258.30	3	1,512.07	3	1,765.87	3	2,019.62	3	2,273.38	3	2,525.70
3 1/4	56.77	3 1/4	257.87	3 1/4	506.20	3 1/4	757.02	3 1/4	1,010.19	3 1/4	1,263.58	3 1/4	1,517.35	3 1/4	1,771.16	3 1/4	2,024.91	3 1/4	2,278.66	3 1/4	2,530.95
1 1/2	60.39	1 1/2	262.71	1 1/2	511.43	1 1/2	762.28	1 1/2	1,015.44	1 1/2	1,268.86	1 1/2	1,522.64	1 1/2	1,776.45	1 1/2	2,030.19	1 1/2	2,283.95	1 1/2	2,536.19
3 1/4	64.01	3 1/4	267.55	3 1/4	516.65	3 1/4	767.53	3 1/4	1,020.69	3 1/4	1,274.13	3 1/4	1,527.93	3 1/4	1,781.73	3 1/4	2,035.48	3 1/4	2,289.24	3 1/4	2,541.44
4	67.63	4	272.39	4	521.87	4	772.79	4	1,025.94	4	1,279.41	4	1,533.22	4	1,787.02	4	2,040.77	4	2,294.52	4	2,546.69
4 1/4	71.34	4 1/4	277.30	4 1/4	527.10	4 1/4	778.04	4 1/4	1,031.19	4 1/4	1,284.70	4 1/4	1,538.61	4 1/4	1,792.31	4 1/4	2,046.05	4 1/4	2,299.81	4 1/4	2,551.93
1 1/2	75.05	1 1/2	282.22	1 1/2	532.32	1 1/2	783.30	1 1/2	1,036.45	1 1/2	1,289.99	1 1/2	1,543.79	1 1/2	1,797.60	1 1/2	2,051.34	1 1/2	2,305.10	1 1/2	2,557.18
3 1/4	78.76	3 1/4	287.14	3 1/4	537.54	3 1/4	788.55	3 1/4	1,041.70	3 1/4	1,295.28	3 1/4	1,549.08	3 1/4	1,802.89	3 1/4	2,056.63	3 1/4	2,310.38	3 1/4	2,562.43
5	82.47	5	292.06	5	542.76	5	793.81	5	1,046.96	5	1,300.56	5	1,554.37	5	1,808.17	5	2,061.91	5	2,315.67	5	2,567.68
1 1/4	86.37	1 1/4	297.06	1 1/4	547.98	1 1/4	799.10	1 1/4	1,052.21	1 1/4	1,305.85	1 1/4	1,559.66	1 1/4	1,813.46	1 1/4	2,067.20	1 1/4	2,320.96	1 1/4	2,572.52
1 1/2	90.27	1 1/2	302.06	1 1/2	553.20	1 1/2	804.39	1 1/2	1,057.46	1 1/2	1,311.14	1 1/2	1,564.94	1 1/2	1,818.75	1 1/2	2,072.49	1 1/2	2,326.24	1 1/2	2,577.37
3 1/4	94.17	3 1/4	307.07	3 1/4	558.42	3 1/4	809.68	3 1/4	1,062.72	3 1/4	1,316.43	3 1/4	1,570.23	3 1/4	1,824.04	3 1/4	2,077.77	3 1/4	2,331.53	3 1/4	2,582.22
6	98.07	6	312.07	6	563.65	6	814.97	6	1,067.97	6	1,321.71	6	1,575.52	6	1,829.32	6	2,083.06	6	2,336.82	6	2,587.06
1 1/4	102.15	1 1/4	317.15	1 1/4	568.87	1 1/4	820.25	1 1/4	1,073.26	1 1/4	1,327.00	1 1/4	1,580.81	1 1/4	1,834.61	1 1/4	2,088.35	1 1/4	2,342.06	1 1/4	2,591.03
1 1/2	106.23	1 1/2	322.23	1 1/2	574.09	1 1/2	825.54	1 1/2	1,078.55	1 1/2	1,332.29	1 1/2	1,586.09	1 1/2	1,839.90	1 1/2	2,093.63	1 1/2	2,347.31	1 1/2	2,594.99
3 1/4	110.30	3 1/4	327.32	3 1/4	579.31	3 1/4	830.83	3 1/4	1,083.84	3 1/4	1,337.58	3 1/4	1,591.38	3 1/4	1,845.19	3 1/4	2,098.92	3 1/4	2,352.56	3 1/4	2,598.96
7	114.38	7	332.40	7	584.53	7	836.12	7	1,089.12	7	1,342.86	7	1,596.67	7	1,850.47	7	2,104.21	7	2,357.80	7	2,602.92
1 1/4	118.54	1 1/4	337.57	1 1/4	589.75	1 1/4	841.41	1 1/4	1,094.41	1 1/4	1,348.15	1 1/4	1,601.96	1 1/4	1,855.76	1 1/4	2,109.49	1 1/4	2,363.05	1 1/4	2,606.01
1 1/2	122.70	1 1/2	342.73	1 1/2	594.98	1 1/2	846.70	1 1/2	1,099.70	1 1/2	1,353.44	1 1/2	1,607.24	1 1/2	1,861.05	1 1/2	2,114.78	1 1/2	2,368.30	1 1/2	2,609.26
3 1/4	126.86	3 1/4	347.90	3 1/4	600.20	3 1/4	851.99	3 1/4	1,104.99	3 1/4	1,358.73	3 1/4	1,612.53	3 1/4	1,866.34	3 1/4	2,120.07	3 1/4	2,373.54	3 1/4	2,614.51
8	131.02	8	353.06	8	605.42	8	857.28	8	1,110.28	8	1,364.01	8	1,617.82	8	1,871.62	8	2,125.35	8	2,378.79	8	2,619.76
1 1/4	135.26	1 1/4	358.31	1 1/4	610.64	1 1/4	862.57	1 1/4	1,115.56	1 1/4	1,369.30	1 1/4	1,623.11	1 1/4	1,876.91	1 1/4	2,130.64	1 1/4	2,384.04	1 1/4	2,625.01
1 1/2	139.50	1 1/2	363.56	1 1/2	615.86	1 1/2	867.86	1 1/2	1,120.85	1 1/2	1,374.59	1 1/2	1,628.39	1 1/2	1,882.20	1 1/2	2,135.93	1 1/2	2,389.28	1 1/2	2,630.26
3 1/4	143.74	3 1/4	368.80	3 1/4	621.08	3 1/4	873.14	3 1/4	1,126.14	3 1/4	1,379.88	3 1/4	1,633.68	3 1/4	1,887.49	3 1/4	2,141.21	3 1/4	2,394.53	3 1/4	2,635.51
9	147.98	9	374.05	9	626.30	9	878.43	9	1,131.43	9	1,385.16	9	1,638.97	9	1,892.77	9	2,146.50	9	2,399.78	9	2,640.76
1 1/4	152.31	1 1/4	379.34	1 1/4	631.53	1 1/4	883.72	1 1/4	1,136.72	1 1/4	1,390.45	1 1/4	1,644.26	1 1/4	1,898.06	1 1/4	2,151.79	1 1/4	2,405.02	1 1/4	2,646.01
1 1/2	156.65	1 1/2	384.63	1 1/2	636.75	1 1/2	889.01	1 1/2	1,142.00	1 1/2	1,395.74	1 1/2	1,649.54	1 1/2	1,903.35	1 1/2	2,157.07	1 1/2	2,410.27	1 1/2	2,651.26
3 1/4	160.98	3 1/4	389.92	3 1/4	641.98	3 1/4	894.30	3 1/4	1,147.29	3 1/4	1,401.03	3 1/4	1,654.83	3 1/4	1,908.64	3 1/4	2,162.36	3 1/4	2,415.52	3 1/4	2,656.51
10	165.31	10	395.21	10	647.20	10	899.59	10	1,152.58	10	1,406.32	10	1,660.12	10	1,913.92	10	2,167.64	10	2,420.76	10	2,661.76
1 1/4	169.53	1 1/4	400.50	1 1/4	652.42	1 1/4	904.88	1 1/4	1,157.87	1 1/4	1,411.60	1 1/4	1,665.41	1 1/4	1,919.21	1 1/4	2,172.93	1 1/4	2,426.01	1 1/4	2,667.01
1 1/2	173.75	1 1/2	405.78	1 1/2	657.65	1 1/2	910.17	1 1/2	1,163.16	1 1/2	1,416.89	1 1/2	1,670.70	1 1/2	1,924.49	1 1/2	2,178.22	1 1/2	2,431.26	1 1/2	2,672.26
3 1/4	177.96	3 1/4	411.07	3 1/4	662.88	3 1/4	915.46	3 1/4	1,168.44	3 1/4	1,422.18	3 1/4	1,675.98	3 1/4	1,929.77	3 1/4	2,183.50	3 1/4	2,436.51	3 1/4	2,677.51
11	182.18	11	416.36	11	668.10	11	920.75	11	1,173.73	11	1,427.47	11	1,681.27	11	1,935.06	11	2,188.79	11	2,441.75	11	2,682.76
1 1/4	186.47	1 1/4	421.65	1 1/4	673.33	1 1/4	926.03	1 1/4	1,179.02	1 1/4	1,432.75	1 1/4	1,686.56	1 1/4	1,940.34	1 1/4	2,194.08	1 1/4	2,447.00	1 1/4	2,688.01
1 1/2	190.77	1 1/2	426.94	1 1/2	678.55	1 1/2	931.32	1 1/2	1,184.31	1 1/2	1,438.04	1 1/2	1,691.85	1 1/2	1,945.62	1 1/2	2,199.36	1 1/2	2,452.25	1 1/2	2,693.26
3 1/4	195.07	3 1/4	432.23	3 1/4	683.78	3 1/4	936.61	3 1/4	1,189.59	3 1/4	1,443.33	3 1/4	1,697.13	3 1/4	1,950.90	3 1/4	2,204.65	3 1/4	2,457.49	3 1/4	2,698.51

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 30'-00" FORWARD OF AFT BULKHEAD.
 GAUGE POINT: (6" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 32'-00" FORWARD OF AFT BULKHEAD

STRAPPED: 05/06/2014 CL
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 PRINTED: 05/07/2014 SW
 CANCELS AND SUPERCEDES
 ALL PRIOR TO 05/2014

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2082
Pearland, Texas 77588
<http://www.pmacorp.net>



BARGE "MM 16" MAGNOLIA BARGE

1 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-08"

N	0 FT.	N	1 FT.	N	2 FT.	N	3 FT.	N	4 FT.	N	5 FT.	N	6 FT.	N	7 FT.	N	8 FT.	N	9 FT.	N	10 FT.
0	14.86	0	199.26	0	437.22	0	689.72	0	943.08	0	1,195.84	0	1,449.36	0	1,702.95	0	1,956.49	0	2,210.03	0	2,462.61
1/4	17.48	1/4	203.65	1/4	442.51	1/4	694.97	1/4	946.33	1/4	1,201.12	1/4	1,454.64	1/4	1,708.23	1/4	1,961.77	1/4	2,215.31	1/4	2,467.85
1/2	20.10	1/2	208.04	1/2	447.79	1/2	700.23	1/2	953.58	1/2	1,206.41	1/2	1,459.93	1/2	1,713.52	1/2	1,967.05	1/2	2,220.59	1/2	2,473.09
3/4	22.72	3/4	212.42	3/4	453.07	3/4	705.48	3/4	958.83	3/4	1,211.69	3/4	1,465.21	3/4	1,718.80	3/4	1,972.33	3/4	2,225.87	3/4	2,478.33
1	25.34	1	216.81	1	458.36	1	710.74	1	964.08	1	1,216.97	1	1,470.49	1	1,724.08	1	1,977.62	1	2,231.16	1	2,483.58
1/4	28.76	1/4	221.28	1/4	463.64	1/4	716.00	1/4	969.33	1/4	1,222.26	1/4	1,475.78	1/4	1,729.36	1/4	1,982.90	1/4	2,236.44	1/4	2,488.82
1/2	32.18	1/2	225.75	1/2	468.93	1/2	721.26	1/2	974.58	1/2	1,227.54	1/2	1,481.06	1/2	1,734.65	1/2	1,988.18	1/2	2,241.72	1/2	2,494.06
3/4	35.60	3/4	230.22	3/4	474.21	3/4	726.53	3/4	979.83	3/4	1,232.82	3/4	1,486.34	3/4	1,739.93	3/4	1,993.46	3/4	2,247.00	3/4	2,499.30
2	39.01	2	234.69	2	479.49	2	731.79	2	985.08	2	1,238.11	2	1,491.63	2	1,745.21	2	1,998.74	2	2,252.28	2	2,504.55
1/4	42.54	1/4	239.24	1/4	484.78	1/4	737.05	1/4	990.32	1/4	1,243.38	1/4	1,496.91	1/4	1,750.50	1/4	2,004.03	1/4	2,257.57	1/4	2,509.79
1/2	46.07	1/2	243.79	1/2	490.06	1/2	742.31	1/2	995.57	1/2	1,248.66	1/2	1,502.19	1/2	1,755.78	1/2	2,009.31	1/2	2,262.85	1/2	2,515.03
3/4	49.60	3/4	248.34	3/4	495.35	3/4	747.58	3/4	1,000.82	3/4	1,253.93	3/4	1,507.47	3/4	1,761.06	3/4	2,014.59	3/4	2,268.13	3/4	2,520.27
3	53.13	3	252.90	3	500.63	3	752.84	3	1,006.06	3	1,259.20	3	1,512.76	3	1,766.35	3	2,019.87	3	2,273.41	3	2,525.51
1/4	56.75	1/4	257.73	1/4	505.88	1/4	758.12	1/4	1,011.31	1/4	1,264.48	1/4	1,518.04	1/4	1,771.63	1/4	2,025.15	1/4	2,278.69	1/4	2,530.76
1/2	60.36	1/2	262.56	1/2	511.14	1/2	763.41	1/2	1,016.55	1/2	1,269.75	1/2	1,523.32	1/2	1,776.91	1/2	2,030.44	1/2	2,283.98	1/2	2,536.00
3/4	63.98	3/4	267.40	3/4	516.39	3/4	768.69	3/4	1,021.80	3/4	1,275.03	3/4	1,528.61	3/4	1,782.20	3/4	2,035.72	3/4	2,289.26	3/4	2,541.24
4	67.60	4	272.23	4	521.64	4	773.98	4	1,027.05	4	1,280.30	4	1,533.89	4	1,787.48	4	2,041.00	4	2,294.54	4	2,546.48
1/4	71.31	1/4	277.14	1/4	526.90	1/4	779.26	1/4	1,032.29	1/4	1,285.58	1/4	1,539.17	1/4	1,792.76	1/4	2,046.28	1/4	2,299.82	1/4	2,551.72
1/2	75.02	1/2	282.06	1/2	532.15	1/2	784.54	1/2	1,037.54	1/2	1,290.87	1/2	1,544.46	1/2	1,798.05	1/2	2,051.56	1/2	2,305.11	1/2	2,556.97
3/4	78.72	3/4	286.97	3/4	537.40	3/4	789.83	3/4	1,042.79	3/4	1,296.15	3/4	1,549.74	3/4	1,803.33	3/4	2,056.85	3/4	2,310.39	3/4	2,562.21
5	82.43	5	291.89	5	542.65	5	795.11	5	1,048.04	5	1,301.43	5	1,555.02	5	1,808.61	5	2,062.13	5	2,315.67	5	2,567.45
1/4	86.33	1/4	296.89	1/4	547.90	1/4	800.40	1/4	1,053.29	1/4	1,306.72	1/4	1,560.31	1/4	1,813.89	1/4	2,067.41	1/4	2,320.85	1/4	2,572.29
1/2	90.23	1/2	301.88	1/2	553.15	1/2	805.68	1/2	1,058.54	1/2	1,312.00	1/2	1,565.59	1/2	1,819.18	1/2	2,072.69	1/2	2,326.23	1/2	2,577.14
3/4	94.13	3/4	306.88	3/4	558.40	3/4	810.97	3/4	1,063.79	3/4	1,317.28	3/4	1,570.87	3/4	1,824.46	3/4	2,077.98	3/4	2,331.52	3/4	2,581.98
6	98.03	6	311.88	6	563.65	6	816.25	6	1,069.04	6	1,322.57	6	1,576.15	6	1,829.74	6	2,083.26	6	2,336.80	6	2,586.82
1/4	102.10	1/4	316.86	1/4	568.90	1/4	821.54	1/4	1,074.33	1/4	1,327.85	1/4	1,581.44	1/4	1,835.03	1/4	2,088.54	1/4	2,342.04	1/4	2,590.78
1/2	106.18	1/2	322.04	1/2	574.15	1/2	826.82	1/2	1,079.61	1/2	1,333.13	1/2	1,586.72	1/2	1,840.31	1/2	2,093.82	1/2	2,347.28	1/2	2,594.75
3/4	110.25	3/4	327.12	3/4	579.41	3/4	832.10	3/4	1,084.89	3/4	1,338.42	3/4	1,592.00	3/4	1,845.59	3/4	2,099.10	3/4	2,352.52	3/4	2,598.71
7	114.33	7	332.20	7	584.66	7	837.39	7	1,090.18	7	1,343.70	7	1,597.29	7	1,850.88	7	2,104.39	7	2,357.77	7	2,602.67
1/4	118.48	1/4	337.36	1/4	589.91	1/4	842.67	1/4	1,095.46	1/4	1,348.98	1/4	1,602.57	1/4	1,856.16	1/4	2,109.67	1/4	2,363.01	1/4	2,605.75
1/2	122.64	1/2	342.52	1/2	595.16	1/2	847.96	1/2	1,100.74	1/2	1,354.26	1/2	1,607.85	1/2	1,861.44	1/2	2,114.95	1/2	2,368.25	1/2	2,609.99
3/4	126.80	3/4	347.68	3/4	600.41	3/4	853.24	3/4	1,106.03	3/4	1,359.55	3/4	1,613.14	3/4	1,866.73	3/4	2,120.23	3/4	2,373.49	3/4	2,615.23
8	130.95	8	352.84	8	605.66	8	858.53	8	1,111.31	8	1,364.83	8	1,618.42	8	1,872.01	8	2,125.51	8	2,378.73	8	2,620.47
1/4	135.19	1/4	358.08	1/4	610.91	1/4	863.81	1/4	1,116.59	1/4	1,370.11	1/4	1,623.70	1/4	1,877.29	1/4	2,130.80	1/4	2,383.98	1/4	2,625.71
1/2	139.43	1/2	363.33	1/2	616.16	1/2	869.09	1/2	1,121.88	1/2	1,375.40	1/2	1,628.99	1/2	1,882.57	1/2	2,136.08	1/2	2,389.22	1/2	2,630.95
3/4	143.67	3/4	368.57	3/4	621.41	3/4	874.38	3/4	1,127.16	3/4	1,380.68	3/4	1,634.27	3/4	1,887.86	3/4	2,141.36	3/4	2,394.46	3/4	2,636.19
9	147.91	9	373.81	9	626.66	9	879.66	9	1,132.44	9	1,385.96	9	1,639.55	9	1,893.14	9	2,146.64	9	2,399.70	9	2,641.43
1/4	152.24	1/4	379.10	1/4	631.92	1/4	884.95	1/4	1,137.72	1/4	1,391.25	1/4	1,644.84	1/4	1,898.42	1/4	2,151.92	1/4	2,404.95	1/4	2,646.67
1/2	156.57	1/2	384.38	1/2	637.17	1/2	890.23	1/2	1,143.01	1/2	1,396.53	1/2	1,650.12	1/2	1,903.71	1/2	2,157.21	1/2	2,410.19	1/2	2,651.91
3/4	160.90	3/4	389.66	3/4	642.42	3/4	895.52	3/4	1,148.29	3/4	1,401.81	3/4	1,655.40	3/4	1,908.99	3/4	2,162.49	3/4	2,415.43	3/4	2,657.15
10	165.23	10	394.95	10	647.68	10	900.80	10	1,153.57	10	1,407.10	10	1,660.68	10	1,914.27	10	2,167.77	10	2,420.67	10	2,662.39
1/4	169.44	1/4	400.23	1/4	652.93	1/4	906.09	1/4	1,158.86	1/4	1,412.38	1/4	1,665.97	1/4	1,919.55	1/4	2,173.05	1/4	2,425.91	1/4	2,667.63
1/2	173.66	1/2	405.52	1/2	658.19	1/2	911.37	1/2	1,164.14	1/2	1,417.66	1/2	1,671.25	1/2	1,924.83	1/2	2,178.34	1/2	2,431.16	1/2	2,672.87
3/4	177.87	3/4	410.80	3/4	663.44	3/4	916.65	3/4	1,169.42	3/4	1,422.94	3/4	1,676.53	3/4	1,930.10	3/4	2,183.62	3/4	2,436.40	3/4	2,678.11
11	182.08	11	416.09	11	668.70	11	921.94	11	1,174.71	11	1,428.23	11	1,681.82	11	1,935.38	11	2,188.90	11	2,441.64	11	2,683.35
1/4	186.38	1/4	421.37	1/4	673.95	1/4	927.22	1/4	1,179.99	1/4	1,433.51	1/4	1,687.10	1/4	1,940.66	1/4	2,194.18	1/4	2,446.88	1/4	2,688.59
1/2	190.67	1/2	426.65	1/2	679.21	1/2	932.51	1/2	1,185.27	1/2	1,438.79	1/2	1,692.38	1/2	1,945.93	1/2	2,199.46	1/2	2,452.12	1/2	2,693.83
3/4	194.97	3/4	431.94	3/4	684.46	3/4	937.79	3/4	1,190.56	3/4	1,444.08	3/4	1,697.67	3/4	1,951.21	3/4	2,204.75	3/4	2,457.37	3/4	2,700.07

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CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
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BARGE "MM 16" MAGNOLIA BARGE

2 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-08 1/4"

N	0 FT.	N	1 FT.	N	2 FT.	N	3 FT.	N	4 FT.	N	5 FT.	N	6 FT.	N	7 FT.	N	8 FT.	N	9 FT.	N	10 FT.
0	16.23	0	283.31	0	558.90	0	826.24	0	1,098.77	0	1,373.74	0	1,651.83	0	1,929.99	0	2,208.10	0	2,486.21	0	2,763.36
1/4	20.95	1/4	288.89	1/4	564.70	1/4	831.74	1/4	1,104.43	1/4	1,379.53	1/4	1,657.62	1/4	1,935.78	1/4	2,213.89	1/4	2,492.00	1/4	2,769.11
1/2	25.67	1/2	294.47	1/2	570.49	1/2	837.23	1/2	1,110.10	1/2	1,385.33	1/2	1,663.42	1/2	1,941.58	1/2	2,219.69	1/2	2,497.80	1/2	2,774.87
3/4	30.38	3/4	300.04	3/4	576.29	3/4	842.73	3/4	1,115.76	3/4	1,391.13	3/4	1,669.21	3/4	1,947.37	3/4	2,225.48	3/4	2,503.59	3/4	2,780.62
1	35.10	1	305.62	1	582.09	1	848.23	1	1,121.42	1	1,396.92	1	1,675.01	1	1,953.17	1	2,231.27	1	2,509.39	1	2,786.38
1/4	40.61	1/4	311.20	1/4	587.88	1/4	853.73	1/4	1,127.09	1/4	1,402.72	1/4	1,680.80	1/4	1,958.96	1/4	2,237.07	1/4	2,515.18	1/4	2,792.13
1/2	46.11	1/2	316.78	1/2	593.68	1/2	859.23	1/2	1,132.75	1/2	1,408.51	1/2	1,686.60	1/2	1,964.76	1/2	2,242.86	1/2	2,520.97	1/2	2,797.88
3/4	51.61	3/4	322.35	3/4	599.47	3/4	864.74	3/4	1,138.41	3/4	1,414.31	3/4	1,692.39	3/4	1,970.55	3/4	2,248.66	3/4	2,526.77	3/4	2,803.64
2	57.12	2	327.93	2	605.27	2	870.24	2	1,144.07	2	1,420.10	2	1,698.19	2	1,976.35	2	2,254.45	2	2,532.56	2	2,809.39
1/4	62.65	1/4	333.51	1/4	611.07	1/4	875.75	1/4	1,149.73	1/4	1,425.89	1/4	1,703.98	1/4	1,982.14	1/4	2,260.24	1/4	2,538.36	1/4	2,815.14
1/2	68.19	1/2	339.09	1/2	616.86	1/2	881.25	1/2	1,155.39	1/2	1,431.67	1/2	1,709.78	1/2	1,987.94	1/2	2,266.04	1/2	2,544.15	1/2	2,820.90
3/4	73.72	3/4	344.67	3/4	622.66	3/4	886.76	3/4	1,161.05	3/4	1,437.46	3/4	1,715.57	3/4	1,993.73	3/4	2,271.83	3/4	2,549.94	3/4	2,826.65
3	79.26	3	350.24	3	628.46	3	892.26	3	1,166.71	3	1,443.25	3	1,721.37	3	1,999.53	3	2,277.63	3	2,555.74	3	2,832.41
1/4	84.80	1/4	355.04	1/4	633.95	1/4	897.79	1/4	1,172.37	1/4	1,449.03	1/4	1,727.16	1/4	2,005.32	1/4	2,283.42	1/4	2,561.53	1/4	2,838.16
1/2	90.34	1/2	361.83	1/2	639.44	1/2	903.31	1/2	1,178.03	1/2	1,454.82	1/2	1,732.96	1/2	2,011.12	1/2	2,289.21	1/2	2,567.33	1/2	2,843.91
3/4	95.88	3/4	367.63	3/4	644.94	3/4	908.84	3/4	1,183.69	3/4	1,460.60	3/4	1,738.75	3/4	2,016.91	3/4	2,295.01	3/4	2,573.12	3/4	2,849.67
4	101.43	4	373.43	4	650.43	4	914.37	4	1,189.35	4	1,466.39	4	1,744.55	4	2,022.71	4	2,300.80	4	2,578.91	4	2,855.42
1/4	106.98	1/4	379.22	1/4	655.92	1/4	919.89	1/4	1,195.01	1/4	1,472.18	1/4	1,750.34	1/4	2,028.50	1/4	2,306.60	1/4	2,584.71	1/4	2,861.18
1/2	112.54	1/2	385.02	1/2	661.42	1/2	925.42	1/2	1,200.68	1/2	1,477.98	1/2	1,756.14	1/2	2,034.30	1/2	2,312.39	1/2	2,590.50	1/2	2,866.93
3/4	118.09	3/4	390.82	3/4	666.91	3/4	930.94	3/4	1,206.34	3/4	1,483.77	3/4	1,761.93	3/4	2,040.09	3/4	2,318.18	3/4	2,596.30	3/4	2,872.68
5	123.64	5	396.61	5	672.40	5	936.47	5	1,212.00	5	1,489.57	5	1,767.73	5	2,045.89	5	2,323.98	5	2,602.09	5	2,878.44
1/4	129.32	1/4	402.41	1/4	677.90	1/4	942.27	1/4	1,217.67	1/4	1,495.36	1/4	1,773.52	1/4	2,051.68	1/4	2,329.77	1/4	2,607.88	1/4	2,883.75
1/2	134.99	1/2	408.20	1/2	683.39	1/2	948.06	1/2	1,223.33	1/2	1,501.16	1/2	1,779.32	1/2	2,057.48	1/2	2,335.57	1/2	2,613.68	1/2	2,889.06
3/4	140.66	3/4	414.00	3/4	688.88	3/4	953.86	3/4	1,228.99	3/4	1,506.95	3/4	1,785.11	3/4	2,063.27	3/4	2,341.36	3/4	2,619.47	3/4	2,894.37
6	146.33	6	419.80	6	694.37	6	959.66	6	1,234.65	6	1,512.75	6	1,790.91	6	2,069.07	6	2,347.15	6	2,625.27	6	2,899.68
1/4	152.11	1/4	425.59	1/4	699.87	1/4	965.45	1/4	1,240.45	1/4	1,518.54	1/4	1,796.70	1/4	2,074.86	1/4	2,352.95	1/4	2,631.02	1/4	2,904.03
1/2	157.88	1/2	431.39	1/2	705.36	1/2	971.25	1/2	1,246.25	1/2	1,524.34	1/2	1,802.50	1/2	2,080.66	1/2	2,358.74	1/2	2,636.77	1/2	2,908.37
3/4	163.66	3/4	437.18	3/4	710.85	3/4	977.05	3/4	1,252.04	3/4	1,530.13	3/4	1,808.29	3/4	2,086.45	3/4	2,364.54	3/4	2,642.53	3/4	2,912.72
7	169.43	7	442.98	7	716.34	7	982.84	7	1,257.84	7	1,535.93	7	1,814.09	7	2,092.25	7	2,370.33	7	2,648.28	7	2,917.07
1/4	175.21	1/4	448.78	1/4	721.84	1/4	988.64	1/4	1,263.63	1/4	1,541.72	1/4	1,819.88	1/4	2,098.04	1/4	2,376.12	1/4	2,654.04	1/4	2,921.45
1/2	180.98	1/2	454.57	1/2	727.33	1/2	994.43	1/2	1,269.43	1/2	1,547.52	1/2	1,825.68	1/2	2,103.84	1/2	2,381.92	1/2	2,659.79	1/2	2,925.81
3/4	186.76	3/4	460.37	3/4	732.82	3/4	1,000.23	3/4	1,275.22	3/4	1,553.31	3/4	1,831.47	3/4	2,109.63	3/4	2,387.71	3/4	2,665.54	3/4	2,930.62
8	192.53	8	466.16	8	738.32	8	1,006.03	8	1,281.02	8	1,559.11	8	1,837.27	8	2,115.43	8	2,393.51	8	2,671.30	8	2,935.41
1/4	198.31	1/4	471.96	1/4	743.81	1/4	1,011.82	1/4	1,286.81	1/4	1,564.90	1/4	1,843.06	1/4	2,121.22	1/4	2,399.30	1/4	2,677.05	1/4	2,939.99
1/2	204.08	1/2	477.76	1/2	749.30	1/2	1,017.62	1/2	1,292.61	1/2	1,570.70	1/2	1,848.86	1/2	2,127.02	1/2	2,405.09	1/2	2,682.81	1/2	2,945.31
3/4	209.86	3/4	483.55	3/4	754.79	3/4	1,023.42	3/4	1,298.40	3/4	1,576.49	3/4	1,854.65	3/4	2,132.81	3/4	2,410.89	3/4	2,688.56	3/4	2,950.62
9	215.63	9	489.35	9	760.29	9	1,029.21	9	1,304.20	9	1,582.29	9	1,860.45	9	2,138.61	9	2,416.68	9	2,694.31	9	2,955.91
1/4	221.42	1/4	495.15	1/4	765.78	1/4	1,035.01	1/4	1,309.99	1/4	1,588.08	1/4	1,866.24	1/4	2,144.40	1/4	2,422.48	1/4	2,700.07	1/4	2,961.20
1/2	227.20	1/2	500.94	1/2	771.28	1/2	1,040.81	1/2	1,315.79	1/2	1,593.88	1/2	1,872.04	1/2	2,150.20	1/2	2,428.27	1/2	2,705.82	1/2	2,966.49
3/4	232.99	3/4	506.74	3/4	776.77	3/4	1,046.60	3/4	1,321.58	3/4	1,599.67	3/4	1,877.83	3/4	2,155.99	3/4	2,434.06	3/4	2,711.57	3/4	2,971.78
10	238.78	10	512.53	10	782.27	10	1,052.40	10	1,327.38	10	1,605.47	10	1,883.63	10	2,161.79	10	2,439.86	10	2,717.33	10	2,977.07
1/4	244.34	1/4	518.33	1/4	787.76	1/4	1,058.20	1/4	1,333.17	1/4	1,611.26	1/4	1,889.42	1/4	2,167.58	1/4	2,445.65	1/4	2,723.08	1/4	2,982.36
1/2	249.91	1/2	524.13	1/2	793.26	1/2	1,063.99	1/2	1,338.97	1/2	1,617.06	1/2	1,895.22	1/2	2,173.37	1/2	2,451.45	1/2	2,728.84	1/2	2,987.65
3/4	255.48	3/4	529.92	3/4	798.76	3/4	1,069.79	3/4	1,344.76	3/4	1,622.85	3/4	1,901.01	3/4	2,179.16	3/4	2,457.24	3/4	2,734.59	3/4	2,992.96
11	261.04	11	535.72	11	804.25	11	1,075.58	11	1,350.56	11	1,628.65	11	1,906.81	11	2,184.95	11	2,463.03	11	2,740.34	11	2,998.27
1/4	266.61	1/4	541.51	1/4	809.75	1/4	1,081.38	1/4	1,356.35	1/4	1,634.44	1/4	1,912.60	1/4	2,190.73	1/4	2,468.83	1/4	2,746.10	1/4	3,003.58
1/2	272.18	1/2	547.31	1/2	815.25	1/2	1,087.18	1/2	1,362.15	1/2	1,640.24	1/2	1,918.40	1/2	2,196.52	1/2	2,474.62	1/2	2,751.85	1/2	3,008.89
3/4	277.74	3/4	553.11	3/4	820.74	3/4	1,092.97	3/4	1,367.94	3/4	1,646.03	3/4	1,924.19	3/4	2,202.31	3/4	2,480.42	3/4	2,757.61	3/4	3,014.10

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 32'-06" FORWARD OF AFT BULKHEAD.
GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 34'-06" FORWARD OF AFT BULKHEAD

STRAPPED: 05/08/2014 CL
CALCULATED: 05/08/2014 CL
PRINTED: 05/07/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2014

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



BARGE "MM 16" MAGNOLIA BARGE

2 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-07 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.	IN	10 FT.
0	16.18	0	282.51	0	557.33	0	833.60	0	1,110.75	0	1,384.94	0	1,662.24	0	1,939.62	0	2,216.94	0	2,494.27	0	2,770.63
1/4	20.89	1/4	288.08	1/4	563.10	1/4	839.35	1/4	1,116.39	1/4	1,390.72	1/4	1,668.02	1/4	1,945.40	1/4	2,222.72	1/4	2,500.04	1/4	2,776.37
1/2	25.59	1/2	293.64	1/2	568.88	1/2	845.10	1/2	1,122.04	1/2	1,396.50	1/2	1,673.80	1/2	1,951.17	1/2	2,228.50	1/2	2,505.82	1/2	2,782.11
3/4	30.30	3/4	299.20	3/4	574.66	3/4	850.85	3/4	1,127.69	3/4	1,402.28	3/4	1,679.58	3/4	1,956.95	3/4	2,234.27	3/4	2,511.60	3/4	2,787.85
1	35.00	1	304.76	1	580.44	1	856.60	1	1,133.34	1	1,408.06	1	1,685.36	1	1,962.73	1	2,240.05	1	2,517.38	1	2,793.58
1 1/4	40.49	1 1/4	310.32	1 1/4	586.22	1 1/4	862.36	1 1/4	1,138.98	1 1/4	1,413.83	1 1/4	1,691.14	1 1/4	1,968.51	1 1/4	2,245.83	1 1/4	2,523.15	1 1/4	2,799.32
1 1/2	45.98	1 1/2	315.88	1 1/2	592.00	1 1/2	868.12	1 1/2	1,144.63	1 1/2	1,419.61	1 1/2	1,696.92	1 1/2	1,974.29	1 1/2	2,251.61	1 1/2	2,528.93	1 1/2	2,805.06
3/4	51.47	3/4	321.45	3/4	597.78	3/4	873.88	3/4	1,150.28	3/4	1,425.39	3/4	1,702.69	3/4	1,980.07	3/4	2,257.38	3/4	2,534.71	3/4	2,810.80
2	56.95	2	327.01	2	603.56	2	879.64	2	1,155.92	2	1,431.17	2	1,708.47	2	1,985.85	2	2,263.16	2	2,540.49	2	2,816.53
2 1/4	62.47	2 1/4	332.57	2 1/4	609.34	2 1/4	885.39	2 1/4	1,161.57	2 1/4	1,436.94	2 1/4	1,714.25	2 1/4	1,991.62	2 1/4	2,268.94	2 1/4	2,546.26	2 1/4	2,822.27
2 1/2	67.99	2 1/2	338.13	2 1/2	615.12	2 1/2	891.15	2 1/2	1,167.21	2 1/2	1,442.71	2 1/2	1,720.03	2 1/2	1,997.40	2 1/2	2,274.72	2 1/2	2,552.04	2 1/2	2,828.01
3 1/4	73.51	3 1/4	343.69	3 1/4	620.90	3 1/4	896.91	3 1/4	1,172.86	3 1/4	1,448.48	3 1/4	1,725.81	3 1/4	2,003.18	3 1/4	2,280.49	3 1/4	2,557.82	3 1/4	2,833.75
3	79.03	3	349.26	3	626.68	3	902.67	3	1,178.50	3	1,454.25	3	1,731.59	3	2,008.96	3	2,286.27	3	2,563.60	3	2,839.49
3 1/4	84.56	3 1/4	355.04	3 1/4	632.43	3 1/4	908.45	3 1/4	1,184.14	3 1/4	1,460.02	3 1/4	1,737.37	3 1/4	2,014.74	3 1/4	2,292.05	3 1/4	2,569.37	3 1/4	2,845.22
1 1/2	90.09	1 1/2	360.82	1 1/2	638.18	1 1/2	914.23	1 1/2	1,189.79	1 1/2	1,465.79	1 1/2	1,743.14	1 1/2	2,020.52	1 1/2	2,297.83	1 1/2	2,575.15	1 1/2	2,850.96
3/4	95.61	3/4	366.60	3/4	643.93	3/4	920.01	3/4	1,195.43	3/4	1,471.56	3/4	1,748.92	3/4	2,026.30	3/4	2,303.60	3/4	2,580.93	3/4	2,856.70
4	101.14	4	372.37	4	649.67	4	925.79	4	1,201.07	4	1,477.33	4	1,754.70	4	2,032.07	4	2,309.38	4	2,586.71	4	2,862.44
4 1/4	106.68	4 1/4	378.15	4 1/4	655.42	4 1/4	931.57	4 1/4	1,206.72	4 1/4	1,483.11	4 1/4	1,760.48	4 1/4	2,037.85	4 1/4	2,315.16	4 1/4	2,592.48	4 1/4	2,868.17
1 1/2	112.22	1 1/2	383.93	1 1/2	661.17	1 1/2	937.35	1 1/2	1,212.37	1 1/2	1,488.89	1 1/2	1,766.26	1 1/2	2,043.63	1 1/2	2,320.94	1 1/2	2,598.26	1 1/2	2,873.91
3/4	117.76	3/4	389.71	3/4	666.91	3/4	943.13	3/4	1,218.01	3/4	1,494.66	3/4	1,772.04	3/4	2,049.41	3/4	2,326.72	3/4	2,604.04	3/4	2,879.65
5	123.30	5	395.49	5	672.66	5	948.91	5	1,223.66	5	1,500.44	5	1,777.82	5	2,055.19	5	2,332.49	5	2,609.82	5	2,885.39
1 1/4	128.95	1 1/4	401.27	1 1/4	678.41	1 1/4	954.69	1 1/4	1,229.31	1 1/4	1,506.22	1 1/4	1,783.59	1 1/4	2,060.97	1 1/4	2,338.27	1 1/4	2,615.60	1 1/4	2,890.68
1 1/2	134.61	1 1/2	407.05	1 1/2	684.15	1 1/2	960.47	1 1/2	1,234.96	1 1/2	1,512.00	1 1/2	1,789.37	1 1/2	2,066.75	1 1/2	2,344.05	1 1/2	2,621.37	1 1/2	2,895.98
3/4	140.26	3/4	412.83	3/4	689.90	3/4	966.25	3/4	1,240.60	3/4	1,517.78	3/4	1,795.15	3/4	2,072.52	3/4	2,349.83	3/4	2,627.15	3/4	2,901.28
6	145.92	6	418.61	6	695.65	6	972.03	6	1,246.25	6	1,523.56	6	1,800.93	6	2,078.30	6	2,355.60	6	2,632.93	6	2,906.58
1 1/4	151.68	1 1/4	424.39	1 1/4	701.39	1 1/4	977.81	1 1/4	1,252.03	1 1/4	1,529.34	1 1/4	1,806.71	1 1/4	2,084.08	1 1/4	2,361.38	1 1/4	2,638.67	1 1/4	2,910.91
1 1/2	157.44	1 1/2	430.17	1 1/2	707.14	1 1/2	983.59	1 1/2	1,257.81	1 1/2	1,535.11	1 1/2	1,812.49	1 1/2	2,089.86	1 1/2	2,367.16	1 1/2	2,644.40	1 1/2	2,915.24
3/4	163.20	3/4	435.95	3/4	712.89	3/4	989.37	3/4	1,263.59	3/4	1,540.89	3/4	1,818.27	3/4	2,095.64	3/4	2,372.94	3/4	2,650.14	3/4	2,919.58
7	168.95	7	441.73	7	718.63	7	995.15	7	1,269.36	7	1,546.67	7	1,824.04	7	2,101.42	7	2,378.71	7	2,655.88	7	2,923.91
1 1/4	174.71	1 1/4	447.51	1 1/4	724.38	1 1/4	1,000.93	1 1/4	1,275.14	1 1/4	1,552.45	1 1/4	1,829.82	1 1/4	2,107.20	1 1/4	2,384.49	1 1/4	2,661.62	1 1/4	2,927.28
1 1/2	180.47	1 1/2	453.29	1 1/2	730.12	1 1/2	1,006.71	1 1/2	1,280.92	1 1/2	1,558.23	1 1/2	1,835.60	1 1/2	2,112.97	1 1/2	2,390.27	1 1/2	2,667.35	1 1/2	2,931.58
3/4	186.23	3/4	459.07	3/4	735.87	3/4	1,012.49	3/4	1,286.70	3/4	1,564.01	3/4	1,841.38	3/4	2,118.75	3/4	2,396.05	3/4	2,673.09	3/4	2,935.88
8	191.99	8	464.85	8	741.62	8	1,018.27	8	1,292.48	8	1,569.79	8	1,847.16	8	2,124.53	8	2,401.82	8	2,678.83	8	2,940.15
1 1/4	197.75	1 1/4	470.63	1 1/4	747.36	1 1/4	1,024.05	1 1/4	1,298.26	1 1/4	1,575.57	1 1/4	1,852.94	1 1/4	2,130.31	1 1/4	2,407.60	1 1/4	2,684.57	1 1/4	2,944.42
1 1/2	203.51	1 1/2	476.41	1 1/2	753.11	1 1/2	1,029.83	1 1/2	1,304.04	1 1/2	1,581.34	1 1/2	1,858.72	1 1/2	2,136.09	1 1/2	2,413.38	1 1/2	2,690.31	1 1/2	2,948.69
3/4	209.27	3/4	482.19	3/4	758.86	3/4	1,035.61	3/4	1,309.82	3/4	1,587.12	3/4	1,864.50	3/4	2,141.87	3/4	2,419.16	3/4	2,696.04	3/4	2,952.96
9	215.03	9	487.97	9	764.60	9	1,041.39	9	1,315.60	9	1,592.90	9	1,870.27	9	2,147.65	9	2,424.93	9	2,701.78	9	2,957.23
1 1/4	220.79	1 1/4	493.75	1 1/4	770.35	1 1/4	1,047.17	1 1/4	1,321.37	1 1/4	1,598.68	1 1/4	1,876.05	1 1/4	2,153.43	1 1/4	2,430.71	1 1/4	2,707.52	1 1/4	2,961.50
1 1/2	226.56	1 1/2	499.53	1 1/2	776.10	1 1/2	1,052.95	1 1/2	1,327.15	1 1/2	1,604.46	1 1/2	1,881.83	1 1/2	2,159.20	1 1/2	2,436.49	1 1/2	2,713.26	1 1/2	2,965.77
3/4	232.33	3/4	505.31	3/4	781.85	3/4	1,058.73	3/4	1,332.93	3/4	1,610.24	3/4	1,887.61	3/4	2,164.98	3/4	2,442.27	3/4	2,718.99	3/4	2,970.04
10	238.10	10	511.09	10	787.60	10	1,064.51	10	1,338.71	10	1,616.02	10	1,893.39	10	2,170.76	10	2,448.04	10	2,724.73	10	2,974.31
1 1/4	243.85	1 1/4	516.87	1 1/4	793.35	1 1/4	1,070.29	1 1/4	1,344.49	1 1/4	1,621.79	1 1/4	1,899.17	1 1/4	2,176.53	1 1/4	2,453.82	1 1/4	2,730.47	1 1/4	2,978.58
1 1/2	249.20	1 1/2	522.65	1 1/2	799.10	1 1/2	1,076.07	1 1/2	1,350.27	1 1/2	1,627.57	1 1/2	1,904.95	1 1/2	2,182.31	1 1/2	2,459.60	1 1/2	2,736.21	1 1/2	2,982.85
3/4	254.76	3/4	528.43	3/4	804.85	3/4	1,081.85	3/4	1,356.05	3/4	1,633.35	3/4	1,910.72	3/4	2,188.08	3/4	2,465.38	3/4	2,741.94	3/4	2,987.10
11	260.31	11	534.21	11	810.60	11	1,087.63	11	1,361.83	11	1,639.13	11	1,916.50	11	2,193.85	11	2,471.16	11	2,747.68	11	2,991.37
1 1/4	265.86	1 1/4	539.99	1 1/4	816.35	1 1/4	1,093.41	1 1/4	1,367.60	1 1/4	1,644.91	1 1/4	1,922.28	1 1/4	2,199.63	1 1/4	2,476.93	1 1/4	2,753.42	1 1/4	2,995.62
1 1/2	271.41	1 1/2	545.77	1 1/2	822.10	1 1/2	1,099.19	1 1/2	1,373.38	1 1/2	1,650.69	1 1/2	1,928.06	1 1/2	2,205.40	1 1/2	2,482.71	1 1/2	2,759.16	1 1/2	2,999.87
3/4	276.96	3/4	551.55	3/4	827.85	3/4	1,104.97	3/4	1,379.16	3/4	1,656.47	3/4	1,933.84	3/4	2,211.17	3/4	2,488.49	3/4	2,764.90	3/4	3,004.12

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 32'-06" FORWARD OF AFT BULKHEAD.

GAUGE POINT: (8" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 34'-06" FORWARD OF AFT BULKHEAD.

STRAPPED: 05/06/2014 CL
CALCULATED: 05/06/2014 CL
PRINTED: 05/07/2014 SW

CANCELS AND SUPERCEDES
ALL PRIOR TO 05/2014

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



BARGE "MM 16" MAGNOLIA BARGE

3 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-08 1/4"

N	0 FT.	N	1 FT.	N	2 FT.	N	3 FT.	N	4 FT.	N	5 FT.	N	6 FT.	N	7 FT.	N	8 FT.	N	9 FT.	N	10 FT.
0	15.95	0	278.25	0	548.92	0	811.34	0	1,078.93	0	1,348.95	0	1,622.08	0	1,895.28	0	2,168.43	0	2,441.58	0	2,713.77
1/4	20.59	1/4	283.73	1/4	554.61	1/4	816.73	1/4	1,084.49	1/4	1,354.64	1/4	1,627.77	1/4	1,900.97	1/4	2,174.12	1/4	2,447.27	1/4	2,719.42
1/2	25.22	1/2	289.21	1/2	560.31	1/2	822.13	1/2	1,090.05	1/2	1,360.33	1/2	1,633.46	1/2	1,906.67	1/2	2,179.81	1/2	2,452.96	1/2	2,725.08
3/4	29.85	3/4	294.69	3/4	566.00	3/4	827.52	3/4	1,095.61	3/4	1,366.03	3/4	1,639.16	3/4	1,912.36	3/4	2,185.50	3/4	2,458.65	3/4	2,730.73
1	34.49	1	300.16	1	571.69	1	832.92	1	1,101.17	1	1,371.72	1	1,644.85	1	1,918.05	1	2,191.19	1	2,464.35	1	2,736.38
1/4	39.89	1/4	305.64	1/4	577.39	1/4	838.32	1/4	1,106.73	1/4	1,377.41	1/4	1,650.54	1/4	1,923.74	1/4	2,196.88	1/4	2,470.04	1/4	2,742.03
1/2	45.30	1/2	311.12	1/2	583.08	1/2	843.72	1/2	1,112.29	1/2	1,383.10	1/2	1,656.23	1/2	1,929.43	1/2	2,202.57	1/2	2,475.73	1/2	2,747.68
3/4	50.70	3/4	316.60	3/4	588.77	3/4	849.12	3/4	1,117.85	3/4	1,388.79	3/4	1,661.92	3/4	1,935.12	3/4	2,208.26	3/4	2,481.42	3/4	2,753.33
2	56.11	2	322.07	2	594.46	2	854.52	2	1,123.41	2	1,394.49	2	1,667.61	2	1,940.82	2	2,213.95	2	2,487.11	2	2,758.98
1/4	61.54	1/4	327.55	1/4	600.16	1/4	859.93	1/4	1,128.97	1/4	1,400.17	1/4	1,673.31	1/4	1,946.51	1/4	2,219.65	1/4	2,492.80	1/4	2,764.63
1/2	66.98	1/2	333.03	1/2	605.85	1/2	865.33	1/2	1,134.52	1/2	1,405.85	1/2	1,679.00	1/2	1,952.20	1/2	2,225.34	1/2	2,498.49	1/2	2,770.28
3/4	72.41	3/4	338.51	3/4	611.54	3/4	870.73	3/4	1,140.08	3/4	1,411.53	3/4	1,684.69	3/4	1,957.89	3/4	2,231.03	3/4	2,504.18	3/4	2,775.93
3	77.85	3	343.98	3	617.23	3	876.13	3	1,145.64	3	1,417.22	3	1,690.38	3	1,963.58	3	2,236.72	3	2,509.87	3	2,781.58
1/4	83.29	1/4	349.68	1/4	622.63	1/4	881.56	1/4	1,151.19	1/4	1,422.90	1/4	1,696.07	1/4	1,969.27	1/4	2,242.41	1/4	2,515.56	1/4	2,787.23
1/2	88.74	1/2	355.37	1/2	628.02	1/2	886.98	1/2	1,156.75	1/2	1,428.58	1/2	1,701.76	1/2	1,974.97	1/2	2,248.10	1/2	2,521.25	1/2	2,792.88
3/4	94.18	3/4	361.06	3/4	633.41	3/4	892.40	3/4	1,162.31	3/4	1,434.26	3/4	1,707.46	3/4	1,980.66	3/4	2,253.79	3/4	2,526.94	3/4	2,798.53
4	99.62	4	366.76	4	638.81	4	897.83	4	1,167.86	4	1,439.95	4	1,713.15	4	1,986.35	4	2,259.48	4	2,532.63	4	2,804.18
1/4	105.08	1/4	372.45	1/4	644.20	1/4	903.25	1/4	1,173.42	1/4	1,445.64	1/4	1,718.84	1/4	1,992.04	1/4	2,265.17	1/4	2,538.32	1/4	2,809.83
1/2	110.53	1/2	378.14	1/2	649.59	1/2	908.68	1/2	1,178.98	1/2	1,451.33	1/2	1,724.53	1/2	1,997.73	1/2	2,270.86	1/2	2,544.02	1/2	2,815.48
3/4	115.99	3/4	383.83	3/4	654.98	3/4	914.10	3/4	1,184.54	3/4	1,457.02	3/4	1,730.22	3/4	2,003.42	3/4	2,276.55	3/4	2,549.71	3/4	2,821.14
5	121.44	5	389.53	5	660.37	5	919.52	5	1,190.10	5	1,462.71	5	1,735.91	5	2,009.12	5	2,282.24	5	2,555.40	5	2,826.79
1/4	127.01	1/4	395.22	1/4	665.76	1/4	925.22	1/4	1,195.66	1/4	1,468.40	1/4	1,741.61	1/4	2,014.81	1/4	2,287.93	1/4	2,561.09	1/4	2,832.00
1/2	132.58	1/2	400.91	1/2	671.15	1/2	930.91	1/2	1,201.22	1/2	1,474.10	1/2	1,747.30	1/2	2,020.50	1/2	2,293.62	1/2	2,566.78	1/2	2,837.22
3/4	138.15	3/4	406.60	3/4	676.54	3/4	936.60	3/4	1,206.78	3/4	1,479.79	3/4	1,752.99	3/4	2,026.19	3/4	2,299.32	3/4	2,572.47	3/4	2,842.44
6	143.72	6	412.30	6	681.93	6	942.30	6	1,212.35	6	1,485.48	6	1,758.68	6	2,031.88	6	2,305.01	6	2,578.16	6	2,847.66
1/4	149.40	1/4	417.99	1/4	687.32	1/4	947.99	1/4	1,218.04	1/4	1,491.17	1/4	1,764.37	1/4	2,037.57	1/4	2,310.70	1/4	2,583.81	1/4	2,851.93
1/2	155.07	1/2	423.68	1/2	692.71	1/2	953.68	1/2	1,223.73	1/2	1,496.86	1/2	1,770.06	1/2	2,043.27	1/2	2,316.39	1/2	2,589.46	1/2	2,856.19
3/4	160.74	3/4	429.38	3/4	698.10	3/4	959.37	3/4	1,229.42	3/4	1,502.55	3/4	1,775.76	3/4	2,048.96	3/4	2,322.08	3/4	2,595.11	3/4	2,860.46
7	166.41	7	435.07	7	703.49	7	965.07	7	1,235.11	7	1,508.25	7	1,781.45	7	2,054.65	7	2,327.77	7	2,600.76	7	2,864.73
1/4	172.08	1/4	440.76	1/4	708.88	1/4	970.76	1/4	1,240.80	1/4	1,513.94	1/4	1,787.14	1/4	2,060.34	1/4	2,333.46	1/4	2,606.41	1/4	2,868.05
1/2	177.75	1/2	446.45	1/2	714.27	1/2	976.45	1/2	1,246.50	1/2	1,519.63	1/2	1,792.83	1/2	2,066.03	1/2	2,339.15	1/2	2,612.06	1/2	2,873.22
3/4	183.43	3/4	452.15	3/4	719.66	3/4	982.15	3/4	1,252.19	3/4	1,525.32	3/4	1,798.52	3/4	2,071.72	3/4	2,344.84	3/4	2,617.71	3/4	2,878.53
8	189.10	8	457.84	8	725.05	8	987.84	8	1,257.88	8	1,531.01	8	1,804.21	8	2,077.42	8	2,350.53	8	2,623.36	8	2,884.00
1/4	194.77	1/4	463.53	1/4	730.44	1/4	993.53	1/4	1,263.57	1/4	1,536.70	1/4	1,809.91	1/4	2,083.11	1/4	2,356.22	1/4	2,629.01	1/4	2,889.57
1/2	200.44	1/2	469.22	1/2	735.83	1/2	999.23	1/2	1,269.26	1/2	1,542.40	1/2	1,815.60	1/2	2,088.80	1/2	2,361.91	1/2	2,634.67	1/2	2,895.14
3/4	206.11	3/4	474.92	3/4	741.22	3/4	1,004.92	3/4	1,274.96	3/4	1,548.09	3/4	1,821.29	3/4	2,094.49	3/4	2,367.60	3/4	2,640.32	3/4	2,900.71
9	211.79	9	480.61	9	746.61	9	1,010.81	9	1,280.65	9	1,553.78	9	1,826.98	9	2,100.18	9	2,373.29	9	2,645.97	9	2,906.28
1/4	217.47	1/4	486.30	1/4	752.01	1/4	1,016.30	1/4	1,286.34	1/4	1,559.47	1/4	1,832.67	1/4	2,105.87	1/4	2,378.99	1/4	2,651.62	1/4	2,911.89
1/2	223.15	1/2	491.99	1/2	757.40	1/2	1,022.00	1/2	1,292.03	1/2	1,565.16	1/2	1,838.36	1/2	2,111.57	1/2	2,384.68	1/2	2,657.27	1/2	2,917.00
3/4	228.83	3/4	497.69	3/4	762.79	3/4	1,027.69	3/4	1,297.72	3/4	1,570.86	3/4	1,844.06	3/4	2,117.26	3/4	2,390.37	3/4	2,662.92	3/4	2,922.11
10	234.52	10	503.38	10	768.18	10	1,033.38	10	1,303.42	10	1,576.55	10	1,849.75	10	2,122.95	10	2,396.06	10	2,668.57	10	2,927.22
1/4	239.98	1/4	509.07	1/4	773.58	1/4	1,039.08	1/4	1,309.11	1/4	1,582.24	1/4	1,855.44	1/4	2,128.63	1/4	2,401.75	1/4	2,674.22	1/4	2,932.33
1/2	245.45	1/2	514.77	1/2	778.97	1/2	1,044.77	1/2	1,314.80	1/2	1,587.93	1/2	1,861.13	1/2	2,134.32	1/2	2,407.44	1/2	2,679.87	1/2	2,937.44
3/4	250.92	3/4	520.46	3/4	784.37	3/4	1,050.46	3/4	1,320.49	3/4	1,593.62	3/4	1,866.82	3/4	2,140.00	3/4	2,413.13	3/4	2,685.52	3/4	2,942.55
11	256.38	11	526.15	11	789.76	11	1,056.16	11	1,326.18	11	1,599.31	11	1,872.52	11	2,145.69	11	2,418.82	11	2,691.17	11	2,947.66
1/4	261.85	1/4	531.84	1/4	795.16	1/4	1,061.85	1/4	1,331.88	1/4	1,605.01	1/4	1,878.21	1/4	2,151.37	1/4	2,424.51	1/4	2,696.82	1/4	2,952.77
1/2	267.32	1/2	537.54	1/2	800.55	1/2	1,067.54	1/2	1,337.57	1/2	1,610.70	1/2	1,883.90	1/2	2,157.06	1/2	2,430.20	1/2	2,702.47	1/2	2,957.88
3/4	272.79	3/4	543.23	3/4	805.94	3/4	1,073.23	3/4	1,343.26	3/4	1,616.39	3/4	1,889.59	3/4	2,162.74	3/4	2,435.89	3/4	2,708.12	3/4	2,962.99

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.



BARGE "MM 16" MAGNOLIA BARGE

3 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-08"

N	0 FT.	N	1 FT.	N	2 FT.	N	3 FT.	N	4 FT.	N	5 FT.	N	6 FT.	N	7 FT.	N	8 FT.	N	9 FT.	N	10 FT.
0	15.96	0	278.39	0	549.18	0	821.42	0	1,094.52	0	1,364.67	0	1,637.93	0	1,911.27	0	2,184.55	0	2,457.83	0	2,730.15
1/4	20.60	1/4	283.87	1/4	554.88	1/4	827.09	1/4	1,100.08	1/4	1,370.37	1/4	1,643.63	1/4	1,916.96	1/4	2,190.24	1/4	2,463.52	1/4	2,735.80
1/2	25.23	1/2	289.35	1/2	560.57	1/2	832.75	1/2	1,105.65	1/2	1,376.06	1/2	1,649.32	1/2	1,922.65	1/2	2,195.93	1/2	2,469.22	1/2	2,741.46
3/4	29.87	3/4	294.83	3/4	566.27	3/4	838.42	3/4	1,111.21	3/4	1,381.76	3/4	1,655.02	3/4	1,928.35	3/4	2,201.63	3/4	2,474.91	3/4	2,747.11
1	34.50	1	300.31	1	571.97	1	844.09	1	1,116.77	1	1,387.45	1	1,660.71	1	1,934.04	1	2,207.32	1	2,480.60	1	2,752.76
1/4	39.91	1/4	305.79	1/4	577.66	1/4	849.76	1/4	1,122.34	1/4	1,393.15	1/4	1,666.41	1/4	1,939.74	1/4	2,213.01	1/4	2,486.30	1/4	2,758.42
1/2	45.32	1/2	311.27	1/2	583.36	1/2	855.43	1/2	1,127.90	1/2	1,398.84	1/2	1,672.10	1/2	1,945.43	1/2	2,218.71	1/2	2,491.99	1/2	2,764.07
3/4	50.73	3/4	316.75	3/4	589.05	3/4	861.11	3/4	1,133.46	3/4	1,404.54	3/4	1,677.80	3/4	1,951.13	3/4	2,224.40	3/4	2,497.68	3/4	2,769.72
2	56.13	2	322.23	2	594.75	2	866.78	2	1,139.03	2	1,410.23	2	1,683.49	2	1,956.82	2	2,230.09	2	2,503.38	2	2,775.38
1/4	61.57	1/4	327.71	1/4	600.44	1/4	872.45	1/4	1,144.59	1/4	1,415.92	1/4	1,689.18	1/4	1,962.52	1/4	2,235.79	1/4	2,509.07	1/4	2,781.03
1/2	67.01	1/2	333.19	1/2	606.14	1/2	878.13	1/2	1,150.15	1/2	1,421.60	1/2	1,694.88	1/2	1,968.21	1/2	2,241.48	1/2	2,514.76	1/2	2,786.68
3/4	72.45	3/4	338.67	3/4	611.83	3/4	883.80	3/4	1,155.70	3/4	1,427.29	3/4	1,700.57	3/4	1,973.90	3/4	2,247.17	3/4	2,520.46	3/4	2,792.34
3	77.89	3	344.15	3	617.53	3	889.48	3	1,161.26	3	1,432.97	3	1,706.27	3	1,979.60	3	2,252.87	3	2,526.15	3	2,797.99
1/4	83.33	1/4	349.84	1/4	623.19	1/4	895.17	1/4	1,166.82	1/4	1,438.66	1/4	1,711.96	1/4	1,985.29	1/4	2,258.56	1/4	2,531.84	1/4	2,803.64
1/2	88.78	1/2	355.54	1/2	628.86	1/2	900.87	1/2	1,172.38	1/2	1,444.34	1/2	1,717.66	1/2	1,990.99	1/2	2,264.25	1/2	2,537.54	1/2	2,809.30
3/4	94.22	3/4	361.24	3/4	634.52	3/4	906.56	3/4	1,177.94	3/4	1,450.03	3/4	1,723.35	3/4	1,996.68	3/4	2,269.95	3/4	2,543.23	3/4	2,814.95
4	99.67	4	366.93	4	640.19	4	912.26	4	1,183.50	4	1,455.71	4	1,729.04	4	2,002.38	4	2,275.64	4	2,548.92	4	2,820.60
1/4	105.13	1/4	372.63	1/4	645.85	1/4	917.95	1/4	1,189.06	1/4	1,461.41	1/4	1,734.74	1/4	2,008.07	1/4	2,281.33	1/4	2,554.62	1/4	2,826.26
1/2	110.59	1/2	378.32	1/2	651.51	1/2	923.65	1/2	1,194.63	1/2	1,467.10	1/2	1,740.43	1/2	2,013.76	1/2	2,287.03	1/2	2,560.31	1/2	2,831.91
3/4	116.04	3/4	384.02	3/4	657.17	3/4	929.35	3/4	1,200.19	3/4	1,472.80	3/4	1,746.13	3/4	2,019.46	3/4	2,292.72	3/4	2,566.00	3/4	2,837.56
5	121.50	5	389.71	5	662.84	5	935.04	5	1,205.75	5	1,478.49	5	1,751.82	5	2,025.15	5	2,298.41	5	2,571.70	5	2,843.22
1/4	127.07	1/4	395.41	1/4	668.50	1/4	940.74	1/4	1,211.32	1/4	1,484.19	1/4	1,757.52	1/4	2,030.85	1/4	2,304.11	1/4	2,577.39	1/4	2,848.44
1/2	132.65	1/2	401.10	1/2	674.16	1/2	946.43	1/2	1,216.88	1/2	1,489.88	1/2	1,763.21	1/2	2,036.54	1/2	2,309.80	1/2	2,583.08	1/2	2,853.66
3/4	138.22	3/4	406.80	3/4	679.82	3/4	952.13	3/4	1,222.44	3/4	1,495.57	3/4	1,768.91	3/4	2,042.24	3/4	2,315.49	3/4	2,588.78	3/4	2,858.88
6	143.79	6	412.49	6	685.49	6	957.82	6	1,228.00	6	1,501.27	6	1,774.60	6	2,047.93	6	2,321.19	6	2,594.47	6	2,864.10
1/4	149.47	1/4	418.19	1/4	691.15	1/4	963.52	1/4	1,233.70	1/4	1,506.96	1/4	1,780.29	1/4	2,053.63	1/4	2,326.88	1/4	2,600.12	1/4	2,868.37
1/2	155.14	1/2	423.89	1/2	696.81	1/2	969.22	1/2	1,239.39	1/2	1,512.66	1/2	1,785.99	1/2	2,059.32	1/2	2,332.57	1/2	2,605.78	1/2	2,872.64
3/4	160.82	3/4	429.58	3/4	702.47	3/4	974.91	3/4	1,245.09	3/4	1,518.35	3/4	1,791.68	3/4	2,065.01	3/4	2,338.27	3/4	2,611.43	3/4	2,878.91
7	166.49	7	435.28	7	708.13	7	980.61	7	1,250.78	7	1,524.05	7	1,797.38	7	2,070.71	7	2,343.96	7	2,617.08	7	2,881.18
1/4	172.17	1/4	440.97	1/4	713.80	1/4	986.30	1/4	1,256.48	1/4	1,529.74	1/4	1,803.07	1/4	2,076.40	1/4	2,349.65	1/4	2,622.74	1/4	2,884.50
1/2	177.84	1/2	446.67	1/2	719.46	1/2	992.00	1/2	1,262.17	1/2	1,535.44	1/2	1,808.77	1/2	2,082.10	1/2	2,355.35	1/2	2,628.39	1/2	2,888.88
3/4	183.52	3/4	452.36	3/4	725.12	3/4	997.69	3/4	1,267.87	3/4	1,541.13	3/4	1,814.46	3/4	2,087.79	3/4	2,361.04	3/4	2,634.04	3/4	2,894.16
8	189.19	8	458.06	8	730.78	8	1,003.39	8	1,273.56	8	1,546.82	8	1,820.16	8	2,093.49	8	2,366.73	8	2,639.70	8	2,899.44
1/4	194.86	1/4	463.75	1/4	736.45	1/4	1,009.09	1/4	1,279.26	1/4	1,552.52	1/4	1,825.85	1/4	2,099.18	1/4	2,372.43	1/4	2,645.35	1/4	2,904.72
1/2	200.54	1/2	469.45	1/2	742.11	1/2	1,014.78	1/2	1,284.95	1/2	1,558.21	1/2	1,831.54	1/2	2,104.86	1/2	2,378.12	1/2	2,651.00	1/2	2,910.00
3/4	206.21	3/4	475.14	3/4	747.77	3/4	1,020.48	3/4	1,290.64	3/4	1,563.91	3/4	1,837.24	3/4	2,110.57	3/4	2,383.81	3/4	2,656.66	3/4	2,915.28
9	211.89	9	480.84	9	753.43	9	1,026.17	9	1,296.34	9	1,569.60	9	1,842.93	9	2,116.26	9	2,389.51	9	2,662.31	9	2,920.56
1/4	217.57	1/4	486.53	1/4	759.10	1/4	1,031.87	1/4	1,302.03	1/4	1,575.30	1/4	1,848.63	1/4	2,121.96	1/4	2,395.20	1/4	2,667.96	1/4	2,925.84
1/2	223.26	1/2	492.23	1/2	764.76	1/2	1,037.56	1/2	1,307.73	1/2	1,580.99	1/2	1,854.32	1/2	2,127.65	1/2	2,400.89	1/2	2,673.62	1/2	2,931.12
3/4	228.94	3/4	497.93	3/4	770.43	3/4	1,043.26	3/4	1,313.42	3/4	1,586.68	3/4	1,860.02	3/4	2,133.35	3/4	2,406.59	3/4	2,679.27	3/4	2,936.40
10	234.63	10	503.62	10	776.09	10	1,048.96	10	1,319.12	10	1,592.38	10	1,865.71	10	2,139.04	10	2,412.28	10	2,684.92	10	2,941.68
1/4	240.10	1/4	509.32	1/4	781.76	1/4	1,054.65	1/4	1,324.81	1/4	1,598.07	1/4	1,871.40	1/4	2,144.73	1/4	2,417.97	1/4	2,690.58	1/4	2,946.96
1/2	245.57	1/2	515.01	1/2	787.42	1/2	1,060.35	1/2	1,330.51	1/2	1,603.77	1/2	1,877.10	1/2	2,150.42	1/2	2,423.67	1/2	2,696.23	1/2	2,952.24
3/4	251.04	3/4	520.71	3/4	793.09	3/4	1,066.04	3/4	1,336.20	3/4	1,609.46	3/4	1,882.79	3/4	2,156.11	3/4	2,429.36	3/4	2,701.88	3/4	2,957.52
11	256.51	11	526.40	11	798.76	11	1,071.74	11	1,341.90	11	1,615.16	11	1,888.49	11	2,161.79	11	2,435.06	11	2,707.54	11	2,962.80
1/4	261.98	1/4	532.10	1/4	804.42	1/4	1,077.43	1/4	1,347.59	1/4	1,620.85	1/4	1,894.18	1/4	2,167.48	1/4	2,440.75	1/4	2,713.19	1/4	2,968.08
1/2	267.45	1/2	537.79	1/2	810.09	1/2	1,083.13	1/2	1,353.29	1/2	1,626.55	1/2	1,899.88	1/2	2,173.17	1/2	2,446.44	1/2	2,718.84	1/2	2,973.36
3/4	272.92	3/4	543.49	3/4	815.75	3/4	1,088.83	3/4	1,358.98	3/4	1,632.24	3/4	1,905.57	3/4	2,178.86	3/4	2,452.14	3/4	2,724.50	3/4	2,978.64

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 33'-06" FORWARD OF AFT BULKHEAD.
 GAUGE POINT: (6" HATCH) LOCATED 12'-09" OFF CENTERLINE AND 35'-06" FORWARD OF AFT BULKHEAD.

STRAPPED: 05/06/2014 CL
 CALCULATED: 05/06/2014 CL
 PRINTED: 05/07/2014 SW

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



BARGE "MM 16" MAGNOLIA BARGE

4 PORT INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-08"

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	16.32	0	292.90	0	572.92	0	843.56	0	1,118.27	0	1,394.25	0	1,669.63	0	1,948.02	0	2,226.68	0	2,505.49	0	2,783.34
1/4	21.20	1/4	298.78	1/4	578.74	1/4	849.14	1/4	1,123.96	1/4	1,400.00	1/4	1,675.39	1/4	1,953.82	1/4	2,232.49	1/4	2,511.30	1/4	2,789.10
1/2	26.09	1/2	304.66	1/2	584.55	1/2	854.72	1/2	1,129.66	1/2	1,405.75	1/2	1,681.14	1/2	1,959.62	1/2	2,238.30	1/2	2,517.11	1/2	2,794.87
3/4	30.98	3/4	310.55	3/4	590.37	3/4	860.30	3/4	1,135.35	3/4	1,411.49	3/4	1,686.90	3/4	1,965.42	3/4	2,244.11	3/4	2,522.92	3/4	2,800.64
1	35.87	1	316.43	1	596.19	1	865.88	1	1,141.04	1	1,417.24	1	1,692.65	1	1,971.23	1	2,249.92	1	2,528.72	1	2,806.41
1/4	41.69	1/4	322.31	1/4	602.01	1/4	871.47	1/4	1,146.73	1/4	1,422.98	1/4	1,698.41	1/4	1,977.03	1/4	2,255.72	1/4	2,534.53	1/4	2,812.18
1/2	47.51	1/2	328.20	1/2	607.82	1/2	877.06	1/2	1,152.43	1/2	1,428.71	1/2	1,704.17	1/2	1,982.83	1/2	2,261.53	1/2	2,540.34	1/2	2,817.95
3/4	53.33	3/4	334.08	3/4	613.64	3/4	882.65	3/4	1,158.12	3/4	1,434.45	3/4	1,709.92	3/4	1,988.63	3/4	2,267.34	3/4	2,546.15	3/4	2,823.71
2	59.15	2	339.96	2	619.46	2	888.24	2	1,163.81	2	1,440.19	2	1,715.68	2	1,994.44	2	2,273.15	2	2,551.96	2	2,829.48
1/4	65.00	1/4	345.85	1/4	625.28	1/4	893.82	1/4	1,169.49	1/4	1,445.90	1/4	1,721.49	1/4	2,000.24	1/4	2,278.96	1/4	2,557.77	1/4	2,835.25
1/2	70.86	1/2	351.73	1/2	631.10	1/2	899.41	1/2	1,175.17	1/2	1,451.62	1/2	1,727.30	1/2	2,006.04	1/2	2,284.77	1/2	2,563.57	1/2	2,841.02
3/4	76.71	3/4	357.61	3/4	636.91	3/4	905.00	3/4	1,180.85	3/4	1,457.33	3/4	1,733.11	3/4	2,011.85	3/4	2,290.58	3/4	2,569.38	3/4	2,846.79
3	82.56	3	363.49	3	642.73	3	910.59	3	1,186.53	3	1,463.05	3	1,738.92	3	2,017.65	3	2,296.38	3	2,575.19	3	2,852.56
1/4	88.42	1/4	369.31	1/4	648.31	1/4	916.20	1/4	1,192.21	1/4	1,468.77	1/4	1,744.73	1/4	2,023.45	1/4	2,302.19	1/4	2,581.00	1/4	2,858.32
1/2	94.28	1/2	375.12	1/2	653.89	1/2	921.81	1/2	1,197.89	1/2	1,474.50	1/2	1,750.54	1/2	2,029.25	1/2	2,308.00	1/2	2,586.81	1/2	2,864.09
3/4	100.14	3/4	380.94	3/4	659.47	3/4	927.42	3/4	1,203.57	3/4	1,480.22	3/4	1,756.35	3/4	2,035.06	3/4	2,313.81	3/4	2,592.62	3/4	2,869.86
4	106.00	4	386.76	4	665.05	4	933.03	4	1,209.25	4	1,485.95	4	1,762.17	4	2,040.86	4	2,319.62	4	2,598.43	4	2,875.63
1/4	111.88	1/4	392.57	1/4	670.63	1/4	938.64	1/4	1,214.94	1/4	1,491.68	1/4	1,767.98	1/4	2,046.66	1/4	2,325.43	1/4	2,604.23	1/4	2,881.40
1/2	117.75	1/2	398.39	1/2	676.20	1/2	944.25	1/2	1,220.63	1/2	1,497.42	1/2	1,773.79	1/2	2,052.46	1/2	2,331.23	1/2	2,610.04	1/2	2,887.17
3/4	123.62	3/4	404.21	3/4	681.78	3/4	949.86	3/4	1,226.33	3/4	1,503.15	3/4	1,779.60	3/4	2,058.27	3/4	2,337.04	3/4	2,615.85	3/4	2,892.94
5	129.49	5	410.02	5	687.36	5	955.47	5	1,232.02	5	1,508.89	5	1,785.41	5	2,064.07	5	2,342.85	5	2,621.66	5	2,898.70
1/4	135.34	1/4	415.84	1/4	692.94	1/4	961.29	1/4	1,237.71	1/4	1,514.62	1/4	1,791.22	1/4	2,069.88	1/4	2,348.66	1/4	2,627.47	1/4	2,904.05
1/2	141.19	1/2	421.66	1/2	698.51	1/2	967.10	1/2	1,243.40	1/2	1,520.36	1/2	1,797.03	1/2	2,075.69	1/2	2,354.47	1/2	2,633.28	1/2	2,909.39
3/4	147.04	3/4	427.47	3/4	704.09	3/4	972.92	3/4	1,249.09	3/4	1,526.09	3/4	1,802.84	3/4	2,081.50	3/4	2,360.28	3/4	2,639.09	3/4	2,914.73
6	152.88	6	433.29	6	709.67	6	978.73	6	1,254.79	6	1,531.83	6	1,808.65	6	2,087.31	6	2,366.09	6	2,644.89	6	2,920.08
1/4	158.69	1/4	439.11	1/4	715.24	1/4	984.55	1/4	1,260.60	1/4	1,537.56	1/4	1,814.46	1/4	2,093.12	1/4	2,371.89	1/4	2,650.66	1/4	2,924.45
1/2	164.50	1/2	444.93	1/2	720.82	1/2	990.36	1/2	1,266.41	1/2	1,543.30	1/2	1,820.27	1/2	2,098.93	1/2	2,377.70	1/2	2,656.43	1/2	2,928.82
3/4	170.31	3/4	450.74	3/4	726.40	3/4	996.17	3/4	1,272.22	3/4	1,549.03	3/4	1,826.08	3/4	2,104.74	3/4	2,383.51	3/4	2,662.20	3/4	2,933.19
7	176.12	7	456.56	7	731.98	7	1,001.99	7	1,278.03	7	1,554.77	7	1,831.90	7	2,110.54	7	2,389.32	7	2,667.97	7	2,937.56
1/4	181.93	1/4	462.38	1/4	737.55	1/4	1,007.80	1/4	1,283.84	1/4	1,560.50	1/4	1,837.71	1/4	2,116.35	1/4	2,395.13	1/4	2,673.74	1/4	2,940.95
1/2	187.74	1/2	468.20	1/2	743.13	1/2	1,013.62	1/2	1,289.65	1/2	1,566.23	1/2	1,843.52	1/2	2,122.16	1/2	2,400.94	1/2	2,679.50	1/2	2,946.80
3/4	193.54	3/4	474.01	3/4	748.71	3/4	1,019.43	3/4	1,295.46	3/4	1,571.97	3/4	1,849.33	3/4	2,127.97	3/4	2,406.75	3/4	2,685.27	3/4	2,952.65
8	199.35	8	479.83	8	754.28	8	1,025.24	8	1,301.28	8	1,577.70	8	1,855.14	8	2,133.78	8	2,412.55	8	2,691.04	8	2,958.51
1/4	205.16	1/4	485.65	1/4	759.86	1/4	1,031.06	1/4	1,307.09	1/4	1,583.44	1/4	1,860.95	1/4	2,139.59	1/4	2,418.36	1/4	2,696.81	1/4	2,964.36
1/2	210.97	1/2	491.47	1/2	765.44	1/2	1,036.87	1/2	1,312.90	1/2	1,589.17	1/2	1,866.76	1/2	2,145.40	1/2	2,424.17	1/2	2,702.58	1/2	2,970.21
3/4	216.78	3/4	497.29	3/4	771.01	3/4	1,042.69	3/4	1,318.71	3/4	1,594.91	3/4	1,872.57	3/4	2,151.21	3/4	2,429.98	3/4	2,708.35	3/4	2,976.04
9	222.59	9	503.10	9	776.59	9	1,048.50	9	1,324.52	9	1,600.64	9	1,878.38	9	2,157.02	9	2,435.79	9	2,714.11	9	2,981.81
1/4	228.41	1/4	508.92	1/4	782.17	1/4	1,054.32	1/4	1,330.33	1/4	1,606.38	1/4	1,884.19	1/4	2,162.83	1/4	2,441.60	1/4	2,719.88	1/4	2,987.64
1/2	234.23	1/2	514.74	1/2	787.75	1/2	1,060.13	1/2	1,336.14	1/2	1,612.11	1/2	1,889.99	1/2	2,168.64	1/2	2,447.40	1/2	2,725.65	1/2	2,993.49
3/4	240.04	3/4	520.56	3/4	793.33	3/4	1,065.94	3/4	1,341.95	3/4	1,617.85	3/4	1,895.79	3/4	2,174.45	3/4	2,453.21	3/4	2,731.42	3/4	2,999.32
10	245.86	10	526.38	10	798.91	10	1,071.76	10	1,347.76	10	1,623.58	10	1,901.59	10	2,180.26	10	2,459.02	10	2,737.19	10	3,005.14
1/4	251.75	1/4	532.19	1/4	804.49	1/4	1,077.57	1/4	1,353.57	1/4	1,629.34	1/4	1,907.40	1/4	2,186.06	1/4	2,464.83	1/4	2,742.96	1/4	3,010.95
1/2	257.63	1/2	538.01	1/2	810.07	1/2	1,083.39	1/2	1,359.39	1/2	1,635.09	1/2	1,913.20	1/2	2,191.86	1/2	2,470.64	1/2	2,748.73	1/2	3,016.80
3/4	263.52	3/4	543.83	3/4	815.65	3/4	1,089.20	3/4	1,365.20	3/4	1,640.85	3/4	1,919.00	3/4	2,197.67	3/4	2,476.45	3/4	2,754.49	3/4	3,022.66
11	269.40	11	549.65	11	821.23	11	1,095.02	11	1,371.01	11	1,646.60	11	1,924.80	11	2,203.47	11	2,482.26	11	2,760.26	11	3,028.52
1/4	275.28	1/4	555.46	1/4	826.81	1/4	1,100.83	1/4	1,376.82	1/4	1,652.36	1/4	1,930.61	1/4	2,209.27	1/4	2,488.06	1/4	2,766.03	1/4	3,034.39
1/2	281.15	1/2	561.28	1/2	832.39	1/2	1,106.64	1/2	1,382.63	1/2	1,658.12	1/2	1,936.41	1/2	2,215.08	1/2	2,493.87	1/2	2,771.80	1/2	3,040.26
3/4	287.02	3/4	567.10	3/4	837.98	3/4	1,112.46	3/4	1,388.44	3/4	1,663.87	3/4	1,942.21	3/4	2,220.88	3/4	2,499.68	3/4	2,777.57	3/4	3,046.13



BARGE "MM 16" MAGNOLIA BARGE

4 STBD INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 11'-08"

N	0 FT.	N	1 FT.	N	2 FT.	N	3 FT.	N	4 FT.	N	5 FT.	N	6 FT.	N	7 FT.	N	8 FT.	N	9 FT.	N	10 FT.
0	16.31	0	292.81	0	572.00	0	847.79	0	1,124.44	0	1,398.29	0	1,671.54	0	1,947.63	0	2,223.98	0	2,500.46	0	2,775.98
1/4	21.20	1/4	298.69	1/4	577.77	1/4	853.53	1/4	1,130.09	1/4	1,404.00	1/4	1,677.25	1/4	1,953.39	1/4	2,229.74	1/4	2,506.22	1/4	2,781.70
1/2	26.09	1/2	304.57	1/2	583.54	1/2	859.27	1/2	1,135.74	1/2	1,409.70	1/2	1,682.96	1/2	1,959.14	1/2	2,235.50	1/2	2,511.98	1/2	2,787.42
3/4	30.97	3/4	310.45	3/4	589.31	3/4	865.01	3/4	1,141.39	3/4	1,415.40	3/4	1,688.68	3/4	1,964.90	3/4	2,241.26	3/4	2,517.74	3/4	2,793.14
1	35.86	1	316.34	1	595.08	1	870.75	1	1,147.04	1	1,421.11	1	1,694.39	1	1,970.65	1	2,247.02	1	2,523.50	1	2,798.86
1/4	41.68	1/4	322.22	1/4	600.85	1/4	876.50	1/4	1,152.68	1/4	1,426.80	1/4	1,700.10	1/4	1,976.41	1/4	2,252.78	1/4	2,529.26	1/4	2,804.58
1/2	47.50	1/2	328.10	1/2	606.61	1/2	882.25	1/2	1,158.33	1/2	1,432.49	1/2	1,705.81	1/2	1,982.16	1/2	2,258.54	1/2	2,535.02	1/2	2,810.30
3/4	53.32	3/4	333.98	3/4	612.38	3/4	887.99	3/4	1,163.98	3/4	1,438.18	3/4	1,711.52	3/4	1,987.92	3/4	2,264.30	3/4	2,540.78	3/4	2,816.02
2	59.13	2	339.86	2	618.15	2	893.74	2	1,169.63	2	1,443.87	2	1,717.23	2	1,993.67	2	2,270.06	2	2,546.54	2	2,821.74
1/4	64.99	1/4	345.74	1/4	623.92	1/4	899.49	1/4	1,175.27	1/4	1,449.55	1/4	1,723.00	1/4	1,999.42	1/4	2,275.82	1/4	2,552.30	1/4	2,827.46
1/2	70.84	1/2	351.62	1/2	629.69	1/2	905.24	1/2	1,180.90	1/2	1,455.22	1/2	1,728.76	1/2	2,005.18	1/2	2,281.58	1/2	2,558.06	1/2	2,833.18
3/4	76.69	3/4	357.50	3/4	635.46	3/4	910.99	3/4	1,186.54	3/4	1,460.89	3/4	1,734.52	3/4	2,010.93	3/4	2,287.34	3/4	2,563.82	3/4	2,838.90
3	82.54	3	363.38	3	641.23	3	916.73	3	1,192.17	3	1,466.56	3	1,740.28	3	2,016.69	3	2,293.10	3	2,569.58	3	2,844.62
1/4	88.40	1/4	369.20	1/4	646.97	1/4	922.50	1/4	1,197.81	1/4	1,472.24	1/4	1,746.05	1/4	2,022.44	1/4	2,298.86	1/4	2,575.34	1/4	2,850.34
1/2	94.26	1/2	375.01	1/2	652.71	1/2	928.27	1/2	1,203.44	1/2	1,477.92	1/2	1,751.81	1/2	2,028.20	1/2	2,304.62	1/2	2,581.10	1/2	2,856.06
3/4	100.11	3/4	380.83	3/4	658.45	3/4	934.04	3/4	1,209.08	3/4	1,483.60	3/4	1,757.57	3/4	2,033.95	3/4	2,310.38	3/4	2,586.86	3/4	2,861.78
4	105.97	4	386.64	4	664.19	4	939.81	4	1,214.71	4	1,489.28	4	1,763.33	4	2,039.70	4	2,316.14	4	2,592.62	4	2,867.50
1/4	111.84	1/4	392.45	1/4	669.92	1/4	945.58	1/4	1,220.36	1/4	1,494.97	1/4	1,769.10	1/4	2,045.46	1/4	2,321.90	1/4	2,598.38	1/4	2,873.22
1/2	117.71	1/2	398.27	1/2	675.66	1/2	951.35	1/2	1,226.01	1/2	1,500.66	1/2	1,774.86	1/2	2,051.21	1/2	2,327.66	1/2	2,604.14	1/2	2,878.94
3/4	123.58	3/4	404.08	3/4	681.40	3/4	957.12	3/4	1,231.66	3/4	1,506.35	3/4	1,780.62	3/4	2,056.97	3/4	2,333.42	3/4	2,609.90	3/4	2,884.66
5	129.46	5	409.90	5	687.13	5	962.89	5	1,237.30	5	1,512.04	5	1,786.38	5	2,062.72	5	2,339.18	5	2,615.66	5	2,890.38
1/4	135.30	1/4	415.71	1/4	692.87	1/4	968.66	1/4	1,242.95	1/4	1,517.73	1/4	1,792.15	1/4	2,068.48	1/4	2,344.94	1/4	2,621.42	1/4	2,895.72
1/2	141.15	1/2	421.53	1/2	698.60	1/2	974.43	1/2	1,248.60	1/2	1,523.42	1/2	1,797.91	1/2	2,074.24	1/2	2,350.70	1/2	2,627.18	1/2	2,901.07
3/4	146.99	3/4	427.34	3/4	704.34	3/4	980.20	3/4	1,254.25	3/4	1,529.11	3/4	1,803.67	3/4	2,080.00	3/4	2,356.46	3/4	2,632.94	3/4	2,906.41
6	152.84	6	433.16	6	710.08	6	985.97	6	1,259.89	6	1,534.80	6	1,809.43	6	2,085.76	6	2,362.22	6	2,638.70	6	2,911.75
1/4	158.65	1/4	438.98	1/4	715.81	1/4	991.74	1/4	1,265.66	1/4	1,540.49	1/4	1,815.20	1/4	2,091.53	1/4	2,367.98	1/4	2,644.42	1/4	2,916.12
1/2	164.45	1/2	444.79	1/2	721.55	1/2	997.51	1/2	1,271.43	1/2	1,546.18	1/2	1,820.96	1/2	2,097.29	1/2	2,373.74	1/2	2,650.14	1/2	2,920.49
3/4	170.26	3/4	450.61	3/4	727.29	3/4	1,003.28	3/4	1,277.19	3/4	1,551.88	3/4	1,826.72	3/4	2,103.05	3/4	2,379.50	3/4	2,655.86	3/4	2,924.86
7	176.07	7	456.42	7	733.02	7	1,009.05	7	1,282.96	7	1,557.57	7	1,832.48	7	2,108.81	7	2,385.26	7	2,661.58	7	2,929.22
1/4	181.87	1/4	462.24	1/4	738.76	1/4	1,014.82	1/4	1,288.73	1/4	1,563.26	1/4	1,838.25	1/4	2,114.57	1/4	2,391.02	1/4	2,667.30	1/4	2,932.62
1/2	187.68	1/2	468.06	1/2	744.50	1/2	1,020.59	1/2	1,294.49	1/2	1,568.95	1/2	1,844.01	1/2	2,120.33	1/2	2,396.78	1/2	2,673.02	1/2	2,937.90
3/4	193.49	3/4	473.87	3/4	750.23	3/4	1,026.36	3/4	1,300.26	3/4	1,574.64	3/4	1,849.77	3/4	2,126.09	3/4	2,402.54	3/4	2,678.74	3/4	2,943.72
8	199.29	8	479.69	8	755.97	8	1,032.13	8	1,306.03	8	1,580.33	8	1,855.53	8	2,131.85	8	2,408.30	8	2,684.46	8	2,949.44
1/4	205.10	1/4	485.46	1/4	761.71	1/4	1,037.90	1/4	1,311.79	1/4	1,586.02	1/4	1,861.30	1/4	2,137.61	1/4	2,414.06	1/4	2,690.18	1/4	2,955.16
1/2	210.91	1/2	491.23	1/2	767.44	1/2	1,043.67	1/2	1,317.56	1/2	1,591.71	1/2	1,867.06	1/2	2,143.37	1/2	2,419.82	1/2	2,695.90	1/2	2,960.84
3/4	216.71	3/4	497.00	3/4	773.18	3/4	1,049.44	3/4	1,323.33	3/4	1,597.40	3/4	1,872.82	3/4	2,149.14	3/4	2,425.58	3/4	2,701.62	3/4	2,966.58
9	222.52	9	502.77	9	778.91	9	1,055.21	9	1,329.09	9	1,603.09	9	1,878.58	9	2,154.90	9	2,431.34	9	2,707.34	9	2,971.75
1/4	228.34	1/4	508.54	1/4	784.65	1/4	1,060.98	1/4	1,334.86	1/4	1,608.78	1/4	1,884.34	1/4	2,160.66	1/4	2,437.10	1/4	2,713.06	1/4	2,977.46
1/2	234.16	1/2	514.30	1/2	790.39	1/2	1,066.75	1/2	1,340.63	1/2	1,614.47	1/2	1,890.09	1/2	2,166.42	1/2	2,442.86	1/2	2,718.78	1/2	2,983.18
3/4	239.97	3/4	520.07	3/4	796.13	3/4	1,072.52	3/4	1,346.39	3/4	1,620.16	3/4	1,895.85	3/4	2,172.18	3/4	2,448.62	3/4	2,724.50	3/4	2,988.90
10	245.79	10	525.84	10	801.87	10	1,078.29	10	1,352.16	10	1,625.85	10	1,901.60	10	2,177.94	10	2,454.38	10	2,730.22	10	2,994.62
1/4	251.67	1/4	531.61	1/4	807.61	1/4	1,084.06	1/4	1,357.93	1/4	1,631.56	1/4	1,907.35	1/4	2,183.70	1/4	2,460.14	1/4	2,735.94	1/4	3,000.34
1/2	257.56	1/2	537.38	1/2	813.35	1/2	1,089.82	1/2	1,363.69	1/2	1,637.27	1/2	1,913.11	1/2	2,189.45	1/2	2,465.90	1/2	2,741.66	1/2	3,006.06
3/4	263.44	3/4	543.15	3/4	819.09	3/4	1,095.59	3/4	1,369.46	3/4	1,642.98	3/4	1,918.86	3/4	2,195.21	3/4	2,471.66	3/4	2,747.38	3/4	3,011.78
11	269.32	11	548.92	11	824.83	11	1,101.36	11	1,375.23	11	1,648.69	11	1,924.62	11	2,200.96	11	2,477.42	11	2,753.10	11	3,017.90
1/4	275.19	1/4	554.69	1/4	830.57	1/4	1,107.13	1/4	1,380.99	1/4	1,654.41	1/4	1,930.37	1/4	2,206.72	1/4	2,483.18	1/4	2,758.82	1/4	3,023.02
1/2	281.07	1/2	560.46	1/2	836.31	1/2	1,112.90	1/2	1,386.76	1/2	1,660.12	1/2	1,936.13	1/2	2,212.47	1/2	2,488.94	1/2	2,764.54	1/2	3,028.14
3/4	286.94	3/4	566.23	3/4	842.05	3/4	1,118.67	3/4	1,392.53	3/4	1,665.83	3/4	1,941.88	3/4	2,218.22	3/4	2,494.70	3/4	2,770.26	3/4	3,033.26

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