



BARGE "EMS 403"

PORT HORIZONTAL INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0.21	0	150.97	0	427.66	0	776.40	0	1,173.73	0	1,605.15	0	2,059.26	0	2,526.21	0	2,996.87	0	3,462.32
1/4	1.15	1/4	155.60	1/4	434.35	1/4	784.27	1/4	1,182.43	1/4	1,614.43	1/4	2,068.90	1/4	2,536.01	1/4	3,006.65	1/4	3,471.89
1/2	2.10	1/2	160.23	1/2	441.04	1/2	792.14	1/2	1,191.14	1/2	1,623.71	1/2	2,078.54	1/2	2,545.81	1/2	3,016.43	1/2	3,481.46
3/4	3.04	3/4	164.86	3/4	447.73	3/4	800.01	3/4	1,199.84	3/4	1,632.99	3/4	2,088.18	3/4	2,555.61	3/4	3,026.20	3/4	3,491.03
1	3.99	1	169.49	1	454.41	1	807.88	1	1,208.55	1	1,642.27	1	2,097.81	1	2,565.41	1	3,035.98	1	3,500.59
1/4	5.72	1/4	174.45	1/4	461.22	1/4	815.84	1/4	1,217.31	1/4	1,651.59	1/4	2,107.47	1/4	2,575.22	1/4	3,045.75	1/4	3,510.13
1/2	7.45	1/2	179.42	1/2	468.02	1/2	823.79	1/2	1,226.07	1/2	1,660.90	1/2	2,117.13	1/2	2,585.02	1/2	3,055.52	1/2	3,519.67
3/4	9.18	3/4	184.38	3/4	474.83	3/4	831.74	3/4	1,234.84	3/4	1,670.22	3/4	2,126.79	3/4	2,594.83	3/4	3,065.28	3/4	3,529.22
2	10.91	2	189.34	2	481.63	2	839.69	2	1,243.60	2	1,679.54	2	2,136.45	2	2,604.64	2	3,075.05	2	3,538.76
1/4	13.15	1/4	194.62	1/4	488.55	1/4	847.72	1/4	1,252.42	1/4	1,688.89	1/4	2,146.13	1/4	2,614.45	1/4	3,084.81	1/4	3,548.27
1/2	15.39	1/2	199.90	1/2	495.46	1/2	855.75	1/2	1,261.23	1/2	1,698.25	1/2	2,155.80	1/2	2,624.26	1/2	3,094.56	1/2	3,557.78
3/4	17.63	3/4	205.19	3/4	502.38	3/4	863.79	3/4	1,270.05	3/4	1,707.60	3/4	2,165.48	3/4	2,634.07	3/4	3,104.32	3/4	3,567.30
3	19.87	3	210.47	3	509.30	3	871.82	3	1,278.87	3	1,716.95	3	2,175.16	3	2,643.87	3	3,114.07	3	3,576.81
1/4	22.53	1/4	215.92	1/4	516.32	1/4	879.92	1/4	1,287.74	1/4	1,726.34	1/4	2,184.86	1/4	2,653.69	1/4	3,123.82	1/4	3,586.29
1/2	25.18	1/2	221.37	1/2	523.35	1/2	888.03	1/2	1,296.61	1/2	1,735.73	1/2	2,194.55	1/2	2,663.50	1/2	3,133.56	1/2	3,595.78
3/4	27.83	3/4	226.82	3/4	530.37	3/4	896.14	3/4	1,305.48	3/4	1,745.12	3/4	2,204.25	3/4	2,673.31	3/4	3,143.30	3/4	3,605.26
4	30.48	4	232.27	4	537.40	4	904.25	4	1,314.35	4	1,754.51	4	2,213.95	4	2,683.12	4	3,153.04	4	3,614.75
1/4	33.48	1/4	237.88	1/4	544.53	1/4	912.43	1/4	1,323.28	1/4	1,763.93	1/4	2,223.66	1/4	2,692.94	1/4	3,162.77	1/4	3,624.20
1/2	36.48	1/2	243.49	1/2	551.66	1/2	920.61	1/2	1,332.20	1/2	1,773.35	1/2	2,233.37	1/2	2,702.75	1/2	3,172.50	1/2	3,633.65
3/4	39.48	3/4	249.10	3/4	558.79	3/4	928.79	3/4	1,341.12	3/4	1,782.77	3/4	2,243.08	3/4	2,712.56	3/4	3,182.23	3/4	3,643.11
5	42.49	5	254.70	5	565.92	5	936.98	5	1,350.05	5	1,792.20	5	2,252.80	5	2,722.38	5	3,191.96	5	3,652.56
1/4	45.80	1/4	260.47	1/4	573.15	1/4	945.23	1/4	1,359.02	1/4	1,801.65	1/4	2,262.53	1/4	2,732.19	1/4	3,201.67	1/4	3,661.98
1/2	49.12	1/2	266.23	1/2	580.39	1/2	953.49	1/2	1,367.99	1/2	1,811.10	1/2	2,272.26	1/2	2,742.01	1/2	3,211.38	1/2	3,671.40
3/4	52.43	3/4	271.99	3/4	587.62	3/4	961.74	3/4	1,376.96	3/4	1,820.56	3/4	2,281.98	3/4	2,751.82	3/4	3,221.10	3/4	3,680.83
6	55.74	6	277.75	6	594.85	6	969.99	6	1,385.94	6	1,830.01	6	2,291.71	6	2,761.63	6	3,230.81	6	3,690.25
1/4	59.34	1/4	283.66	1/4	602.18	1/4	978.32	1/4	1,394.96	1/4	1,839.49	1/4	2,301.46	1/4	2,771.44	1/4	3,240.51	1/4	3,699.64
1/2	62.94	1/2	289.57	1/2	609.52	1/2	986.64	1/2	1,403.98	1/2	1,848.98	1/2	2,311.20	1/2	2,781.26	1/2	3,250.20	1/2	3,709.03
3/4	66.54	3/4	295.47	3/4	616.85	3/4	994.97	3/4	1,413.00	3/4	1,858.46	3/4	2,320.94	3/4	2,791.07	3/4	3,259.90	3/4	3,718.41
7	70.13	7	301.38	7	624.18	7	1,003.29	7	1,422.02	7	1,867.95	7	2,330.68	7	2,800.88	7	3,269.60	7	3,727.80
1/4	73.84	1/4	307.43	1/4	631.61	1/4	1,011.69	1/4	1,431.09	1/4	1,877.46	1/4	2,340.44	1/4	2,810.69	1/4	3,279.27	1/4	3,737.16
1/2	77.55	1/2	313.48	1/2	639.04	1/2	1,020.08	1/2	1,440.16	1/2	1,886.97	1/2	2,350.20	1/2	2,820.50	1/2	3,288.95	1/2	3,746.51
3/4	81.25	3/4	319.53	3/4	646.47	3/4	1,028.47	3/4	1,449.23	3/4	1,896.49	3/4	2,359.95	3/4	2,830.31	3/4	3,298.63	3/4	3,755.86
8	84.96	8	325.58	8	653.90	8	1,036.87	8	1,458.30	8	1,906.00	8	2,369.71	8	2,840.12	8	3,308.31	8	3,765.22
1/4	88.76	1/4	331.77	1/4	661.42	1/4	1,045.32	1/4	1,467.41	1/4	1,915.54	1/4	2,379.47	1/4	2,849.93	1/4	3,317.97	1/4	3,774.53
1/2	92.56	1/2	337.95	1/2	668.94	1/2	1,053.78	1/2	1,476.53	1/2	1,925.08	1/2	2,389.24	1/2	2,859.73	1/2	3,327.62	1/2	3,783.85
3/4	96.35	3/4	344.14	3/4	676.46	3/4	1,062.24	3/4	1,485.64	3/4	1,934.62	3/4	2,399.01	3/4	2,869.54	3/4	3,337.28	3/4	3,793.17
9	100.15	9	350.33	9	683.99	9	1,070.70	9	1,494.76	9	1,944.16	9	2,408.78	9	2,879.34	9	3,346.94	9	3,802.49
1/4	104.18	1/4	356.64	1/4	691.60	1/4	1,079.23	1/4	1,503.91	1/4	1,953.73	1/4	2,418.55	1/4	2,889.14	1/4	3,356.58	1/4	3,811.77
1/2	108.20	1/2	362.96	1/2	699.21	1/2	1,087.75	1/2	1,513.07	1/2	1,963.30	1/2	2,428.33	1/2	2,898.95	1/2	3,366.22	1/2	3,821.05
3/4	112.23	3/4	369.28	3/4	706.83	3/4	1,096.27	3/4	1,522.23	3/4	1,972.87	3/4	2,438.11	3/4	2,908.75	3/4	3,375.86	3/4	3,830.33
10	116.26	10	375.60	10	714.44	10	1,104.80	10	1,531.39	10	1,982.43	10	2,447.89	10	2,918.55	10	3,385.49	10	3,839.61
1/4	120.50	1/4	382.05	1/4	722.14	1/4	1,113.38	1/4	1,540.59	1/4	1,992.02	1/4	2,457.67	1/4	2,928.34	1/4	3,395.11	1/4	3,848.85
1/2	124.74	1/2	388.49	1/2	729.84	1/2	1,121.97	1/2	1,549.79	1/2	2,001.62	1/2	2,467.46	1/2	2,938.14	1/2	3,404.72	1/2	3,858.09
3/4	128.98	3/4	394.94	3/4	737.55	3/4	1,130.55	3/4	1,558.99	3/4	2,011.21	3/4	2,477.25	3/4	2,947.93	3/4	3,414.34	3/4	3,867.33
11	133.21	11	401.38	11	745.25	11	1,139.14	11	1,568.19	11	2,020.80	11	2,487.03	11	2,957.72	11	3,423.96	11	3,876.57
1/4	137.65	1/4	407.95	1/4	753.03	1/4	1,147.79	1/4	1,577.43	1/4	2,030.42	1/4	2,496.83	1/4	2,967.51	1/4	3,433.55	1/4	3,885.77
1/2	142.09	1/2	414.52	1/2	760.82	1/2	1,156.43	1/2	1,586.67	1/2	2,040.03	1/2	2,506.62	1/2	2,977.30	1/2	3,443.14	1/2	3,894.97
3/4	146.53	3/4	421.09	3/4	768.61	3/4	1,165.08	3/4	1,595.91	3/4	2,049.65	3/4	2,516.42	3/4	2,987.08	3/4	3,452.73	3/4	3,904.17

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.2E.
 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.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 403"

PORT HORIZONTAL INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,913.37	0	4,339.96	0	4,730.32	0	5,069.15	0	5,332.69	0		0		0		0		0	
1/4	3,922.53	1/4	4,348.48	1/4	4,737.93	1/4	5,075.47	1/4	5,337.02	1/4		1/4		1/4		1/4		1/4	
1/2	3,931.69	1/2	4,357.01	1/2	4,745.54	1/2	5,081.78	1/2	5,341.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,940.84	3/4	4,365.53	3/4	4,753.16	3/4	5,088.10	3/4	5,345.68	3/4		3/4		3/4		3/4		3/4	
1	3,950.00	1	4,374.05	1	4,760.77	1	5,094.42	1	5,350.00	1		1		1		1		1	
1/4	3,959.11	1/4	4,382.51	1/4	4,768.29	1/4	5,100.60	1/4	5,354.10	1/4		1/4		1/4		1/4		1/4	
1/2	3,968.23	1/2	4,390.97	1/2	4,775.81	1/2	5,106.79	1/2	5,358.21	1/2		1/2		1/2		1/2		1/2	
3/4	3,977.34	3/4	4,399.43	3/4	4,783.34	3/4	5,112.97	3/4	5,362.31	3/4		3/4		3/4		3/4		3/4	
2	3,986.46	2	4,407.89	2	4,790.86	2	5,119.16	2	5,366.41	2		2		2		2		2	
1/4	3,995.53	1/4	4,416.28	1/4	4,798.29	1/4	5,125.21	1/4	5,370.27	1/4		1/4		1/4		1/4		1/4	
1/2	4,004.59	1/2	4,424.68	1/2	4,805.72	1/2	5,131.26	1/2	5,374.13	1/2		1/2		1/2		1/2		1/2	
3/4	4,013.66	3/4	4,433.07	3/4	4,813.15	3/4	5,137.31	3/4	5,377.99	3/4		3/4		3/4		3/4		3/4	
3	4,022.73	3	4,441.46	3	4,820.57	3	5,143.35	3	5,381.85	3		3		3		3		3	
1/4	4,031.75	1/4	4,449.79	1/4	4,827.91	1/4	5,149.26	1/4	5,385.45	1/4		1/4		1/4		1/4		1/4	
1/2	4,040.77	1/2	4,458.11	1/2	4,835.24	1/2	5,155.17	1/2	5,389.05	1/2		1/2		1/2		1/2		1/2	
3/4	4,049.80	3/4	4,466.44	3/4	4,842.57	3/4	5,161.08	3/4	5,392.66	3/4		3/4		3/4		3/4		3/4	
4	4,058.82	4	4,474.76	4	4,849.90	4	5,166.98	4	5,396.26	4		4		4		4		4	
1/4	4,067.79	1/4	4,483.02	1/4	4,857.14	1/4	5,172.75	1/4	5,399.58	1/4		1/4		1/4		1/4		1/4	
1/2	4,076.76	1/2	4,491.27	1/2	4,864.37	1/2	5,178.51	1/2	5,402.89	1/2		1/2		1/2		1/2		1/2	
3/4	4,085.74	3/4	4,499.53	3/4	4,871.60	3/4	5,184.27	3/4	5,406.21	3/4		3/4		3/4		3/4		3/4	
5	4,094.71	5	4,507.78	5	4,878.84	5	5,190.03	5	5,409.53	5		5		5		5		5	
1/4	4,103.63	1/4	4,515.96	1/4	4,885.97	1/4	5,195.64	1/4	5,412.54	1/4		1/4		1/4		1/4		1/4	
1/2	4,112.56	1/2	4,524.14	1/2	4,893.10	1/2	5,201.25	1/2	5,415.54	1/2		1/2		1/2		1/2		1/2	
3/4	4,121.48	3/4	4,532.33	3/4	4,900.23	3/4	5,206.86	3/4	5,418.55	3/4		3/4		3/4		3/4		3/4	
6	4,130.40	6	4,540.51	6	4,907.36	6	5,212.47	6	5,421.56	6		6		6		6		6	
1/4	4,139.27	1/4	4,548.62	1/4	4,914.38	1/4	5,217.92	1/4	5,424.21	1/4		1/4		1/4		1/4		1/4	
1/2	4,148.15	1/2	4,556.72	1/2	4,921.41	1/2	5,223.37	1/2	5,426.86	1/2		1/2		1/2		1/2		1/2	
3/4	4,157.02	3/4	4,564.83	3/4	4,928.43	3/4	5,228.82	3/4	5,429.52	3/4		3/4		3/4		3/4		3/4	
7	4,165.89	7	4,572.94	7	4,935.46	7	5,234.27	7	5,432.17	7		7		7		7		7	
1/4	4,174.71	1/4	4,580.97	1/4	4,942.37	1/4	5,239.56	1/4	5,434.42	1/4		1/4		1/4		1/4		1/4	
1/2	4,183.52	1/2	4,589.00	1/2	4,949.29	1/2	5,244.84	1/2	5,436.66	1/2		1/2		1/2		1/2		1/2	
3/4	4,192.34	3/4	4,597.03	3/4	4,956.21	3/4	5,250.12	3/4	5,438.91	3/4		3/4		3/4		3/4		3/4	
8	4,201.16	8	4,605.06	8	4,963.12	8	5,255.41	8	5,441.15	8		8		8		8		8	
1/4	4,209.92	1/4	4,613.02	1/4	4,969.93	1/4	5,260.52	1/4	5,442.89	1/4		1/4		1/4		1/4		1/4	
1/2	4,218.68	1/2	4,620.97	1/2	4,976.73	1/2	5,265.63	1/2	5,444.62	1/2		1/2		1/2		1/2		1/2	
3/4	4,227.45	3/4	4,628.92	3/4	4,983.54	3/4	5,270.74	3/4	5,446.36	3/4		3/4		3/4		3/4		3/4	
9	4,236.21	9	4,636.87	9	4,990.34	9	5,275.86	9	5,448.09	9		9		9		9		9	
1/4	4,244.91	1/4	4,644.74	1/4	4,997.03	1/4	5,280.79	1/4	5,449.04	1/4		1/4		1/4		1/4		1/4	
1/2	4,253.62	1/2	4,652.62	1/2	5,003.72	1/2	5,285.72	1/2	5,449.99	1/2		1/2		1/2		1/2		1/2	
3/4	4,262.32	3/4	4,660.49	3/4	5,010.41	3/4	5,290.65	3/4	5,450.94	3/4		3/4		3/4		3/4		3/4	
10	4,271.03	10	4,668.36	10	5,017.10	10	5,295.58	10	5,451.89	10		10		10		10		10	
1/4	4,279.68	1/4	4,676.15	1/4	5,023.66	1/4	5,300.32	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,288.32	1/2	4,683.93	1/2	5,030.23	1/2	5,305.06	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,296.97	3/4	4,691.72	3/4	5,036.80	3/4	5,309.80	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,305.62	11	4,699.51	11	5,043.37	11	5,314.54	11		11		11		11		11		11	
1/4	4,314.20	1/4	4,707.21	1/4	5,049.81	1/4	5,319.08	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,322.79	1/2	4,714.91	1/2	5,056.26	1/2	5,323.61	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,331.37	3/4	4,722.61	3/4	5,062.70	3/4	5,328.15	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/16/2011 CL - SW
CALCULATED: 09/17/2011 CL
REPRINTED: 10/04/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2011

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



BARGE "EMS 403"

CENTER HORIZONTAL INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0.21	0	150.91	0	427.45	0	775.97	0	1,173.01	0	1,604.11	0	2,057.87	0	2,524.44	0	2,994.73	0	3,459.81
1/4	1.15	1/4	155.54	1/4	434.13	1/4	783.83	1/4	1,181.71	1/4	1,613.38	1/4	2,067.50	1/4	2,534.24	1/4	3,004.50	1/4	3,469.37
1/2	2.10	1/2	160.17	1/2	440.82	1/2	791.70	1/2	1,190.41	1/2	1,622.66	1/2	2,077.13	1/2	2,544.03	1/2	3,014.27	1/2	3,478.93
3/4	3.04	3/4	164.80	3/4	447.50	3/4	799.56	3/4	1,199.11	3/4	1,631.93	3/4	2,086.76	3/4	2,553.82	3/4	3,024.03	3/4	3,488.49
1	3.99	1	169.42	1	454.19	1	807.43	1	1,207.81	1	1,641.20	1	2,096.39	1	2,563.62	1	3,033.80	1	3,498.05
1/4	5.72	1/4	174.38	1/4	460.99	1/4	815.38	1/4	1,216.57	1/4	1,650.51	1/4	2,106.04	1/4	2,573.41	1/4	3,043.56	1/4	3,507.58
1/2	7.45	1/2	179.34	1/2	467.79	1/2	823.32	1/2	1,225.32	1/2	1,659.82	1/2	2,115.69	1/2	2,583.21	1/2	3,053.32	1/2	3,517.11
3/4	9.18	3/4	184.30	3/4	474.59	3/4	831.27	3/4	1,234.08	3/4	1,669.13	3/4	2,125.34	3/4	2,593.01	3/4	3,063.08	3/4	3,526.65
2	10.91	2	189.26	2	481.39	2	839.22	2	1,242.83	2	1,678.44	2	2,134.99	2	2,602.81	2	3,072.84	2	3,536.18
1/4	13.15	1/4	194.54	1/4	488.30	1/4	847.24	1/4	1,251.64	1/4	1,687.79	1/4	2,144.66	1/4	2,612.61	1/4	3,082.59	1/4	3,545.69
1/2	15.39	1/2	199.82	1/2	495.21	1/2	855.27	1/2	1,260.46	1/2	1,697.14	1/2	2,154.34	1/2	2,622.41	1/2	3,092.34	1/2	3,555.19
3/4	17.63	3/4	205.10	3/4	502.13	3/4	863.29	3/4	1,269.27	3/4	1,706.48	3/4	2,164.01	3/4	2,632.21	3/4	3,102.09	3/4	3,564.70
3	19.87	3	210.38	3	509.04	3	871.32	3	1,278.08	3	1,715.83	3	2,173.68	3	2,642.01	3	3,111.83	3	3,574.20
1/4	22.52	1/4	215.83	1/4	516.06	1/4	879.42	1/4	1,286.94	1/4	1,725.21	1/4	2,183.36	1/4	2,651.82	1/4	3,121.57	1/4	3,583.68
1/2	25.17	1/2	221.28	1/2	523.08	1/2	887.52	1/2	1,295.81	1/2	1,734.59	1/2	2,193.05	1/2	2,661.62	1/2	3,131.30	1/2	3,593.16
3/4	27.82	3/4	226.72	3/4	530.10	3/4	895.63	3/4	1,304.67	3/4	1,743.97	3/4	2,202.74	3/4	2,671.43	3/4	3,141.04	3/4	3,602.63
4	30.47	4	232.17	4	537.12	4	903.73	4	1,313.54	4	1,753.36	4	2,212.43	4	2,681.23	4	3,150.77	4	3,612.11
1/4	33.47	1/4	237.77	1/4	544.25	1/4	911.90	1/4	1,322.45	1/4	1,762.77	1/4	2,222.14	1/4	2,691.04	1/4	3,160.49	1/4	3,621.56
1/2	36.47	1/2	243.38	1/2	551.37	1/2	920.08	1/2	1,331.37	1/2	1,772.18	1/2	2,231.84	1/2	2,700.84	1/2	3,170.22	1/2	3,631.00
3/4	39.47	3/4	248.99	3/4	558.50	3/4	928.26	3/4	1,340.29	3/4	1,781.60	3/4	2,241.55	3/4	2,710.65	3/4	3,179.94	3/4	3,640.45
5	42.47	5	254.59	5	565.63	5	936.43	5	1,349.20	5	1,791.01	5	2,251.25	5	2,720.45	5	3,189.66	5	3,649.90
1/4	45.79	1/4	260.35	1/4	572.85	1/4	944.68	1/4	1,358.17	1/4	1,800.46	1/4	2,260.97	1/4	2,730.26	1/4	3,199.36	1/4	3,659.31
1/2	49.10	1/2	266.11	1/2	580.08	1/2	952.93	1/2	1,367.13	1/2	1,809.91	1/2	2,270.69	1/2	2,740.07	1/2	3,209.07	1/2	3,668.72
3/4	52.41	3/4	271.87	3/4	587.31	3/4	961.18	3/4	1,376.10	3/4	1,819.35	3/4	2,280.41	3/4	2,749.87	3/4	3,218.77	3/4	3,678.14
6	55.73	6	277.62	6	594.54	6	969.43	6	1,385.07	6	1,828.80	6	2,290.13	6	2,759.68	6	3,228.48	6	3,687.55
1/4	59.32	1/4	283.53	1/4	601.87	1/4	977.75	1/4	1,394.08	1/4	1,838.28	1/4	2,299.87	1/4	2,769.48	1/4	3,238.17	1/4	3,696.93
1/2	62.92	1/2	289.43	1/2	609.19	1/2	986.07	1/2	1,403.10	1/2	1,847.75	1/2	2,309.60	1/2	2,779.29	1/2	3,247.86	1/2	3,706.32
3/4	66.51	3/4	295.34	3/4	616.52	3/4	994.38	3/4	1,412.11	3/4	1,857.23	3/4	2,319.34	3/4	2,789.09	3/4	3,257.54	3/4	3,715.70
7	70.11	7	301.24	7	623.85	7	1,002.70	7	1,421.13	7	1,866.71	7	2,329.07	7	2,798.89	7	3,267.23	7	3,725.08
1/4	73.82	1/4	307.29	1/4	631.27	1/4	1,011.09	1/4	1,430.19	1/4	1,876.21	1/4	2,338.82	1/4	2,808.70	1/4	3,276.90	1/4	3,734.42
1/2	77.52	1/2	313.34	1/2	638.70	1/2	1,019.48	1/2	1,439.25	1/2	1,885.72	1/2	2,348.57	1/2	2,818.50	1/2	3,286.57	1/2	3,743.77
3/4	81.23	3/4	319.38	3/4	646.12	3/4	1,027.86	3/4	1,448.31	3/4	1,895.22	3/4	2,358.32	3/4	2,828.30	3/4	3,296.24	3/4	3,753.12
8	84.93	8	325.43	8	653.54	8	1,036.25	8	1,457.37	8	1,904.73	8	2,368.07	8	2,838.10	8	3,305.91	8	3,762.46
1/4	88.73	1/4	331.61	1/4	661.06	1/4	1,044.70	1/4	1,466.48	1/4	1,914.26	1/4	2,377.83	1/4	2,847.90	1/4	3,315.57	1/4	3,771.77
1/2	92.52	1/2	337.79	1/2	668.58	1/2	1,053.16	1/2	1,475.59	1/2	1,923.80	1/2	2,387.59	1/2	2,857.70	1/2	3,325.22	1/2	3,781.09
3/4	96.32	3/4	343.98	3/4	676.10	3/4	1,061.61	3/4	1,484.70	3/4	1,933.33	3/4	2,397.34	3/4	2,867.50	3/4	3,334.87	3/4	3,790.40
9	100.11	9	350.16	9	683.61	9	1,070.06	9	1,493.80	9	1,942.86	9	2,407.10	9	2,877.29	9	3,344.52	9	3,799.71
1/4	104.14	1/4	356.48	1/4	691.22	1/4	1,078.58	1/4	1,502.95	1/4	1,952.42	1/4	2,416.87	1/4	2,887.09	1/4	3,354.15	1/4	3,808.98
1/2	108.16	1/2	362.79	1/2	698.83	1/2	1,087.10	1/2	1,512.10	1/2	1,961.98	1/2	2,426.64	1/2	2,896.88	1/2	3,363.78	1/2	3,818.25
3/4	112.19	3/4	369.10	3/4	706.44	3/4	1,095.62	3/4	1,521.25	3/4	1,971.54	3/4	2,436.41	3/4	2,906.67	3/4	3,373.41	3/4	3,827.52
10	116.22	10	375.42	10	714.05	10	1,104.13	10	1,530.41	10	1,981.10	10	2,446.18	10	2,916.46	10	3,383.04	10	3,836.80
1/4	120.45	1/4	381.86	1/4	721.74	1/4	1,112.71	1/4	1,539.60	1/4	1,990.68	1/4	2,455.96	1/4	2,926.25	1/4	3,392.65	1/4	3,846.03
1/2	124.69	1/2	388.30	1/2	729.44	1/2	1,121.29	1/2	1,548.79	1/2	2,000.27	1/2	2,465.74	1/2	2,936.04	1/2	3,402.25	1/2	3,855.26
3/4	128.93	3/4	394.75	3/4	737.14	3/4	1,129.87	3/4	1,557.98	3/4	2,009.85	3/4	2,475.52	3/4	2,945.82	3/4	3,411.86	3/4	3,864.50
11	133.16	11	401.19	11	744.84	11	1,138.45	11	1,567.18	11	2,019.44	11	2,485.30	11	2,955.61	11	3,421.47	11	3,873.73
1/4	137.60	1/4	407.75	1/4	752.62	1/4	1,147.09	1/4	1,576.41	1/4	2,029.05	1/4	2,495.08	1/4	2,965.39	1/4	3,431.05	1/4	3,882.92
1/2	142.04	1/2	414.32	1/2	760.40	1/2	1,155.73	1/2	1,585.64	1/2	2,038.65	1/2	2,504.87	1/2	2,975.17	1/2	3,440.64	1/2	3,892.12
3/4	146.48	3/4	420.88	3/4	768.18	3/4	1,164.37	3/4	1,594.88	3/4	2,048.26	3/4	2,514.66	3/4	2,984.95	3/4	3,450.22	3/4	3,901.31

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.2E.
 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.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 403"

CENTER HORIZONTAL INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,910.50	0	4,336.78	0	4,726.86	0	5,065.48	0	5,328.89	0		0		0		0		0	
1/4	3,919.65	1/4	4,345.29	1/4	4,734.47	1/4	5,071.80	1/4	5,333.21	1/4		1/4		1/4		1/4		1/4	
1/2	3,928.80	1/2	4,353.81	1/2	4,742.08	1/2	5,078.11	1/2	5,337.54	1/2		1/2		1/2		1/2		1/2	
3/4	3,937.96	3/4	4,362.33	3/4	4,749.69	3/4	5,084.42	3/4	5,341.87	3/4		3/4		3/4		3/4		3/4	
1	3,947.11	1	4,370.85	1	4,757.29	1	5,090.74	1	5,346.19	1		1		1		1		1	
1/4	3,956.21	1/4	4,379.30	1/4	4,764.81	1/4	5,096.92	1/4	5,350.29	1/4		1/4		1/4		1/4		1/4	
1/2	3,965.32	1/2	4,387.75	1/2	4,772.33	1/2	5,103.10	1/2	5,354.39	1/2		1/2		1/2		1/2		1/2	
3/4	3,974.43	3/4	4,396.20	3/4	4,779.85	3/4	5,109.28	3/4	5,358.49	3/4		3/4		3/4		3/4		3/4	
2	3,983.53	2	4,404.66	2	4,787.36	2	5,115.46	2	5,362.59	2		2		2		2		2	
1/4	3,992.60	1/4	4,413.04	1/4	4,794.79	1/4	5,121.51	1/4	5,366.45	1/4		1/4		1/4		1/4		1/4	
1/2	4,001.66	1/2	4,421.43	1/2	4,802.21	1/2	5,127.56	1/2	5,370.31	1/2		1/2		1/2		1/2		1/2	
3/4	4,010.72	3/4	4,429.82	3/4	4,809.64	3/4	5,133.60	3/4	5,374.17	3/4		3/4		3/4		3/4		3/4	
3	4,019.78	3	4,438.21	3	4,817.06	3	5,139.65	3	5,378.03	3		3		3		3		3	
1/4	4,028.80	1/4	4,446.52	1/4	4,824.39	1/4	5,145.55	1/4	5,381.63	1/4		1/4		1/4		1/4		1/4	
1/2	4,037.81	1/2	4,454.84	1/2	4,831.72	1/2	5,151.45	1/2	5,385.23	1/2		1/2		1/2		1/2		1/2	
3/4	4,046.83	3/4	4,463.16	3/4	4,839.04	3/4	5,157.36	3/4	5,388.83	3/4		3/4		3/4		3/4		3/4	
4	4,055.84	4	4,471.48	4	4,846.37	4	5,163.26	4	5,392.43	4		4		4		4		4	
1/4	4,064.81	1/4	4,479.73	1/4	4,853.60	1/4	5,169.02	1/4	5,395.74	1/4		1/4		1/4		1/4		1/4	
1/2	4,073.77	1/2	4,487.98	1/2	4,860.83	1/2	5,174.78	1/2	5,399.06	1/2		1/2		1/2		1/2		1/2	
3/4	4,082.74	3/4	4,496.23	3/4	4,868.06	3/4	5,180.54	3/4	5,402.38	3/4		3/4		3/4		3/4		3/4	
5	4,091.71	5	4,504.48	5	4,875.28	5	5,186.30	5	5,405.70	5		5		5		5		5	
1/4	4,100.62	1/4	4,512.65	1/4	4,882.41	1/4	5,191.90	1/4	5,408.70	1/4		1/4		1/4		1/4		1/4	
1/2	4,109.54	1/2	4,520.83	1/2	4,889.54	1/2	5,197.51	1/2	5,411.71	1/2		1/2		1/2		1/2		1/2	
3/4	4,118.46	3/4	4,529.01	3/4	4,896.66	3/4	5,203.12	3/4	5,414.71	3/4		3/4		3/4		3/4		3/4	
6	4,127.37	6	4,537.18	6	4,903.79	6	5,208.72	6	5,417.72	6		6		6		6		6	
1/4	4,136.24	1/4	4,545.28	1/4	4,910.81	1/4	5,214.17	1/4	5,420.37	1/4		1/4		1/4		1/4		1/4	
1/2	4,145.10	1/2	4,553.39	1/2	4,917.83	1/2	5,219.62	1/2	5,423.02	1/2		1/2		1/2		1/2		1/2	
3/4	4,153.97	3/4	4,561.49	3/4	4,924.85	3/4	5,225.07	3/4	5,425.68	3/4		3/4		3/4		3/4		3/4	
7	4,162.83	7	4,569.59	7	4,931.87	7	5,230.51	7	5,428.33	7		7		7		7		7	
1/4	4,171.64	1/4	4,577.62	1/4	4,938.78	1/4	5,235.80	1/4	5,430.58	1/4		1/4		1/4		1/4		1/4	
1/2	4,180.45	1/2	4,585.64	1/2	4,945.70	1/2	5,241.08	1/2	5,432.82	1/2		1/2		1/2		1/2		1/2	
3/4	4,189.26	3/4	4,593.67	3/4	4,952.61	3/4	5,246.36	3/4	5,435.06	3/4		3/4		3/4		3/4		3/4	
8	4,198.08	8	4,601.69	8	4,959.52	8	5,251.64	8	5,437.31	8		8		8		8		8	
1/4	4,206.83	1/4	4,609.64	1/4	4,966.32	1/4	5,256.75	1/4	5,439.04	1/4		1/4		1/4		1/4		1/4	
1/2	4,215.59	1/2	4,617.59	1/2	4,973.12	1/2	5,261.86	1/2	5,440.78	1/2		1/2		1/2		1/2		1/2	
3/4	4,224.34	3/4	4,625.53	3/4	4,979.92	3/4	5,266.97	3/4	5,442.51	3/4		3/4		3/4		3/4		3/4	
9	4,233.10	9	4,633.48	9	4,986.72	9	5,272.08	9	5,444.25	9		9		9		9		9	
1/4	4,241.80	1/4	4,641.35	1/4	4,993.41	1/4	5,277.01	1/4	5,445.20	1/4		1/4		1/4		1/4		1/4	
1/2	4,250.50	1/2	4,649.21	1/2	5,000.09	1/2	5,281.93	1/2	5,446.14	1/2		1/2		1/2		1/2		1/2	
3/4	4,259.20	3/4	4,657.08	3/4	5,006.77	3/4	5,286.86	3/4	5,447.09	3/4		3/4		3/4		3/4		3/4	
10	4,267.90	10	4,664.94	10	5,013.46	10	5,291.79	10	5,448.04	10		10		10		10		10	
1/4	4,276.54	1/4	4,672.73	1/4	5,020.02	1/4	5,296.53	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,285.18	1/2	4,680.51	1/2	5,026.59	1/2	5,301.26	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,293.82	3/4	4,688.29	3/4	5,033.15	3/4	5,306.00	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,302.46	11	4,696.07	11	5,039.72	11	5,310.74	11		11		11		11		11		11	
1/4	4,311.04	1/4	4,703.77	1/4	5,046.16	1/4	5,315.28	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,319.62	1/2	4,711.47	1/2	5,052.60	1/2	5,319.81	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,328.20	3/4	4,719.16	3/4	5,059.04	3/4	5,324.35	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 09/16/2011 CL - SW
CALCULATED: 09/17/2011 CL
REPRINTED: 10/04/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2011

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 403"

STBD HORIZONTAL INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0.21	0	150.95	0	427.61	0	776.35	0	1,173.69	0	1,605.14	0	2,059.30	0	2,526.30	0	2,997.01	0	3,462.51
1/4	1.15	1/4	155.57	1/4	434.30	1/4	784.22	1/4	1,182.40	1/4	1,614.42	1/4	2,068.94	1/4	2,536.10	1/4	3,006.79	1/4	3,472.08
1/2	2.10	1/2	160.20	1/2	440.99	1/2	792.09	1/2	1,191.10	1/2	1,623.71	1/2	2,078.58	1/2	2,545.90	1/2	3,016.56	1/2	3,481.64
3/4	3.04	3/4	164.83	3/4	447.68	3/4	799.96	3/4	1,199.81	3/4	1,632.99	3/4	2,088.22	3/4	2,555.70	3/4	3,026.34	3/4	3,491.21
1	3.99	1	169.46	1	454.36	1	807.83	1	1,208.51	1	1,642.27	1	2,097.85	1	2,565.50	1	3,036.12	1	3,500.78
1/4	5.72	1/4	174.42	1/4	461.17	1/4	815.78	1/4	1,217.28	1/4	1,651.59	1/4	2,107.51	1/4	2,575.31	1/4	3,045.89	1/4	3,510.32
1/2	7.45	1/2	179.38	1/2	467.97	1/2	823.74	1/2	1,226.04	1/2	1,660.90	1/2	2,117.17	1/2	2,585.12	1/2	3,055.66	1/2	3,519.86
3/4	9.18	3/4	184.34	3/4	474.78	3/4	831.69	3/4	1,234.80	3/4	1,670.22	3/4	2,126.83	3/4	2,594.92	3/4	3,065.43	3/4	3,529.41
2	10.91	2	189.30	2	481.58	2	839.64	2	1,243.57	2	1,679.54	2	2,136.49	2	2,604.73	2	3,075.19	2	3,538.95
1/4	13.15	1/4	194.59	1/4	488.50	1/4	847.67	1/4	1,252.38	1/4	1,688.89	1/4	2,146.17	1/4	2,614.54	1/4	3,084.95	1/4	3,548.46
1/2	15.39	1/2	199.87	1/2	495.41	1/2	855.71	1/2	1,261.20	1/2	1,698.25	1/2	2,155.85	1/2	2,624.35	1/2	3,094.71	1/2	3,557.98
3/4	17.63	3/4	205.15	3/4	502.33	3/4	863.74	3/4	1,270.02	3/4	1,707.60	3/4	2,165.53	3/4	2,634.16	3/4	3,104.46	3/4	3,567.49
3	19.87	3	210.44	3	509.25	3	871.77	3	1,278.84	3	1,716.96	3	2,175.21	3	2,643.97	3	3,114.22	3	3,577.00
1/4	22.52	1/4	215.89	1/4	516.27	1/4	879.88	1/4	1,287.71	1/4	1,726.35	1/4	2,184.91	1/4	2,653.79	1/4	3,123.97	1/4	3,586.49
1/2	25.17	1/2	221.34	1/2	523.30	1/2	887.98	1/2	1,296.58	1/2	1,735.74	1/2	2,194.60	1/2	2,663.60	1/2	3,133.71	1/2	3,595.97
3/4	27.82	3/4	226.78	3/4	530.32	3/4	896.09	3/4	1,305.45	3/4	1,745.13	3/4	2,204.30	3/4	2,673.41	3/4	3,143.45	3/4	3,605.46
4	30.47	4	232.23	4	537.35	4	904.20	4	1,314.33	4	1,754.52	4	2,214.00	4	2,683.23	4	3,153.20	4	3,614.94
1/4	33.47	1/4	237.84	1/4	544.48	1/4	912.38	1/4	1,323.25	1/4	1,763.94	1/4	2,223.71	1/4	2,693.04	1/4	3,162.93	1/4	3,624.40
1/2	36.47	1/2	243.45	1/2	551.61	1/2	920.56	1/2	1,332.17	1/2	1,773.36	1/2	2,233.43	1/2	2,702.86	1/2	3,172.66	1/2	3,633.85
3/4	39.48	3/4	249.06	3/4	558.74	3/4	928.75	3/4	1,341.10	3/4	1,782.78	3/4	2,243.14	3/4	2,712.67	3/4	3,182.39	3/4	3,643.31
5	42.48	5	254.67	5	565.87	5	936.93	5	1,350.02	5	1,792.21	5	2,252.85	5	2,722.48	5	3,192.12	5	3,652.76
1/4	45.79	1/4	260.43	1/4	573.10	1/4	945.18	1/4	1,358.99	1/4	1,801.66	1/4	2,262.58	1/4	2,732.30	1/4	3,201.83	1/4	3,662.19
1/2	49.10	1/2	266.19	1/2	580.33	1/2	953.44	1/2	1,367.97	1/2	1,811.12	1/2	2,272.31	1/2	2,742.11	1/2	3,211.54	1/2	3,671.61
3/4	52.42	3/4	271.95	3/4	587.57	3/4	961.69	3/4	1,376.94	3/4	1,820.57	3/4	2,282.04	3/4	2,751.93	3/4	3,221.26	3/4	3,681.03
6	55.73	6	277.71	6	594.80	6	969.95	6	1,385.92	6	1,830.03	6	2,291.77	6	2,761.74	6	3,230.97	6	3,690.45
1/4	59.33	1/4	283.62	1/4	602.13	1/4	978.27	1/4	1,394.94	1/4	1,839.51	1/4	2,301.52	1/4	2,771.56	1/4	3,240.67	1/4	3,699.84
1/2	62.92	1/2	289.52	1/2	609.46	1/2	986.60	1/2	1,403.96	1/2	1,849.00	1/2	2,311.26	1/2	2,781.37	1/2	3,250.37	1/2	3,709.23
3/4	66.52	3/4	295.43	3/4	616.80	3/4	994.92	3/4	1,412.98	3/4	1,858.48	3/4	2,321.00	3/4	2,791.18	3/4	3,260.06	3/4	3,718.62
7	70.12	7	301.34	7	624.13	7	1,003.25	7	1,422.01	7	1,867.97	7	2,330.75	7	2,801.00	7	3,269.76	7	3,728.01
1/4	73.82	1/4	307.39	1/4	631.56	1/4	1,011.64	1/4	1,431.07	1/4	1,877.48	1/4	2,340.51	1/4	2,810.81	1/4	3,279.44	1/4	3,737.37
1/2	77.53	1/2	313.44	1/2	638.99	1/2	1,020.04	1/2	1,440.14	1/2	1,886.99	1/2	2,350.26	1/2	2,820.62	1/2	3,289.12	1/2	3,746.72
3/4	81.24	3/4	319.49	3/4	646.42	3/4	1,028.43	3/4	1,449.21	3/4	1,896.51	3/4	2,360.02	3/4	2,830.43	3/4	3,298.80	3/4	3,756.08
8	84.94	8	325.54	8	653.84	8	1,036.82	8	1,458.28	8	1,906.02	8	2,369.78	8	2,840.24	8	3,308.48	8	3,765.43
1/4	88.74	1/4	331.72	1/4	661.37	1/4	1,045.28	1/4	1,467.40	1/4	1,915.56	1/4	2,379.54	1/4	2,850.05	1/4	3,318.14	1/4	3,774.75
1/2	92.54	1/2	337.91	1/2	668.89	1/2	1,053.74	1/2	1,476.51	1/2	1,925.11	1/2	2,389.31	1/2	2,859.85	1/2	3,327.80	1/2	3,784.07
3/4	96.33	3/4	344.10	3/4	676.41	3/4	1,062.20	3/4	1,485.63	3/4	1,934.65	3/4	2,399.08	3/4	2,869.66	3/4	3,337.46	3/4	3,793.38
9	100.13	9	350.28	9	683.93	9	1,070.66	9	1,494.74	9	1,944.19	9	2,408.85	9	2,879.47	9	3,347.12	9	3,802.70
1/4	104.16	1/4	356.60	1/4	691.55	1/4	1,079.18	1/4	1,503.90	1/4	1,953.76	1/4	2,418.63	1/4	2,889.27	1/4	3,356.75	1/4	3,811.98
1/2	108.18	1/2	362.92	1/2	699.16	1/2	1,087.71	1/2	1,513.06	1/2	1,963.33	1/2	2,428.41	1/2	2,899.07	1/2	3,366.39	1/2	3,821.26
3/4	112.21	3/4	369.24	3/4	706.77	3/4	1,096.23	3/4	1,522.22	3/4	1,972.89	3/4	2,438.18	3/4	2,908.87	3/4	3,376.03	3/4	3,830.55
10	116.24	10	375.55	10	714.39	10	1,104.76	10	1,531.38	10	1,982.46	10	2,447.96	10	2,918.67	10	3,385.67	10	3,839.83
1/4	120.47	1/4	382.00	1/4	722.09	1/4	1,113.34	1/4	1,540.58	1/4	1,992.05	1/4	2,457.75	1/4	2,928.47	1/4	3,395.29	1/4	3,849.07
1/2	124.71	1/2	388.44	1/2	729.79	1/2	1,121.93	1/2	1,549.78	1/2	2,001.65	1/2	2,467.54	1/2	2,938.27	1/2	3,404.90	1/2	3,858.31
3/4	128.95	3/4	394.89	3/4	737.49	3/4	1,130.52	3/4	1,558.98	3/4	2,011.24	3/4	2,477.33	3/4	2,948.06	3/4	3,414.52	3/4	3,867.55
11	133.19	11	401.34	11	745.20	11	1,139.10	11	1,568.18	11	2,020.83	11	2,487.11	11	2,957.86	11	3,424.14	11	3,876.79
1/4	137.63	1/4	407.90	1/4	752.98	1/4	1,147.75	1/4	1,577.42	1/4	2,030.45	1/4	2,496.91	1/4	2,967.64	1/4	3,433.73	1/4	3,885.99
1/2	142.07	1/2	414.47	1/2	760.77	1/2	1,156.40	1/2	1,586.66	1/2	2,040.07	1/2	2,506.70	1/2	2,977.43	1/2	3,443.32	1/2	3,895.19
3/4	146.51	3/4	421.04	3/4	768.56	3/4	1,165.04	3/4	1,595.90	3/4	2,049.68	3/4	2,516.50	3/4	2,987.22	3/4	3,452.92	3/4	3,904.39

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.2E.
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.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "EMS 403"

STBD HORIZONTAL INNAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	3,913.59	0	4,340.21	0	4,730.58	0	5,069.41	0	5,332.93	0		0		0		0		0	
1/4	3,922.75	1/4	4,348.74	1/4	4,738.20	1/4	5,075.73	1/4	5,337.26	1/4		1/4		1/4		1/4		1/4	
1/2	3,931.91	1/2	4,357.26	1/2	4,745.81	1/2	5,082.04	1/2	5,341.58	1/2		1/2		1/2		1/2		1/2	
3/4	3,941.07	3/4	4,365.78	3/4	4,753.42	3/4	5,088.36	3/4	5,345.91	3/4		3/4		3/4		3/4		3/4	
1	3,950.23	1	4,374.31	1	4,761.04	1	5,094.68	1	5,350.24	1		1		1		1		1	
1/4	3,959.34	1/4	4,382.77	1/4	4,768.56	1/4	5,100.86	1/4	5,354.34	1/4		1/4		1/4		1/4		1/4	
1/2	3,968.46	1/2	4,391.23	1/2	4,776.08	1/2	5,107.05	1/2	5,358.44	1/2		1/2		1/2		1/2		1/2	
3/4	3,977.57	3/4	4,399.69	3/4	4,783.60	3/4	5,113.23	3/4	5,362.54	3/4		3/4		3/4		3/4		3/4	
2	3,986.69	2	4,408.15	2	4,791.13	2	5,119.42	2	5,366.64	2		2		2		2		2	
1/4	3,995.76	1/4	4,416.54	1/4	4,798.55	1/4	5,125.47	1/4	5,370.50	1/4		1/4		1/4		1/4		1/4	
1/2	4,004.83	1/2	4,424.93	1/2	4,805.98	1/2	5,131.51	1/2	5,374.36	1/2		1/2		1/2		1/2		1/2	
3/4	4,013.90	3/4	4,433.33	3/4	4,813.41	3/4	5,137.56	3/4	5,378.22	3/4		3/4		3/4		3/4		3/4	
3	4,022.96	3	4,441.72	3	4,820.84	3	5,143.61	3	5,382.08	3		3		3		3		3	
1/4	4,031.99	1/4	4,450.05	1/4	4,828.17	1/4	5,149.52	1/4	5,385.68	1/4		1/4		1/4		1/4		1/4	
1/2	4,041.01	1/2	4,458.37	1/2	4,835.51	1/2	5,155.42	1/2	5,389.28	1/2		1/2		1/2		1/2		1/2	
3/4	4,050.03	3/4	4,466.70	3/4	4,842.84	3/4	5,161.33	3/4	5,392.88	3/4		3/4		3/4		3/4		3/4	
4	4,059.05	4	4,475.02	4	4,850.17	4	5,167.24	4	5,396.48	4		4		4		4		4	
1/4	4,068.03	1/4	4,483.28	1/4	4,857.40	1/4	5,173.00	1/4	5,399.80	1/4		1/4		1/4		1/4		1/4	
1/2	4,077.00	1/2	4,491.53	1/2	4,864.64	1/2	5,178.76	1/2	5,403.12	1/2		1/2		1/2		1/2		1/2	
3/4	4,085.98	3/4	4,499.79	3/4	4,871.87	3/4	5,184.52	3/4	5,406.44	3/4		3/4		3/4		3/4		3/4	
5	4,094.95	5	4,508.04	5	4,879.10	5	5,190.28	5	5,409.75	5		5		5		5		5	
1/4	4,103.87	1/4	4,516.22	1/4	4,886.23	1/4	5,195.89	1/4	5,412.76	1/4		1/4		1/4		1/4		1/4	
1/2	4,112.80	1/2	4,524.41	1/2	4,893.36	1/2	5,201.50	1/2	5,415.77	1/2		1/2		1/2		1/2		1/2	
3/4	4,121.72	3/4	4,532.59	3/4	4,900.49	3/4	5,207.11	3/4	5,418.77	3/4		3/4		3/4		3/4		3/4	
6	4,130.64	6	4,540.77	6	4,907.62	6	5,212.72	6	5,421.78	6		6		6		6		6	
1/4	4,139.52	1/4	4,548.88	1/4	4,914.65	1/4	5,218.17	1/4	5,424.43	1/4		1/4		1/4		1/4		1/4	
1/2	4,148.39	1/2	4,556.99	1/2	4,921.67	1/2	5,223.62	1/2	5,427.09	1/2		1/2		1/2		1/2		1/2	
3/4	4,157.26	3/4	4,565.09	3/4	4,928.70	3/4	5,229.07	3/4	5,429.74	3/4		3/4		3/4		3/4		3/4	
7	4,166.13	7	4,573.20	7	4,935.72	7	5,234.52	7	5,432.39	7		7		7		7		7	
1/4	4,174.95	1/4	4,581.23	1/4	4,942.64	1/4	5,239.80	1/4	5,434.64	1/4		1/4		1/4		1/4		1/4	
1/2	4,183.77	1/2	4,589.26	1/2	4,949.56	1/2	5,245.09	1/2	5,436.88	1/2		1/2		1/2		1/2		1/2	
3/4	4,192.59	3/4	4,597.30	3/4	4,956.47	3/4	5,250.37	3/4	5,439.13	3/4		3/4		3/4		3/4		3/4	
8	4,201.40	8	4,605.33	8	4,963.39	8	5,255.66	8	5,441.37	8		8		8		8		8	
1/4	4,210.17	1/4	4,613.28	1/4	4,970.19	1/4	5,260.77	1/4	5,443.10	1/4		1/4		1/4		1/4		1/4	
1/2	4,218.93	1/2	4,621.23	1/2	4,977.00	1/2	5,265.88	1/2	5,444.84	1/2		1/2		1/2		1/2		1/2	
3/4	4,227.69	3/4	4,629.19	3/4	4,983.80	3/4	5,270.99	3/4	5,446.57	3/4		3/4		3/4		3/4		3/4	
9	4,236.46	9	4,637.14	9	4,990.60	9	5,276.10	9	5,448.31	9		9		9		9		9	
1/4	4,245.16	1/4	4,645.01	1/4	4,997.29	1/4	5,281.03	1/4	5,449.26	1/4		1/4		1/4		1/4		1/4	
1/2	4,253.87	1/2	4,652.88	1/2	5,003.98	1/2	5,285.96	1/2	5,450.21	1/2		1/2		1/2		1/2		1/2	
3/4	4,262.57	3/4	4,660.75	3/4	5,010.67	3/4	5,290.89	3/4	5,451.15	3/4		3/4		3/4		3/4		3/4	
10	4,271.28	10	4,668.62	10	5,017.36	10	5,295.82	10	5,452.10	10		10		10		10		10	
1/4	4,279.93	1/4	4,676.41	1/4	5,023.93	1/4	5,300.56	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,288.57	1/2	4,684.20	1/2	5,030.49	1/2	5,305.30	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,297.22	3/4	4,691.99	3/4	5,037.06	3/4	5,310.04	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,305.87	11	4,699.77	11	5,043.63	11	5,314.78	11		11		11		11		11		11	
1/4	4,314.45	1/4	4,707.48	1/4	5,050.08	1/4	5,319.31	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,323.04	1/2	4,715.18	1/2	5,056.52	1/2	5,323.85	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,331.63	3/4	4,722.88	3/4	5,062.96	3/4	5,328.39	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/16/2011 CL - SW
CALCULATED: 09/17/2011 CL
REPRINTED: 10/04/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 10/2011

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