



# BARGE "EMS 405"

# 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	150.81	0	427.28	0	775.81	0	1,172.93	0	1,604.17	0	2,058.11	0	2,524.89	0	2,995.39	0	3,460.67
1/4	1.15	1/4	155.44	1/4	433.97	1/4	783.67	1/4	1,181.63	1/4	1,613.44	1/4	2,067.74	1/4	2,534.69	1/4	3,005.16	1/4	3,470.24
1/2	2.09	1/2	160.07	1/2	440.65	1/2	791.54	1/2	1,190.34	1/2	1,622.72	1/2	2,077.38	1/2	2,544.48	1/2	3,014.93	1/2	3,479.80
3/4	3.04	3/4	164.69	3/4	447.34	3/4	799.41	3/4	1,199.04	3/4	1,632.00	3/4	2,087.01	3/4	2,554.28	3/4	3,024.71	3/4	3,489.36
1	3.98	1	169.32	1	454.02	1	807.27	1	1,207.74	1	1,641.27	1	2,096.64	1	2,564.08	1	3,034.48	1	3,498.93
1/4	5.71	1/4	174.27	1/4	460.82	1/4	815.22	1/4	1,216.50	1/4	1,650.59	1/4	2,106.30	1/4	2,573.88	1/4	3,044.25	1/4	3,508.46
1/2	7.44	1/2	179.23	1/2	467.62	1/2	823.17	1/2	1,225.26	1/2	1,659.90	1/2	2,115.96	1/2	2,583.68	1/2	3,054.01	1/2	3,518.00
3/4	9.17	3/4	184.19	3/4	474.42	3/4	831.12	3/4	1,234.01	3/4	1,669.21	3/4	2,125.61	3/4	2,593.48	3/4	3,063.77	3/4	3,527.54
2	10.90	2	189.14	2	481.22	2	839.07	2	1,242.77	2	1,678.53	2	2,135.27	2	2,603.29	2	3,073.54	2	3,537.08
1/4	13.14	1/4	194.42	1/4	488.13	1/4	847.09	1/4	1,251.59	1/4	1,687.88	1/4	2,144.94	1/4	2,613.09	1/4	3,083.29	1/4	3,546.59
1/2	15.37	1/2	199.70	1/2	495.04	1/2	855.12	1/2	1,260.40	1/2	1,697.23	1/2	2,154.61	1/2	2,622.90	1/2	3,093.04	1/2	3,556.09
3/4	17.61	3/4	204.98	3/4	501.96	3/4	863.15	3/4	1,269.21	3/4	1,706.58	3/4	2,164.29	3/4	2,632.71	3/4	3,102.79	3/4	3,565.60
3	19.85	3	210.26	3	508.87	3	871.17	3	1,278.03	3	1,715.93	3	2,173.96	3	2,642.51	3	3,112.55	3	3,575.11
1/4	22.50	1/4	215.71	1/4	515.89	1/4	879.28	1/4	1,286.89	1/4	1,725.31	1/4	2,183.66	1/4	2,652.32	1/4	3,122.29	1/4	3,584.59
1/2	25.15	1/2	221.15	1/2	522.91	1/2	887.38	1/2	1,295.76	1/2	1,734.70	1/2	2,193.35	1/2	2,662.13	1/2	3,132.03	1/2	3,594.08
3/4	27.79	3/4	226.60	3/4	529.93	3/4	895.48	3/4	1,304.63	3/4	1,744.08	3/4	2,203.04	3/4	2,671.94	3/4	3,141.76	3/4	3,603.56
4	30.44	4	232.04	4	536.95	4	903.59	4	1,313.50	4	1,753.47	4	2,212.73	4	2,681.75	4	3,151.50	4	3,613.04
1/4	33.44	1/4	237.64	1/4	544.08	1/4	911.77	1/4	1,322.41	1/4	1,762.89	1/4	2,222.44	1/4	2,691.56	1/4	3,161.23	1/4	3,622.49
1/2	36.44	1/2	243.25	1/2	551.20	1/2	919.94	1/2	1,331.33	1/2	1,772.30	1/2	2,232.15	1/2	2,701.37	1/2	3,170.95	1/2	3,631.94
3/4	39.44	3/4	248.85	3/4	558.33	3/4	928.12	3/4	1,340.25	3/4	1,781.72	3/4	2,241.86	3/4	2,711.18	3/4	3,180.68	3/4	3,641.39
5	42.44	5	254.46	5	565.45	5	936.30	5	1,349.17	5	1,791.14	5	2,251.57	5	2,720.99	5	3,190.40	5	3,650.84
1/4	45.75	1/4	260.21	1/4	572.68	1/4	944.55	1/4	1,358.14	1/4	1,800.59	1/4	2,261.30	1/4	2,730.80	1/4	3,200.11	1/4	3,660.25
1/2	49.06	1/2	265.97	1/2	579.91	1/2	952.80	1/2	1,367.11	1/2	1,810.04	1/2	2,271.02	1/2	2,740.61	1/2	3,209.82	1/2	3,669.67
3/4	52.37	3/4	271.73	3/4	587.14	3/4	961.05	3/4	1,376.08	3/4	1,819.49	3/4	2,280.75	3/4	2,750.42	3/4	3,219.53	3/4	3,679.09
6	55.68	6	277.48	6	594.37	6	969.30	6	1,385.05	6	1,828.94	6	2,290.47	6	2,760.23	6	3,229.24	6	3,688.51
1/4	59.27	1/4	283.39	1/4	601.70	1/4	977.62	1/4	1,394.07	1/4	1,838.42	1/4	2,300.21	1/4	2,770.04	1/4	3,238.94	1/4	3,697.89
1/2	62.87	1/2	289.29	1/2	609.02	1/2	985.94	1/2	1,403.08	1/2	1,847.90	1/2	2,309.95	1/2	2,779.85	1/2	3,248.63	1/2	3,707.28
3/4	66.46	3/4	295.19	3/4	616.35	3/4	994.26	3/4	1,412.10	3/4	1,857.38	3/4	2,319.69	3/4	2,789.66	3/4	3,258.32	3/4	3,716.66
7	70.05	7	301.10	7	623.68	7	1,002.58	7	1,421.12	7	1,866.86	7	2,329.43	7	2,799.46	7	3,268.01	7	3,726.05
1/4	73.76	1/4	307.14	1/4	631.10	1/4	1,010.97	1/4	1,430.18	1/4	1,876.37	1/4	2,339.18	1/4	2,809.27	1/4	3,277.69	1/4	3,735.40
1/2	77.46	1/2	313.19	1/2	638.53	1/2	1,019.36	1/2	1,439.25	1/2	1,885.88	1/2	2,348.94	1/2	2,819.08	1/2	3,287.36	1/2	3,744.75
3/4	81.16	3/4	319.23	3/4	645.95	3/4	1,027.75	3/4	1,448.31	3/4	1,895.39	3/4	2,358.69	3/4	2,828.88	3/4	3,297.04	3/4	3,754.10
8	84.87	8	325.28	8	653.38	8	1,036.14	8	1,457.38	8	1,904.90	8	2,368.44	8	2,838.69	8	3,306.71	8	3,763.45
1/4	88.66	1/4	331.46	1/4	660.89	1/4	1,044.59	1/4	1,466.49	1/4	1,914.44	1/4	2,378.20	1/4	2,848.49	1/4	3,316.37	1/4	3,772.76
1/2	92.45	1/2	337.64	1/2	668.41	1/2	1,053.05	1/2	1,475.60	1/2	1,923.98	1/2	2,387.97	1/2	2,858.29	1/2	3,326.02	1/2	3,782.08
3/4	96.25	3/4	343.82	3/4	675.93	3/4	1,061.50	3/4	1,484.71	3/4	1,933.51	3/4	2,397.73	3/4	2,868.10	3/4	3,335.68	3/4	3,791.39
9	100.04	9	350.01	9	683.45	9	1,069.96	9	1,493.82	9	1,943.05	9	2,407.50	9	2,877.90	9	3,345.33	9	3,800.70
1/4	104.06	1/4	356.32	1/4	691.06	1/4	1,078.48	1/4	1,502.97	1/4	1,952.61	1/4	2,417.27	1/4	2,887.70	1/4	3,354.97	1/4	3,809.98
1/2	108.09	1/2	362.63	1/2	698.67	1/2	1,087.00	1/2	1,512.13	1/2	1,962.18	1/2	2,427.04	1/2	2,897.49	1/2	3,364.60	1/2	3,819.26
3/4	112.11	3/4	368.95	3/4	706.27	3/4	1,095.52	3/4	1,521.28	3/4	1,971.74	3/4	2,436.82	3/4	2,907.29	3/4	3,374.24	3/4	3,828.53
10	116.13	10	375.26	10	713.88	10	1,104.04	10	1,530.44	10	1,981.31	10	2,446.59	10	2,917.09	10	3,383.87	10	3,837.81
1/4	120.37	1/4	381.70	1/4	721.58	1/4	1,112.62	1/4	1,539.63	1/4	1,990.89	1/4	2,456.38	1/4	2,926.88	1/4	3,393.48	1/4	3,847.05
1/2	124.60	1/2	388.14	1/2	729.28	1/2	1,121.20	1/2	1,548.83	1/2	2,000.48	1/2	2,466.16	1/2	2,936.67	1/2	3,403.09	1/2	3,856.28
3/4	128.84	3/4	394.58	3/4	736.98	3/4	1,129.78	3/4	1,558.02	3/4	2,010.07	3/4	2,475.94	3/4	2,946.46	3/4	3,412.71	3/4	3,865.52
11	133.07	11	401.03	11	744.67	11	1,138.36	11	1,567.22	11	2,019.66	11	2,485.72	11	2,956.25	11	3,422.32	11	3,874.76
1/4	137.51	1/4	407.59	1/4	752.46	1/4	1,147.01	1/4	1,576.46	1/4	2,029.27	1/4	2,495.52	1/4	2,966.04	1/4	3,431.91	1/4	3,883.95
1/2	141.94	1/2	414.15	1/2	760.24	1/2	1,155.65	1/2	1,585.69	1/2	2,038.88	1/2	2,505.31	1/2	2,975.82	1/2	3,441.50	1/2	3,893.15
3/4	146.38	3/4	420.72	3/4	768.02	3/4	1,164.29	3/4	1,594.93	3/4	2,048.50	3/4	2,515.10	3/4	2,985.60	3/4	3,451.08	3/4	3,902.35

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 405"

## 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	3,911.54	0	4,337.94	0	4,728.09	0	5,066.71	0	5,330.04	0		0		0		0		0	
1/4	3,920.70	1/4	4,346.46	1/4	4,735.70	1/4	5,073.02	1/4	5,334.36	1/4		1/4		1/4		1/4		1/4	
1/2	3,929.85	1/2	4,354.98	1/2	4,743.31	1/2	5,079.33	1/2	5,338.69	1/2		1/2		1/2		1/2		1/2	
3/4	3,939.00	3/4	4,363.50	3/4	4,750.92	3/4	5,085.65	3/4	5,343.01	3/4		3/4		3/4		3/4		3/4	
1	3,948.16	1	4,372.02	1	4,758.53	1	5,091.96	1	5,347.33	1		1		1		1		1	
1/4	3,957.27	1/4	4,380.47	1/4	4,766.05	1/4	5,098.14	1/4	5,351.43	1/4		1/4		1/4		1/4		1/4	
1/2	3,966.38	1/2	4,388.93	1/2	4,773.57	1/2	5,104.32	1/2	5,355.53	1/2		1/2		1/2		1/2		1/2	
3/4	3,975.49	3/4	4,397.38	3/4	4,781.08	3/4	5,110.50	3/4	5,359.63	3/4		3/4		3/4		3/4		3/4	
2	3,984.60	2	4,405.84	2	4,788.60	2	5,116.68	2	5,363.72	2		2		2		2		2	
1/4	3,993.66	1/4	4,414.23	1/4	4,796.03	1/4	5,122.73	1/4	5,367.58	1/4		1/4		1/4		1/4		1/4	
1/2	4,002.73	1/2	4,422.62	1/2	4,803.45	1/2	5,128.77	1/2	5,371.44	1/2		1/2		1/2		1/2		1/2	
3/4	4,011.79	3/4	4,431.01	3/4	4,810.87	3/4	5,134.82	3/4	5,375.30	3/4		3/4		3/4		3/4		3/4	
3	4,020.86	3	4,439.40	3	4,818.30	3	5,140.86	3	5,379.15	3		3		3		3		3	
1/4	4,029.88	1/4	4,447.72	1/4	4,825.63	1/4	5,146.76	1/4	5,382.75	1/4		1/4		1/4		1/4		1/4	
1/2	4,038.89	1/2	4,456.04	1/2	4,832.95	1/2	5,152.67	1/2	5,386.35	1/2		1/2		1/2		1/2		1/2	
3/4	4,047.91	3/4	4,464.36	3/4	4,840.28	3/4	5,158.57	3/4	5,389.94	3/4		3/4		3/4		3/4		3/4	
4	4,056.93	4	4,472.68	4	4,847.61	4	5,164.47	4	5,393.54	4		4		4		4		4	
1/4	4,065.90	1/4	4,480.93	1/4	4,854.84	1/4	5,170.23	1/4	5,396.86	1/4		1/4		1/4		1/4		1/4	
1/2	4,074.87	1/2	4,489.18	1/2	4,862.07	1/2	5,175.99	1/2	5,400.17	1/2		1/2		1/2		1/2		1/2	
3/4	4,083.84	3/4	4,497.43	3/4	4,869.30	3/4	5,181.74	3/4	5,403.49	3/4		3/4		3/4		3/4		3/4	
5	4,092.81	5	4,505.68	5	4,876.52	5	5,187.50	5	5,406.80	5		5		5		5		5	
1/4	4,101.72	1/4	4,513.86	1/4	4,883.65	1/4	5,193.11	1/4	5,409.80	1/4		1/4		1/4		1/4		1/4	
1/2	4,110.64	1/2	4,522.03	1/2	4,890.78	1/2	5,198.71	1/2	5,412.81	1/2		1/2		1/2		1/2		1/2	
3/4	4,119.56	3/4	4,530.21	3/4	4,897.90	3/4	5,204.32	3/4	5,415.81	3/4		3/4		3/4		3/4		3/4	
6	4,128.48	6	4,538.39	6	4,905.03	6	5,209.92	6	5,418.81	6		6		6		6		6	
1/4	4,137.35	1/4	4,546.49	1/4	4,912.05	1/4	5,215.37	1/4	5,421.46	1/4		1/4		1/4		1/4		1/4	
1/2	4,146.22	1/2	4,554.60	1/2	4,919.07	1/2	5,220.81	1/2	5,424.12	1/2		1/2		1/2		1/2		1/2	
3/4	4,155.08	3/4	4,562.70	3/4	4,926.09	3/4	5,226.26	3/4	5,426.77	3/4		3/4		3/4		3/4		3/4	
7	4,163.95	7	4,570.80	7	4,933.11	7	5,231.70	7	5,429.42	7		7		7		7		7	
1/4	4,172.76	1/4	4,578.83	1/4	4,940.02	1/4	5,236.99	1/4	5,431.66	1/4		1/4		1/4		1/4		1/4	
1/2	4,181.58	1/2	4,586.86	1/2	4,946.93	1/2	5,242.27	1/2	5,433.90	1/2		1/2		1/2		1/2		1/2	
3/4	4,190.39	3/4	4,594.88	3/4	4,953.85	3/4	5,247.55	3/4	5,436.15	3/4		3/4		3/4		3/4		3/4	
8	4,199.21	8	4,602.91	8	4,960.76	8	5,252.83	8	5,438.39	8		8		8		8		8	
1/4	4,207.96	1/4	4,610.86	1/4	4,967.56	1/4	5,257.93	1/4	5,440.12	1/4		1/4		1/4		1/4		1/4	
1/2	4,216.72	1/2	4,618.81	1/2	4,974.36	1/2	5,263.04	1/2	5,441.85	1/2		1/2		1/2		1/2		1/2	
3/4	4,225.48	3/4	4,626.76	3/4	4,981.16	3/4	5,268.15	3/4	5,443.59	3/4		3/4		3/4		3/4		3/4	
9	4,234.24	9	4,634.70	9	4,987.96	9	5,273.25	9	5,445.32	9		9		9		9		9	
1/4	4,242.94	1/4	4,642.57	1/4	4,994.64	1/4	5,278.18	1/4	5,446.27	1/4		1/4		1/4		1/4		1/4	
1/2	4,251.64	1/2	4,650.44	1/2	5,001.33	1/2	5,283.11	1/2	5,447.22	1/2		1/2		1/2		1/2		1/2	
3/4	4,260.34	3/4	4,658.30	3/4	5,008.01	3/4	5,288.03	3/4	5,448.16	3/4		3/4		3/4		3/4		3/4	
10	4,269.04	10	4,666.17	10	5,014.69	10	5,292.96	10	5,449.11	10		10		10		10		10	
1/4	4,277.69	1/4	4,673.95	1/4	5,021.26	1/4	5,297.69	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,286.33	1/2	4,681.74	1/2	5,027.82	1/2	5,302.43	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,294.97	3/4	4,689.52	3/4	5,034.38	3/4	5,307.16	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,303.61	11	4,697.30	11	5,040.95	11	5,311.90	11		11		11		11		11		11	
1/4	4,312.20	1/4	4,705.00	1/4	5,047.39	1/4	5,316.44	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,320.78	1/2	4,712.70	1/2	5,053.83	1/2	5,320.97	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,329.36	3/4	4,720.40	3/4	5,060.27	3/4	5,325.51	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2012 CL - SW  
CALCULATED: 04/25/2012 CL  
PRINTED: 04/25/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2012

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



# BARGE "EMS 405"

# 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	150.88	0	427.45	0	776.09	0	1,173.34	0	1,604.70	0	2,058.77	0	2,525.69	0	2,996.32	0	3,461.74
1/4	1.15	1/4	155.50	1/4	434.13	1/4	783.96	1/4	1,182.04	1/4	1,613.98	1/4	2,068.41	1/4	2,535.49	1/4	3,006.10	1/4	3,471.30
1/2	2.10	1/2	160.13	1/2	440.82	1/2	791.83	1/2	1,190.75	1/2	1,623.26	1/2	2,078.05	1/2	2,545.29	1/2	3,015.87	1/2	3,480.87
3/4	3.04	3/4	164.76	3/4	447.51	3/4	799.70	3/4	1,199.45	3/4	1,632.54	3/4	2,087.68	3/4	2,555.09	3/4	3,025.65	3/4	3,490.44
1	3.98	1	169.39	1	454.19	1	807.56	1	1,208.15	1	1,641.82	1	2,097.32	1	2,564.89	1	3,035.43	1	3,500.00
1/4	5.71	1/4	174.35	1/4	461.00	1/4	815.52	1/4	1,216.92	1/4	1,651.13	1/4	2,106.98	1/4	2,574.69	1/4	3,045.19	1/4	3,509.54
1/2	7.44	1/2	179.30	1/2	467.80	1/2	823.47	1/2	1,225.68	1/2	1,660.45	1/2	2,116.64	1/2	2,584.50	1/2	3,054.96	1/2	3,519.08
3/4	9.17	3/4	184.26	3/4	474.60	3/4	831.42	3/4	1,234.44	3/4	1,669.77	3/4	2,126.30	3/4	2,594.30	3/4	3,064.73	3/4	3,528.62
2	10.90	2	189.22	2	481.40	2	839.37	2	1,243.20	2	1,679.08	2	2,135.95	2	2,604.11	2	3,074.49	2	3,538.16
1/4	13.14	1/4	194.50	1/4	488.32	1/4	847.40	1/4	1,252.01	1/4	1,688.44	1/4	2,145.63	1/4	2,613.92	1/4	3,084.25	1/4	3,547.68
1/2	15.38	1/2	199.78	1/2	495.23	1/2	855.43	1/2	1,260.83	1/2	1,697.79	1/2	2,155.31	1/2	2,623.73	1/2	3,094.00	1/2	3,557.19
3/4	17.62	3/4	205.07	3/4	502.15	3/4	863.46	3/4	1,269.65	3/4	1,707.14	3/4	2,164.99	3/4	2,633.54	3/4	3,103.76	3/4	3,566.70
3	19.86	3	210.35	3	509.06	3	871.48	3	1,278.46	3	1,716.50	3	2,174.66	3	2,643.35	3	3,113.51	3	3,576.21
1/4	22.51	1/4	215.79	1/4	516.08	1/4	879.59	1/4	1,287.33	1/4	1,725.88	1/4	2,184.36	1/4	2,653.16	1/4	3,123.25	1/4	3,585.70
1/2	25.16	1/2	221.24	1/2	523.11	1/2	887.70	1/2	1,296.20	1/2	1,735.27	1/2	2,194.05	1/2	2,662.97	1/2	3,133.00	1/2	3,595.18
3/4	27.81	3/4	226.69	3/4	530.13	3/4	895.80	3/4	1,305.07	3/4	1,744.66	3/4	2,203.75	3/4	2,672.78	3/4	3,142.74	3/4	3,604.66
4	30.45	4	232.13	4	537.15	4	903.91	4	1,313.94	4	1,754.05	4	2,213.44	4	2,682.59	4	3,152.48	4	3,614.15
1/4	33.45	1/4	237.74	1/4	544.28	1/4	912.09	1/4	1,322.86	1/4	1,763.47	1/4	2,223.16	1/4	2,692.40	1/4	3,162.21	1/4	3,623.60
1/2	36.46	1/2	243.35	1/2	551.41	1/2	920.27	1/2	1,331.79	1/2	1,772.89	1/2	2,232.87	1/2	2,702.22	1/2	3,171.94	1/2	3,633.05
3/4	39.46	3/4	248.95	3/4	558.54	3/4	928.45	3/4	1,340.71	3/4	1,782.31	3/4	2,242.58	3/4	2,712.03	3/4	3,181.67	3/4	3,642.50
5	42.46	5	254.56	5	565.67	5	936.63	5	1,349.63	5	1,791.73	5	2,252.29	5	2,721.84	5	3,191.39	5	3,651.96
1/4	45.77	1/4	260.32	1/4	572.90	1/4	944.88	1/4	1,358.60	1/4	1,801.18	1/4	2,262.02	1/4	2,731.66	1/4	3,201.11	1/4	3,661.38
1/2	49.08	1/2	266.08	1/2	580.13	1/2	953.14	1/2	1,367.57	1/2	1,810.64	1/2	2,271.75	1/2	2,741.47	1/2	3,210.82	1/2	3,670.80
3/4	52.39	3/4	271.83	3/4	587.36	3/4	961.39	3/4	1,376.55	3/4	1,820.09	3/4	2,281.48	3/4	2,751.28	3/4	3,220.53	3/4	3,680.22
6	55.71	6	277.59	6	594.59	6	969.64	6	1,385.52	6	1,829.54	6	2,291.21	6	2,761.10	6	3,230.24	6	3,689.64
1/4	59.30	1/4	283.50	1/4	601.92	1/4	977.97	1/4	1,394.54	1/4	1,839.02	1/4	2,300.95	1/4	2,770.91	1/4	3,239.94	1/4	3,699.03
1/2	62.89	1/2	289.41	1/2	609.25	1/2	986.29	1/2	1,403.56	1/2	1,848.51	1/2	2,310.69	1/2	2,780.72	1/2	3,249.63	1/2	3,708.42
3/4	66.49	3/4	295.31	3/4	616.58	3/4	994.61	3/4	1,412.58	3/4	1,857.99	3/4	2,320.43	3/4	2,790.53	3/4	3,259.33	3/4	3,717.80
7	70.08	7	301.22	7	623.91	7	1,002.93	7	1,421.60	7	1,867.47	7	2,330.17	7	2,800.34	7	3,269.02	7	3,727.19
1/4	73.79	1/4	307.26	1/4	631.34	1/4	1,011.33	1/4	1,430.67	1/4	1,876.99	1/4	2,339.93	1/4	2,810.15	1/4	3,278.70	1/4	3,736.54
1/2	77.49	1/2	313.31	1/2	638.76	1/2	1,019.72	1/2	1,439.74	1/2	1,886.50	1/2	2,349.68	1/2	2,819.96	1/2	3,288.38	1/2	3,745.90
3/4	81.20	3/4	319.36	3/4	646.19	3/4	1,028.11	3/4	1,448.80	3/4	1,896.01	3/4	2,359.44	3/4	2,829.77	3/4	3,298.06	3/4	3,755.25
8	84.90	8	325.41	8	653.62	8	1,036.50	8	1,457.87	8	1,905.52	8	2,369.19	8	2,839.58	8	3,307.73	8	3,764.60
1/4	88.70	1/4	331.59	1/4	661.14	1/4	1,044.96	1/4	1,466.98	1/4	1,915.06	1/4	2,378.96	1/4	2,849.38	1/4	3,317.39	1/4	3,773.92
1/2	92.49	1/2	337.77	1/2	668.66	1/2	1,053.42	1/2	1,476.10	1/2	1,924.60	1/2	2,388.73	1/2	2,859.19	1/2	3,327.05	1/2	3,783.24
3/4	96.29	3/4	343.96	3/4	676.18	3/4	1,061.87	3/4	1,485.21	3/4	1,934.14	3/4	2,398.49	3/4	2,868.99	3/4	3,336.71	3/4	3,792.55
9	100.08	9	350.14	9	683.70	9	1,070.33	9	1,494.32	9	1,943.68	9	2,408.26	9	2,878.80	9	3,346.37	9	3,801.87
1/4	104.11	1/4	356.46	1/4	691.31	1/4	1,078.85	1/4	1,503.48	1/4	1,953.25	1/4	2,418.04	1/4	2,888.60	1/4	3,356.00	1/4	3,811.15
1/2	108.13	1/2	362.77	1/2	698.92	1/2	1,087.38	1/2	1,512.63	1/2	1,962.82	1/2	2,427.82	1/2	2,898.40	1/2	3,365.64	1/2	3,820.43
3/4	112.16	3/4	369.09	3/4	706.53	3/4	1,095.90	3/4	1,521.79	3/4	1,972.38	3/4	2,437.59	3/4	2,908.20	3/4	3,375.28	3/4	3,829.71
10	116.18	10	375.41	10	714.14	10	1,104.42	10	1,530.95	10	1,981.95	10	2,447.37	10	2,918.00	10	3,384.91	10	3,838.99
1/4	120.42	1/4	381.85	1/4	721.84	1/4	1,113.00	1/4	1,540.15	1/4	1,991.54	1/4	2,457.16	1/4	2,927.79	1/4	3,394.53	1/4	3,848.22
1/2	124.66	1/2	388.29	1/2	729.54	1/2	1,121.59	1/2	1,549.35	1/2	2,001.13	1/2	2,466.94	1/2	2,937.59	1/2	3,404.14	1/2	3,857.46
3/4	128.89	3/4	394.74	3/4	737.24	3/4	1,130.17	3/4	1,558.54	3/4	2,010.72	3/4	2,476.73	3/4	2,947.38	3/4	3,413.76	3/4	3,866.70
11	133.13	11	401.18	11	744.94	11	1,138.76	11	1,567.74	11	2,020.31	11	2,486.51	11	2,957.17	11	3,423.37	11	3,875.94
1/4	137.57	1/4	407.75	1/4	752.73	1/4	1,147.40	1/4	1,576.98	1/4	2,029.93	1/4	2,496.31	1/4	2,966.96	1/4	3,432.96	1/4	3,885.14
1/2	142.00	1/2	414.31	1/2	760.52	1/2	1,156.05	1/2	1,586.22	1/2	2,039.54	1/2	2,506.10	1/2	2,976.75	1/2	3,442.56	1/2	3,894.34
3/4	146.44	3/4	420.88	3/4	768.30	3/4	1,164.69	3/4	1,595.46	3/4	2,049.16	3/4	2,515.89	3/4	2,986.53	3/4	3,452.15	3/4	3,903.54

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 405"

## 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	3,912.74	0	4,339.27	0	4,729.54	0	5,068.27	0	5,331.70	0		0		0		0		0	
1/4	3,921.90	1/4	4,347.79	1/4	4,737.16	1/4	5,074.59	1/4	5,336.03	1/4		1/4		1/4		1/4		1/4	
1/2	3,931.05	1/2	4,356.31	1/2	4,744.77	1/2	5,080.90	1/2	5,340.35	1/2		1/2		1/2		1/2		1/2	
3/4	3,940.21	3/4	4,364.83	3/4	4,752.38	3/4	5,087.22	3/4	5,344.68	3/4		3/4		3/4		3/4		3/4	
1	3,949.37	1	4,373.36	1	4,759.99	1	5,093.53	1	5,349.00	1		1		1		1		1	
1/4	3,958.48	1/4	4,381.81	1/4	4,767.51	1/4	5,099.72	1/4	5,353.10	1/4		1/4		1/4		1/4		1/4	
1/2	3,967.59	1/2	4,390.27	1/2	4,775.03	1/2	5,105.90	1/2	5,357.20	1/2		1/2		1/2		1/2		1/2	
3/4	3,976.70	3/4	4,398.73	3/4	4,782.55	3/4	5,112.08	3/4	5,361.30	3/4		3/4		3/4		3/4		3/4	
2	3,985.82	2	4,407.19	2	4,790.07	2	5,118.27	2	5,365.40	2		2		2		2		2	
1/4	3,994.89	1/4	4,415.58	1/4	4,797.50	1/4	5,124.31	1/4	5,369.26	1/4		1/4		1/4		1/4		1/4	
1/2	4,003.95	1/2	4,423.97	1/2	4,804.92	1/2	5,130.36	1/2	5,373.12	1/2		1/2		1/2		1/2		1/2	
3/4	4,013.02	3/4	4,432.36	3/4	4,812.35	3/4	5,136.40	3/4	5,376.97	3/4		3/4		3/4		3/4		3/4	
3	4,022.09	3	4,440.75	3	4,819.78	3	5,142.45	3	5,380.83	3		3		3		3		3	
1/4	4,031.11	1/4	4,449.08	1/4	4,827.11	1/4	5,148.36	1/4	5,384.43	1/4		1/4		1/4		1/4		1/4	
1/2	4,040.13	1/2	4,457.40	1/2	4,834.44	1/2	5,154.26	1/2	5,388.03	1/2		1/2		1/2		1/2		1/2	
3/4	4,049.15	3/4	4,465.72	3/4	4,841.77	3/4	5,160.17	3/4	5,391.63	3/4		3/4		3/4		3/4		3/4	
4	4,058.17	4	4,474.05	4	4,849.10	4	5,166.07	4	5,395.23	4		4		4		4		4	
1/4	4,067.14	1/4	4,482.30	1/4	4,856.33	1/4	5,171.83	1/4	5,398.54	1/4		1/4		1/4		1/4		1/4	
1/2	4,076.11	1/2	4,490.55	1/2	4,863.56	1/2	5,177.59	1/2	5,401.86	1/2		1/2		1/2		1/2		1/2	
3/4	4,085.09	3/4	4,498.80	3/4	4,870.79	3/4	5,183.35	3/4	5,405.18	3/4		3/4		3/4		3/4		3/4	
5	4,094.06	5	4,507.06	5	4,878.02	5	5,189.11	5	5,408.49	5		5		5		5		5	
1/4	4,102.98	1/4	4,515.24	1/4	4,885.15	1/4	5,194.72	1/4	5,411.50	1/4		1/4		1/4		1/4		1/4	
1/2	4,111.90	1/2	4,523.42	1/2	4,892.28	1/2	5,200.32	1/2	5,414.50	1/2		1/2		1/2		1/2		1/2	
3/4	4,120.82	3/4	4,531.60	3/4	4,899.41	3/4	5,205.93	3/4	5,417.51	3/4		3/4		3/4		3/4		3/4	
6	4,129.74	6	4,539.78	6	4,906.54	6	5,211.54	6	5,420.51	6		6		6		6		6	
1/4	4,138.61	1/4	4,547.88	1/4	4,913.56	1/4	5,216.98	1/4	5,423.16	1/4		1/4		1/4		1/4		1/4	
1/2	4,147.48	1/2	4,555.99	1/2	4,920.58	1/2	5,222.43	1/2	5,425.82	1/2		1/2		1/2		1/2		1/2	
3/4	4,156.35	3/4	4,564.10	3/4	4,927.61	3/4	5,227.88	3/4	5,428.47	3/4		3/4		3/4		3/4		3/4	
7	4,165.22	7	4,572.20	7	4,934.63	7	5,233.33	7	5,431.12	7		7		7		7		7	
1/4	4,174.04	1/4	4,580.23	1/4	4,941.54	1/4	5,238.61	1/4	5,433.36	1/4		1/4		1/4		1/4		1/4	
1/2	4,182.86	1/2	4,588.26	1/2	4,948.46	1/2	5,243.89	1/2	5,435.61	1/2		1/2		1/2		1/2		1/2	
3/4	4,191.67	3/4	4,596.29	3/4	4,955.37	3/4	5,249.18	3/4	5,437.85	3/4		3/4		3/4		3/4		3/4	
8	4,200.49	8	4,604.32	8	4,962.29	8	5,254.46	8	5,440.09	8		8		8		8		8	
1/4	4,209.25	1/4	4,612.27	1/4	4,969.09	1/4	5,259.57	1/4	5,441.83	1/4		1/4		1/4		1/4		1/4	
1/2	4,218.01	1/2	4,620.22	1/2	4,975.89	1/2	5,264.68	1/2	5,443.56	1/2		1/2		1/2		1/2		1/2	
3/4	4,226.77	3/4	4,628.17	3/4	4,982.69	3/4	5,269.78	3/4	5,445.29	3/4		3/4		3/4		3/4		3/4	
9	4,235.53	9	4,636.12	9	4,989.49	9	5,274.89	9	5,447.03	9		9		9		9		9	
1/4	4,244.24	1/4	4,643.99	1/4	4,996.18	1/4	5,279.82	1/4	5,447.98	1/4		1/4		1/4		1/4		1/4	
1/2	4,252.94	1/2	4,651.86	1/2	5,002.87	1/2	5,284.75	1/2	5,448.92	1/2		1/2		1/2		1/2		1/2	
3/4	4,261.65	3/4	4,659.73	3/4	5,009.55	3/4	5,289.68	3/4	5,449.87	3/4		3/4		3/4		3/4		3/4	
10	4,270.35	10	4,667.60	10	5,016.24	10	5,294.60	10	5,450.82	10		10		10		10		10	
1/4	4,278.99	1/4	4,675.39	1/4	5,022.81	1/4	5,299.34	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,287.64	1/2	4,683.17	1/2	5,029.37	1/2	5,304.08	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,296.28	3/4	4,690.96	3/4	5,035.94	3/4	5,308.82	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,304.93	11	4,698.74	11	5,042.50	11	5,313.55	11		11		11		11		11		11	
1/4	4,313.51	1/4	4,706.44	1/4	5,048.95	1/4	5,318.09	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,322.10	1/2	4,714.14	1/2	5,055.39	1/2	5,322.63	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,330.68	3/4	4,721.84	3/4	5,061.83	3/4	5,327.17	3/4		3/4		3/4		3/4		3/4		3/4	

STRAPPED: 04/23/2012 CL - SW  
CALCULATED: 04/25/2012 CL  
PRINTED: 04/25/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2012

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 405"

# 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	150.79	0	427.17	0	775.54	0	1,172.46	0	1,603.45	0	2,057.12	0	2,523.62	0	2,993.83	0	3,458.83
1/4	1.15	1/4	155.41	1/4	433.85	1/4	783.40	1/4	1,181.16	1/4	1,612.73	1/4	2,066.75	1/4	2,533.41	1/4	3,003.59	1/4	3,468.39
1/2	2.09	1/2	160.04	1/2	440.53	1/2	791.26	1/2	1,189.85	1/2	1,622.00	1/2	2,076.38	1/2	2,543.20	1/2	3,013.36	1/2	3,477.95
3/4	3.04	3/4	164.66	3/4	447.21	3/4	799.13	3/4	1,198.55	3/4	1,631.27	3/4	2,086.01	3/4	2,552.99	3/4	3,023.13	3/4	3,487.50
1	3.98	1	169.29	1	453.89	1	806.99	1	1,207.25	1	1,640.54	1	2,095.64	1	2,562.79	1	3,032.90	1	3,497.06
1/4	5.71	1/4	174.24	1/4	460.69	1/4	814.93	1/4	1,216.00	1/4	1,649.85	1/4	2,105.29	1/4	2,572.58	1/4	3,042.66	1/4	3,506.59
1/2	7.44	1/2	179.20	1/2	467.49	1/2	822.88	1/2	1,224.75	1/2	1,659.15	1/2	2,114.94	1/2	2,582.38	1/2	3,052.41	1/2	3,516.12
3/4	9.17	3/4	184.15	3/4	474.28	3/4	830.82	3/4	1,233.51	3/4	1,668.46	3/4	2,124.59	3/4	2,592.17	3/4	3,062.17	3/4	3,525.66
2	10.90	2	189.11	2	481.08	2	838.77	2	1,242.26	2	1,677.77	2	2,134.24	2	2,601.97	2	3,071.93	2	3,535.19
1/4	13.14	1/4	194.38	1/4	487.99	1/4	846.79	1/4	1,251.07	1/4	1,687.12	1/4	2,143.90	1/4	2,611.77	1/4	3,081.68	1/4	3,544.69
1/2	15.37	1/2	199.66	1/2	494.90	1/2	854.81	1/2	1,259.88	1/2	1,696.46	1/2	2,153.57	1/2	2,621.57	1/2	3,091.42	1/2	3,554.20
3/4	17.61	3/4	204.94	3/4	501.81	3/4	862.83	3/4	1,268.69	3/4	1,705.81	3/4	2,163.24	3/4	2,631.37	3/4	3,101.17	3/4	3,563.70
3	19.85	3	210.22	3	508.72	3	870.86	3	1,277.50	3	1,715.15	3	2,172.91	3	2,641.17	3	3,110.92	3	3,573.20
1/4	22.50	1/4	215.66	1/4	515.73	1/4	878.96	1/4	1,286.36	1/4	1,724.53	1/4	2,182.60	1/4	2,650.97	1/4	3,120.65	1/4	3,582.68
1/2	25.14	1/2	221.10	1/2	522.75	1/2	887.06	1/2	1,295.22	1/2	1,733.91	1/2	2,192.28	1/2	2,660.78	1/2	3,130.38	1/2	3,592.15
3/4	27.79	3/4	226.55	3/4	529.77	3/4	895.16	3/4	1,304.08	3/4	1,743.29	3/4	2,201.97	3/4	2,670.58	3/4	3,140.12	3/4	3,601.63
4	30.44	4	231.99	4	536.79	4	903.25	4	1,312.95	4	1,752.67	4	2,211.66	4	2,680.38	4	3,149.85	4	3,611.10
1/4	33.44	1/4	237.59	1/4	543.91	1/4	911.43	1/4	1,321.86	1/4	1,762.08	1/4	2,221.36	1/4	2,690.19	1/4	3,159.57	1/4	3,620.55
1/2	36.44	1/2	243.20	1/2	551.03	1/2	919.60	1/2	1,330.77	1/2	1,771.49	1/2	2,231.07	1/2	2,699.99	1/2	3,169.29	1/2	3,629.99
3/4	39.44	3/4	248.80	3/4	558.16	3/4	927.78	3/4	1,339.69	3/4	1,780.91	3/4	2,240.77	3/4	2,709.80	3/4	3,179.01	3/4	3,639.44
5	42.43	5	254.40	5	565.28	5	935.95	5	1,348.60	5	1,790.32	5	2,250.47	5	2,719.60	5	3,188.73	5	3,648.88
1/4	45.74	1/4	260.15	1/4	572.50	1/4	944.20	1/4	1,357.57	1/4	1,799.76	1/4	2,260.19	1/4	2,729.40	1/4	3,198.43	1/4	3,658.29
1/2	49.06	1/2	265.91	1/2	579.73	1/2	952.44	1/2	1,366.53	1/2	1,809.21	1/2	2,269.91	1/2	2,739.21	1/2	3,208.13	1/2	3,667.71
3/4	52.37	3/4	271.66	3/4	586.96	3/4	960.69	3/4	1,375.50	3/4	1,818.65	3/4	2,279.63	3/4	2,749.01	3/4	3,217.84	3/4	3,677.12
6	55.68	6	277.42	6	594.18	6	968.93	6	1,384.46	6	1,828.10	6	2,289.35	6	2,758.82	6	3,227.54	6	3,686.53
1/4	59.27	1/4	283.32	1/4	601.50	1/4	977.25	1/4	1,393.47	1/4	1,837.57	1/4	2,299.08	1/4	2,768.62	1/4	3,237.23	1/4	3,695.91
1/2	62.86	1/2	289.22	1/2	608.83	1/2	985.57	1/2	1,402.49	1/2	1,847.05	1/2	2,308.82	1/2	2,778.42	1/2	3,246.91	1/2	3,705.29
3/4	66.45	3/4	295.12	3/4	616.15	3/4	993.88	3/4	1,411.50	3/4	1,856.52	3/4	2,318.55	3/4	2,788.22	3/4	3,256.60	3/4	3,714.67
7	70.05	7	301.03	7	623.48	7	1,002.20	7	1,420.51	7	1,866.00	7	2,328.28	7	2,798.03	7	3,266.29	7	3,724.05
1/4	73.75	1/4	307.07	1/4	630.90	1/4	1,010.58	1/4	1,429.57	1/4	1,875.50	1/4	2,338.03	1/4	2,807.83	1/4	3,275.96	1/4	3,733.39
1/2	77.45	1/2	313.11	1/2	638.32	1/2	1,018.97	1/2	1,438.63	1/2	1,885.00	1/2	2,347.78	1/2	2,817.63	1/2	3,285.63	1/2	3,742.74
3/4	81.15	3/4	319.15	3/4	645.74	3/4	1,027.35	3/4	1,447.69	3/4	1,894.51	3/4	2,357.52	3/4	2,827.43	3/4	3,295.29	3/4	3,752.08
8	84.86	8	325.20	8	653.16	8	1,035.74	8	1,456.75	8	1,904.01	8	2,367.27	8	2,837.23	8	3,304.96	8	3,761.43
1/4	88.65	1/4	331.38	1/4	660.68	1/4	1,044.19	1/4	1,465.85	1/4	1,913.54	1/4	2,377.03	1/4	2,847.02	1/4	3,314.61	1/4	3,770.74
1/2	92.44	1/2	337.56	1/2	668.19	1/2	1,052.64	1/2	1,474.96	1/2	1,923.07	1/2	2,386.78	1/2	2,856.82	1/2	3,324.26	1/2	3,780.04
3/4	96.23	3/4	343.74	3/4	675.71	3/4	1,061.09	3/4	1,484.06	3/4	1,932.61	3/4	2,396.54	3/4	2,866.62	3/4	3,333.91	3/4	3,789.35
9	100.03	9	349.92	9	683.22	9	1,069.54	9	1,493.17	9	1,942.14	9	2,406.30	9	2,876.41	9	3,343.56	9	3,798.66
1/4	104.05	1/4	356.23	1/4	690.83	1/4	1,078.05	1/4	1,502.32	1/4	1,951.70	1/4	2,416.07	1/4	2,886.20	1/4	3,353.19	1/4	3,807.93
1/2	108.07	1/2	362.54	1/2	698.43	1/2	1,086.57	1/2	1,511.47	1/2	1,961.25	1/2	2,425.84	1/2	2,896.00	1/2	3,362.82	1/2	3,817.20
3/4	112.09	3/4	368.85	3/4	706.04	3/4	1,095.08	3/4	1,520.62	3/4	1,970.81	3/4	2,435.60	3/4	2,905.79	3/4	3,372.45	3/4	3,826.47
10	116.12	10	375.16	10	713.64	10	1,103.60	10	1,529.76	10	1,980.37	10	2,445.37	10	2,915.58	10	3,382.07	10	3,835.74
1/4	120.35	1/4	381.60	1/4	721.34	1/4	1,112.18	1/4	1,538.96	1/4	1,989.95	1/4	2,455.15	1/4	2,925.36	1/4	3,391.68	1/4	3,844.98
1/2	124.58	1/2	388.04	1/2	729.03	1/2	1,120.75	1/2	1,548.15	1/2	1,999.53	1/2	2,464.93	1/2	2,935.15	1/2	3,401.29	1/2	3,854.21
3/4	128.82	3/4	394.48	3/4	736.72	3/4	1,129.33	3/4	1,557.34	3/4	2,009.12	3/4	2,474.70	3/4	2,944.93	3/4	3,410.89	3/4	3,863.44
11	133.05	11	400.92	11	744.42	11	1,137.91	11	1,566.53	11	2,018.70	11	2,484.48	11	2,954.72	11	3,420.50	11	3,872.67
1/4	137.49	1/4	407.48	1/4	752.20	1/4	1,146.55	1/4	1,575.76	1/4	2,028.31	1/4	2,494.27	1/4	2,964.50	1/4	3,430.08	1/4	3,881.86
1/2	141.92	1/2	414.04	1/2	759.98	1/2	1,155.19	1/2	1,584.99	1/2	2,037.91	1/2	2,504.05	1/2	2,974.27	1/2	3,439.66	1/2	3,891.05
3/4	146.35	3/4	420.60	3/4	767.76	3/4	1,163.82	3/4	1,594.22	3/4	2,047.52	3/4	2,513.84	3/4	2,984.05	3/4	3,449.25	3/4	3,900.24

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 405"

## 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	3,909.43	0	4,335.60	0	4,725.56	0	5,064.03	0	5,327.28	0		0		0		0		0	
1/4	3,918.58	1/4	4,344.11	1/4	4,733.16	1/4	5,070.34	1/4	5,331.60	1/4		1/4		1/4		1/4		1/4	
1/2	3,927.73	1/2	4,352.63	1/2	4,740.77	1/2	5,076.65	1/2	5,335.92	1/2		1/2		1/2		1/2		1/2	
3/4	3,936.88	3/4	4,361.14	3/4	4,748.37	3/4	5,082.96	3/4	5,340.25	3/4		3/4		3/4		3/4		3/4	
1	3,946.03	1	4,369.66	1	4,755.98	1	5,089.27	1	5,344.57	1		1		1		1		1	
1/4	3,955.13	1/4	4,378.11	1/4	4,763.49	1/4	5,095.45	1/4	5,348.66	1/4		1/4		1/4		1/4		1/4	
1/2	3,964.24	1/2	4,386.56	1/2	4,771.01	1/2	5,101.63	1/2	5,352.76	1/2		1/2		1/2		1/2		1/2	
3/4	3,973.34	3/4	4,395.01	3/4	4,778.52	3/4	5,107.81	3/4	5,356.86	3/4		3/4		3/4		3/4		3/4	
2	3,982.45	2	4,403.46	2	4,786.04	2	5,113.99	2	5,360.96	2		2		2		2		2	
1/4	3,991.51	1/4	4,411.85	1/4	4,793.46	1/4	5,120.03	1/4	5,364.81	1/4		1/4		1/4		1/4		1/4	
1/2	4,000.57	1/2	4,420.23	1/2	4,800.88	1/2	5,126.07	1/2	5,368.67	1/2		1/2		1/2		1/2		1/2	
3/4	4,009.63	3/4	4,428.61	3/4	4,808.30	3/4	5,132.11	3/4	5,372.52	3/4		3/4		3/4		3/4		3/4	
3	4,018.69	3	4,437.00	3	4,815.72	3	5,138.15	3	5,376.38	3		3		3		3		3	
1/4	4,027.70	1/4	4,445.32	1/4	4,823.04	1/4	5,144.05	1/4	5,379.98	1/4		1/4		1/4		1/4		1/4	
1/2	4,036.71	1/2	4,453.63	1/2	4,830.37	1/2	5,149.96	1/2	5,383.57	1/2		1/2		1/2		1/2		1/2	
3/4	4,045.73	3/4	4,461.95	3/4	4,837.69	3/4	5,155.86	3/4	5,387.17	3/4		3/4		3/4		3/4		3/4	
4	4,054.74	4	4,470.26	4	4,845.02	4	5,161.76	4	5,390.77	4		4		4		4		4	
1/4	4,063.70	1/4	4,478.51	1/4	4,852.24	1/4	5,167.51	1/4	5,394.08	1/4		1/4		1/4		1/4		1/4	
1/2	4,072.67	1/2	4,486.76	1/2	4,859.47	1/2	5,173.27	1/2	5,397.40	1/2		1/2		1/2		1/2		1/2	
3/4	4,081.63	3/4	4,495.00	3/4	4,866.69	3/4	5,179.02	3/4	5,400.71	3/4		3/4		3/4		3/4		3/4	
5	4,090.60	5	4,503.25	5	4,873.92	5	5,184.78	5	5,404.03	5		5		5		5		5	
1/4	4,099.51	1/4	4,511.42	1/4	4,881.04	1/4	5,190.38	1/4	5,407.03	1/4		1/4		1/4		1/4		1/4	
1/2	4,108.42	1/2	4,519.60	1/2	4,888.17	1/2	5,195.99	1/2	5,410.03	1/2		1/2		1/2		1/2		1/2	
3/4	4,117.34	3/4	4,527.77	3/4	4,895.29	3/4	5,201.59	3/4	5,413.03	3/4		3/4		3/4		3/4		3/4	
6	4,126.25	6	4,535.94	6	4,902.41	6	5,207.19	6	5,416.04	6		6		6		6		6	
1/4	4,135.11	1/4	4,544.04	1/4	4,909.43	1/4	5,212.64	1/4	5,418.69	1/4		1/4		1/4		1/4		1/4	
1/2	4,143.98	1/2	4,552.14	1/2	4,916.45	1/2	5,218.08	1/2	5,421.34	1/2		1/2		1/2		1/2		1/2	
3/4	4,152.84	3/4	4,560.24	3/4	4,923.46	3/4	5,223.52	3/4	5,423.99	3/4		3/4		3/4		3/4		3/4	
7	4,161.70	7	4,568.34	7	4,930.48	7	5,228.97	7	5,426.64	7		7		7		7		7	
1/4	4,170.51	1/4	4,576.36	1/4	4,937.39	1/4	5,234.25	1/4	5,428.88	1/4		1/4		1/4		1/4		1/4	
1/2	4,179.32	1/2	4,584.39	1/2	4,944.30	1/2	5,239.53	1/2	5,431.13	1/2		1/2		1/2		1/2		1/2	
3/4	4,188.13	3/4	4,592.41	3/4	4,951.21	3/4	5,244.81	3/4	5,433.37	3/4		3/4		3/4		3/4		3/4	
8	4,196.94	8	4,600.43	8	4,958.12	8	5,250.08	8	5,435.61	8		8		8		8		8	
1/4	4,205.69	1/4	4,608.38	1/4	4,964.92	1/4	5,255.19	1/4	5,437.34	1/4		1/4		1/4		1/4		1/4	
1/2	4,214.44	1/2	4,616.32	1/2	4,971.71	1/2	5,260.30	1/2	5,439.08	1/2		1/2		1/2		1/2		1/2	
3/4	4,223.20	3/4	4,624.27	3/4	4,978.51	3/4	5,265.40	3/4	5,440.81	3/4		3/4		3/4		3/4		3/4	
9	4,231.95	9	4,632.21	9	4,985.31	9	5,270.51	9	5,442.54	9		9		9		9		9	
1/4	4,240.65	1/4	4,640.07	1/4	4,991.99	1/4	5,275.43	1/4	5,443.49	1/4		1/4		1/4		1/4		1/4	
1/2	4,249.34	1/2	4,647.94	1/2	4,998.67	1/2	5,280.36	1/2	5,444.44	1/2		1/2		1/2		1/2		1/2	
3/4	4,258.04	3/4	4,655.80	3/4	5,005.35	3/4	5,285.28	3/4	5,445.38	3/4		3/4		3/4		3/4		3/4	
10	4,266.74	10	4,663.66	10	5,012.03	10	5,290.21	10	5,446.33	10		10		10		10		10	
1/4	4,275.38	1/4	4,671.44	1/4	5,018.59	1/4	5,294.94	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,284.01	1/2	4,679.22	1/2	5,025.16	1/2	5,299.67	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,292.65	3/4	4,687.00	3/4	5,031.72	3/4	5,304.41	3/4		3/4		3/4		3/4		3/4		3/4	
11	4,301.29	11	4,694.78	11	5,038.28	11	5,309.14	11		11		11		11		11		11	
1/4	4,309.87	1/4	4,702.47	1/4	5,044.72	1/4	5,313.68	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	4,318.44	1/2	4,710.17	1/2	5,051.15	1/2	5,318.21	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	4,327.02	3/4	4,717.86	3/4	5,057.59	3/4	5,322.75	3/4		3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/23/2012 CL - SW  
CALCULATED: 04/25/2012 CL  
PRINTED: 04/25/2012 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 04/2012

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